

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

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Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.



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Table of Contents

	<u>Page</u>
I. Executive Summary	i
II. Introduction	1
III. Fuel Economy Trends	6
IV. Carbon Dioxide Emissions Trends	19
V. Fuel Economy Trends by Vehicle Type, Size, and Weight	33
VI. Fuel Economy Powertrain Technology Trends	49
VII. Fuel Economy by Manufacturer and Make	81
VIII. Alternative Fuel Vehicle Trends	90
IX. References	101

Table of Contents, continued

Appendices

- APPENDIX A -- Database Details and Calculation Methods
- APPENDIX B -- Model Year 2012 Nameplate Fuel Economy Listings
- APPENDIX C -- Fuel Economy Distribution Data
- APPENDIX D -- Fuel Economy Data Stratified by Vehicle Type
- APPENDIX E -- Fuel Economy Data Stratified by Vehicle Type and Size
- APPENDIX F -- Car Fuel Economy Data Stratified by EPA Car Class
- APPENDIX G -- Fuel Economy Data Stratified by Vehicle Type and Weight Class
- APPENDIX H -- Fuel Economy Data Stratified by Vehicle Type and Drive Type
- APPENDIX I -- Fuel Economy Data Stratified by Vehicle Type and Transmission Type
- APPENDIX J -- Fuel Economy Data Stratified by Vehicle Type and Cylinder Count
- APPENDIX K -- Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder
- APPENDIX L -- Fuel Economy Data Stratified by Vehicle Type and Manufacturer
- APPENDIX M -- Fuel Economy by Manufacturer, Vehicle Type and Weight Class
- APPENDIX N -- Fuel Economy and Ton-MPG by Manufacturer, Vehicle Type and Size
- APPENDIX O -- MY 2012 Fuel Economy by Vehicle Type, Weight and Manufacturer
- APPENDIX P -- Fuel Economy Data Stratified by Manufacturer and Vehicle Type

I. Executive Summary

Introduction

This report summarizes key trends in carbon dioxide (CO₂) emissions, fuel economy, and CO₂- and fuel economy-related technology for gasoline- and diesel-fueled personal vehicles sold in the United States, from model years (MY) 1975 through 2012. Personal vehicles are those vehicles that EPA classifies as cars, light-duty trucks, or medium-duty passenger vehicles. The data in this report cover the MY 1975-2012 timeframe, supersede the data in previous reports in this series, and, for many important reasons, should not be compared with data from previous years' editions of this report. Most CO₂ emissions and fuel economy values in this report have been adjusted to reflect "real world" consumer performance and therefore are not comparable to CO₂ emissions and fuel economy standards.

CO₂ emissions rates and fuel economy values reflect a very favorable multi-year trend beginning in MY 2005. Data for MY 2011 are final, whereas data for MY 2012 are preliminary and based on projected vehicle production values provided to EPA by manufacturers. The fleetwide average real world MY 2011 personal vehicle CO₂ emissions value is 398 grams per mile (g/mi) and average fuel economy is 22.4 miles per gallon (mpg), both slightly worse relative to MY 2010. Preliminary projections for MY 2012 are 374 g/mi CO₂ emissions and 23.8 miles per gallon, which, if realized, would represent one of the largest annual improvements since 1975.

One factor which almost certainly contributes to both the apparent slight worsening in MY 2011 and the large projected improvement in MY 2012 is the reduction in MY 2011 car and car parts production in Japan in the aftermath of the March 2011 earthquake, tsunami, and nuclear disasters. While it is impossible to project the precise impact, EPA estimates that the fleetwide average MY 2011 CO₂ emissions and fuel economy values would likely have been similar to or slightly better than MY 2010 levels if car production from major Japan-based manufacturers had not been constrained by the tragedies. Likewise, the improvement projected for MY 2012 would be somewhat smaller.

For more discussion of the key conclusions of this report, see the Highlights below.

What's New This Year

One change to this year's report is the addition of Section VIII on Alternative Fuel Vehicle Trends. Previous reports in this series have only included data for vehicles that are dedicated to or are expected to operate primarily on petroleum fuels, i.e., gasoline and diesel, and the primary Trends database that is the subject of this report (with the exception of Section VIII) continues to include data only from vehicles operated on petroleum fuels. Since 1975, these vehicles have represented well over 99 percent of all light-duty vehicles sold in the U.S. But, the number of vehicles dedicated to (or designed to operate frequently on) nonpetroleum fuels is increasing, and Section VIII provides relevant data from electric vehicles, plug-in hybrid electric vehicles, and compressed natural gas vehicles.

For the first time, EPA presents data on technology penetration rates by individual manufacturers, to complement the industry-wide data that have been included in the report for many years. For each manufacturer, data are presented for the maximum increases in technology deployment over 1-year, 3-year, and 5-year intervals for five "mature" technologies (fuel injection, lockup transmissions, front wheel drive, multi-valve engines, and variable valve timing) and three emerging technologies (6-speed transmissions, continuously variable transmissions, and gasoline direct injection engines). These new data are presented near the end of Section VI.

Vehicle footprint data are of increasing interest, of course, because greenhouse gas emissions and corporate average fuel economy (CAFE) standards are now footprint-based. This series of reports has included footprint data since MY 2008, the first year that manufacturers could optionally comply with footprint-based light truck CAFE standards. EPA received formal, comprehensive footprint data from all manufacturers, for the first time, in the final CAFE compliance reports for MY 2011, the first year footprint-based CAFE standards became required for all vehicles, and these data are included in this report. EPA will continue to receive, and report, formal footprint data from manufacturers in future years as well. It is important to note that, while some of the footprint data that EPA reports for MY 2008-2010 came from formal manufacturer submissions, EPA supplemented this with informal data from manufacturer websites and commercial websites, and EPA cannot be certain that the data from MY 2008-2010 is comparable, with respect to both precision and consistency, to the formal footprint data from MY 2011 and future years. For purposes of footprint trends over time, EPA has a higher level of confidence in data from MY 2011 and future years, and a lower level of confidence in data from MY 2008-2010.

The one change to manufacturer definitions in this year's report is that, due to new corporate financial relationships, Chrysler has been combined with Fiat, Ferrari, and Maserati to form the Chrysler-Fiat manufacturing group. Consistent with this new manufacturer definition and the long-standing approach of propagating current manufacturer definitions backwards in the historical database in order to protect the integrity of long-term trends, all historical Chrysler data now reflect production for the U.S. market for Fiat, Ferrari, and Maserati as well.

Two important changes initiated in the 2011 report have been retained in this year's report: 1) all car/truck classifications throughout the historical database are consistent with the regulatory definitions used by the Department of Transportation's (DOT) National Highway Traffic Safety Administration (NHTSA) for CAFE standards beginning in MY 2011, and by EPA and NHTSA for the greenhouse gas emissions and CAFE standards for MY 2012-2025, and 2) medium-duty passenger vehicles (MDPVs), which include larger sport utility vehicles (SUVs) and passenger vans, but not the largest pickup trucks, in the 8500-10,000 pound gross vehicle weight rating (GVWR) range, are included beginning with MY 2011 data.

Finally, on November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data. Hyundai and Kia submitted corrected MY 2011-2013 fuel economy and CO₂ emissions data to EPA and re-labeled the majority of their model year 2012 and 2013 vehicle models on the market. The database for this report includes all Hyundai and Kia vehicles, including the corrected fuel economy values submitted by Hyundai and Kia for four MY 2011 vehicles and for a majority of Hyundai and Kia vehicles for MY 2012. The magnitude of the changes between the original fuel economy label values and the corrected fuel economy label values ranges from 1 mpg to 6 mpg. For the changes in fuel economy label values for individual vehicles, see <http://www.epa.gov/fueleconomy/labelchange.htm>. Since EPA's investigation into Hyundai and Kia data submissions is continuing, Hyundai and Kia-specific values are excluded from tables that list the fuel economy and CO₂ emissions performance for individual manufacturers, but are generally provided in footnotes associated with the tables.

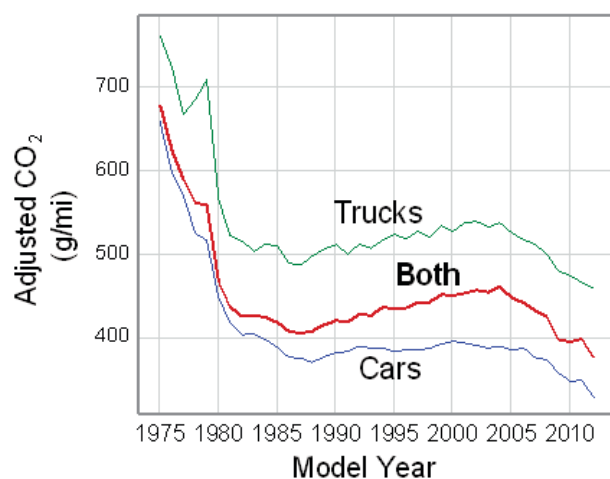
Highlight #1: CO₂ emission rates and fuel economy values reflect a very favorable multi-year trend, beginning with MY 2005.

MY 2011 adjusted composite CO₂ emissions are 398 g/mi, a 4 g/mi increase relative to the record low set in MY 2010. MY 2011 adjusted composite fuel economy is 22.4 mpg, 0.2 mpg lower than the historic high set in MY 2010. Preliminary MY 2012 values are 374 g/mi CO₂ emissions and 23.8 mpg fuel economy, which, if achieved, will be amongst the largest single year improvements since 1975.

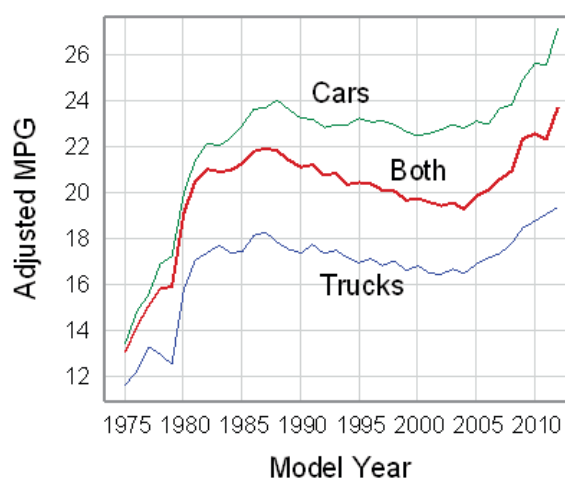
One factor which contributes to both the apparent slight worsening in MY 2011 and the large projected improvement in MY 2012 is the reduction in MY 2011 car and car parts production in Japan in the aftermath of the March 2011 earthquake, tsunami, and nuclear disasters. For example, MY 2011 car production by Toyota and Honda was over 500,000 units lower relative to MY 2010, while the rest of the industry, collectively, increased car production in MY 2011. While it is impossible to project the precise industry-wide impact, since some of this lower car production was likely captured by other manufacturers, EPA estimates that the fleetwide average MY 2011 CO₂ emissions and fuel economy values would likely have been similar to or slightly higher than MY 2010 levels if car production from major Japan-based manufacturers had not been constrained by the tragedies. Likewise, the improvement projected for MY 2012 would be somewhat less had the final MY 2011 fuel economy value been greater.

While year-to-year changes often receive the most public attention, annual values can be volatile for many reasons and the greatest value of the historical trends database is the identification and documentation of longer-term trends. For example, there have been three major factors that have contributed to year-to-year volatility since 2009: the economic recession in MY 2009; rising and volatile gasoline and diesel fuel prices; and the impact of the tsunami aftermath on Japan-based manufacturers. Using a 5-year timeframe (2006 and 2007 are good base years since there was little market volatility), CO₂ emission rates have decreased by 10 percent and fuel economy values have increased by 11 percent from MY 2006-2011. Based on preliminary estimates, CO₂ emission rates have decreased by 13 percent and fuel economy values have increased by 16 percent from MY 2007-2012. The improvements have been even greater since the “inflection point” year in 2004.

Adjusted CO₂ Emissions



Adjusted Fuel Economy

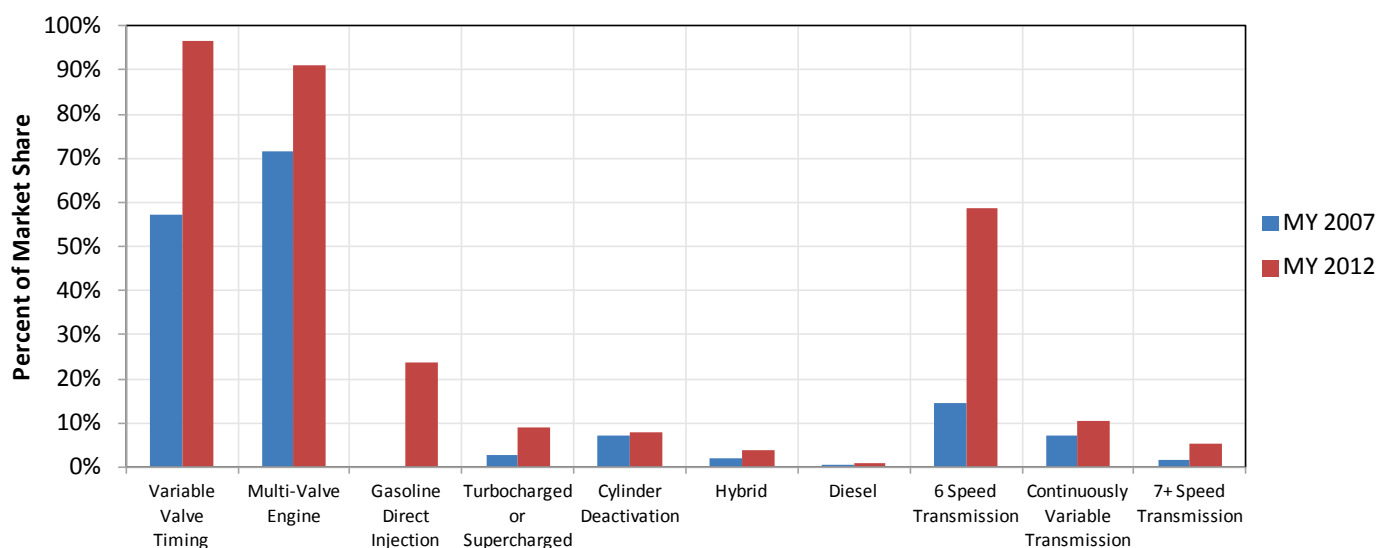


Highlight #2: Many new technologies are rapidly gaining market share.

New technologies are continually being introduced into the marketplace, replacing older and less effective technologies. Technological innovation is a major driving force behind the recent improvements in CO₂ emissions and fuel economy, and the majority of the carbon and oil savings from current vehicles is due to new gasoline vehicle technologies.

Two engine technologies first introduced over 20 years ago—variable valve timing and multi-valve—are projected to be used on 90 percent or more of all MY 2012 vehicles. Through the mid-1980s, most vehicles relied on carburetors to deliver fuel to the engine. Carburetors were replaced by fuel injection systems in the late 1980s. Now, in some vehicles, conventional fuel injection systems are being replaced by more sophisticated gasoline direct injection systems, the use of which has grown from essentially zero in MY 2007 to a projected 24 percent of the market in MY 2012. The use of turbochargers/superchargers has tripled from about 3 percent in MY 2007 to a projected 9 percent in MY 2012, while the use of cylinder deactivation has remained in the 8-9 percent range. Both conventional hybrids and diesel vehicles have increased market share slightly since MY 2007.

Light Duty Vehicle Technology Penetration Share

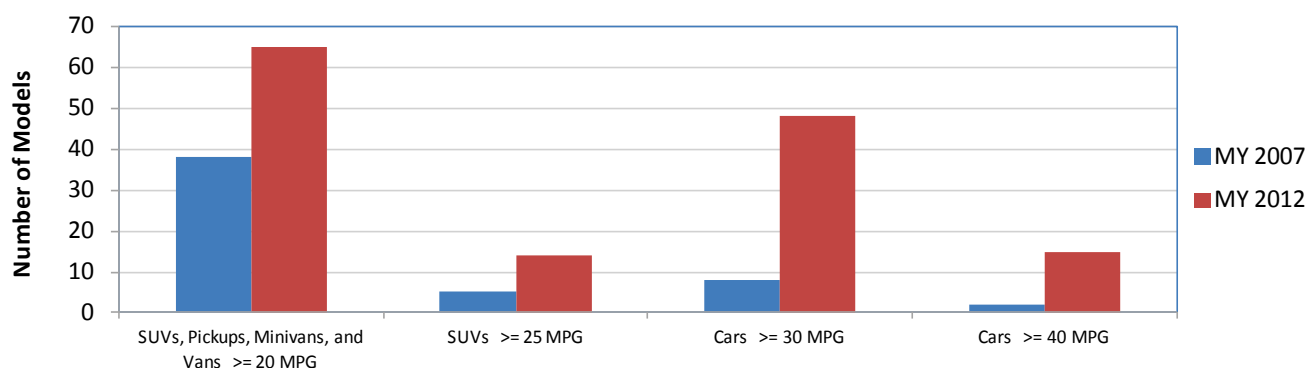


Recent changes in transmission technology adoption are particularly noteworthy. Through 2005, the 4 speed transmission was the dominant automatic transmission. Transmissions with 6 or more speeds and continuously variable transmissions cumulatively accounted for about 25% of vehicle production in MY 2007, but are projected to reach 75% market share in MY 2012.

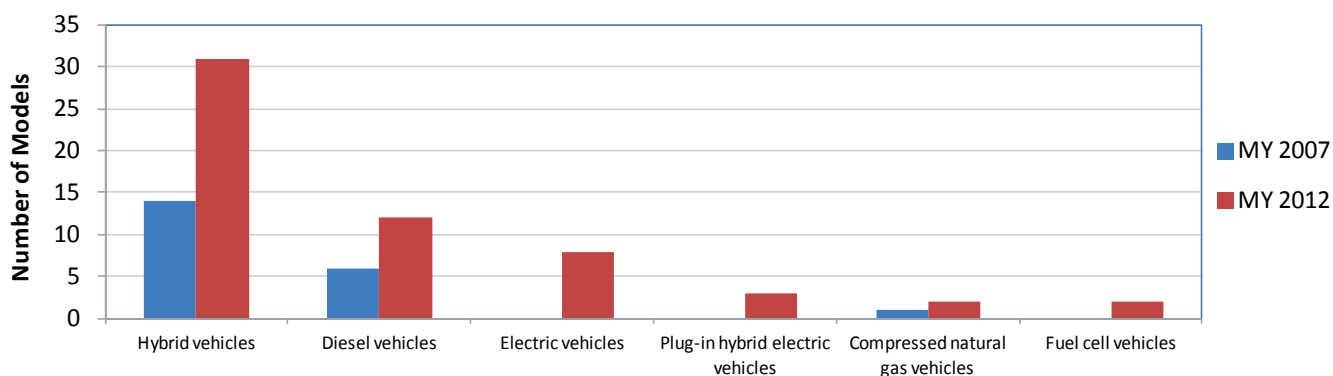
See Section VI for more detailed data on technology trends in general, as well as for new data on the maximum technology penetration rates for individual manufacturers.

Highlight #3: Consumers have an increasing number of high fuel economy/low CO₂ vehicle choices.

The U.S. personal vehicle market is diversifying, and consumers now have a much broader range of vehicle choices with respect to fuel economy/CO₂ emissions performance and powertrain technology. The number of SUV, pickup, minivan, and van models that have combined EPA label values of 20 mpg or more have increased by 71%, from 38 in 2007 to 65 in 2012. There are almost 3 times more SUVs with combined labels of 25 mpg or more and 6 times more cars with ratings of 30 mpg or more. The number of cars with 40 mpg (or higher) labels have increased from 2 in 2007 to 15 in 2012.



There are also many more advanced technology vehicle choices. In MY 2007, the only advanced technology for which there were meaningful choices was conventional hybrids (and, to a lesser degree, diesel vehicles). Today, not only are there about twice as many conventional hybrids and diesels in the market, but growing numbers of electric vehicles, plug-in hybrid electric vehicles, natural gas vehicles, and fuel cell vehicles as well. Some of these alternative fueled vehicles have limited consumer availability. For example, the two fuel cell vehicles are only available to some consumers in selected California markets.



For this analysis, the authors used engineering judgment to differentiate between those configurations that are generally marketed and perceived by consumers to be the same model (e.g., 2WD/4WD, different engine sizes and/or pickup truck wheelbases, and different trim levels were treated as one model) versus those configurations that are generally marketed and perceived by consumers to be unique vehicle choices (e.g., vehicles which are marketed separately and have distinct vehicle sizes such as the Prius, Prius v, and Prius c). This same approach was used for both MY 2007 and MY 2012. All fuel economy values in this highlight are consistent with label values and classifications. For more detail on this analysis, see the brochure and technical support memorandum at <http://www.epa.gov/nvfel/showcase.htm>. See fuelconomy.gov for formal EPA label values for individual vehicles.

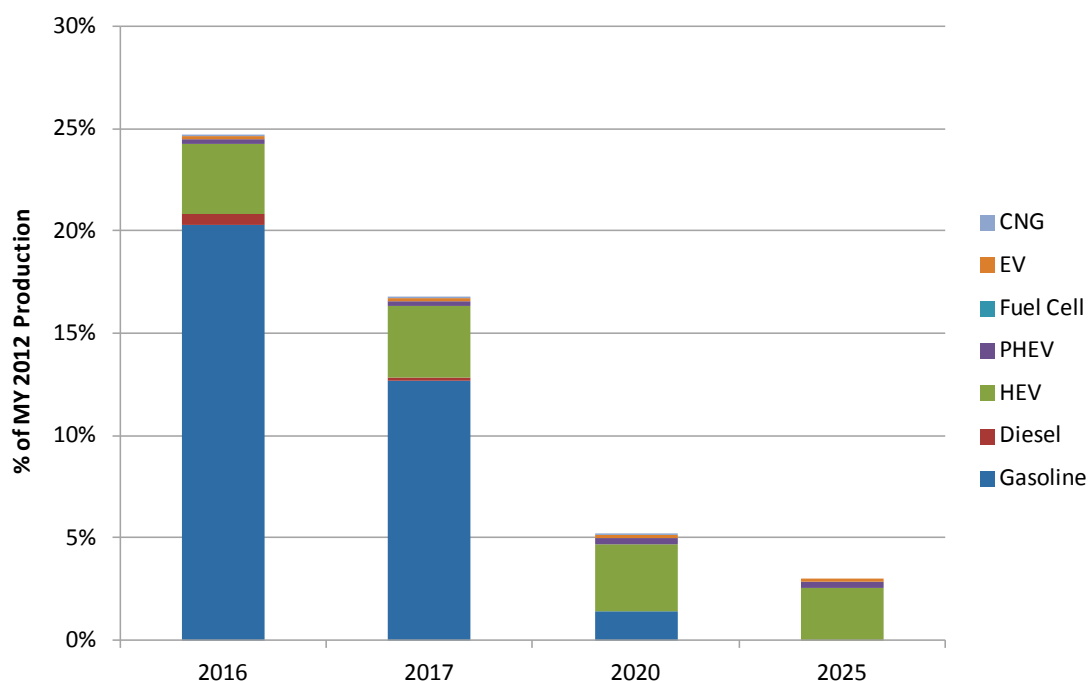
Highlight #4: Manufacturers are selling many vehicles today that can meet future CO₂ emission targets.

EPA evaluated MY 2012 vehicles against future footprint-based CO₂ emission targets to determine which vehicles could meet or exceed the targets in model years 2016-2025, based on current powertrain designs and assuming improvements in air conditioner refrigerants and efficiency. It is important to note there are no CO₂ emissions standards for individual vehicles. Rather, manufacturers are subject to corporate average standards for both their passenger car and light truck fleets. The standards are derived from the footprint-based CO₂ emissions target curves, and the production volume-weighted distribution of vehicles produced for sale in the U.S.

Nearly 25% of projected MY 2012 vehicle production already meets the MY 2016 CO₂ targets, or can meet these targets with the addition of expected air conditioning improvements. The bulk of this production share is accounted for by non-hybrid gasoline vehicles, although other technologies, including hybrids, electric vehicles, and diesel vehicles are also represented. These 25% represent approximately 80 MY 2012 vehicle models that are in showrooms today, and include a wide range of vehicle segments, including cars, SUVs, minivans, and pickup trucks.

Looking ahead, there are about 20 vehicle models (3% of projected 2012 production) that could meet the MY 2025 CO₂ targets. Vehicles meeting the MY 2025 CO₂ targets are comprised solely of hybrids, plug-in hybrids, electric vehicles, and fuel cell vehicles. Since the MY 2025 standards are over a decade away, there's considerable time for continued improvements in gasoline vehicle technology.

MY 2012 Vehicle Production Share (Projected) That Meets Future CO₂ Targets, by Technology



EPA assumed the addition of only air conditioning improvements since these are considered to be among the most straightforward and least expensive technologies available to reduce CO₂ and other greenhouse gas emissions. See the “Regulatory Context” section below for more information on CO₂ and fuel economy standards.

Highlight #5: Most manufacturers continue to increase fuel economy, resulting in lower CO₂ emission rates.

Seven of the 11 manufacturers shown below increased fuel economy from MY 2010 to MY 2011, the last two years for which we have definitive data. Preliminary MY 2012 values suggest that all manufacturers will improve in MY 2012, several by 20 g/mi CO₂ or more and 1.5 mpg or more, though these projections are uncertain and EPA will not have final data until next year's report.

In MY 2011, for the 11 manufacturers shown, Volkswagen had the lowest fleetwide adjusted composite CO₂ emissions and highest adjusted fuel economy performance, followed by Mazda and then a tie between Honda and Toyota. All of these manufacturers have average footprint values lower than the industry average. Daimler had the highest CO₂ emissions (and lowest fuel economy), followed by Chrysler-Fiat and GM. VW had the biggest improvement in adjusted CO₂ (and fuel economy) performance from MY 2010 to MY 2011, with a 14 g/mi reduction in fleetwide CO₂ emissions (and 1.0 mpg fuel economy improvement), followed by Ford (13 g/mi reduction in CO₂ emissions and 0.7 mpg improvement). The higher CO₂ and lower fuel economy values for Honda and Toyota in MY 2011 are at least partially explained by the lower car production in Japan due to the March 2011 tsunami. Section VII has greater detail on the fuel economy and CO₂ emissions for these manufacturers (e.g., for individual manufacturer car and truck fleets), as well as for these manufacturers' individual makes (i.e., brands).

MY 2010–2012 Manufacturer Fuel Economy and CO₂ Emissions¹

Manufacturer	MY2010	MY2010	MY2011	MY2011	MY2012	MY2012
	MPG	CO ₂ (g/mi)	MPG	CO ₂ (g/mi)	MPG	CO ₂ (g/mi)
VW	25.0	363	26.0	349	26.2	346
Mazda	24.4	364	25.0	356	25.9	343
Toyota	25.4	350	24.1	369	25.6	347
Honda	24.9	357	24.1	369	26.4	337
Subaru	23.4	379	23.9	372	25.2	353
Nissan	23.1	384	23.3	381	24.6	361
BMW	22.1	404	22.7	393	23.1	386
Ford	20.4	435	21.1	422	23.2	382
GM	21.3	418	20.7	429	21.4	415
Chrysler-Fiat	19.5	455	19.4	458	20.6	431
Daimler	18.9	471	19.1	469	21.4	418
All	22.6	394	22.4	398	23.8	374

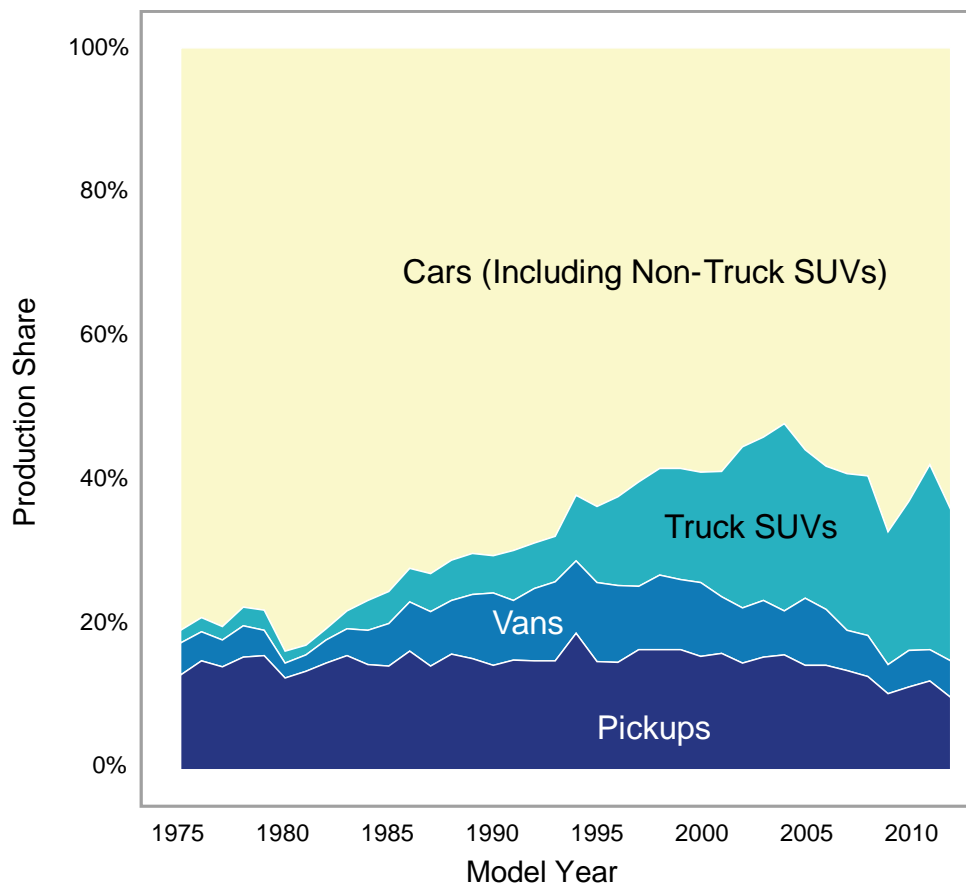
¹ Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data. This report uses the corrected fuel economy values submitted by Hyundai and Kia for four MY 2011 vehicles and for a majority of Hyundai and Kia vehicles for MY 2012. Based on these corrected data, Hyundai's 2011 values are 27.2 mpg and 327 g/mi CO₂, Hyundai's preliminary 2012 values are 28.8 mpg and 309 g/mi CO₂, Kia's 2011 values are 25.8 mpg and 345 g/mi CO₂, and Kia's preliminary 2012 values are 26.7 mpg and 333 g/mi CO₂.

Highlight #6: Truck market share continues to be volatile.

Light trucks, which include pickup trucks, minivans/vans, and most SUVs, accounted for 42 percent of all light-duty vehicle production in MY 2011. This represents a 5 percent increase over MY 2010. The MY 2012 light truck market share is projected to be 36 percent, based on pre-model year production projections by automakers, which, if realized, would return truck market share to slightly below the MY 2010 level and to the second lowest level since 1993.

Truck market share has been very volatile in recent years, decreasing by 8 percent in MY 2009, and increasing by 4 percent in MY 2010 and by 5 percent in MY 2011. Three factors that have likely contributed to the volatility in truck share include: 1) MY 2009 was a particularly unusual year due to the serious economic recession that led to much turmoil in the automotive market and almost certainly led to an artificially low truck production share in that year, which then results in an apparently larger truck production share increase since MY 2009; 2) the Car Allowance Rebate System (CARS), commonly referred to as Cash for Clunkers, managed by NHTSA, which provided incentives of up to \$4500 for the trade-in of a vehicle with lower fuel economy and purchase of a new vehicle with higher fuel economy, that resulted in 677,081 new vehicle purchases in 2009, and 3) the earthquake, tsunami, and nuclear tragedies in Japan in March 2011 almost certainly decreased the supply of cars from Japan (possibly trucks as well, but likely more cars than trucks), which likely contributed to the truck share increase in MY 2011 (as well as to the projected truck share decrease in MY 2012).

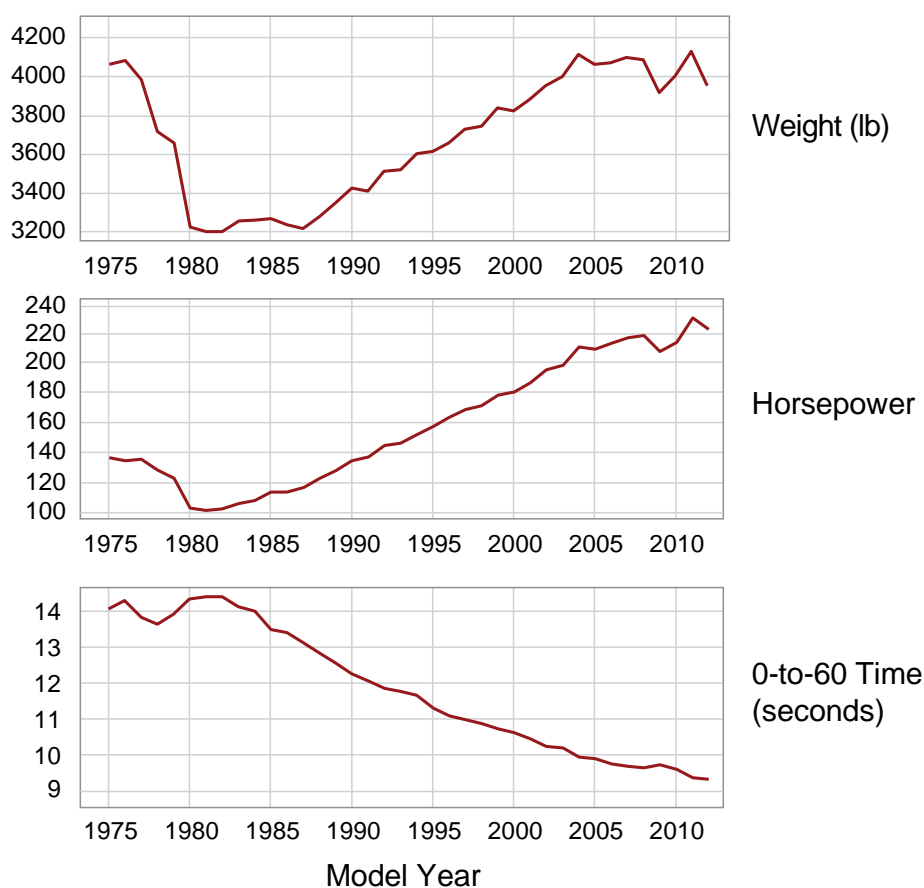
Production Share by Vehicle Type



Highlight #7: Vehicle power is at a record high, while the vehicle weight trend is generally flat.

MY 2011 vehicle weight averaged 4127 pounds, an increase of 125 pounds compared to MY 2010. The average car weight increased 81 pounds and truck weight increased 40 pounds, and the remaining difference was due to higher truck market share. In MY 2011, the average vehicle power was 230 horsepower, an increase of 16 horsepower since MY 2010. Car power increased by 10 horsepower and truck power increased by 18 horsepower, and the remaining difference was due to higher truck market share. Estimated MY 2011 0-to-60 acceleration time decreased to 9.4 seconds. Preliminary MY 2012 values suggest that average vehicle weight and power will both decrease, though these projections are uncertain and EPA will not have final data until next year's report. While the preliminary MY 2012 weight value is lower than all but one year since 2001, the preliminary MY 2012 power value would still be the second highest value ever, exceeded only by MY 2011.

Weight, Horsepower and 0-to-60 Performance



Vehicle weight and performance are two of the most important engineering parameters that help determine a vehicle's CO₂ emissions and fuel economy. In general, all other factors being equal, higher vehicle weight (which supports new options and features) and faster acceleration performance (e.g., lower 0-to-60 mile-per-hour acceleration time), both increase a vehicle's CO₂ emissions and decrease fuel economy. From MY 1987 through MY 2004, on a fleetwide basis, automotive technology innovation was generally utilized to support market-driven attributes other than CO₂ emissions and fuel economy, such as vehicle weight, performance, and utility. Beginning in MY 2005, technology has been used to increase both fuel economy (which has reduced CO₂ emissions) and performance, while keeping vehicle weight relatively constant.

Regulatory Context

CAFE standards have been in place since 1978. NHTSA has the responsibility for setting and enforcing CAFE standards. EPA is responsible for establishing fuel economy test procedures and calculation methods, and for collecting data used to determine vehicle fuel economy and manufacturer CAFE levels.

For MY 2012 through 2025, EPA and NHTSA have jointly developed a coordinated National Program which established EPA greenhouse gas emissions standards and NHTSA CAFE standards that allow manufacturers to build a single national fleet to meet requirements of both programs while ensuring that consumers have a full range of vehicle choices. The National Program has been supported by a wide range of stakeholders: most major automakers, the United Auto Workers, the State of California, and major consumer and environmental groups.

In 2010, the agencies finalized the first coordinated standards for MY 2012-2016 (75 Federal Register 25324, May 7, 2010). The standards for MY 2012 are now in effect, and are projected to require average fleetwide CO₂ emissions compliance of about 295 g/mi and average CAFE compliance of about 29.3 mpg (actual fleetwide compliance levels will depend on the mix of vehicle footprint levels). By MY 2016, the average industry-wide compliance levels for these footprint-based standards are projected to be 250 g/mi CO₂ and 34.1 mpg CAFE. The 250 g/mi CO₂ compliance level would be equivalent to 35.5 mpg if all CO₂ emissions reductions are achieved through fuel economy improvements. In 2012, the agencies finalized additional coordinated standards for MY 2017-2025 (77 Federal Register 62624, October 15, 2012). By MY 2025, the average industry-wide compliance levels are projected to be 163 g/mi CO₂ and 48.7-49.7 mpg CAFE.² The 163 g/mi CO₂ compliance level would be equivalent to 54.5 mpg if all CO₂ emissions reductions are achieved solely through improvements in fuel economy. For both MY 2012-2016 and MY 2017-2025, the agencies expect that a portion of the required CO₂ emissions improvements will be achieved by reductions in air conditioner refrigerant leakage, which would not contribute to higher fuel economy.

Automaker compliance with both CO₂ and CAFE standards is based on unadjusted laboratory CO₂ and fuel economy values, along with various regulatory incentives and credits. Neither unadjusted laboratory nor adjusted composite CO₂ and fuel economy values reflect various incentives (e.g., for flexible fuel vehicles for both CAFE and CO₂ standards) and credits (air conditioner and other off-cycle technologies for CO₂ standards) that are available to manufacturers for regulatory compliance. With real world (i.e., 5-cycle label) adjustments, alternative fuel vehicle credits, and test procedure adjustments, fleetwide CAFE compliance values are a minimum of 25 percent higher than EPA adjusted (5-cycle) fuel economy values. See Appendix A for a detailed comparison of EPA adjusted and laboratory fuel economy values and CAFE compliance values.

Notes on Data Contained in This Report

This report supersedes all previous reports in this series. Users of this report should rely exclusively on data in this latest report, which covers MY 1975 through 2012, and not make comparisons to data in previous reports in this series. There are several reasons for this.

One, EPA revised the methodology for estimating "real-world" (i.e., label) fuel economy values in December 2006. Every adjusted (ADJ) fuel economy value in this report for 1986 and later model years is lower than given in

² NHTSA CAFE standards for model years 2022-2025 are not final, and are augural. NHTSA is required by Congress to set CAFE standards for no more than five years at a time. NHTSA will conduct a new and full rulemaking in the future to establish standards for model years 2022-2025. NHTSA projects the augural standards would require a combined fleetwide fuel economy of 48.7-49.7 mpg.

reports in this series prior to the 2007 report. See Appendix A for more in-depth discussion of the current methodology and how it affects both the adjusted fuel economy values for individual models and the historical fuel economy trends database. This same methodology is used to calculate adjusted CO₂ emissions values as well. Two, beginning with the 2011 report, all car/truck classifications in this database are consistent with determinations made by NHTSA for CAFE standards beginning in MY 2011 and by EPA for CO₂ emissions standards for MY 2012 and later, which means that many small and midsize 2-wheel drive SUVs have been reclassified from trucks to cars for the entire MY 1975-2012 database.. Three, when EPA changes a manufacturer or vehicle make definition to reflect a change in the industry's current financial structure, EPA makes the same adjustment in the historical database as well. This maintains a consistent manufacturer/make definition over time, which allows the identification of long-term trends. On the other hand, it means that the database does not necessarily reflect actual past financial arrangements. For example, the 2012 database, which includes data for the entire time series MY 1975 through 2012, accounts for all Chrysler, Fiat, Ferrari, and Maserati vehicles in the 1975-2012 timeframe under the Chrysler-Fiat manufacturer designation, and does not reflect that Chrysler was combined with Daimler for several years nor that there was no historic relationship between Chrysler and Fiat/Ferrari/Maserati.

The great majority of the CO₂ emissions and fuel economy values in this report are EPA adjusted composite (ADJ COMP) city/highway real-world estimates provided to consumers and based on EPA's 5-cycle test methodology (which represents city, highway, high speed/high acceleration, high temperature/air conditioning, and cold temperature driving) that was first implemented in MY 2008. Appendix A provides a detailed explanation of the method used to calculate these adjusted fuel economy and CO₂ values, which last changed with the 2007 version of this report. All adjusted composite city/highway fuel economy values in this report use a 43 percent city/57 percent highway weighting to be consistent with the national driving activity analysis underlying EPA's 5-cycle fuel economy label methodology. In 2011, EPA and NHTSA revised the fuel economy and environment label to include, among other things, grams of CO₂ emissions per mile and a fuel economy and greenhouse gas emissions rating (76 Federal Register 39478, July 6, 2011).

In some tables, the report also provides unadjusted EPA laboratory (LAB) values, which are based on a 2-cycle test methodology (city and highway tests only) and are the basis for automaker compliance with CO₂ emissions and CAFE standards. All combinations of adjusted or laboratory, and CO₂ emissions or fuel economy values, may be reported as city, highway, or, most commonly, as composite (combined city/highway).

Because the underlying methodology for generating unadjusted laboratory CO₂ emissions and fuel economy values has not changed since this series began in the mid-1970s, these values provide a basis for comparing long-term CO₂ emissions and fuel economy trends from the perspective of vehicle design, apart from the factors that affect real-world driving that are reflected in the adjusted values. Laboratory composite values represent a harmonic average of 55 percent city and 45 percent highway operation, or "55/45" (the historic 55 percent city/45 percent highway weighting is still used for both CAFE compliance and the combined value on individual fuel economy labels). For 2005 and later model years, unadjusted fleetwide laboratory composite CO₂ emissions values are about 20 percent lower than adjusted composite CO₂ values, and unadjusted fleetwide laboratory composite fuel economy values are about 25 percent greater than adjusted composite fuel economy values. Neither unadjusted laboratory nor adjusted composite CO₂ and fuel economy values reflect various incentives and credits that are available to manufacturers for regulatory compliance.

Through MY 2011, the CO₂ emissions, fuel economy, vehicle characteristics, and vehicle production volume data used for this report were from the formal end-of-year submissions from automakers obtained from EPA's fuel economy database that is used for CAFE compliance purposes. For preliminary MY 2012 data, EPA has exclusively used confidential pre-model year production volume projections from automaker label submissions. Accordingly,

MY 2012 projections are uncertain. Historically, as shown in Table A-1, the differences between the initial unadjusted laboratory fuel economy estimates based on vehicle production projections and later, final values have typically been within a few tenths of a mile per gallon. But, the market turmoil in MY 2009 was a major exception in this regard, as the final MY 2009 unadjusted laboratory fuel economy value from the 2010 report was 1.8 mpg higher than the preliminary unadjusted laboratory value for MY 2009 from the 2009 report based on projected production volumes. The final MY 2011 unadjusted laboratory fuel economy value is 0.5 mpg lower than the preliminary unadjusted laboratory fuel economy value for MY 2011 in the 2011 report based on projected production volumes.

The primary database in this report includes data only from vehicles certified to operate on gasoline or diesel fuel, from laboratory testing with test fuels as defined in EPA test protocols (e.g., with zero ethanol). It includes data from ethanol flexible fuel vehicles, which can operate on gasoline or an 85 percent ethanol/15 percent gasoline blend or any mixture in between, operated on gasoline only. Data from the small number of vehicles that are certified to operate only on alternative fuels or are expected to operate frequently on alternative fuels (such as plug-in hybrid electric vehicles or dual-fuel compressed natural gas vehicles) are not included in this primary database because they represented less than 0.2 percent of all production in MY 2011 and because the emissions and fuel economy data from alternative fuel vehicles raise issues with respect to the metrics that are used in this report. See the new Section VIII for relevant data from these alternative fuel vehicles.

Vehicle population data in this report represent production delivered for sale in the U.S., rather than actual sales data. Automakers submit production data in formal end-of-year CAFE compliance reports to EPA, which is the basis for this report. Accordingly, the production data in this report may differ from sales data reported by press sources, because not all vehicles produced for sale in a given model year will necessarily be sold in that model year. In addition, the data presented in this report are tabulated on a model year, not calendar year, basis.

For More Information

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 through 2012 (EPA-420-R-13-001) is available on the Office of Transportation and Air Quality's (OTAQ) Web site at:

www.epa.gov/otaq/fetrends.htm

Printed copies are available from the OTAQ library at:

U.S. Environmental Protection Agency
Office of Transportation and Air Quality Library
2000 Traverwood Drive
Ann Arbor, MI 48105
(734) 214-4311

A copy of the *Fuel Economy Guide* giving city and highway fuel economy data for individual models is available at:

www.fueleconomy.gov

or by calling the U.S. Department of Energy at (800) 423-1363.

For information about EPA's Greenhouse Gas Emissions Standards, see:

<http://epa.gov/otaq/climate/regulations.htm>

For information about the EPA/Department of Transportation (DOT) Fuel Economy and Environment Labels, see:

<http://epa.gov/otaq/carlabel>

For information about DOT's Corporate Average Fuel Economy (CAFE) program, including a program overview, related rulemaking activities, and summaries of the fuel economy performance of individual manufacturers since 1978, see:

<http://www.nhtsa.dot.gov/fuel-economy>

II. Introduction

This report examines light-duty vehicle technology, CO₂ emissions, and fuel economy trends since MY 1975 using the latest EPA data available. Pre-2009 reports in this series [1-35]¹ presented fuel economy and technology trends only, and did not include CO₂ emissions data. Beginning in 2009, reports [36-38] have included key CO₂ emissions summary tables as well. When comparing data in this and previous reports, please note that revisions are made for some prior model years for which more complete data have become available. In addition, important changes have been made periodically in the database, e.g., reflecting changes in manufacturer definitions, the methodology by which we calculate adjusted fuel economy values, car-truck classifications, and whether MDPVs are included in the database. Thus, it is generally not appropriate to compare values from this report with others in this series and it is not necessary to do so since each report reflects the entire database back to MY 1975.

The EPA CO₂ emissions and fuel economy database used in this report was frozen in September 2012. Through MY 2011, the CO₂ emissions, fuel economy, vehicle characteristics, and production volume data used for this report came from the formal end-of-year submissions from automakers obtained from EPA's database that is used for CAFE compliance purposes, and can be considered to be final. For MY 2012, EPA has exclusively used confidential pre-model year production projections submitted to EPA by automakers. Vehicle population data in this report represent production delivered for sale in the U.S., rather than actual sales data. Accordingly, the vehicle production data in this report may differ from sales data reported by press sources. In addition, the data presented in this report were tabulated on a model year, not calendar year, basis. In years past, manufacturers typically used a consistent approach toward model year designations, i.e., from fall of one year to the fall of the following year. More recently, however, many manufacturers have used a more flexible approach and it is not uncommon to see a new or redesigned model be introduced in the spring or summer, rather than the fall. This means that a model year for an individual vehicle can be "stretched out." Accordingly, year-to-year comparisons can be affected by these model year anomalies, though these even out over a multi-year period.

All fuel economy values in this report are production-weighted harmonic averages (necessary to maintain mathematical integrity) and all CO₂ emissions values are production-weighted arithmetic averages. In earlier reports in this series through MY 2000, the only fuel economy values used were the unadjusted laboratory-based city, highway, and composite (combined city/highway) mpg values—which are used as the basis for compliance with the fuel economy standards and the gas guzzler tax. Since the laboratory mpg values tend to over predict the mpg achieved in actual use, adjusted mpg values are used for the Government's fuel economy information programs: fuelconomy.gov, the *Fuel Economy Guide*, and the *Fuel Economy and Environment Labels* that are on new vehicles. Starting with the MY 2001 report, this series has provided fuel economy trends in adjusted mpg values in addition to the laboratory mpg values. Now, most of the tables exclusively show the adjusted CO₂ emissions and fuel economy values. A few tables include both adjusted city, highway, and composite fuel economy values and laboratory 55/45 fuel economy values. In the tables, these two mpg values are called "Adjusted MPG" and "Laboratory MPG" and are abbreviated as "ADJ" MPG and "LAB" MPG. These same metrics are used for CO₂ emissions values as well.

Where only one CO₂ or mpg value is presented in this report and it is not explicitly identified otherwise, it is the "adjusted composite" value. This value represents a combined city/highway CO₂ or fuel economy value, and is based on equations (see Appendix A) that allow a computation of adjusted city and highway values based on laboratory city and highway test values.

¹ Numbers in brackets denote references listed in the references section of this report.

It is important to note that EPA revised the methodology by which EPA estimates adjusted fuel economy values in December 2006. Every adjusted fuel economy value in this report for 1986 and later model years is lower than given in pre-2007 reports. Accordingly, adjusted fuel economy values for 1986 and later model years should not be compared with corresponding values from older reports. These new downward adjustments are phased in, linearly, beginning in 1986, and for 2005 and later model years the new adjusted composite values are, on average, about six percent lower than under the methodology previously used by EPA. This same methodology is used to generate adjusted CO₂ emissions values as well. See Appendix A for more in-depth discussion of this new methodology and how it affects both the adjusted CO₂ and fuel economy values for individual models and the historical trends database.

Data are tabulated on a model year basis, but some figures use three-year moving averages which effectively smooth the trends, and these three-year moving averages are tabulated at their midpoint. For example, the midpoint for model years 2010, 2011, and 2012 is MY 2011. The fuel economy values reported by the Department of Transportation (DOT) for compliance with the Corporate Average Fuel Economy (CAFE) program are higher than the data in this report for three reasons:

1. The DOT data do not include the EPA real world fuel economy adjustments for city and highway mpg;
2. The DOT data include CAFE credits for those manufacturers that produce dedicated alternative fuel vehicles and flexible fuel vehicles (credits generated through the production of flexible fuel vehicles are currently capped at 1.2 mpg per fleet);
3. The DOT data include credits for test procedure adjustments for cars.

Accordingly, the fuel economy values in this series of reports are always lower than those reported by DOT. Table A-6, Appendix A, compares CAFE data reported by DOT with EPA adjusted and laboratory fuel economy data for MY 1975-2012. Table A-7 shows a more detailed comparison for MY 2011, by manufacturer, of values for EPA laboratory fuel economy, alternative fuel vehicle credits, test procedure adjustment credits for cars, and NHTSA CAFE performance.

Beginning in MY 2011, footprint data is obtained from the final CAFE compliance reports provided by automakers to DOT/NHTSA. It is important to note that, while some of the footprint data that EPA reports for MY 2008-2012 came from formal manufacturer submissions, EPA supplemented this with footprint data from external sources such as individual manufacturer websites, Edmunds.com, and Motortrend.com. Since the MY 2008-2010 footprint data was generated in a more piecemeal fashion, there is some uncertainty associated with this data.

In the various appendices to this report, when there is no entry under “Model Year,” that means there was no production volume for the parameter in question.

While this report contains data through MY 2012, it is important to emphasize that the data through MY 2011 is based on formal end-of-year CAFE data submitted by automakers to EPA and therefore is final data that will not change. On the other hand, the MY 2012 data is based on confidential pre-model year production volume projections provided by manufacturers to EPA in the spring/summer of 2011 and therefore are projections that may well change when final production data is presented in the next report. Given the uncertainty in the MY 2012 data, this report will often focus more on the MY 2011 data than on the MY 2012 data.

Other Variables

All vehicle weight data are based on inertia weight class (nominally curb weight plus 300 pounds). For vehicles with inertia weights up to and including the 3000-pound inertia weight class, these classes have 250-pound increments. For vehicles above the 3000-pound inertia weight class (i.e., vehicles 3500 pounds and above), 500-pound increments are used.

The light truck data in this report include vehicles classified as light-duty trucks with gross vehicle weight ratings (GVWR) up to 8500 pounds as well as, for the first time beginning with MY 2011, medium-duty passenger vehicles (MDPVs). MDPVs are large SUVs and passenger vans with GVWRs between 8500 and 10,000 pounds (MDPVs do not include the much larger number of pickup trucks in the same GVWR range). EPA does not have data for MDPVs for MY 1975-2010, so there is and will continue to be a small discontinuity in the database beginning in MY 2011. For the overall fleet in MY 2011, the inclusion of MDPVs increased projected average adjusted CO₂ emissions by 0.3 g/mi and decreased projected average adjusted fuel economy by 0.01 mpg compared to the fleet without MDPVs. For the light truck fleet in MY 2011, the inclusion of MDPVs increased projected CO₂ emissions by 0.5 g/mi and decreased average adjusted fuel economy by 0.02 mpg.

"Ton-MPG" is defined as a vehicle's mpg multiplied by its weight in tons. Ton-MPG is a measure of powertrain/drive-line efficiency. Just as an increase in vehicle mpg at constant weight can be considered an improvement in a vehicle's efficiency, an increase in a vehicle's weight at constant mpg can also be considered an improvement. "CO₂/ton" is the equivalent CO₂ metric and is reported in Section IV.

"Cubic-feet-MPG" for cars is defined in this report as the product of a car's mpg and its interior volume, including trunk space. This metric associates a relative measure of a vehicle's ability to transport both passengers and their cargo. An increase in vehicle volume at constant mpg could be considered an improvement just as an increase in mpg at constant volume can be. "CO₂/cubic feet" values are given in Section IV.

"Cubic-feet-ton-MPG" is defined in this report as a combination of the two previous metrics, i.e., a car's mpg multiplied by its weight in tons and also by its interior volume. It ascribes vehicle utility to fuel economy, weight and volume. "CO₂/ton-cubic feet" is the equivalent CO₂ metric and is shown in Section IV.

This report also includes an estimate of 0-to-60 mph acceleration time--calculated from engine rated horsepower and vehicle weight—from the relationship:

$$t = F (HP/WT)^{-f}$$

where the coefficients F and f are empirical parameters determined in the literature by obtaining a least-squares fit for available test data. The values for the F and f coefficients are .892 and .805, respectively, for vehicles with automatic transmissions and .967 and .775, respectively, for those with manual transmissions [39]. Other authors [40, 41, 42] have evaluated the relationships between weight, horsepower, and 0-to-60 acceleration time and have calculated and published slightly different values for the F and f coefficients. Since the equation form and coefficients were developed for vehicles with conventional powertrains with gasoline-fueled engines, we have not used the equation to estimate 0-to-60 time for vehicles with hybrid powertrains or diesel engines. Published values are used for these vehicles instead.

The 0-to-60 estimate used in this report is intended to provide a quantitative time "index" of vehicle performance capability. It is the authors' engineering judgment that, given the differences in test methods for

measuring 0-to-60 time and given the fact that the weight is based on inertia weight, use of these other published values for the F and f coefficients would not result in statistically significantly different 0-to-60 averages or trends.

Car-truck classifications are based on the regulatory definitions used by NHTSA for fuel economy standards compliance beginning in MY 2011 and by EPA for CO₂ emissions standards compliance beginning in MY 2012. Accordingly, some small and mid-size 2 wheel drive SUVs that had previously been considered trucks in previous versions of this report are now classified as cars throughout the entire MY 1975-2012 database. In some tables and figures, these vehicles are identified as “non-truck SUVs.” The overall car class is typically subdivided into cars, wagons, and non-truck SUVs. The reclassification of small and mid-size 2 wheel drive SUVs from trucks to cars affects about one million vehicles in MY 2010 and MY 2011, and reduces the absolute truck share by about 10% compared to the classification used in previous reports.

Cars and wagons are sometimes further divided into sub-classes in three different ways. One approach generally follows the fuel economy label and *Fuel Economy Guide* protocol. With this approach, sedan and wagon sub-classes are based on the interior volume (passenger plus cargo) thresholds described in the *Fuel Economy Guide* (since interior volume is undefined for the two-seater class, this report assigns an interior volume value of 50 cubic feet for all two-seater cars):

<u>Class</u>	<u>Interior Volume</u> (cubic feet)
Minicompact sedan	Up to 84
Subcompact sedan	85 to 99
Compact sedan	100 to 109
Midsize sedan	110 to 119
Large sedan	120 or more
Small wagon	Up to 129
Midsize wagon	130 to 159
Large wagon	160 or more

In the second approach for car sub-classes, large sedans and wagons are aggregated as "Large," midsize sedans and wagons are aggregated as "Midsize," and all other cars are aggregated as “Small.” The third approach uses Large Cars, Large Wagons, Midsize Cars, Midsize Wagons, Small Cars, and Small Wagons with the EPA Two-Seater, Mini compact, Subcompact, and Compact sedan classes combined into the "Small Car" class. In some tables and figures in this report wagons have been merged with cars. This is because the wagon production fraction, in some instances, is so small that the information is more conveniently represented by combining the two vehicle types. When they have been combined, the differences between them are insignificant.

The truck sub-classification scheme divides pickups, vans, and Truck SUVs into "Small," "Midsize," and "Large." These truck size classifications are based primarily on published wheelbase data according to the following criteria:

	<u>Pickup</u>	<u>Van</u>	<u>Truck SUV</u>
Small	Less than 105"	Less than 109"	Less than 100"
Midsize	105" to 115"	109" to 124"	100" to 110"
Large	More than 115"	More than 124"	More than 110"

This classification scheme is similar to that used in many trade and consumer publications. For those vehicle nameplates with a variety of wheelbases, the size classification was determined by considering only the smallest wheelbase produced.

Published data from external sources is also used for three other engine or vehicle characteristics for which data has not always been submitted to EPA by the automotive manufacturers, or to supplement data that is submitted to EPA: (1) engines with variable valve timing (VVT) that use either cams or electric solenoids to provide variable intake and/or exhaust valve timing and in some cases valve lift; (2) engines with cylinder deactivation, which involves allowing the valves of selected cylinders of the engine to remain closed under certain driving conditions; and (3) vehicle footprint, which is the product of wheelbase times average track width and upon which future CAFE (MY 2011 and later) and CO₂ emissions standards are based. Beginning with final data for MY 2011, manufacturers will be submitting data on these engine or vehicle characteristics to EPA.

III. Fuel Economy Trends

Figure 1 and Table 1 depict time trends in car, light truck, and car-plus-light truck fuel economy, as well as truck production share, with the individual data points representing the data for each year, and trend lines representing three-year moving averages. Since 1975, the fuel economy of the combined car and light truck fleet has moved through several phases:

1. A rapid increase from 1975 through 1981;
2. A slow increase until reaching its peak in 1987;
3. A gradual decline until 2004; and
4. An increase beginning in 2005, with the largest annual increases in 2009 and 2012.

Figure 1

**Adjusted Fuel Economy and Percent Truck by Model Year
(with Three-Year Moving Average)**

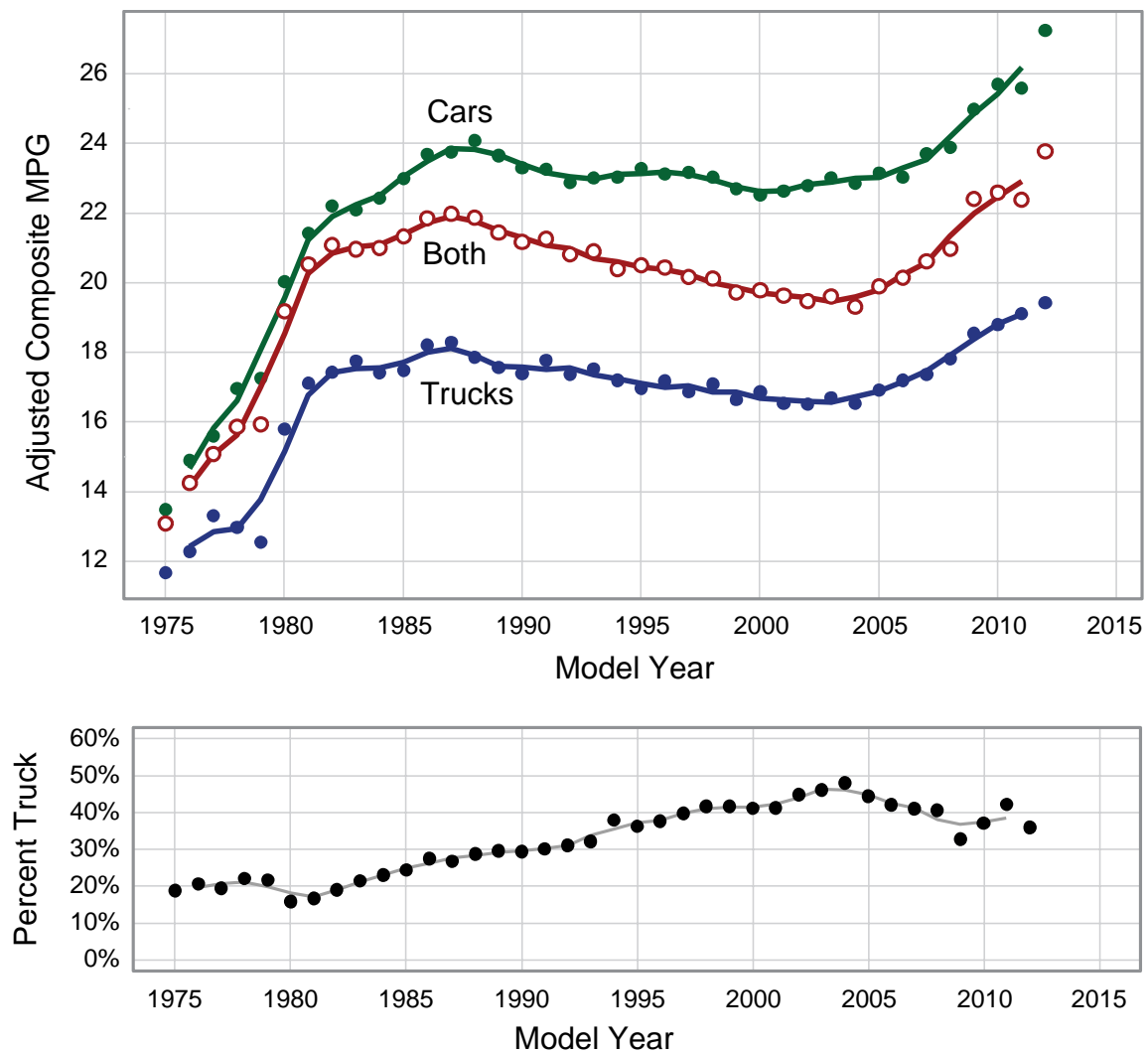


Table 1

Fuel Economy of MY 1975 to 2012 Light Duty Vehicles

Cars

Model Year	Production (000)	Production Percent	Lab City MPG	Lab Hwy MPG	Lab 55/45 MPG	Adj City MPG	Adj Hwy MPG	Adj Comp MPG	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG
1975	8247	80.7%	13.7	19.5	15.8	12.3	15.2	13.5	27.5	-	-
1976	9734	78.9%	15.2	21.3	17.5	13.7	16.6	14.9	30.2	-	-
1977	11318	80.1%	16.0	22.2	18.3	14.4	17.4	15.6	31.0	1779	3422
1978	11191	77.5%	17.2	24.5	19.9	15.5	19.1	16.9	30.6	1907	3343
1979	10810	77.9%	17.7	24.6	20.2	15.9	19.2	17.2	30.2	1922	3300
1980	9444	83.5%	20.3	29.0	23.5	18.3	22.6	20.0	31.2	2136	3273
1981	8734	82.8%	21.7	31.1	25.1	19.5	24.2	21.4	33.1	2338	3547
1982	7832	80.5%	22.3	32.7	26.0	20.1	25.5	22.2	34.2	2418	3644
1983	8035	78.0%	22.1	32.6	25.9	19.9	25.5	22.1	34.7	2476	3776
1984	10730	76.5%	22.4	33.3	26.3	20.2	25.9	22.4	35.1	2481	3778
1985	10879	75.2%	22.9	34.3	26.9	20.6	26.7	23.0	35.8	2553	3888
1986	11074	72.1%	23.7	35.5	27.9	21.2	27.6	23.7	36.2	2597	3901
1987	10826	72.8%	23.8	35.8	28.0	21.2	27.7	23.8	36.2	2582	3874
1988	10845	70.9%	24.2	36.5	28.5	21.4	28.1	24.1	36.9	2628	3963
1989	10126	70.1%	23.7	36.2	28.1	20.8	27.8	23.6	36.8	2588	3977
1990	8875	70.4%	23.4	35.9	27.7	20.4	27.4	23.3	37.1	2526	3984
1991	8748	69.6%	23.4	36.0	27.8	20.4	27.4	23.3	37.0	2532	3974
1992	8350	68.6%	22.9	35.9	27.4	19.8	27.2	22.9	37.3	2524	4071
1993	8929	67.6%	23.2	36.1	27.6	19.9	27.3	23.0	37.4	2555	4096
1994	8747	61.9%	23.2	36.4	27.7	19.8	27.4	23.0	37.7	2541	4107
1995	9616	63.5%	23.4	37.3	28.1	19.8	27.9	23.3	38.2	2576	4171
1996	8177	62.2%	23.3	37.1	28.0	19.7	27.6	23.1	38.2	2562	4187
1997	8695	60.1%	23.5	37.3	28.2	19.7	27.6	23.2	38.1	2551	4160
1998	8425	58.3%	23.4	37.2	28.1	19.5	27.5	23.0	38.5	2547	4211
1999	8865	58.3%	23.2	36.8	27.8	19.2	27.0	22.7	38.6	2518	4243
2000	9742	58.8%	23.1	36.5	27.7	19.0	26.7	22.5	38.4	2511	4243
2001	9148	58.6%	23.4	36.7	27.9	19.1	26.7	22.6	38.8	2532	4286
2002	8904	55.3%	23.7	37.0	28.3	19.2	26.8	22.8	39.1	2560	4341
2003	8496	53.9%	24.0	37.6	28.7	19.3	27.1	23.0	39.8	2585	4410
2004	8176	52.0%	23.8	37.6	28.5	19.1	27.0	22.9	40.2	2597	4499
2005	8839	55.6%	24.4	38.0	29.1	19.4	27.2	23.1	40.8	2678	4645
2006	8744	57.9%	24.2	37.9	28.9	19.2	27.1	23.0	41.4	2663	4706
2007	9001	58.9%	25.0	38.9	29.8	19.8	27.8	23.7	42.6	2736	4805
2008	8243	59.3%	25.2	39.2	30.1	20.0	28.0	23.9	43.1	2755	4860
2009	6244	67.0%	26.6	40.9	31.6	21.0	29.2	25.0	44.2	2863	4961
2010	6969	62.7%	27.5	42.0	32.6	21.7	29.9	25.7	46.5	3015	5285
2011	6934	57.8%	27.0	42.2	32.3	21.3	30.1	25.6	47.0	3022	5421
2012	-	63.9%	29.2	44.9	34.6	22.9	31.8	27.3	48.3	3161	5450

Table 1 (Continued)

Fuel Economy of MY 1975 to 2012 Light Duty Vehicles

Trucks

Model Year	Production (000)	Production Percent	Lab City MPG	Lab Hwy MPG	Lab 55/45 MPG	Adj City MPG	Adj Hwy MPG	Adj Comp MPG	Ton-MPG
1975	1977	19.3%	12.1	16.2	13.7	10.9	12.7	11.6	24.2
1976	2600	21.1%	12.8	16.9	14.4	11.6	13.2	12.2	26.0
1977	2805	19.9%	14.1	18.1	15.6	12.6	14.2	13.3	28.0
1978	3257	22.5%	13.8	17.5	15.3	12.4	13.7	12.9	27.5
1979	3072	22.1%	13.4	16.8	14.7	12.1	13.1	12.5	27.3
1980	1863	16.5%	16.5	21.9	18.6	14.8	17.1	15.8	30.9
1981	1821	17.2%	17.8	23.9	20.1	16.0	18.6	17.1	33.0
1982	1901	19.5%	18.1	24.4	20.5	16.3	19.0	17.4	33.8
1983	2267	22.0%	18.3	25.1	20.8	16.5	19.6	17.7	34.0
1984	3289	23.5%	17.9	24.7	20.4	16.1	19.3	17.4	33.5
1985	3581	24.8%	18.0	24.8	20.5	16.2	19.3	17.5	33.7
1986	4291	27.9%	18.8	25.9	21.4	16.8	20.1	18.2	34.3
1987	4039	27.2%	18.8	26.4	21.6	16.8	20.4	18.3	34.2
1988	4450	29.1%	18.3	26.1	21.1	16.2	20.1	17.8	34.5
1989	4327	29.9%	18.1	25.7	20.9	15.9	19.8	17.6	34.7
1990	3740	29.6%	17.8	25.8	20.7	15.6	19.8	17.4	35.1
1991	3825	30.4%	18.2	26.5	21.2	15.9	20.2	17.8	35.4
1992	3822	31.4%	17.8	26.1	20.8	15.4	19.9	17.3	35.5
1993	4281	32.4%	18.0	26.6	21.0	15.5	20.1	17.5	36.0
1994	5378	38.1%	17.7	26.0	20.7	15.2	19.6	17.2	35.8
1995	5529	36.5%	17.5	25.9	20.5	14.9	19.4	17.0	35.8
1996	4967	37.8%	17.7	26.4	20.8	15.0	19.8	17.2	36.7
1997	5762	39.9%	17.4	26.0	20.5	14.7	19.4	16.8	37.1
1998	6030	41.7%	17.6	26.5	20.8	14.8	19.7	17.1	37.0
1999	6350	41.7%	17.3	25.8	20.3	14.5	19.1	16.6	37.1
2000	6829	41.2%	17.6	26.1	20.7	14.7	19.3	16.8	37.3
2001	6458	41.4%	17.4	25.6	20.3	14.4	18.8	16.5	37.6
2002	7211	44.7%	17.4	25.7	20.3	14.3	18.8	16.5	38.1
2003	7277	46.1%	17.6	26.2	20.7	14.4	19.1	16.7	38.9
2004	7533	48.0%	17.4	26.1	20.5	14.2	18.9	16.5	39.5
2005	7053	44.4%	17.8	26.9	21.0	14.4	19.5	16.9	40.3
2006	6360	42.1%	18.2	27.3	21.4	14.6	19.7	17.2	41.0
2007	6275	41.1%	18.3	27.7	21.6	14.8	20.0	17.4	42.3
2008	5656	40.7%	18.8	28.5	22.2	15.1	20.5	17.8	43.2
2009	3071	33.0%	19.6	29.7	23.1	15.7	21.4	18.5	44.1
2010	4141	37.3%	19.9	30.1	23.4	15.9	21.7	18.8	45.0
2011	5069	42.2%	20.2	30.7	23.9	16.2	22.1	19.1	46.2
2012	-	36.1%	20.5	31.3	24.3	16.4	22.5	19.4	46.5

Table 1 (Continued)

Fuel Economy of MY 1975 to 2012 Light Duty Vehicles

Cars and Trucks

Model Year	Production (000)	Lab City MPG	Lab Hwy MPG	Lab 55/45 MPG	Adj City MPG	Adj Hwy MPG	Adj Comp MPG	Ton- MPG
1975	10224	13.4	18.7	15.3	12.0	14.6	13.1	26.9
1976	12334	14.6	20.2	16.7	13.2	15.7	14.2	29.3
1977	14123	15.6	21.3	17.7	14.0	16.6	15.1	30.4
1978	14448	16.3	22.5	18.6	14.7	17.5	15.8	29.9
1979	13882	16.5	22.3	18.7	14.9	17.4	15.9	29.5
1980	11306	19.6	27.5	22.5	17.6	21.5	19.2	31.2
1981	10554	20.9	29.5	24.1	18.8	23.0	20.5	33.1
1982	9732	21.3	30.7	24.7	19.2	23.9	21.1	34.1
1983	10302	21.2	30.6	24.6	19.0	23.9	21.0	34.5
1984	14020	21.2	30.8	24.6	19.1	24.0	21.0	34.7
1985	14460	21.5	31.3	25.0	19.3	24.4	21.3	35.3
1986	15365	22.1	32.2	25.7	19.8	25.0	21.8	35.7
1987	14865	22.2	32.6	25.9	19.8	25.3	22.0	35.7
1988	15295	22.1	32.7	25.9	19.6	25.2	21.9	36.2
1989	14453	21.7	32.3	25.4	19.1	24.8	21.4	36.2
1990	12615	21.4	32.2	25.2	18.7	24.6	21.2	36.5
1991	12573	21.6	32.5	25.4	18.8	24.7	21.3	36.5
1992	12172	21.0	32.1	24.9	18.2	24.4	20.8	36.8
1993	13211	21.2	32.4	25.1	18.2	24.4	20.9	37.0
1994	14125	20.8	31.6	24.6	17.8	23.8	20.4	37.0
1995	15145	20.8	32.1	24.7	17.7	24.1	20.5	37.3
1996	13144	20.8	32.2	24.8	17.6	24.0	20.4	37.6
1997	14458	20.6	31.8	24.5	17.4	23.6	20.2	37.7
1998	14456	20.6	31.9	24.5	17.2	23.6	20.1	37.9
1999	15215	20.3	31.2	24.1	16.9	23.0	19.7	38.0
2000	16571	20.5	31.4	24.3	16.9	23.0	19.8	38.0
2001	15605	20.5	31.1	24.2	16.8	22.8	19.6	38.3
2002	16115	20.4	30.9	24.1	16.6	22.5	19.5	38.7
2003	15773	20.6	31.3	24.3	16.7	22.7	19.6	39.4
2004	15709	20.2	31.0	24.0	16.3	22.4	19.3	39.9
2005	15892	21.0	32.1	24.8	16.8	23.1	19.9	40.6
2006	15104	21.2	32.6	25.2	17.0	23.4	20.1	41.2
2007	15276	21.8	33.4	25.8	17.4	24.0	20.6	42.5
2008	13898	22.1	34.0	26.3	17.7	24.4	21.0	43.2
2009	9315	23.8	36.4	28.2	18.9	26.0	22.4	44.2
2010	11110	24.1	36.6	28.4	19.1	26.2	22.6	45.9
2011	12003	23.6	36.4	28.1	18.8	26.1	22.4	46.6
2012	-	25.3	38.8	30.0	20.0	27.7	23.8	47.6

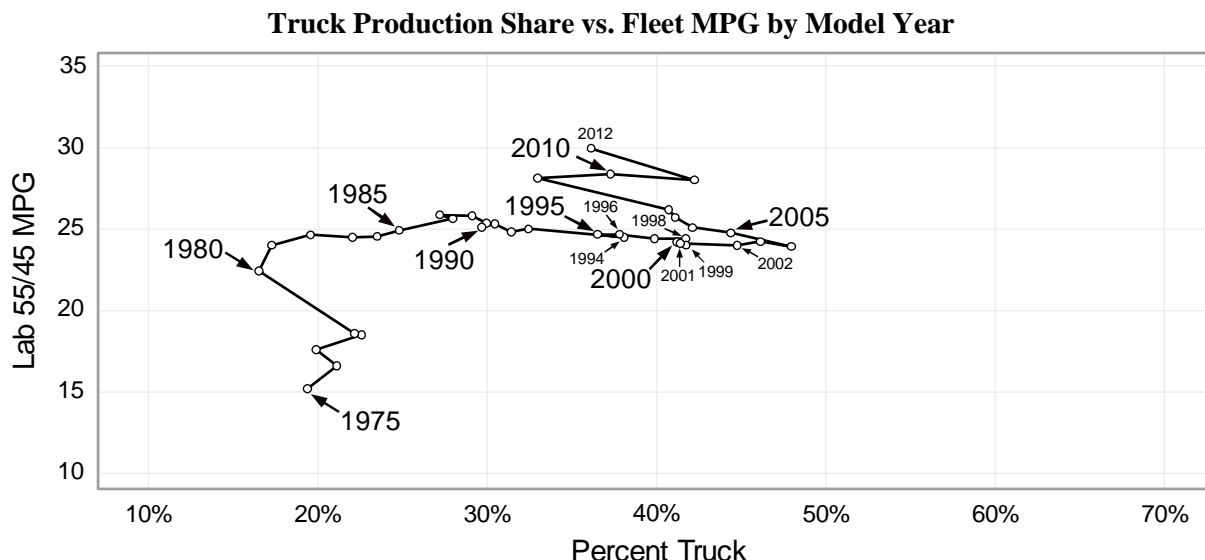
As shown in Table 1, the final fleetwide MY 2011 adjusted composite fuel economy is 22.4 mpg. This MY 2011 value is 0.2 mpg lower than the all-time high set in MY 2010. The projected MY 2012 fleetwide fuel economy value is 23.8 mpg, but there is uncertainty about MY 2012 projections given that they are based on automaker submissions to EPA in the spring and summer of 2011. The reduction in fuel economy for MY 2011 is the first time fuel economy has dropped in seven years, though projections for MY 2012 show a large improvement in fuel economy. Based on laboratory 55/45 fuel economy values which reflect vehicle design considerations only, the MY 2011 unadjusted fuel economy value is 28.1mpg.

Table 1 also shows that light truck production share peaked at 48% in 2004, decreased significantly to 33% in MY 2009, and is 42% in MY 2011. Truck market share is now just 6 percent lower than the peak in MY 2004, and recent increases in truck market share have now offset most of the 15 percent decrease in truck market share from 2004-2009. Two factors that have likely contributed to the volatility in truck share are: 1) MY 2009 was a particularly unusual year due to the serious economic recession that led to much turmoil in the automotive market and almost certainly led to an artificially low truck production share in that year, which then results in an apparently larger truck production share increase since MY 2009; and 2) the earthquake, tsunami, and nuclear tragedies in Japan in March 2011 almost certainly decreased the supply of cars from Japan (possibly trucks as well, but likely more cars than trucks), and this also likely contributed to the truck share increase in MY 2011 (as well as to the projected truck share decrease in MY 2012). The MY 2012 projection is for truck production share to decrease by 6%.

Figure 1 shows the long-term fuel economy trends and truck market share trends with a three-year moving average, which tends to even out year-to-year fluctuations, such as in MY 2009, and shows that, on a 3-year moving average basis, truck share has been fairly stable with considerable year-to-year volatility. Figure 2 shows laboratory 55/45 fuel economy values for the combined car and truck fleet plotted against truck production share.

The MY 2011 adjusted fuel economy for cars is 25.6 mpg, which was a 0.1 mpg drop from the all-time high set in MY 2010. For MY 2011, the adjusted fuel economy for light trucks is 19.1 mpg, a record high. Fuel economy standards were unchanged for MY 1996 through MY 2004. In 2003, DOT raised the truck CAFE standards for MY 2005–2007, and DOT subsequently raised the truck CAFE standards for MY 2008–2025 through four separate final rules. The recent fuel economy improvement for trucks is likely due, in part, to these higher standards. The CAFE standard for cars has also been raised for MY 2011–2025 as a result of three separate final rules. The final rule for MY 2012-2016 for both cars and trucks is at 75 Federal Register 25324, May 7, 2010, and the final rule for MY 2017-2025 for both cars and trucks is at 77 Federal Register 62624, October 15, 2012.

Figure 2

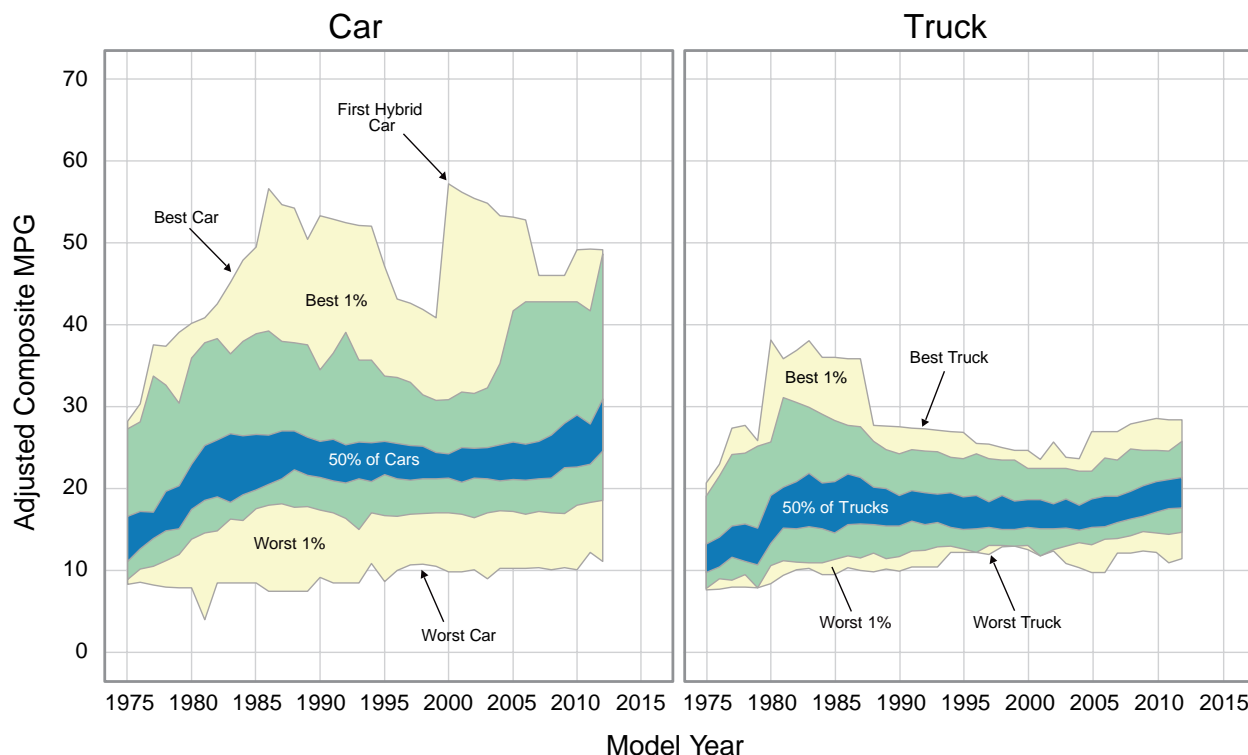


The distribution of fuel economy by model year is of interest. In Figure 3, highlights of the distribution of gasoline/diesel car and truck mpg are shown. Since 1975, half of the cars have consistently been within a few mpg of each other. The fuel economy difference between the least efficient and most efficient car increased from about 20 mpg in 1975 to nearly 50 mpg in 1986. The increased production share of hybrid cars accounts for the increase in the fuel economy of the best one percent of cars with the cut point for this stratum now nearly 50 mpg. The ratio of the highest to lowest has increased from about three to one in 1975 to nearly five to one today, because the fuel economy of the least fuel efficient cars has remained roughly constant in comparison to the most fuel efficient cars whose fuel economy has nearly doubled since 1975.

The overall fuel economy distribution trend for trucks is narrower than that for cars, with a peak in the efficiency of the most efficient truck in the early 1980s when small pickup trucks equipped with diesel engines were sold. As a result, the fuel economy range between the most efficient and least efficient truck peaked at about 25 mpg in 1982. The fuel economy range for trucks then narrowed, and is now about 20 mpg. Like cars, half of the trucks built each year have always been within a few mpg of each year's average fuel economy value. Appendix C contains additional fuel economy distribution data.

Figure 3

Production Weighted Fuel Economy Distribution



As shown in Table 2, MY 2011 vehicle weight averaged 4127 pounds and is an all-time high. This reflects an increase of 125 pounds (3%) compared to MY 2010, which is also the greatest single year-to-year increase since 1975. The average MY 2011 car increased 81 pounds, the average truck increased 40 pounds, and the remaining impact was due to higher truck production share. In MY 2011, the average vehicle power was 230 horsepower, a record high. Average vehicle power increased by 16 horsepower (7%); the largest annual increase in history. Both weight and power are projected to decrease in MY 2012, with weight expected to drop 177 pounds and power projected to drop by 8 horsepower.

Table 2 also includes vehicle footprint in square feet since MY 2008. Footprint is one metric for vehicle size, and is the product of wheelbase and average track width. Essentially, footprint is the area defined by the four points where the tires touch the ground. Footprint is a very important parameter as MY 2011 passenger car and light truck CAFE standards, and MY 2012–2025 CAFE and CO₂ emissions standards, are all footprint-based, i.e., vehicles with different footprint values have different fuel economy and CO₂ compliance targets. The MY 2008–2010 footprint data in Table 2 is tabulated from formal manufacturer submissions as well as external sources such as individual manufacturer websites, Edmunds.com, and Motortrend.com, while the MY 2011 data came from final CAFE reports provided to DOT/NHTSA from the manufacturers. Accordingly, due to the more piecemeal way that the 2008–2010 footprint data were obtained, there is some uncertainty in comparing values through MY 2010 with values beginning in MY 2011 and the most meaningful footprint trends will be those based on comparisons in MY 2011 and later.

For MY 2011, industry-wide footprint values were 46.0 square feet for cars, 54.4 square feet for trucks, and 49.5 square feet for cars and trucks combined. Car and truck footprints both increased in MY 2011 compared to MY 2010 and the overall industry footprint increased by 0.9 square feet. The average footprint in MY 2012 is

projected to decrease by 0.7 square feet for cars and increase by 0.1 square feet for trucks. The average footprint of the industry as a whole is projected to decrease 0.9 square feet, due in part to the projected lower truck share.

The long-term trend since 1981 for both weight and power has been steady increases. MY 2011 weight is nearly 1000 pounds greater, and MY 2011 power has more than doubled, as compared to MY 1981. As shown in Figure 4, since 1975, Ton-MPG for both cars and trucks increased substantially. Typically, Ton-MPG for both vehicle types has increased at a rate of about one or two percent a year.

Table 2

Vehicle Size and Design Characteristics of MY 1975 to 2012 Light Duty Vehicles

Cars

Model Year	Production Percent	Adj Comp MPG	Vol (cu ft)	Weight (lb)	Footprint (sq ft)	HP	HP/Weight	0-to-60 Time (sec)	Small	Midsize	Large
1975	80.7%	13.5	-	4057	-	136	0.0331	14.2	55.4%	23.3%	21.2%
1976	78.9%	14.9	-	4059	-	134	0.0324	14.4	55.4%	25.2%	19.4%
1977	80.1%	15.6	110	3944	-	133	0.0335	14.0	52.0%	24.5%	23.5%
1978	77.5%	16.9	109	3588	-	124	0.0342	13.7	44.7%	34.4%	20.9%
1979	77.9%	17.2	109	3485	-	119	0.0338	13.8	43.7%	34.2%	22.1%
1980	83.5%	20.0	104	3101	-	100	0.0322	14.3	54.4%	34.4%	11.3%
1981	82.8%	21.4	106	3076	-	99	0.0320	14.4	51.5%	36.4%	12.2%
1982	80.5%	22.2	106	3053	-	99	0.0320	14.4	56.6%	30.9%	12.5%
1983	78.0%	22.1	109	3112	-	104	0.0330	14.0	53.0%	31.9%	15.0%
1984	76.5%	22.4	108	3101	-	106	0.0338	13.8	57.1%	29.7%	13.2%
1985	75.2%	23.0	108	3096	-	111	0.0354	13.3	55.3%	29.5%	15.2%
1986	72.1%	23.7	107	3043	-	111	0.0360	13.2	59.2%	28.3%	12.5%
1987	72.8%	23.8	107	3035	-	113	0.0365	13.0	63.2%	24.8%	12.1%
1988	70.9%	24.1	107	3051	-	116	0.0375	12.8	64.5%	22.8%	12.7%
1989	70.1%	23.6	108	3104	-	121	0.0387	12.4	58.0%	28.7%	13.4%
1990	70.4%	23.3	107	3178	-	129	0.0401	12.1	58.4%	28.9%	12.7%
1991	69.6%	23.3	107	3168	-	133	0.0413	11.9	60.4%	27.6%	12.0%
1992	68.6%	22.9	109	3254	-	141	0.0427	11.5	55.5%	29.4%	15.2%
1993	67.6%	23.0	109	3241	-	140	0.0427	11.5	54.7%	32.7%	12.6%
1994	61.9%	23.0	109	3268	-	144	0.0432	11.4	57.0%	28.2%	14.8%
1995	63.5%	23.3	109	3274	-	153	0.0460	10.9	56.3%	30.0%	13.7%
1996	62.2%	23.1	109	3297	-	155	0.0463	10.8	52.9%	33.9%	13.2%
1997	60.1%	23.2	109	3285	-	156	0.0468	10.7	54.5%	31.7%	13.7%
1998	58.3%	23.0	109	3334	-	160	0.0473	10.6	47.7%	41.4%	10.8%
1999	58.3%	22.7	110	3390	-	164	0.0479	10.5	45.8%	42.2%	12.0%
2000	58.8%	22.5	110	3401	-	168	0.0489	10.4	45.8%	37.1%	17.1%
2001	58.6%	22.6	110	3411	-	169	0.0491	10.3	48.2%	35.8%	16.0%
2002	55.3%	22.8	111	3415	-	173	0.0502	10.2	46.6%	39.0%	14.5%
2003	53.9%	23.0	111	3437	-	176	0.0508	10.0	47.8%	36.9%	15.3%
2004	52.0%	22.9	112	3492	-	184	0.0520	9.8	44.3%	38.9%	16.8%
2005	55.6%	23.1	113	3498	-	183	0.0516	9.9	40.6%	40.7%	18.6%
2006	57.9%	23.0	113	3563	-	194	0.0536	9.6	42.2%	35.8%	22.1%
2007	58.9%	23.7	113	3551	-	191	0.0530	9.6	40.0%	42.7%	17.3%
2008	59.3%	23.9	112	3569	45.3	194	0.0534	9.6	39.6%	40.0%	20.4%
2009	67.0%	25.0	112	3502	45.1	186	0.0522	9.8	43.0%	39.3%	17.8%
2010	62.7%	25.7	113	3536	45.4	190	0.0528	9.6	42.4%	40.3%	17.3%
2011	57.8%	25.6	115	3617	46.0	200	0.0544	9.5	31.8%	46.5%	21.7%
2012	63.9%	27.3	113	3482	45.3	192	0.0541	9.5	45.0%	40.7%	14.2%

*Note: all footprint values for MY 2011 and later are based on formal manufacturer data, and are based on different data sources than values for MY 2010 and earlier.

Table 2 (continued)

Vehicle Size and Design Characteristics of MY 1975 to 2012 Light Duty Vehicles

Trucks

Model Year	Production Percent	Adj Comp MPG	Weight (lb)	Footprint (sq ft)	HP	HP/Weight	0-to-60		Truck SUV	Pickup
							Time (sec)	Van		
1975	19.3%	11.6	4073	-	142	0.0349	13.6	23.1%	9.0%	67.9%
1976	21.1%	12.2	4155	-	141	0.0340	13.8	19.3%	8.9%	71.8%
1977	19.9%	13.3	4136	-	147	0.0356	13.3	18.3%	9.4%	72.2%
1978	22.5%	12.9	4152	-	146	0.0351	13.4	19.2%	11.2%	69.6%
1979	22.1%	12.5	4257	-	138	0.0325	14.3	15.6%	12.5%	71.8%
1980	16.5%	15.8	3869	-	121	0.0313	14.5	13.0%	9.9%	77.1%
1981	17.2%	17.1	3806	-	119	0.0311	14.6	13.5%	7.5%	79.1%
1982	19.5%	17.4	3813	-	120	0.0317	14.5	16.3%	7.9%	75.8%
1983	22.0%	17.7	3773	-	118	0.0313	14.6	16.9%	11.3%	71.8%
1984	23.5%	17.4	3787	-	118	0.0310	14.7	20.6%	17.3%	62.1%
1985	24.8%	17.5	3803	-	124	0.0326	14.1	23.9%	18.1%	58.0%
1986	27.9%	18.2	3741	-	123	0.0330	14.0	24.3%	16.6%	59.0%
1987	27.2%	18.3	3718	-	131	0.0351	13.4	27.6%	19.3%	53.1%
1988	29.1%	17.8	3850	-	141	0.0365	13.0	25.5%	19.3%	55.2%
1989	29.9%	17.6	3932	-	146	0.0371	12.8	29.5%	18.9%	51.6%
1990	29.6%	17.4	4014	-	151	0.0377	12.6	33.8%	17.2%	49.1%
1991	30.4%	17.8	3961	-	150	0.0379	12.5	27.0%	22.8%	50.2%
1992	31.4%	17.3	4078	-	155	0.0380	12.5	32.0%	19.9%	48.1%
1993	32.4%	17.5	4098	-	160	0.0391	12.2	33.7%	19.6%	46.8%
1994	38.1%	17.2	4149	-	166	0.0401	12.0	26.4%	24.0%	49.6%
1995	36.5%	17.0	4201	-	168	0.0400	12.0	30.1%	28.9%	41.1%
1996	37.8%	17.2	4255	-	179	0.0421	11.6	28.4%	32.3%	39.4%
1997	39.9%	16.8	4394	-	189	0.0428	11.4	22.0%	36.3%	41.8%
1998	41.7%	17.1	4317	-	188	0.0435	11.2	24.7%	35.3%	40.0%
1999	41.7%	16.6	4457	-	199	0.0446	11.0	23.0%	36.9%	40.1%
2000	41.2%	16.8	4421	-	199	0.0448	11.0	24.8%	37.0%	38.3%
2001	41.4%	16.5	4543	-	212	0.0465	10.6	19.1%	41.9%	39.0%
2002	44.7%	16.5	4612	-	223	0.0482	10.3	17.2%	49.8%	33.0%
2003	46.1%	16.7	4655	-	224	0.0481	10.4	16.9%	49.1%	34.0%
2004	48.0%	16.5	4783	-	240	0.0500	10.1	12.7%	54.1%	33.3%
2005	44.4%	16.9	4763	-	242	0.0506	10.0	21.0%	46.4%	32.6%
2006	42.1%	17.2	4758	-	240	0.0503	10.0	18.3%	47.3%	34.4%
2007	41.1%	17.4	4871	-	254	0.0519	9.8	13.5%	52.8%	33.7%
2008	40.7%	17.8	4837	54.0	254	0.0522	9.7	14.0%	54.3%	31.7%
2009	33.0%	18.5	4753	54.0	252	0.0527	9.7	12.0%	55.8%	32.2%
2010	37.3%	18.8	4784	53.8	253	0.0526	9.7	13.5%	55.7%	30.8%
2011	42.2%	19.1	4824	54.4	271	0.0557	9.2	10.3%	60.6%	29.2%
2012	36.1%	19.4	4779	54.5	275	0.0571	9.0	14.2%	58.0%	27.7%

*Note: all footprint values for MY 2011 and later are based on formal manufacturer data, and are based on different data sources than values for MY 2010 and earlier.

Table 2 (continued)

Vehicle Size and Design Characteristics of MY 1975 to 2012 Light Duty Vehicles

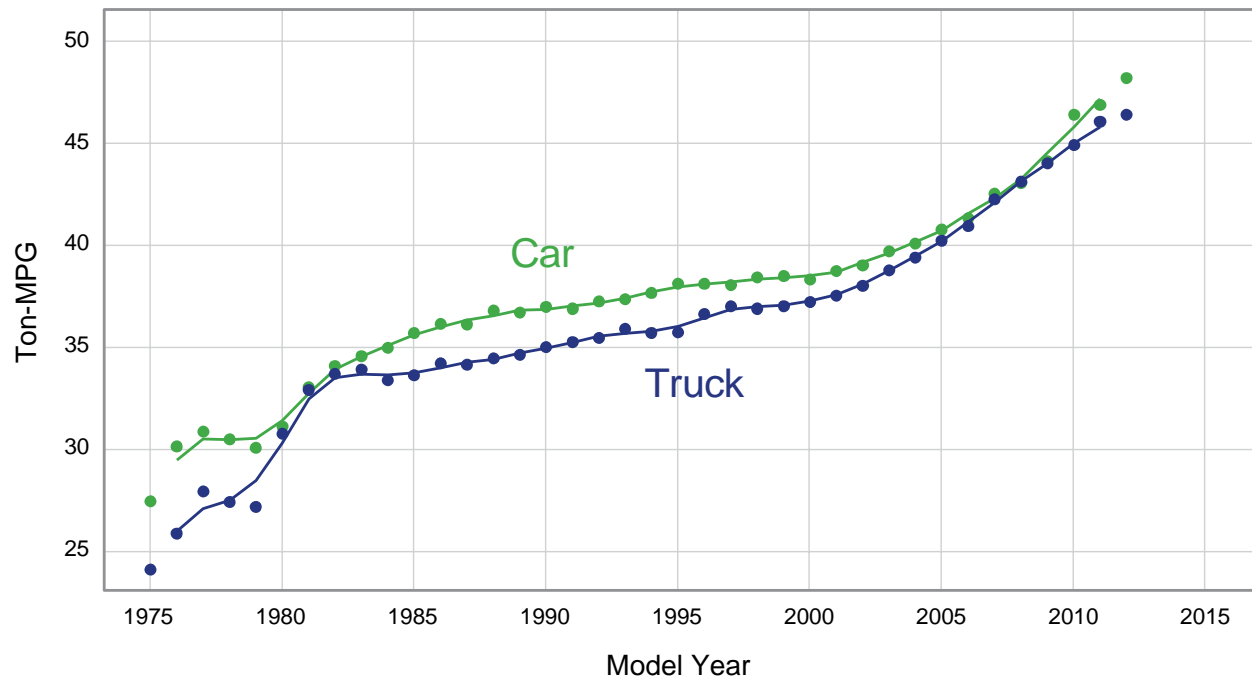
Cars and Trucks

Model Year	Adj Comp MPG	Weight (lb)	Footprint (sq ft)	HP	HP/Weight	0-to-60 Time (sec)
1975	13.1	4060	-	137	0.0335	14.1
1976	14.2	4079	-	135	0.0328	14.3
1977	15.1	3982	-	136	0.0339	13.8
1978	15.8	3715	-	129	0.0344	13.6
1979	15.9	3655	-	124	0.0335	13.9
1980	19.2	3228	-	104	0.0320	14.3
1981	20.5	3202	-	102	0.0318	14.4
1982	21.1	3202	-	103	0.0320	14.4
1983	21.0	3257	-	107	0.0327	14.1
1984	21.0	3262	-	109	0.0332	14.0
1985	21.3	3271	-	114	0.0347	13.5
1986	21.8	3238	-	114	0.0351	13.4
1987	22.0	3221	-	118	0.0361	13.1
1988	21.9	3283	-	123	0.0372	12.8
1989	21.4	3351	-	129	0.0382	12.5
1990	21.2	3426	-	135	0.0394	12.2
1991	21.3	3410	-	138	0.0402	12.1
1992	20.8	3512	-	145	0.0413	11.8
1993	20.9	3519	-	147	0.0416	11.8
1994	20.4	3603	-	152	0.0420	11.7
1995	20.5	3613	-	158	0.0438	11.3
1996	20.4	3659	-	164	0.0447	11.1
1997	20.2	3727	-	169	0.0452	11.0
1998	20.1	3744	-	171	0.0457	10.9
1999	19.7	3835	-	179	0.0465	10.7
2000	19.8	3821	-	181	0.0472	10.6
2001	19.6	3879	-	187	0.0480	10.5
2002	19.5	3951	-	195	0.0493	10.2
2003	19.6	3999	-	199	0.0496	10.2
2004	19.3	4111	-	211	0.0511	9.9
2005	19.9	4059	-	209	0.0512	9.9
2006	20.1	4067	-	213	0.0522	9.8
2007	20.6	4093	-	217	0.0525	9.7
2008	21.0	4085	48.9	219	0.0529	9.7
2009	22.4	3914	48.1	208	0.0523	9.7
2010	22.6	4002	48.6	214	0.0527	9.6
2011	22.4	4127	49.5	230	0.0550	9.4
2012	23.8	3950	48.6	222	0.0552	9.3

*Note: all footprint values for MY 2011 and later are based on formal manufacturer data, and are based on different data sources than values for MY 2010 and earlier.

Figure 4

**Ton-MPG by Model Year
(with Three-Year Moving Average)**



Another dramatic long-term trend has been the substantial increase in performance of cars and light trucks as measured by their estimated 0-to-60 mph acceleration time. These trends are shown graphically in Figure 5, which plots fuel economy versus performance for model years since 1975. Both graphs show the same story: in the late 1970s and early 1980s, responding to the regulatory requirements for mpg improvement, the industry increased mpg and kept performance roughly constant. After the regulatory mpg requirements stabilized, mpg improvements ended and performance dramatically improved through 2005 or so. In recent years, both fuel economy and performance have improved.

Figure 6 is similar to Figure 5, but shows the trends in weight and laboratory fuel economy. Weight decreased from the mid-1970s to the mid-1980s, then increased dramatically until about 2005 or so, and has been more stable in recent years.

Figure 5

Laboratory MPG vs. 0-to-60 Time by Model Year

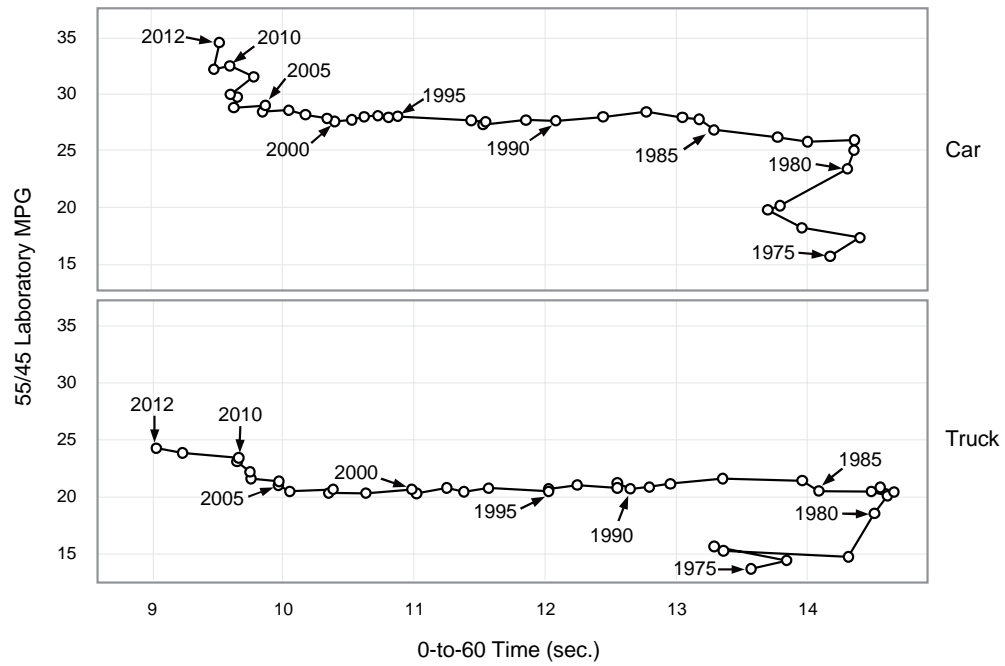
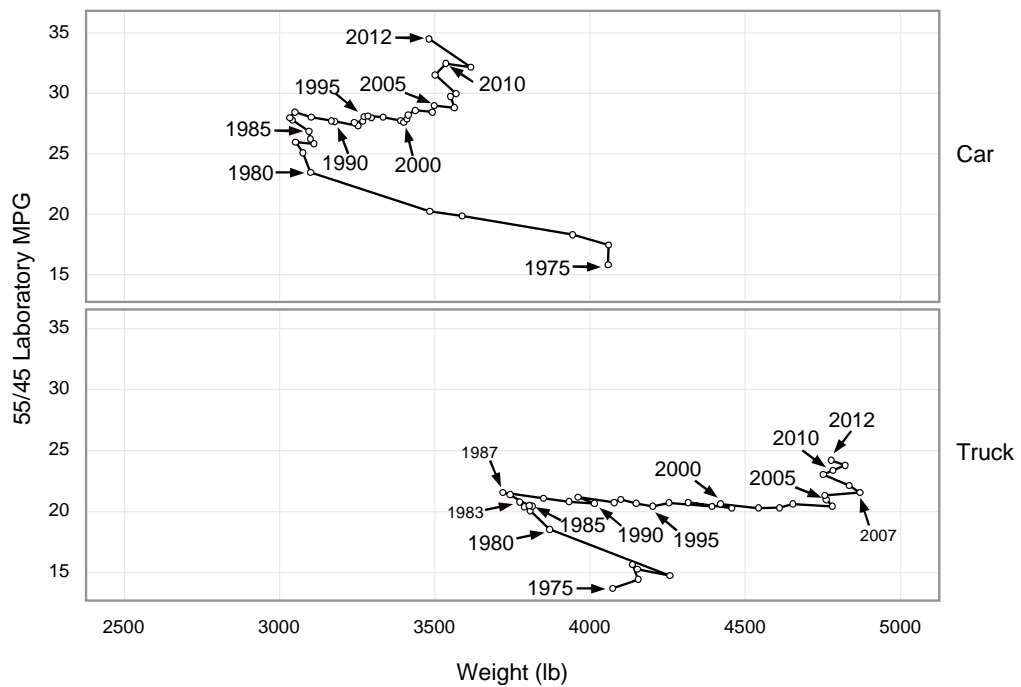


Figure 6

Laboratory MPG vs. Vehicle Weight by Model Year



IV. Carbon Dioxide Emissions Trends

This section focuses on light-duty vehicle tailpipe carbon dioxide (CO₂) emissions data that are measured over the EPA city and highway test procedures. As discussed below, the CO₂ emissions data, along with data for carbon monoxide and hydrocarbon emissions, are used to calculate the vehicle fuel economy levels presented in the rest of this report.

CO₂ is the most important greenhouse gas, responsible for a majority of all global, anthropogenic greenhouse gas emissions. Light-duty vehicles directly emit approximately 17% of total U.S. CO₂ emissions.² In April 2007, the U.S. Supreme Court determined that CO₂ is a pollutant under the Clean Air Act³, and in December 2009, EPA published two findings that CO₂ and other greenhouse gases from new motor vehicles and new motor vehicle engines contribute to air pollution, and that the air pollution may reasonably be anticipated to endanger public health and welfare.⁴ In May 2010, EPA published the first-ever light-duty vehicle greenhouse gas emissions standards, under the Clean Air Act, for MY 2012-2016.⁵ In October 2012, EPA published greenhouse gas emissions standards for light-duty vehicles for MY 2017-2025.⁶ These standards are part of a new, coordinated National Program which also includes CAFE standards that have been established and administered by NHTSA for MY 2012-2021, and augural standards for MY 2022-2025⁷. One of the goals of the National Policy is to establish a coordinated set of greenhouse gas emissions and CAFE standards that automakers can meet with a single national fleet.

Pre-2009 reports in this series presented fuel economy data only and did not include CO₂ emissions data. Beginning with the 2009 report, EPA has added CO₂ emissions data. Rather than adding CO₂ emissions data to all or most of the large number of tables and figures in this report, we are providing a few key summary tables and figures dedicated to CO₂ emissions in this section as well as a methodology with which a reader can convert fuel economy values from other sections of this report to equivalent CO₂ emissions levels. Section III and Sections V through VII of this report, as well as all of the appendices, continue to focus exclusively on fuel economy data.

The light-duty vehicle tailpipe CO₂ emissions data provided in this report represent the sum of three pollutants that EPA and automakers directly measure in the formal emissions certification and fuel economy compliance test programs:

- CO₂ emissions;
- Carbon monoxide emissions, converted to an equivalent CO₂ level on a mass basis by multiplying by a factor of 1.57, which is based on the ratio of molecular weights; and
- Hydrocarbon emissions, converted to an equivalent CO₂ level on a mass basis by multiplying by a factor of approximately 3.17, which is dependent on the measured carbon weight fraction of vehicle test fuel.

² U.S. EPA, 2009, Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2007, EPA 430-R-09-004.

³ 549 U.S. 497 (2007).

⁴ 74 Federal Register 66496 (December 15, 2009).

⁵ 75 Federal Register 25324 (May 7, 2010)

⁶ 77 Federal Register 62624 (October 15, 2012).

⁷ NHTSA CAFE standards for model years 2022-2025 are not final, and are augural. NHTSA is required by Congress to set CAFE standards for no more than five years at a time. NHTSA will conduct new and full rulemaking in the future to establish standards for model years 2022-2025. NHTSA projects the augural standards would require a combined fleet-wide fuel economy of 48.7-49.7 mpg.

While including the carbon monoxide and hydrocarbon emissions adds, on average, less than one percent to the tailpipe CO₂-equivalent emissions for late model year light-duty vehicles, they are included in the CO₂ emissions values for three reasons:

- Atmospheric processes convert carbon monoxide and hydrocarbons to CO₂ relatively quickly compared to the much longer atmospheric lifetime of CO₂;
- Carbon monoxide and hydrocarbon emissions are included, along with CO₂, in the "carbon balance" equations that EPA uses to calculate fuel economy values, so they must also be included in the CO₂ values to maintain the mathematical integrity of the equations given below to convert between CO₂ emissions and fuel economy values; and
- Including carbon monoxide and hydrocarbon emissions is consistent with EPA's light-duty vehicle CO₂ emissions standard-setting approach.

EPA routinely measures CO₂, carbon monoxide, and hydrocarbon emissions as part of its compliance programs. The individual fuel economy test values that comprise the EPA fuel economy trends database are calculated from a set of "carbon balance" equations based on direct measurement of CO₂, carbon monoxide, and total hydrocarbon emissions. Since carbon is neither created nor destroyed in the combustion process, quantifying the various carbon-containing compounds in the vehicle exhaust as well as the carbon weight fraction of the gasoline test fuel allows the precise calculation of the amount of fuel that was combusted in the vehicle engine. Ironically, while the fuel economy values are calculated from CO₂, carbon monoxide, and hydrocarbon emissions data, the historic EPA fuel economy trends database files do not include the direct emissions data. In order to add CO₂ emissions data to the historical database, EPA has back-calculated the CO₂ emissions (and associated carbon monoxide and hydrocarbon emissions, converted to CO₂ on a mass basis) levels from fuel economy values by reversing the carbon balance equations.

As with the fuel economy data in this report, the light-duty vehicle CO₂ emissions values are expressed in two ways: unadjusted/laboratory values (which will be the basis for CO₂ emissions regulatory compliance beginning in MY 2012) and adjusted/real world values (which are used for consumer information and environmental analysis). The CO₂ emissions values do not represent total light-duty vehicle greenhouse gas emissions, as there are other sources of greenhouse gas emissions beyond the tailpipe CO₂ emissions values. It is also important to note that the tailpipe CO₂ emissions data in this report do not reflect greenhouse gas emissions associated with vehicle assembly, component manufacturing, or vehicle disposal, nor upstream fuel-related production or distribution.

The unadjusted/laboratory CO₂ emissions values are the direct emissions data measured over the EPA city and highway tests. The vehicle air conditioner is turned off during these tests. The EPA city and highway tests will be used for compliance with future EPA light-duty vehicle CO₂ emissions standards (CO₂ standards allow the use of various incentives and credits so that the unadjusted CO₂ tailpipe emissions data in this report will not align with the EPA CO₂ standards or tailpipe compliance values). For late model year vehicles, the unadjusted CO₂ emissions values represent about 90% of total unadjusted light-duty vehicle greenhouse gas emissions. The remaining 10% of total light-duty vehicle greenhouse gas emissions is comprised of air conditioner efficiency-related CO₂ emissions (about 4%), air conditioner hydrofluorocarbon refrigerant emissions leaks (approximately 5%), tailpipe nitrous oxide emissions (about 2%), and tailpipe methane emissions (methane is one hydrocarbon compound with a longer atmospheric lifetime and higher global warming potency, but its mass emissions are so low from gasoline vehicles

that its potency-adjusted CO₂-equivalent emissions are about 0.2% of total light-duty vehicle greenhouse gas emissions).⁸

The adjusted CO₂ emissions values are calculated by increasing the unadjusted/laboratory CO₂ emissions test data to account for the many variables that can affect real world vehicle CO₂ emissions. For a detailed discussion of the methodology that EPA uses to convert unadjusted vehicle fuel economy values to adjusted fuel economy values, see Appendix A. This same methodology is used to calculate adjusted CO₂ emissions values as well. On average, based on the current fleet mix, adjusted CO₂ emissions levels are about 25% higher than unadjusted CO₂ values. Because the adjusted CO₂ values take the impact of air conditioner operation on vehicle tailpipe CO₂ emissions into account, adjusted CO₂ values represent about 95% of total adjusted real world light-duty vehicle greenhouse gas emissions, with the remainder composed of air conditioner hydrofluorocarbon refrigerant emissions leaks, tailpipe nitrous oxide emissions, and the higher global warming potency associated with tailpipe methane emissions.

Table 3 gives key light-duty vehicle CO₂ emissions data for the entire data series from 1975 through 2012 for cars only, trucks only, and cars and trucks combined. Table 3 is very similar to Table 1, except that the fuel economy data in Table 1 is replaced with CO₂ emissions data in Table 3.

⁸ 75 Federal Register 25421-25425 (May 7, 2010).

Table 3

Carbon Dioxide Emissions of MY 1975 to 2012 Light Duty Vehicles

Cars

Model Year	Production (000)	Production Percent	Lab City CO ₂ (g/mi)	Lab Hwy CO ₂ (g/mi)	Lab 55/45 CO ₂ (g/mi)	Adj City CO ₂ (g/mi)	Adj Hwy CO ₂ (g/mi)	Adj Comp CO ₂ (g/mi)	CO ₂ /Ton	CO ₂ /Cu Ft	CO ₂ /Ton-Cu Ft
1975	8247	80.7%	650	457	563	722	586	661	327	-	-
1976	9734	78.9%	584	418	509	649	536	598	297	-	-
1977	11318	80.1%	556	400	486	618	512	570	290	5.2	2.7
1978	11191	77.5%	516	364	447	574	466	525	294	4.9	2.8
1979	10810	77.9%	503	362	440	559	465	517	298	4.8	2.9
1980	9444	83.5%	439	308	380	488	395	446	289	4.4	2.9
1981	8734	82.8%	412	288	356	458	369	418	273	4.0	2.7
1982	7832	80.5%	401	273	343	445	350	402	264	3.9	2.6
1983	8035	78.0%	402	273	344	447	350	403	259	3.8	2.5
1984	10730	76.5%	397	268	339	441	343	397	256	3.8	2.5
1985	10879	75.2%	388	260	330	431	333	387	250	3.7	2.4
1986	11074	72.1%	375	251	319	420	322	375	247	3.6	2.4
1987	10826	72.8%	373	248	317	420	321	374	247	3.6	2.4
1988	10845	70.9%	367	243	312	416	316	369	243	3.5	2.3
1989	10126	70.1%	375	245	317	426	320	376	243	3.5	2.3
1990	8875	70.4%	380	247	320	435	324	382	241	3.6	2.3
1991	8748	69.6%	379	247	320	437	325	382	242	3.6	2.3
1992	8350	68.6%	387	248	325	448	327	389	240	3.6	2.3
1993	8929	67.6%	383	246	322	447	326	386	239	3.6	2.2
1994	8747	61.9%	383	244	320	449	325	386	237	3.6	2.2
1995	9616	63.5%	380	238	316	448	319	382	234	3.5	2.2
1996	8177	62.2%	381	239	317	452	322	384	234	3.5	2.2
1997	8695	60.1%	378	238	315	452	322	384	234	3.6	2.2
1998	8425	58.3%	380	239	316	456	324	386	232	3.6	2.2
1999	8865	58.3%	384	242	320	464	329	392	231	3.6	2.2
2000	9742	58.8%	385	244	321	468	333	395	233	3.6	2.2
2001	9148	58.6%	380	242	318	466	332	393	231	3.6	2.1
2002	8904	55.3%	375	241	314	462	332	390	229	3.6	2.1
2003	8496	53.9%	370	237	310	460	328	386	225	3.6	2.1
2004	8176	52.0%	373	236	312	466	329	389	223	3.6	2.1
2005	8839	55.6%	365	234	306	459	327	384	220	3.5	2.0
2006	8744	57.9%	368	235	308	463	328	386	217	3.5	2.0
2007	9001	58.9%	355	228	298	448	320	375	211	3.4	1.9
2008	8243	59.3%	352	227	296	445	317	372	209	3.4	1.9
2009	6244	67.0%	334	217	281	423	305	356	203	3.2	1.9
2010	6969	62.7%	323	212	273	411	298	346	196	3.1	1.8
2011	6934	57.8%	329	211	276	417	295	348	193	3.1	1.7
2012	-	63.9%	305	198	257	389	279	326	188	3.0	1.7

Table 3 (continued)

Carbon Dioxide Emissions of MY 1975 to 2012 Light Duty Vehicles

Trucks

Model Year	Production (000)	Production Percent	Lab City CO ₂ (g/mi)	Lab Hwy CO ₂ (g/mi)	Lab 55/45 CO ₂ (g/mi)	Adj City CO ₂ (g/mi)	Adj Hwy CO ₂ (g/mi)	Adj Comp CO ₂ (g/mi)	CO ₂ /Ton
1975	1977	19.3%	733	548	650	814	702	764	374
1976	2600	21.1%	692	525	617	769	672	726	349
1977	2805	19.9%	632	490	568	703	628	669	322
1978	3257	22.5%	645	507	583	717	650	687	330
1979	3072	22.1%	663	530	605	737	679	711	333
1980	1863	16.5%	541	407	481	602	521	565	294
1981	1821	17.2%	502	374	444	558	479	523	275
1982	1901	19.5%	497	368	439	552	472	516	272
1983	2267	22.0%	489	356	429	543	456	504	268
1984	3289	23.5%	497	361	436	553	462	512	270
1985	3581	24.8%	495	359	434	550	460	509	267
1986	4291	27.9%	474	343	415	529	442	489	261
1987	4039	27.2%	472	337	411	531	435	486	262
1988	4450	29.1%	485	341	420	548	442	498	259
1989	4327	29.9%	492	345	426	558	449	506	258
1990	3740	29.6%	499	344	429	569	450	512	255
1991	3825	30.4%	487	335	419	559	439	500	253
1992	3822	31.4%	500	340	428	576	447	512	252
1993	4281	32.4%	494	335	422	573	442	507	249
1994	5378	38.1%	501	342	429	584	453	518	250
1995	5529	36.5%	508	344	434	595	457	524	250
1996	4967	37.8%	503	336	428	592	449	518	244
1997	5762	39.9%	510	342	434	603	459	528	241
1998	6030	41.7%	504	335	428	599	451	521	242
1999	6350	41.7%	514	344	438	615	465	535	241
2000	6829	41.2%	504	340	430	606	461	528	240
2001	6458	41.4%	511	347	437	618	472	538	238
2002	7211	44.7%	512	345	437	623	472	539	235
2003	7277	46.1%	505	339	430	618	465	533	230
2004	7533	48.0%	510	341	434	628	469	538	227
2005	7053	44.4%	499	330	423	617	457	526	222
2006	6360	42.1%	489	325	416	607	450	518	218
2007	6275	41.1%	486	321	411	602	444	512	212
2008	5656	40.7%	473	312	401	587	433	499	208
2009	3071	33.0%	454	300	385	565	416	480	203
2010	4141	37.3%	448	296	379	558	410	474	200
2011	5069	42.2%	441	290	373	549	403	466	195
2012	-	36.1%	434	284	366	541	395	458	193

Table 3 (continued)

Carbon Dioxide Emissions of MY 1975 to 2012 Light Duty Vehicles

Cars and Trucks

Model Year	Production (000)	Lab City CO ₂ (g/mi)	Lab Hwy CO ₂ (g/mi)	Lab 55/45 CO ₂ (g/mi)	Adj City CO ₂ (g/mi)	Adj Hwy CO ₂ (g/mi)	Adj Comp CO ₂ (g/mi)	CO ₂ / Ton
1975	10224	666	474	580	740	608	681	336
1976	12334	607	440	532	674	565	625	308
1977	14123	571	418	502	635	535	590	296
1978	14448	545	396	478	606	508	562	302
1979	13882	539	399	476	599	512	560	306
1980	11306	456	324	397	507	416	466	290
1981	10554	428	303	371	475	388	436	274
1982	9732	419	292	362	466	374	425	266
1983	10302	421	291	363	468	373	426	261
1984	14020	421	290	362	467	371	424	259
1985	14460	414	284	356	461	364	417	255
1986	15365	403	276	346	450	356	407	251
1987	14865	400	272	343	450	352	405	251
1988	15295	402	272	343	454	353	407	247
1989	14453	410	275	349	466	359	415	247
1990	12615	415	276	353	475	361	420	245
1991	12573	412	274	350	474	360	418	245
1992	12172	423	277	357	488	365	427	243
1993	13211	419	275	354	488	364	426	242
1994	14125	428	281	362	500	374	436	242
1995	15145	426	277	359	501	369	434	240
1996	13144	427	276	359	505	370	435	238
1997	14458	431	280	363	512	376	441	237
1998	14456	431	279	363	516	377	442	236
1999	15215	438	285	369	527	386	451	235
2000	16571	434	283	366	525	386	450	236
2001	15605	434	285	367	529	390	453	234
2002	16115	436	287	369	534	394	457	232
2003	15773	432	284	366	533	391	454	227
2004	15709	439	286	370	544	396	461	225
2005	15892	424	277	358	529	385	447	221
2006	15104	419	273	353	523	380	442	218
2007	15276	409	266	345	511	371	431	212
2008	13898	401	261	338	503	364	424	208
2009	9315	373	244	315	470	341	397	203
2010	11110	370	243	313	465	340	394	197
2011	12003	376	244	317	473	341	398	193
2012	-	352	229	296	444	321	374	190

Figure 7 plots the adjusted CO₂ emissions values over time, for cars only, trucks only, and both cars and trucks combined.

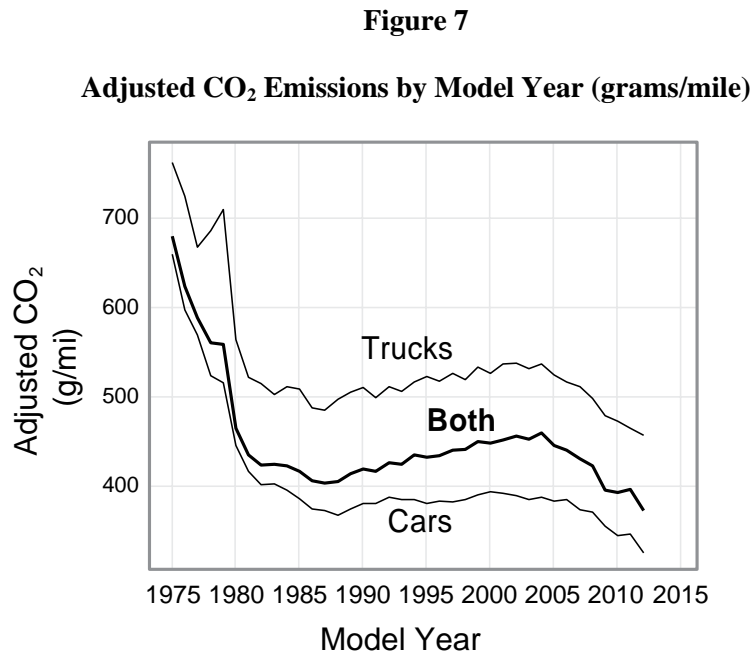


Table 3 and Figure 7 show that, over the last 35 years, adjusted (real world) CO₂ emissions rates have gone through four distinct phases. Most dramatically, adjusted composite (city/highway) CO₂ emissions rates for the combined car/truck fleet fell sharply from 681 grams per mile (g/mi) in MY 1975 to 436 g/mi in MY 1981, for a 36% reduction over 6 years. Adjusted CO₂ emissions continued to decline, though much more slowly, reaching 405 g/mi in MY 1987, which represents a 41% reduction from MY 1975. The trend then reversed, as adjusted CO₂ levels rose slowly over the next 17 years, reaching 461 g/mi in MY 2004, a 14% increase relative to the MY 1987 low. Adjusted CO₂ emissions have been on a generally decreasing trend since 2004, but increased slightly in MY 2011 to 398 g/mi. The preliminary MY 2012 value, based on automaker production projections made prior to the beginning of the model year, is 374 g/mi, which if realized, would be an all-time low.

Laboratory CO₂ emissions values are also given in Table 3. Because laboratory values do not reflect the changes that EPA made to its methodology for adjusting fuel economy and CO₂ emissions levels for real world estimates for consumers, they are the best metric for evaluating CO₂ emissions trends solely on vehicle design considerations. Based on the 55/45 (city/highway) laboratory CO₂ values in Table 3, the MY 2011 value is 317 g/mi and the preliminary MY 2012 value is 296 g/mi, which represents a new all-time low if achieved.

Table 4 shows key light-duty vehicle characteristics, along with the adjusted composite CO₂ emissions values, for the MY 1975 through 2012 timeframe for cars only, trucks only, and cars and trucks combined. Table 4 is very similar to Table 2 discussed above, except that the fuel economy data in Table 2 is replaced with CO₂ emissions data in Table 4.

Table 4

Vehicle Size and Design Characteristics of MY 1975 to 2012 Light Duty Vehicles

Cars

Model Year	Production Percent	Adj Comp CO ₂ (g/mi)	Vol (cu ft)	Weight (lb)	Footprint (sq ft)	HP	HP/Weight	0-to-60 Time (sec)	Small	Midsize	Large
1975	80.7%	661	-	4057	-	136	0.0331	14.2	55.4%	23.3%	21.2%
1976	78.9%	598	-	4059	-	134	0.0324	14.4	55.4%	25.2%	19.4%
1977	80.1%	570	110	3944	-	133	0.0335	14.0	52.0%	24.5%	23.5%
1978	77.5%	525	109	3588	-	124	0.0342	13.7	44.7%	34.4%	20.9%
1979	77.9%	517	109	3485	-	119	0.0338	13.8	43.7%	34.2%	22.1%
1980	83.5%	446	104	3101	-	100	0.0322	14.3	54.4%	34.4%	11.3%
1981	82.8%	418	106	3076	-	99	0.0320	14.4	51.5%	36.4%	12.2%
1982	80.5%	402	106	3053	-	99	0.0320	14.4	56.6%	30.9%	12.5%
1983	78.0%	403	109	3112	-	104	0.0330	14.0	53.0%	31.9%	15.0%
1984	76.5%	397	108	3101	-	106	0.0338	13.8	57.1%	29.7%	13.2%
1985	75.2%	387	108	3096	-	111	0.0354	13.3	55.3%	29.5%	15.2%
1986	72.1%	375	107	3043	-	111	0.0360	13.2	59.2%	28.3%	12.5%
1987	72.8%	374	107	3035	-	113	0.0365	13.0	63.2%	24.8%	12.1%
1988	70.9%	369	107	3051	-	116	0.0375	12.8	64.5%	22.8%	12.7%
1989	70.1%	376	108	3104	-	121	0.0387	12.4	58.0%	28.7%	13.4%
1990	70.4%	382	107	3178	-	129	0.0401	12.1	58.4%	28.9%	12.7%
1991	69.6%	382	107	3168	-	133	0.0413	11.9	60.4%	27.6%	12.0%
1992	68.6%	389	109	3254	-	141	0.0427	11.5	55.5%	29.4%	15.2%
1993	67.6%	386	109	3241	-	140	0.0427	11.5	54.7%	32.7%	12.6%
1994	61.9%	386	109	3268	-	144	0.0432	11.4	57.0%	28.2%	14.8%
1995	63.5%	382	109	3274	-	153	0.0460	10.9	56.3%	30.0%	13.7%
1996	62.2%	384	109	3297	-	155	0.0463	10.8	52.9%	33.9%	13.2%
1997	60.1%	384	109	3285	-	156	0.0468	10.7	54.5%	31.7%	13.7%
1998	58.3%	386	109	3334	-	160	0.0473	10.6	47.7%	41.4%	10.8%
1999	58.3%	392	110	3390	-	164	0.0479	10.5	45.8%	42.2%	12.0%
2000	58.8%	395	110	3401	-	168	0.0489	10.4	45.8%	37.1%	17.1%
2001	58.6%	393	110	3411	-	169	0.0491	10.3	48.2%	35.8%	16.0%
2002	55.3%	390	111	3415	-	173	0.0502	10.2	46.6%	39.0%	14.5%
2003	53.9%	386	111	3437	-	176	0.0508	10.0	47.8%	36.9%	15.3%
2004	52.0%	389	112	3492	-	184	0.0520	9.8	44.3%	38.9%	16.8%
2005	55.6%	384	113	3498	-	183	0.0516	9.9	40.6%	40.7%	18.6%
2006	57.9%	386	113	3563	-	194	0.0536	9.6	42.2%	35.8%	22.1%
2007	58.9%	375	113	3551	-	191	0.0530	9.6	40.0%	42.7%	17.3%
2008	59.3%	372	112	3569	45.3	194	0.0534	9.6	39.6%	40.0%	20.4%
2009	67.0%	356	112	3502	45.1	186	0.0522	9.8	43.0%	39.3%	17.8%
2010	62.7%	346	113	3536	45.4	190	0.0528	9.6	42.4%	40.3%	17.3%
2011	57.8%	348	115	3617	46.0	200	0.0544	9.5	31.8%	46.5%	21.7%
2012	63.9%	326	113	3482	45.3	192	0.0541	9.5	45.0%	40.7%	14.2%

*Note: all footprint values for MY 2011 and later are based on formal manufacturer data, and are based on different data sources than values for MY 2010 and earlier.

Table 4 (continued)

Vehicle Size and Design Characteristics of MY 1975 to 2012 Light Duty Vehicles

Trucks

Model Year	Production Percent	Adj Comp	Weight (lb)	Footprint (sq ft)	HP	HP/Weight	0-to-60	Small	Midsize	Large	Van	Truck SUV	Pickup
		CO ₂ (g/mi)					Time (sec)						
1975	19.3%	764	4073	-	142	0.0349	13.6	10.6%	24.1%	65.3%	23.1%	9.0%	67.9%
1976	21.1%	726	4155	-	141	0.0340	13.8	8.7%	20.2%	71.0%	19.3%	8.9%	71.8%
1977	19.9%	669	4136	-	147	0.0356	13.3	10.6%	20.4%	69.0%	18.3%	9.4%	72.2%
1978	22.5%	687	4152	-	146	0.0351	13.4	10.6%	22.7%	66.7%	19.2%	11.2%	69.6%
1979	22.1%	711	4257	-	138	0.0325	14.3	14.9%	19.5%	65.6%	15.6%	12.5%	71.8%
1980	16.5%	565	3869	-	121	0.0313	14.5	28.4%	17.6%	54.0%	13.0%	9.9%	77.1%
1981	17.2%	523	3806	-	119	0.0311	14.6	23.2%	19.1%	57.7%	13.5%	7.5%	79.1%
1982	19.5%	516	3813	-	120	0.0317	14.5	20.6%	31.1%	48.2%	16.3%	7.9%	75.8%
1983	22.0%	504	3773	-	118	0.0313	14.6	16.3%	45.6%	38.1%	16.9%	11.3%	71.8%
1984	23.5%	512	3787	-	118	0.0310	14.7	19.7%	45.6%	34.7%	20.6%	17.3%	62.1%
1985	24.8%	509	3803	-	124	0.0326	14.1	19.7%	47.2%	33.1%	23.9%	18.1%	58.0%
1986	27.9%	489	3741	-	123	0.0330	14.0	23.8%	47.8%	28.4%	24.3%	16.6%	59.0%
1987	27.2%	486	3718	-	131	0.0351	13.4	19.8%	59.2%	21.1%	27.6%	19.3%	53.1%
1988	29.1%	498	3850	-	141	0.0365	13.0	14.5%	57.0%	28.5%	25.5%	19.3%	55.2%
1989	29.9%	506	3932	-	146	0.0371	12.8	13.5%	58.7%	27.9%	29.5%	18.9%	51.6%
1990	29.6%	512	4014	-	151	0.0377	12.6	12.9%	57.0%	30.1%	33.8%	17.2%	49.1%
1991	30.4%	500	3961	-	150	0.0379	12.5	10.8%	66.5%	22.7%	27.0%	22.8%	50.2%
1992	31.4%	512	4078	-	155	0.0380	12.5	9.8%	63.0%	27.2%	32.0%	19.9%	48.1%
1993	32.4%	507	4098	-	160	0.0391	12.2	8.7%	62.6%	28.8%	33.7%	19.6%	46.8%
1994	38.1%	518	4149	-	166	0.0401	12.0	9.2%	61.9%	28.9%	26.4%	24.0%	49.6%
1995	36.5%	524	4201	-	168	0.0400	12.0	8.5%	62.5%	29.1%	30.1%	28.9%	41.1%
1996	37.8%	518	4255	-	179	0.0421	11.6	6.1%	66.0%	27.9%	28.4%	32.3%	39.4%
1997	39.9%	528	4394	-	189	0.0428	11.4	8.2%	52.2%	39.7%	22.0%	36.3%	41.8%
1998	41.7%	521	4317	-	188	0.0435	11.2	8.2%	57.0%	34.8%	24.7%	35.3%	40.0%
1999	41.7%	535	4457	-	199	0.0446	11.0	7.3%	53.5%	39.2%	23.0%	36.9%	40.1%
2000	41.2%	528	4421	-	199	0.0448	11.0	5.4%	53.7%	40.9%	24.8%	37.0%	38.3%
2001	41.4%	538	4543	-	212	0.0465	10.6	5.2%	44.4%	50.4%	19.1%	41.9%	39.0%
2002	44.7%	539	4612	-	223	0.0482	10.3	6.1%	40.9%	53.0%	17.2%	49.8%	33.0%
2003	46.1%	533	4655	-	224	0.0481	10.4	5.5%	45.2%	49.3%	16.9%	49.1%	34.0%
2004	48.0%	538	4783	-	240	0.0500	10.1	4.9%	43.4%	51.6%	12.7%	54.1%	33.3%
2005	44.4%	526	4763	-	242	0.0506	10.0	2.6%	46.0%	51.4%	21.0%	46.4%	32.6%
2006	42.1%	518	4758	-	240	0.0503	10.0	2.2%	47.1%	50.7%	18.3%	47.3%	34.4%
2007	41.1%	512	4871	-	254	0.0519	9.8	2.3%	41.7%	56.0%	13.5%	52.8%	33.7%
2008	40.7%	499	4837	54.0	254	0.0522	9.7	3.0%	45.9%	51.2%	14.0%	54.3%	31.7%
2009	33.0%	480	4753	54.0	252	0.0527	9.7	2.6%	48.2%	49.2%	12.0%	55.8%	32.2%
2010	37.3%	474	4784	53.8	253	0.0526	9.7	2.9%	48.0%	49.2%	13.5%	55.7%	30.8%
2011	42.2%	466	4824	54.4	271	0.0557	9.2	-	43.4%	56.6%	10.3%	60.6%	29.2%
2012	36.1%	458	4779	54.5	275	0.0571	9.0	-	42.9%	57.1%	14.2%	58.0%	27.7%

*Note: all footprint values for MY 2011 and later are based on formal manufacturer data, and are based on different data sources than values for MY 2010 and earlier.

Table 4 (continued)

Vehicle Size and Design Characteristics of MY 1975 to 2012 Light Duty Vehicles

Cars and Trucks

Model Year	Adj Comp CO ₂ (g/mi)	Weight (lb)	Footprint (sq ft)	HP	HP/ Weight	0-to-60 Time (sec)
1975	681	4060	-	137	0.0335	14.1
1976	625	4079	-	135	0.0328	14.3
1977	590	3982	-	136	0.0339	13.8
1978	562	3715	-	129	0.0344	13.6
1979	560	3655	-	124	0.0335	13.9
1980	466	3228	-	104	0.0320	14.3
1981	436	3202	-	102	0.0318	14.4
1982	425	3202	-	103	0.0320	14.4
1983	426	3257	-	107	0.0327	14.1
1984	424	3262	-	109	0.0332	14.0
1985	417	3271	-	114	0.0347	13.5
1986	407	3238	-	114	0.0351	13.4
1987	405	3221	-	118	0.0361	13.1
1988	407	3283	-	123	0.0372	12.8
1989	415	3351	-	129	0.0382	12.5
1990	420	3426	-	135	0.0394	12.2
1991	418	3410	-	138	0.0402	12.1
1992	427	3512	-	145	0.0413	11.8
1993	426	3519	-	147	0.0416	11.8
1994	436	3603	-	152	0.0420	11.7
1995	434	3613	-	158	0.0438	11.3
1996	435	3659	-	164	0.0447	11.1
1997	441	3727	-	169	0.0452	11.0
1998	442	3744	-	171	0.0457	10.9
1999	451	3835	-	179	0.0465	10.7
2000	450	3821	-	181	0.0472	10.6
2001	453	3879	-	187	0.0480	10.5
2002	457	3951	-	195	0.0493	10.2
2003	454	3999	-	199	0.0496	10.2
2004	461	4111	-	211	0.0511	9.9
2005	447	4059	-	209	0.0512	9.9
2006	442	4067	-	213	0.0522	9.8
2007	431	4093	-	217	0.0525	9.7
2008	424	4085	48.9	219	0.0529	9.7
2009	397	3914	48.1	208	0.0523	9.7
2010	394	4002	48.6	214	0.0527	9.6
2011	398	4127	49.5	230	0.0550	9.4
2012	374	3950	48.6	222	0.0552	9.3

*Note: all footprint values for MY 2011 and later are based on formal manufacturer data, and are based on different data sources than values for MY 2010 and earlier.

The manufacturer definitions in this report are those used by NHTSA for purposes of implementation of and manufacturer compliance with the CAFE program. Make is typically included in the model name and is generally recognized by consumers as the “brand” of the vehicle. The Mercury make no longer exists, but is included since Table 5 also includes MY 2010 and 2011. For more details on this vehicle grouping approach, and the thresholds that were used to identify the 11 manufacturers (excluding Hyundai and Kia, as discussed in the Executive Summary) and 26 makes shown in Table 5, see the more detailed discussion in Section VII. It is important to note that when a manufacturer or make grouping is changed to reflect a change in the industry's financial structure, EPA makes the same adjustment in the historical database back to 1975. This maintains a consistent manufacturer (or make) definition over time, which allows a better identification of long-term trends. However, this also means that the current database does not necessarily reflect actual financial or structural arrangements in the past. For example, the 2012 database no longer accounts for the fact that Chrysler was combined with Daimler for several years.

Table 5 gives adjusted CO₂ emissions values for cars, trucks, and cars and trucks combined for MY 2010-2012, for the 11 highest-selling manufacturers (excluding Hyundai and Kia) and 26 largest makes associated with those manufacturers. Manufacturers are listed in order of increasing MY 2011 car plus truck CO₂ emissions rate. By including data from both MY 2010 and MY 2011, with formal end-of-year data for both years, it is possible to identify meaningful changes from year-to-year. Because of the uncertainty associated with the MY 2012 projections, changes from MY 2011 to MY 2012 are less meaningful. EPA anticipates that the MY 2012 results for all manufacturers will change after the final data has been submitted to EPA, and the final MY 2012 data will be included in next year's report.

Seven of the 11 manufacturers reduced CO₂ emissions in MY 2011. Of these 11 manufacturers, Volkswagen had the lowest MY 2011 adjusted CO₂ emissions performance of 349 g/mi, followed by Mazda at 356 g/mi. Toyota and Honda were tied at 369 g/mi. Daimler had the highest MY 2011 adjusted CO₂ emissions performance for any manufacturer, 469 g/mi, and was followed by Chrysler-Fiat at 458 g/mi and GM at 429 g/mi. In terms of improvement from MY 2010 to MY 2011, Volkswagen had the largest reduction of 14 g/mi, followed by Ford and BMW.

In terms of makes in MY 2011, the Smart had the lowest CO₂ emissions of 243 g/mi. The Daimler Smart Fortwo is the smallest and lightest car in the U.S. market and has very small production volumes. The make with the second-lowest CO₂ emissions performance in MY 2011 is the BMW Mini, which also has relatively low production, at 293 g/mi. Of the makes with higher production for the 11 manufacturers shown in the table, Volkswagen had the lowest CO₂ emissions at 330 g/mi, followed by Scion at 340 g/mi and Mazda at 356 g/mi.

Preliminary projections suggest that all 11 of the manufacturers will improve CO₂ emissions performance further in MY 2012, though EPA will not have actual data for MY 2012 until later this year. Honda, Mazda, Volkswagen, and Toyota are projected to be the overall CO₂ emissions leaders for MY 2011.

Table 5

Adjusted Carbon Dioxide Emissions by Manufacturer and Make for MY 2010-2012 (g/mi)

Manufacturer	Make	2010 Cars			2011 Cars			2012 Cars		
		2010 Cars	2010 Trucks	and Trucks	2011 Cars	2011 Trucks	and Trucks	2012 Cars	2012 Trucks	and Trucks
VW	VW	338	435	346	318	407	330	325	394	332
VW	Audi	380	463	404	371	423	387	373	422	386
VW	All	349	450	363	333	415	349	336	406	346
Mazda	All	344	442	364	338	453	356	330	453	343
Toyota	Toyota	287	459	343	308	450	366	279	456	344
Toyota	Lexus	382	422	397	377	437	397	364	427	384
Toyota	Scion	343	-	343	340	-	340	321	-	321
Toyota	All	302	453	350	317	449	369	293	453	347
Honda	Honda	314	419	349	315	415	363	295	389	329
Honda	Acura	382	473	413	373	478	434	367	479	408
Honda	All	322	425	357	319	422	369	302	398	337
Subaru	All	373	382	379	372	371	372	325	371	353
Nissan	Nissan	337	482	378	331	464	374	319	435	353
Nissan	Infiniti	420	554	449	409	522	436	403	513	418
Nissan	All	345	487	384	340	469	381	331	439	361
BMW	BMW	422	480	434	398	447	408	395	452	413
BMW	Mini	305	-	305	293	-	293	297	-	297
BMW	All	390	480	404	383	447	393	365	452	386
Ford	Ford	362	510	437	352	484	421	317	476	380
Ford	Mercury	387	463	401	414	422	414	-	-	-
Ford	Lincoln	430	470	441	404	503	471	401	505	431
Ford	All	369	508	435	359	484	422	322	477	382
GM	Chevrolet	362	498	407	357	501	417	347	495	406
GM	GMC	372	493	465	377	503	475	373	508	471
GM	Buick	420	459	435	397	463	419	366	468	382
GM	Cadillac	438	527	449	433	570	456	434	567	478
GM	All	374	494	418	371	501	429	354	499	415
Chrysler-Fiat	Jeep	-	484	484	-	465	465	-	468	468
Chrysler-Fiat	Dodge	401	461	428	391	460	431	383	444	418
Chrysler-Fiat	Chrysler	398	452	430	386	428	405	380	425	402
Chrysler-Fiat	Ram	-	556	556	-	554	554	-	538	538
Chrysler-Fiat	All	402	482	455	392	477	458	362	464	431
Daimler	Mercedes-Benz	451	522	474	444	533	472	392	506	418
Daimler	Smart	241	-	241	243	-	243	244	-	244
Daimler	All	446	522	471	440	533	469	392	506	418
Other	All	386	510	433	373	493	423	379	463	403
Fleet		346	474	394	348	466	398	326	458	374

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data. This report uses the corrected fuel economy values submitted by Hyundai and Kia for four MY 2011 vehicles and for a majority of Hyundai and Kia vehicles for MY 2012. Based on these corrected data, Hyundai's 2010 Cars and Trucks value is 329 g/mi CO₂, Hyundai's 2011 Cars and Trucks value is 327 g/mi CO₂, Hyundai's preliminary 2012 Cars and Trucks value is 309 g/mi CO₂, Kia's 2010 Cars and Trucks value is 330 g/mi CO₂, Kia's 2011 Cars and Truck values is 345 g/mi CO₂, and Kia's preliminary 2012 Car and truck value is 333 g/mi CO₂.

While Tables 3, 4, and 5 provide key summary CO₂ emissions data, EPA recognizes that many users will want the CO₂ emissions values equivalent to the fuel economy values in many other tables in this report. Converting fuel economy values from tables in this report to approximate equivalent CO₂ emissions values is fairly straightforward.

If it is known that a fuel economy value in this report is based on a single gasoline vehicle, or a 100% gasoline vehicle fleet, one can calculate the precise corresponding CO₂ value by simply dividing 8887 (which is a typical value for the grams of CO₂ per gallon of gasoline test fuel, assuming all the carbon is converted to CO₂) by the fuel economy value in miles per gallon. For example, 8887 divided by a gasoline vehicle fuel economy of 30 mpg would yield an equivalent CO₂ emissions value of 296 grams per mile.

Since gasoline vehicle production has accounted for 99+% of all light-duty vehicle production for all model years since 1975 except for the six years from 1979 through 1984, this simple approach yields very accurate results for most model years.

Diesel fuel has 14.5% higher carbon content per gallon than gasoline. To calculate a CO₂ equivalent value for a diesel vehicle, one should divide 10,180 by the diesel vehicle fuel economy value. Accordingly, a 30 mpg diesel vehicle would have a CO₂ equivalent value of 339 grams per mile.

Table 6 should be used by those who want to make the most accurate conversions of industry-wide fuel economy values to CO₂ emissions values. Table 6 gives model year-specific industry-wide values for grams of CO₂ per gallon based on actual light-duty gasoline and diesel vehicle production in that year. Using these model year-specific values and dividing by the fuel economy value in miles per gallon will allow accurate conversions of industry-wide fuel economy values to industry-wide CO₂ emissions values.

Readers will have to make judgment calls about how to best convert fuel economy values that do not represent industry-wide values (e.g., just small cars or vehicles with 5-speed automatic transmissions). If the user knows the gasoline/diesel production volume fractions of the individual database component, it is best to generate a weighted value of grams of CO₂ per gallon based on the 8887 (gasoline) and 10,180 (diesel) factors discussed above. Otherwise, the reader can choose between the model year-specific weighting in Table 6 (which implicitly assumes that the diesel fraction in the database component of interest is similar to that for the overall fleet in that year) or the gasoline value of 8887 (implicitly assuming no diesels in that database component). In nearly all cases, any error associated with either of these approaches will be relatively small.

Table 6

**Factors for Converting Industry-wide Fuel Economy Values from this Report to
Carbon Dioxide Emissions Values**

Model Year	Gasoline Production Share	Diesel Production Share	Weighted CO₂ per Gallon (grams)
1975	99.8%	0.2%	8890
1976	99.8%	0.2%	8890
1977	99.6%	0.4%	8892
1978	99.1%	0.9%	8899
1979	98.0%	2.0%	8913
1980	95.7%	4.3%	8943
1981	94.1%	5.9%	8963
1982	94.4%	5.6%	8959
1983	97.3%	2.7%	8922
1984	98.2%	1.8%	8910
1985	99.1%	0.9%	8899
1986	99.6%	0.4%	8892
1987	99.7%	0.3%	8891
1988	99.9%	0.1%	8888
1989	99.9%	0.1%	8888
1990	99.9%	0.1%	8888
1991	99.9%	0.1%	8888
1992	99.9%	0.1%	8888
1993	100.0%	-	8887
1994	100.0%	0.0%	8887
1995	100.0%	0.0%	8887
1996	99.9%	0.1%	8888
1997	99.9%	0.1%	8888
1998	99.9%	0.1%	8888
1999	99.9%	0.1%	8888
2000	99.9%	0.1%	8888
2001	99.9%	0.1%	8888
2002	99.8%	0.2%	8890
2003	99.8%	0.2%	8890
2004	99.9%	0.1%	8888
2005	99.7%	0.3%	8891
2006	99.6%	0.4%	8892
2007	99.9%	0.1%	8888
2008	99.9%	0.1%	8888
2009	99.5%	0.5%	8893
2010	99.3%	0.7%	8896
2011	99.2%	0.8%	8897
2012	99.2%	0.8%	8897

V. Fuel Economy Trends by Vehicle Type, Size, and Weight

Figure 8 shows production share trends by vehicle type. Of the six vehicle classes shown—cars, wagons, non-truck SUVs, truck SUVs, vans, and pickups—the biggest overall increase in production share since 1975 has been for the two categories of SUVs, which, combined, increased from less than two percent in MY 1975 to nearly 30% in MY 2012. The biggest overall decrease has been for cars, down from 71% of the fleet in MY 1975 to about 50% in MY 2012.

Figure 9 (size within vehicle type) and Table 7 (across the entire market) compares production fractions by vehicle type and size with the fleet again stratified into six vehicle types (cars, station wagons, non-truck SUVs, vans, truck SUVs, and pickup trucks) and three vehicle sizes (small, midsize, and large). Small cars have historically been the leading segment, but midsize cars now have a similar share. Wagons have decreased from about 10% of production in MY 1975 to about 3% of production today, almost exclusively small wagons.

Since 1975, the largest increases in production fractions have been for SUVs. Truck SUVs and non-truck SUVs (those now classified as cars for regulatory purposes) are expected to account for nearly 30% of all light vehicles sold in MY 2012, compared to combined totals of about 2% in MY 1975 and 6% in MY 1988, respectively. Minivans and vans, whose popularity peaked in the 1990s, now account for about 5% of production, similar to MY 1975 levels. Almost all of the vans sold today are midsize minivans. Pickups are now almost exclusively large pickups.

Figure 8

Production Share by Vehicle Type

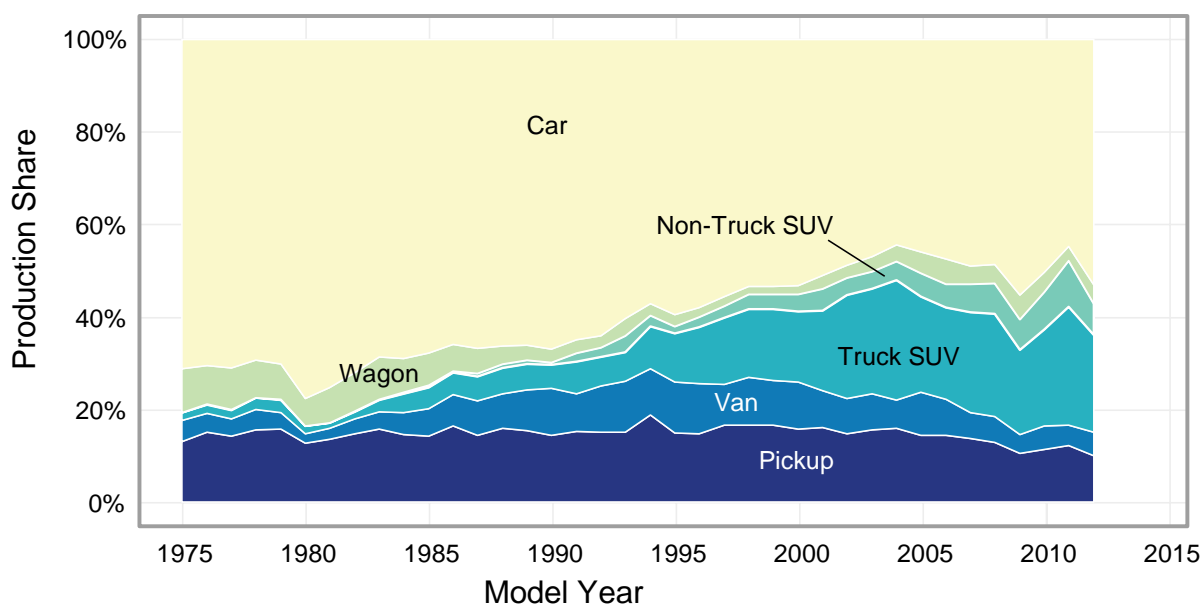


Figure 9

Production Share by Vehicle Size

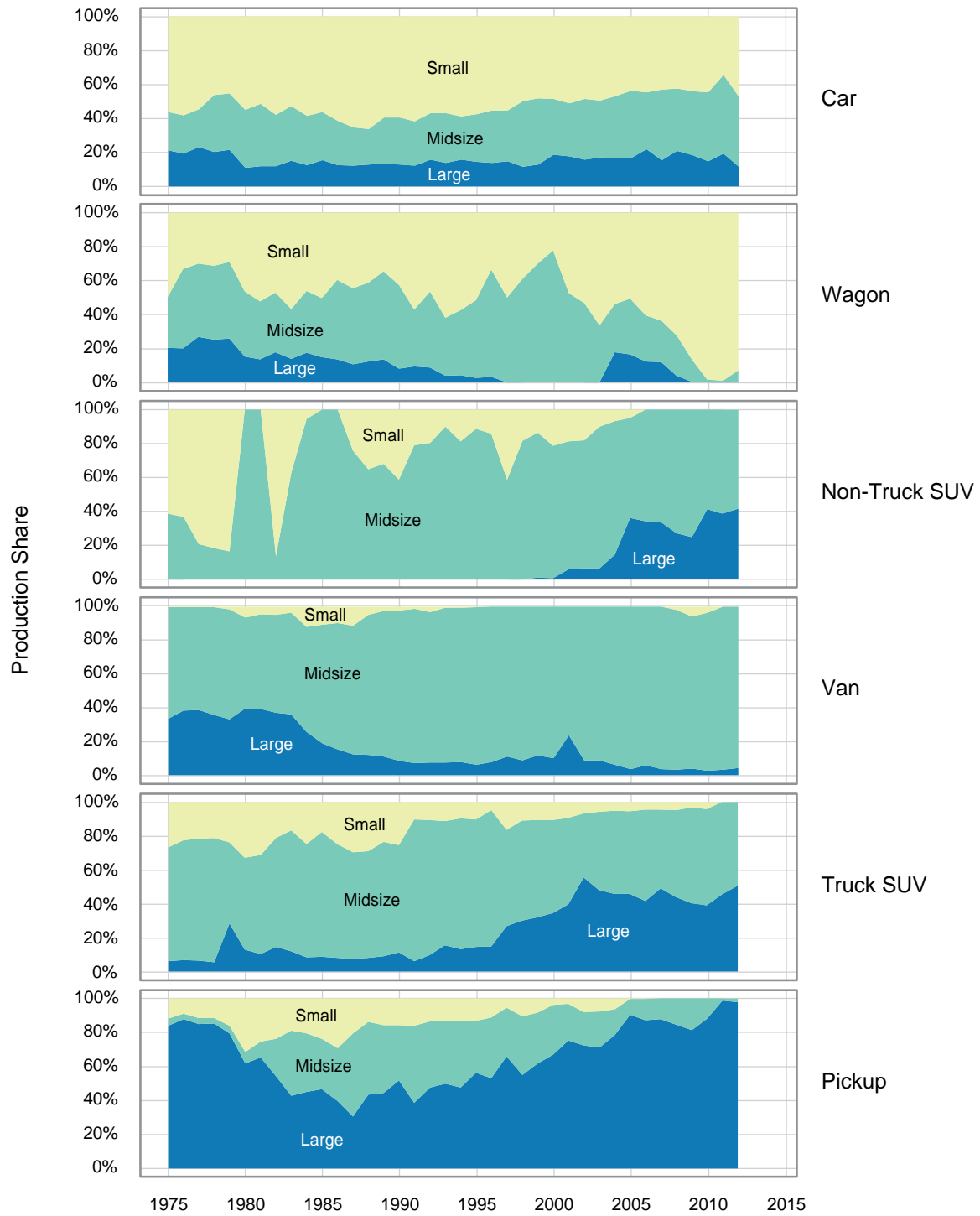


Table 7**Production Shares of MY 1975, 1988, and 2012 by Vehicle Size and Type**

Vehicle Type	Size	1975	1988	2012	Difference 1975 to 2012	Difference 1975 to 1988	Difference 1988 to 2012
Car	Small	40.0%	43.8%	25.1%	-14.9%	3.9%	-18.7%
Car	Midsize	16.0%	13.8%	21.7%	5.8%	-2.1%	7.9%
Car	Large	15.2%	8.5%	6.2%	-9.0%	-6.7%	-2.3%
Car	All	71.1%	66.2%	53.1%	-18.0%	-5.0%	-13.1%
Wagon	Small	4.7%	1.7%	3.6%	-1.0%	-3.0%	2.0%
Wagon	Midsize	2.8%	1.9%	0.3%	-2.5%	-1.0%	-1.6%
Wagon	Large	1.9%	0.5%	-	-1.9%	-1.4%	-0.5%
Wagon	All	9.4%	4.0%	3.9%	-5.5%	-5.4%	-0.1%
Non-Truck SUV	Small	0.1%	0.3%	-	-0.1%	0.2%	-0.3%
Non-Truck SUV	Midsize	0.0%	0.5%	4.0%	4.0%	0.4%	3.5%
Non-Truck SUV	Large	-	-	2.9%	2.9%	-	2.9%
Non-Truck SUV	All	0.1%	0.7%	6.8%	6.7%	0.6%	6.1%
Van	Small	0.0%	0.4%	-	0.0%	0.3%	-0.4%
Van	Midsize	3.0%	6.2%	4.9%	2.0%	3.2%	-1.2%
Van	Large	1.5%	0.9%	0.2%	-1.3%	-0.6%	-0.7%
Van	All	4.5%	7.4%	5.1%	0.7%	2.9%	-2.3%
Truck SUV	Small	0.5%	1.6%	-	-0.5%	1.2%	-1.6%
Truck SUV	Midsize	1.2%	3.5%	10.3%	9.2%	2.4%	6.8%
Truck SUV	Large	0.1%	0.5%	10.6%	10.5%	0.3%	10.2%
Truck SUV	All	1.7%	5.6%	21.0%	19.2%	3.9%	15.3%
Pickup	Small	1.6%	2.2%	-	-1.6%	0.7%	-2.2%
Pickup	Midsize	0.5%	6.9%	0.2%	-0.3%	6.3%	-6.7%
Pickup	Large	11.0%	7.0%	9.8%	-1.2%	-4.1%	2.8%
Pickup	All	13.1%	16.1%	10.0%	-3.1%	2.9%	-6.1%
All Trucks		19.3%	29.1%	36.1%	16.8%	9.8%	7.0%

Figure 10 shows annual trends in adjusted fuel economy, weight, and performance for cars, wagons, non-truck SUVs, vans, truck SUVs, and pickups. For all six vehicle types, the recent trends, since 2005, have been increasing fuel economy, fairly stable weight, and decreasing 0-60 acceleration time (or increased performance).

Table 8 shows the lowest, average, and highest adjusted mpg performance by vehicle type and size for three selected years. For both MY 1988 and 2012, the mpg performance is such that the midsize vehicles in all vehicle type/size combinations have better fuel economy than the corresponding entry for small vehicles in 1975. In Table 9, the percentage changes obtainable from the entries in Table 8 are presented. Average mpg for several vehicle type/size combinations has more than doubled since 1975. Tables 10 and 11 present this same data in terms of fuel consumption.

Figure 10

Fuel Economy and Performance by Vehicle Type

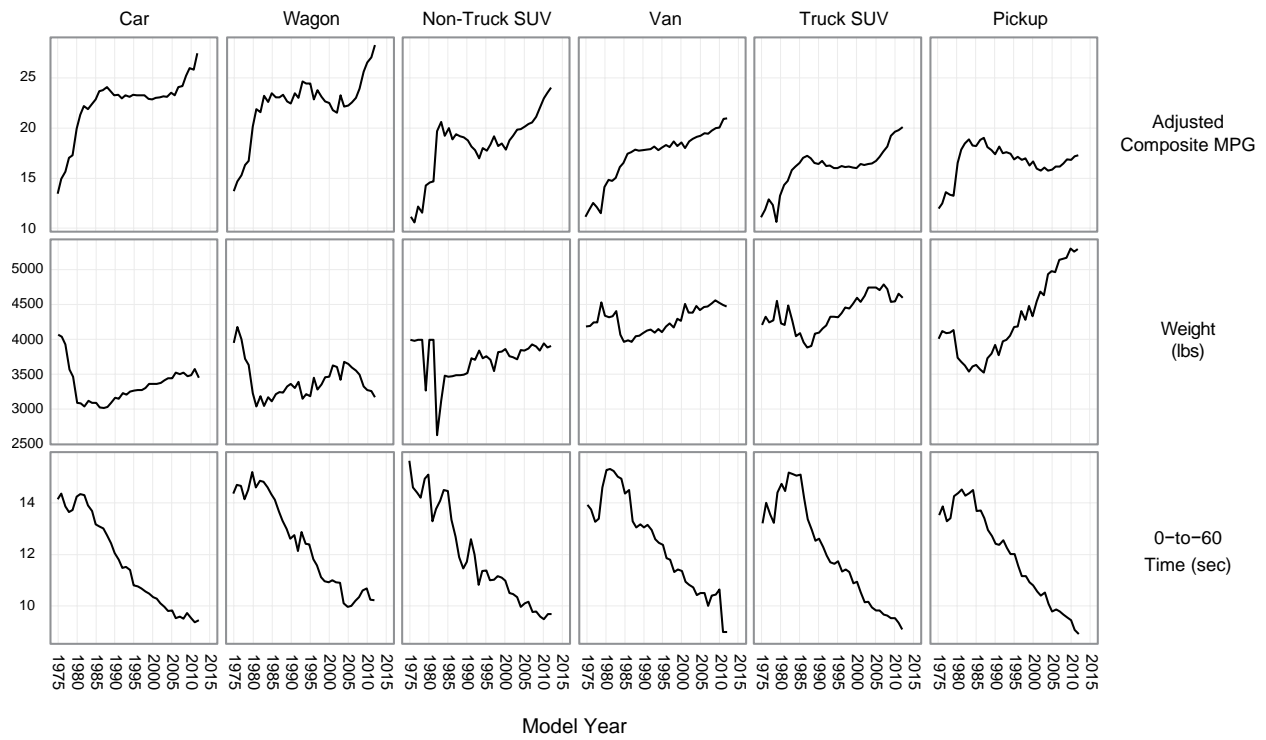


Table 8**Lowest, Average, and Highest Adjusted Fuel Economy by Vehicle Type and Size**

Car or Truck	Vehicle Type	Size	1975 Low	1975 Average	1975 High	1988 Low	1988 Average	1988 High	2012 Low	2012 Average	2012 High
Car	Car	Small	8.6	15.6	28.3	7.5	25.7	54.4	11.2	28.8	48.8
Car	Car	Midsize	8.6	11.6	18.4	10.5	22.6	27.7	13.3	27.5	49.3
Car	Car	Large	8.4	11.2	14.6	10.0	20.6	26.0	12.7	24.2	28.9
Car	Car	All	8.4	13.4	28.3	7.5	24.2	54.4	11.2	27.7	49.3
Car	Wagon	Small	11.8	19.1	24.1	17.1	26.3	33.2	14.9	27.5	35.6
Car	Wagon	Midsize	8.4	11.3	25.0	17.5	22.2	27.7	19.1	40.4	41.6
Car	Wagon	Large	8.4	10.2	12.8	19.2	19.4	19.4	-	-	-
Car	Wagon	All	8.4	13.8	25.0	17.1	23.3	33.2	14.9	28.2	41.6
Car	Non-Truck SUV	Small	10.2	10.2	10.2	18.6	19.4	20.3	-	-	-
Car	Non-Truck SUV	Midsize	11.1	12.9	18.4	17.2	19.2	23.6	18.9	24.3	31.9
Car	Non-Truck SUV	Large	-	-	-	-	-	NA	18.3	23.9	27.0
Car	Non-Truck SUV	All	10.2	11.1	18.4	17.2	19.2	23.6	18.3	24.1	31.9
Truck	Van	Small	16.2	17.5	18.5	15.5	20.6	25.0	-	-	-
Truck	Van	Midsize	8.2	11.3	18.4	11.3	18.4	23.4	15.1	21.4	24.2
Truck	Van	Large	8.9	10.7	14.5	10.0	14.3	16.8	11.5	15.3	17.4
Truck	Van	All	8.2	11.1	18.5	10.0	17.9	25.0	11.5	21.1	24.2
Truck	Truck SUV	Small	12.8	14.3	16.3	15.6	20.5	27.8	-	-	-
Truck	Truck SUV	Midsize	8.2	10.2	16.7	10.2	16.2	22.4	14.3	21.9	28.5
Truck	Truck SUV	Large	7.9	10.3	13.7	12.2	14.0	18.8	12.7	18.8	25.0
Truck	Truck SUV	All	7.9	11.0	16.7	10.2	17.0	27.8	12.7	20.2	28.5
Truck	Pickup	Small	13.0	19.2	20.8	13.3	21.0	24.6	-	-	-
Truck	Pickup	Midsize	17.8	17.9	18.0	15.3	21.3	25.9	17.7	21.1	21.8
Truck	Pickup	Large	7.6	11.1	18.5	9.8	15.2	21.0	13.6	17.2	22.7
Truck	Pickup	All	7.6	11.9	20.8	9.8	18.1	25.9	13.6	17.3	22.7
Car	All	All	8.4	13.5	28.3	7.5	24.1	54.4	11.2	27.3	49.3
Truck	All	All	7.6	11.6	20.8	9.8	17.8	27.8	11.5	19.4	28.5
Fleet	All	All	7.6	13.1	28.3	7.5	21.9	54.4	11.2	23.8	49.3

Table 9

**Percent Change in Lowest, Average, and Highest Adjusted Fuel Economy
by Vehicle Type and Size**

Car or Truck	Vehicle Type	Size	1975 to 2012 Low	1975 to 2012 Average	1975 to 2012 High	1975 to 1988 Low	1975 to 1988 Average	1975 to 1988 High	1988 to 2012 Low	1988 to 2012 Average	1988 to 2012 High
Car	Car	Small	30%	85%	72%	-13%	65%	92%	49%	12%	-10%
Car	Car	Midsize	55%	137%	168%	22%	95%	51%	27%	22%	78%
Car	Car	Large	51%	116%	98%	19%	84%	78%	27%	17%	11%
Car	Car	All	33%	107%	74%	-11%	81%	92%	49%	14%	-9%
Car	Wagon	Small	26%	44%	48%	45%	38%	38%	-13%	5%	7%
Car	Wagon	Midsize	127%	258%	66%	108%	96%	11%	9%	82%	50%
Car	Wagon	Large	-	-	-	129%	90%	52%	-	-	-
Car	Wagon	All	77%	104%	66%	104%	69%	33%	-13%	21%	25%
Car	Non-Truck SUV	Small	-	-	-	82%	90%	99%	-	-	-
Car	Non-Truck SUV	Midsize	70%	88%	73%	55%	49%	28%	10%	27%	35%
Car	Non-Truck SUV	Large	-	-	-	-	-	-	-	-	-
Car	Non-Truck SUV	All	79%	117%	73%	69%	73%	28%	6%	26%	35%
Truck	Van	Small	-	-	-	-4%	18%	35%	-	-	-
Truck	Van	Midsize	84%	89%	32%	38%	63%	27%	34%	16%	3%
Truck	Van	Large	29%	43%	20%	12%	34%	16%	15%	7%	4%
Truck	Van	All	40%	90%	31%	22%	61%	35%	15%	18%	-3%
Truck	Truck SUV	Small	-	-	-	22%	43%	71%	-	-	-
Truck	Truck SUV	Midsize	74%	115%	71%	24%	59%	34%	40%	35%	27%
Truck	Truck SUV	Large	61%	83%	82%	54%	36%	37%	4%	34%	33%
Truck	Truck SUV	All	61%	84%	71%	29%	55%	66%	25%	19%	3%
Truck	Pickup	Small	-	-	-	2%	9%	18%	-	-	-
Truck	Pickup	Midsize	-1%	18%	21%	-14%	19%	44%	16%	-1%	-16%
Truck	Pickup	Large	79%	55%	23%	29%	37%	14%	39%	13%	8%
Truck	Pickup	All	79%	45%	9%	29%	52%	25%	39%	-4%	-12%
Car	All	All	33%	102%	74%	-11%	79%	92%	49%	13%	-9%
Truck	All	All	51%	67%	37%	29%	53%	34%	17%	9%	3%
Fleet	All	All	47%	82%	74%	-1%	67%	92%	49%	9%	-9%

Table 10**Adjusted Fuel Consumption (Gal./100 miles) by Vehicle Type and Size**

Car or Truck	Vehicle Type	Size	1975 High	1975 Average	1975 Low	1988 High	1988 Average	1988 Low	2012 High	2012 Average	2012 Low
Car	Car	Small	11.6	6.4	3.5	13.3	3.9	1.8	8.9	3.5	2.0
Car	Car	Midsize	11.6	8.6	5.4	9.5	4.4	3.6	7.5	3.6	2.0
Car	Car	Large	11.9	8.9	6.8	10.0	4.9	3.8	7.9	4.1	3.5
Car	Car	All	11.9	7.5	3.5	13.3	4.1	1.8	8.9	3.6	2.0
Car	Wagon	Small	8.5	5.2	4.1	5.8	3.8	3.0	6.7	3.6	2.8
Car	Wagon	Midsize	11.9	8.8	4.0	5.7	4.5	3.6	5.2	2.5	2.4
Car	Wagon	Large	11.9	9.8	7.8	5.2	5.2	5.2	-	-	-
Car	Wagon	All	11.9	7.2	4.0	5.8	4.3	3.0	6.7	3.5	2.4
Car	Non-Truck SUV	Small	9.8	9.8	9.8	5.4	5.2	4.9	-	-	-
Car	Non-Truck SUV	Midsize	9.0	7.8	5.4	5.8	5.2	4.2	5.3	4.1	3.1
Car	Non-Truck SUV	Large	-	-	-	-	-	-	5.5	4.2	3.7
Car	Non-Truck SUV	All	9.8	9.0	5.4	5.8	5.2	4.2	5.5	4.1	3.1
Truck	Van	Small	6.2	5.7	5.4	6.5	4.9	4.0	-	-	-
Truck	Van	Midsize	12.2	8.8	5.4	8.8	5.4	4.3	6.6	4.7	4.1
Truck	Van	Large	11.2	9.3	6.9	10.0	7.0	6.0	8.7	6.5	5.7
Truck	Van	All	12.2	9.0	5.4	10.0	5.6	4.0	8.7	4.7	4.1
Truck	Truck SUV	Small	7.8	7.0	6.1	6.4	4.9	3.6	-	-	-
Truck	Truck SUV	Midsize	12.2	9.8	6.0	9.8	6.2	4.5	7.0	4.6	3.5
Truck	Truck SUV	Large	12.7	9.7	7.3	8.2	7.1	5.3	7.9	5.3	4.0
Truck	Truck SUV	All	12.7	9.1	6.0	9.8	5.9	3.6	7.9	5.0	3.5
Truck	Pickup	Small	7.7	5.2	4.8	7.5	4.8	4.1	-	-	-
Truck	Pickup	Midsize	5.6	5.6	5.6	6.5	4.7	3.9	5.6	4.7	4.6
Truck	Pickup	Large	13.2	9.0	5.4	10.2	6.6	4.8	7.4	5.8	4.4
Truck	Pickup	All	13.2	8.4	4.8	10.2	5.5	3.9	7.4	5.8	4.4
Car	All	All	11.9	7.4	3.5	13.3	4.1	1.8	8.9	3.7	2.0
Truck	All	All	13.2	8.6	4.8	10.2	5.6	3.6	8.7	5.2	3.5
Fleet	All	All	13.2	7.6	3.5	13.3	4.6	1.8	8.9	4.2	2.0

Table 11

Percent Change* in Adjusted Fuel Consumption by Vehicle Type and Size

Car or Truck	Vehicle Type	Size	1975 to	1975 to	1975 to	1975 to	1975 to	1975	1988	1988 to	1988
			2012	2012	2012	1988	1988	to	to	2012	to
			High	Average	Low	High	Average	Low	High	Average	Low
Car	Car	Small	23%	45%	43%	-15%	39%	49%	33%	10%	-11%
Car	Car	Midsize	35%	58%	63%	18%	49%	33%	21%	18%	44%
Car	Car	Large	34%	54%	49%	16%	45%	44%	21%	16%	8%
Car	Car	All	25%	52%	43%	-12%	45%	49%	33%	12%	-11%
Car	Wagon	Small	21%	31%	32%	32%	27%	27%	-16%	5%	7%
Car	Wagon	Midsize	56%	72%	40%	52%	49%	10%	9%	44%	33%
Car	Wagon	Large	-	-	-	56%	47%	33%	-	-	-
Car	Wagon	All	44%	51%	40%	51%	40%	25%	-16%	19%	20%
Car	Non-Truck SUV	Small	-	-	-	45%	47%	50%	-	-	-
Car	Non-Truck SUV	Midsize	41%	47%	43%	36%	33%	22%	9%	21%	26%
Car	Non-Truck SUV	Large	-	-	-	-	-	-	-	-	-
Car	Non-Truck SUV	All	44%	54%	43%	41%	42%	22%	5%	21%	26%
Truck	Van	Small	-	-	-	-5%	14%	26%	-	-	-
Truck	Van	Midsize	46%	47%	24%	28%	39%	20%	25%	13%	5%
Truck	Van	Large	22%	30%	17%	11%	25%	13%	13%	7%	5%
Truck	Van	All	29%	48%	24%	18%	38%	26%	13%	16%	-2%
Truck	Truck SUV	Small	-	-	-	18%	30%	41%	-	-	-
Truck	Truck SUV	Midsize	43%	53%	42%	20%	37%	25%	29%	26%	22%
Truck	Truck SUV	Large	38%	45%	45%	35%	27%	27%	4%	25%	25%
Truck	Truck SUV	All	38%	45%	42%	23%	35%	40%	19%	15%	3%
Truck	Pickup	Small	-	-	-	3%	8%	15%	-	-	-
Truck	Pickup	Midsize	0%	16%	18%	-16%	16%	30%	14%	0%	-18%
Truck	Pickup	Large	44%	36%	19%	23%	27%	11%	27%	12%	8%
Truck	Pickup	All	44%	31%	8%	23%	35%	19%	27%	-5%	-13%
Car	All	All	25%	50%	43%	-12%	45%	49%	33%	10%	-11%
Truck	All	All	34%	40%	27%	23%	35%	25%	15%	7%	3%
Fleet	All	All	33%	45%	43%	-1%	39%	49%	33%	9%	-11%

*Note: A negative change indicates that fuel consumption has increased.

Cars and light trucks with conventional drive trains have a fuel consumption and weight relationship which is well known and is shown in Figure 11. Fuel consumption increases linearly with weight. Because vehicles with different propulsion systems (i.e., diesels and hybrids) occupy a different place on such a fuel consumption and weight plot, the data for hybrid and diesel vehicles are plotted separately and excluded from the trend lines shown on the graphs. At constant weight, MY 2012 cars consume about 40% less fuel per mile than their MY 1975 counterparts.

On this same constant weight basis, this year's vehicles with diesel engines consume 20-30% less fuel than the conventionally powered ones, while this year's hybrid vehicles are about 20-60% better. Similarly, at constant weight this year's conventionally powered trucks achieve about 50% better fuel consumption than MY 1975 vehicles did.

Figure 11

Laboratory 55/45 Fuel Consumption vs. Vehicle Weight, MY 1975 and MY 2012

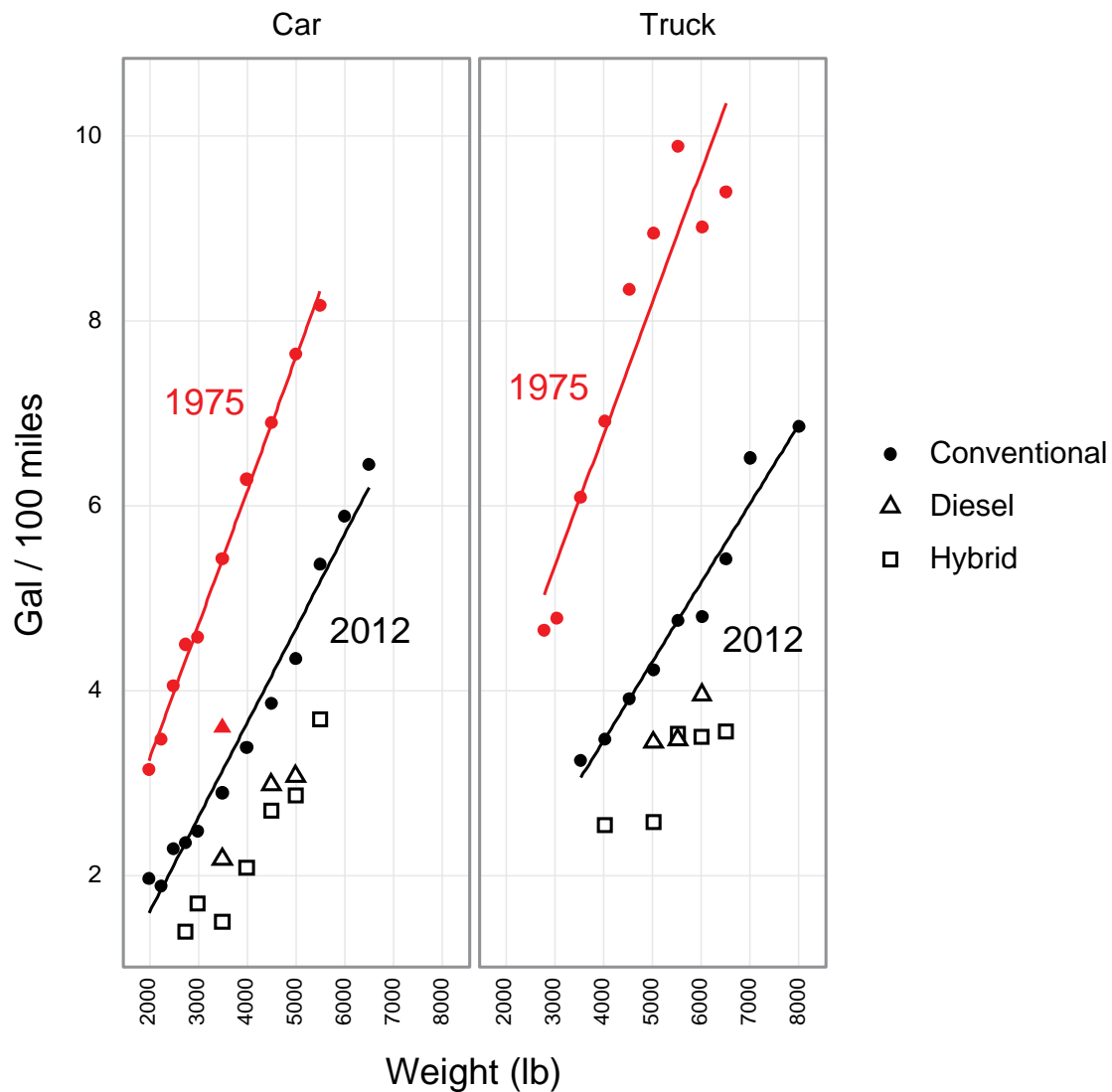


Figure 12 shows that the relationship between interior volume and fuel consumption is currently not as important as in the past. The data points on both of these graphs exclude two seaters and represent production weighted average fuel consumption calculated at increments of 1.0 cu. ft. As was done for Figure 11, the data points for hybrid and diesel vehicles were plotted separately from those for the conventionally powered vehicles.

Figure 12

Laboratory 55/45 Fuel Consumption vs. Interior Volume, MY 1978 and MY 2012 Cars

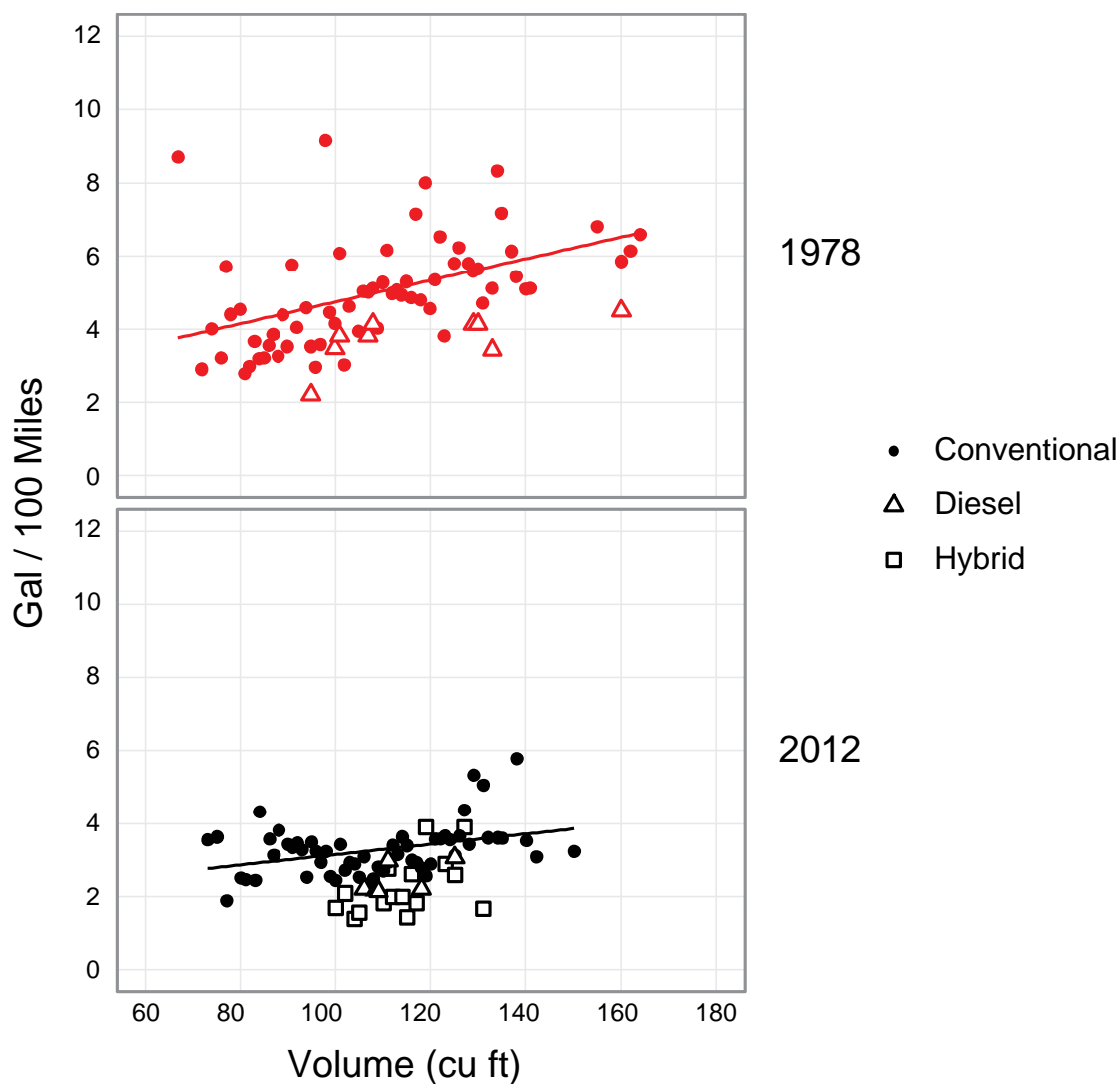


Figure 13 shows laboratory 55/45 fuel consumption versus footprint for MY 2012 cars and trucks, respectively, again with the regression lines excluding the hybrid and diesel data points. Car fuel consumption is more sensitive to footprint than truck fuel consumption. Most cars have footprint values below 50 square feet, and at these footprint levels cars generally have lower fuel consumption than trucks. For the much smaller number of cars that have footprint levels greater than 55 square feet (often high performance cars), these cars generally have higher fuel consumption than trucks of the same footprint.

Figure 13

Laboratory 55/45 Fuel Consumption vs. Footprint, MY 2012 Vehicles

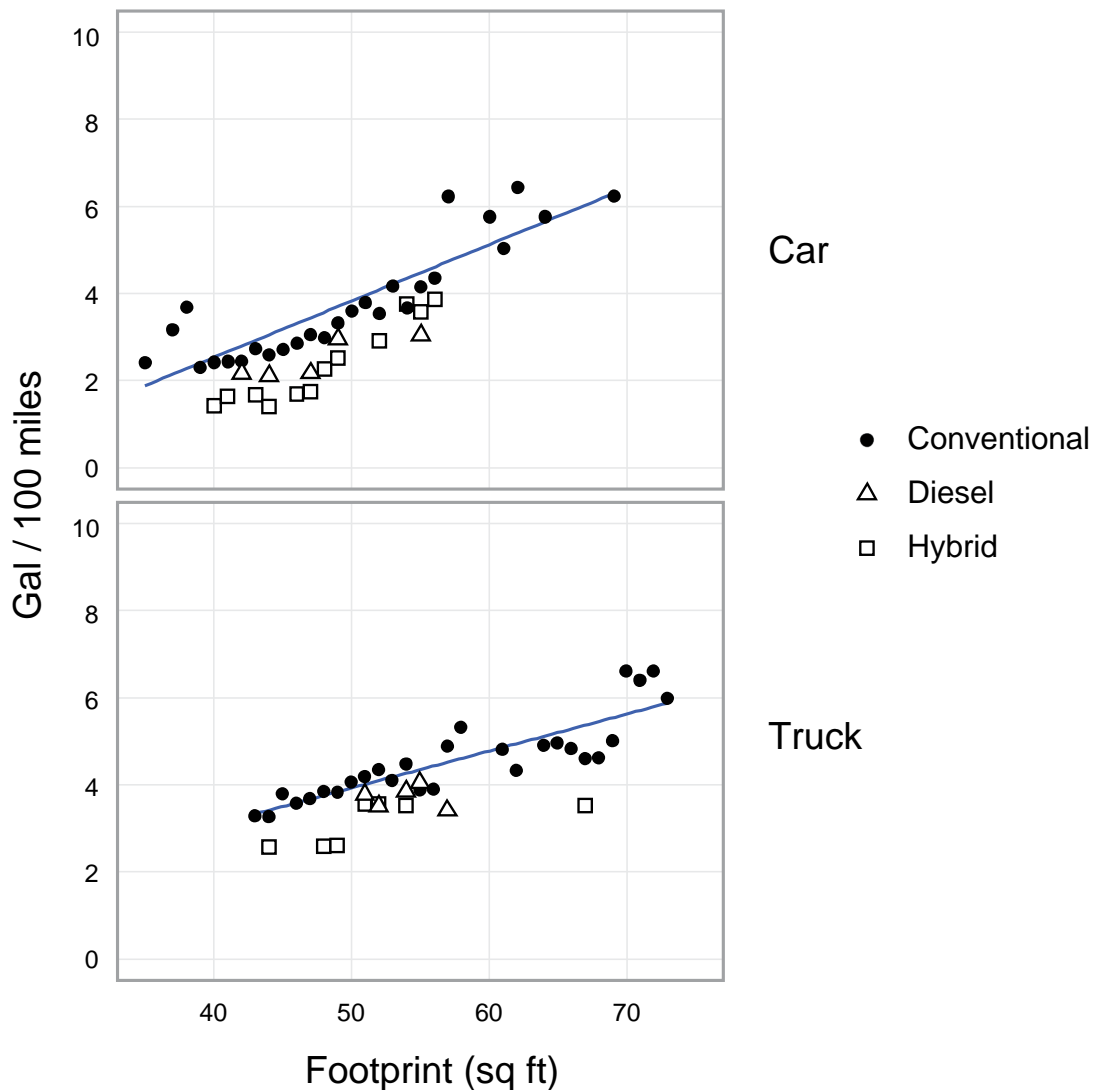


Figure 14 shows the improvement that occurred between MY 1975 and 2012 for fuel consumption as a function of 0-to-60 acceleration time for cars and trucks.

Figure 14
Laboratory 55/45 Fuel Consumption vs. 0-to-60 Time, MY 1975 and MY 2012 Vehicles

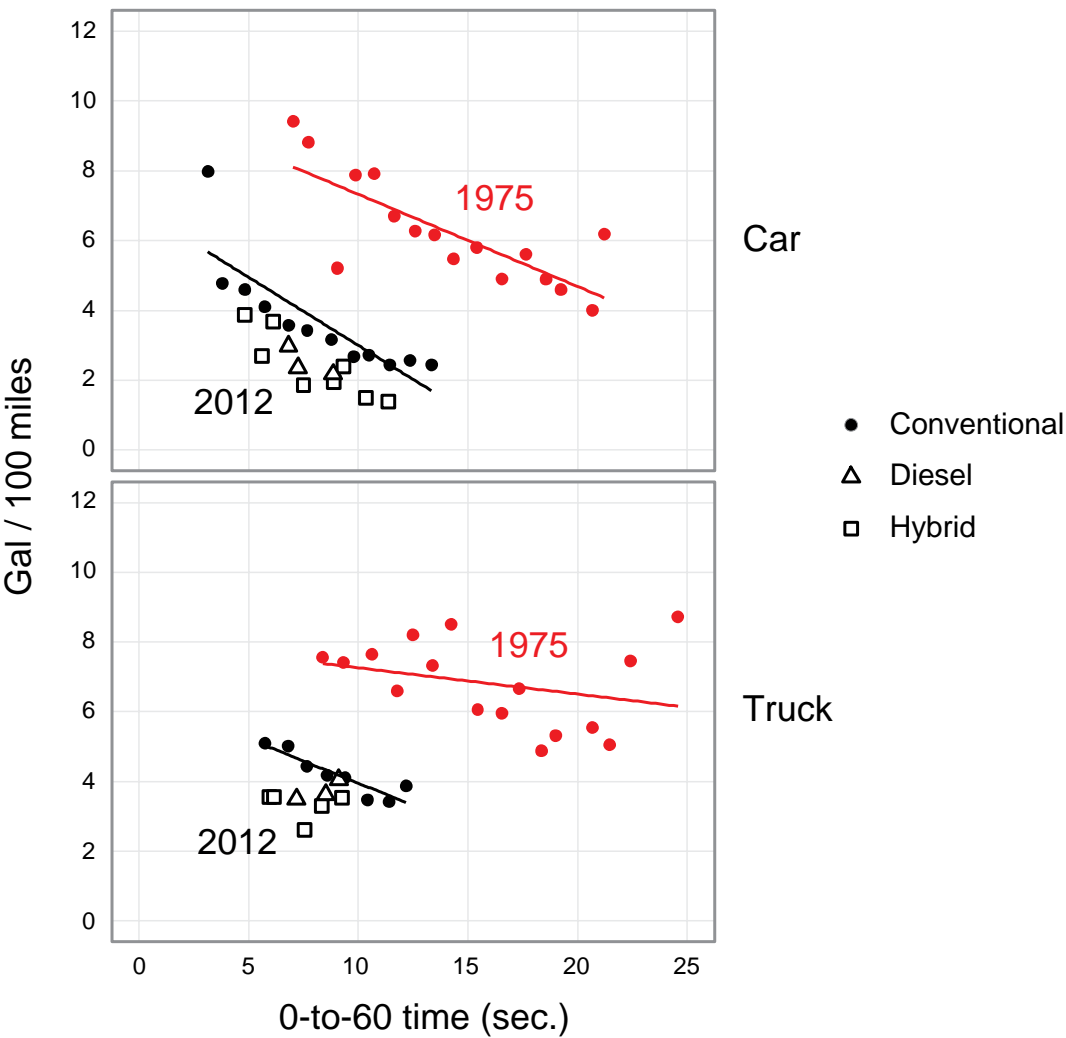


Figure 15 compares Ton-MPG data versus 0-to-60 time and shows that at constant vehicle performance, there has been substantial improvement in Ton-MPG.

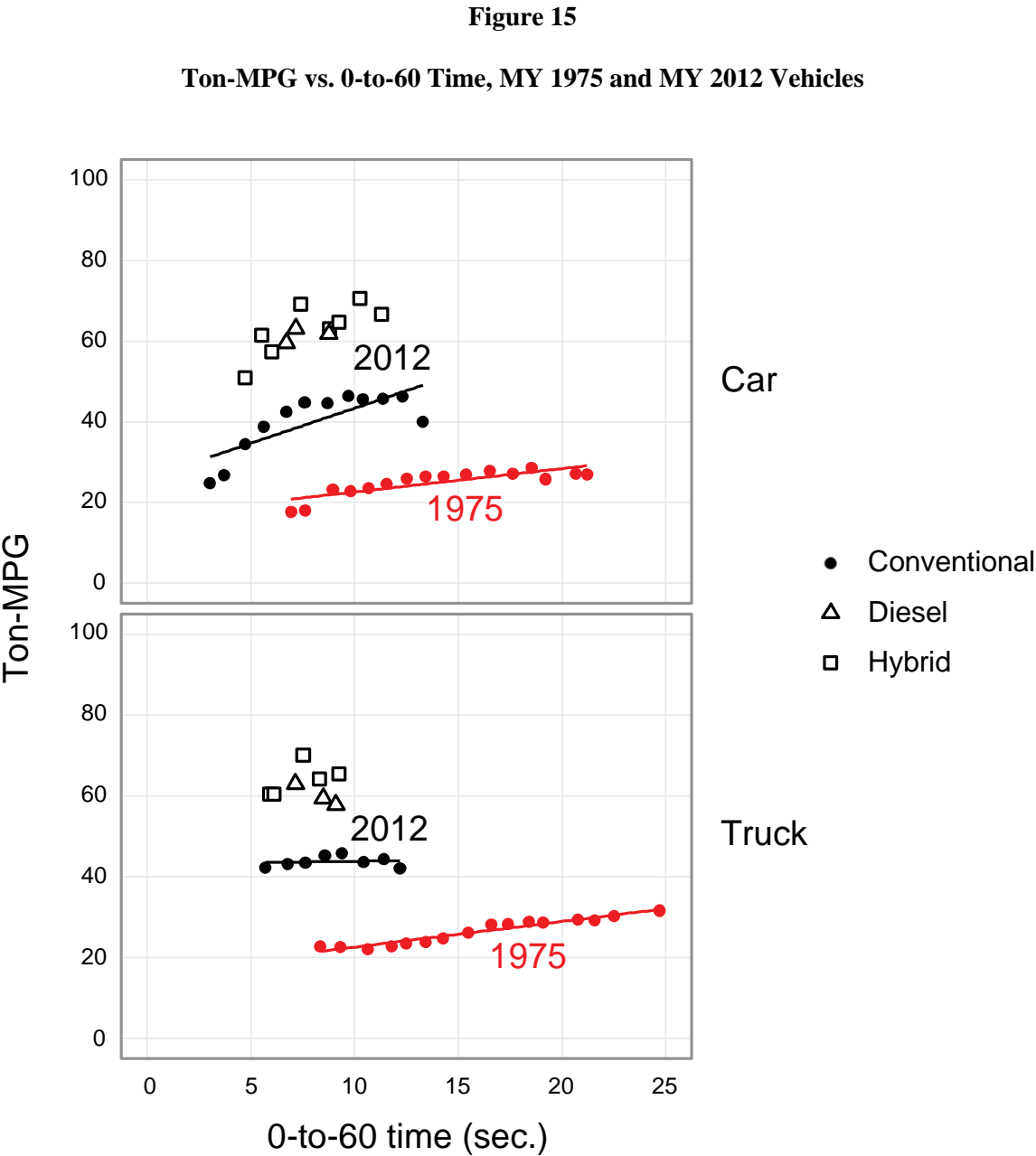


Figure 16 and Table 12 show some of the changes in the distribution of weight that have occurred over the years for the light-duty fleet. In MY 1975, 13% of all light-duty vehicles had weights of less than 3000 lb compared to less than 5% in MY 2012. Since MY 1988, production share for vehicles with weights of 5000 pounds or more has increased from 3% to 18%.

Figure 16

Distribution of Light Vehicle Weight for Three Model Years

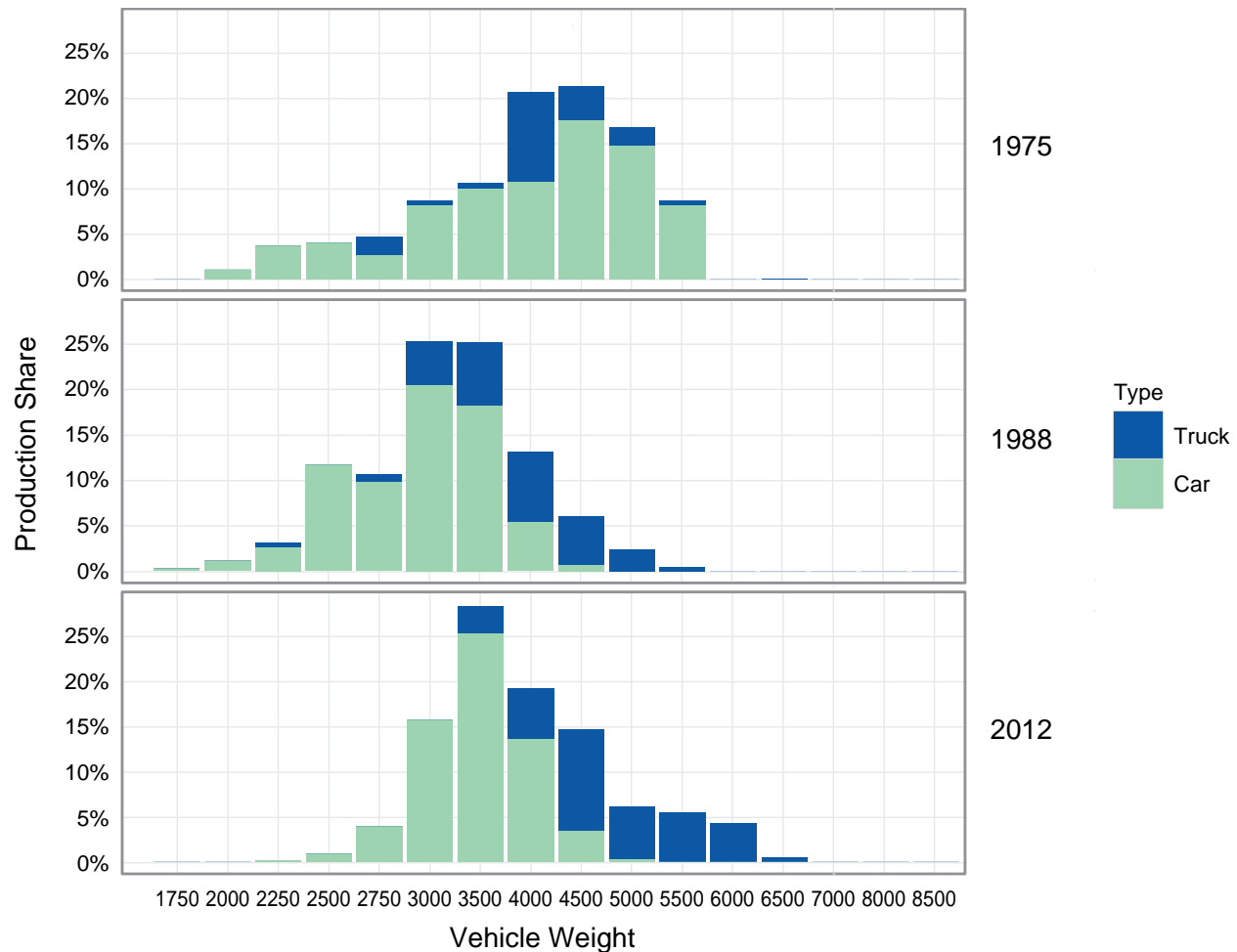


Figure 17 provides data for the annual production share of different weight classes for cars and trucks. In MY 1975, about one-half of the cars were in weight classes greater than 4000 pounds, compared to about 5% this year. For MY 2012, three weight classes (3000, 3500, and 4000 lbs.) account for over 90% of all cars. Conversely, the production share of trucks in the weight classes of 4500 lb. and above have increased substantially, and these vehicles currently account for about 80% of all trucks, compared to about 40% in 1975. Figure 18 provides additional details of the truck data presented in Figure 17 for vans, SUVs, and pickups, respectively. Appendices D, E, and F contain a series of tables describing light-duty vehicles at the vehicle size/type level of stratification in more detail; Appendix G provides similar data by vehicle type and weight class.

Table 12

Light Vehicle Production Share by Weight Class for Three Model Years

Weight (lb)	MY 1975	MY 1988	MY 2012
<3000	13.4%	27.2%	5.0%
3000	8.7%	25.4%	15.8%
3500	10.6%	25.2%	28.5%
4000	20.6%	13.2%	19.4%
4500	21.3%	6.0%	14.8%
5000	16.7%	2.4%	6.2%
5500	8.7%	0.5%	5.5%
>5500	0.0%	0.0%	4.8%
Avg Wt	4060	3283	3950

Figure 17

Production Share by Vehicle Weight Class

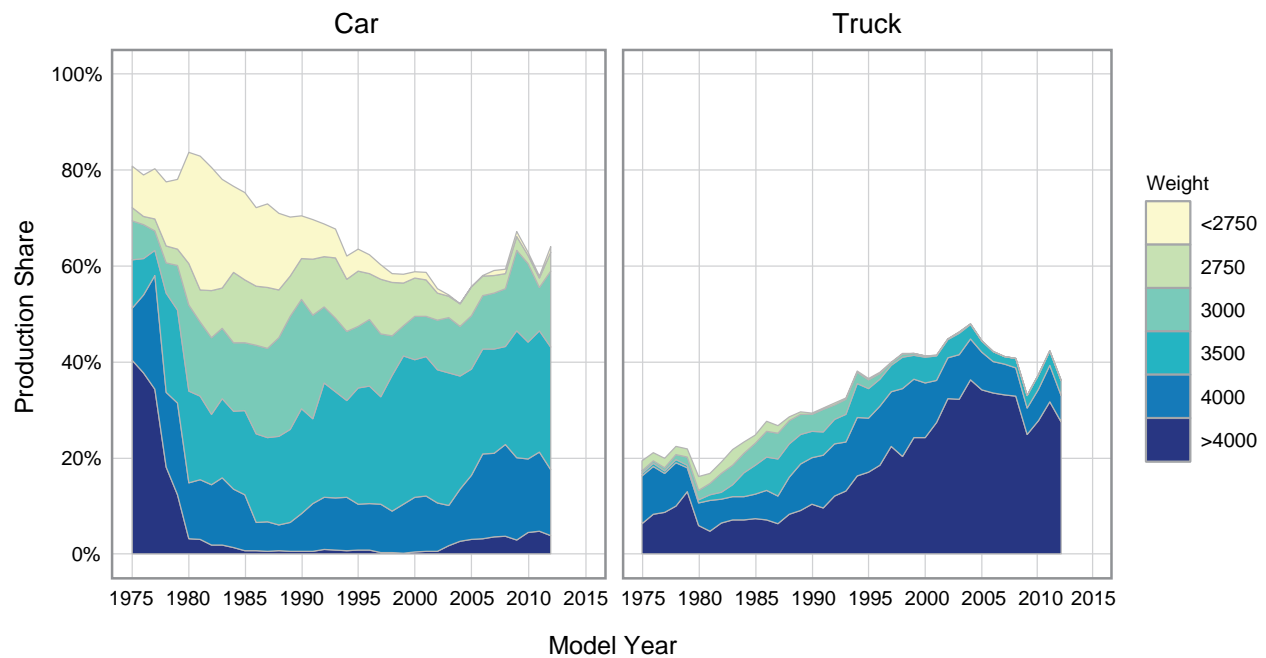
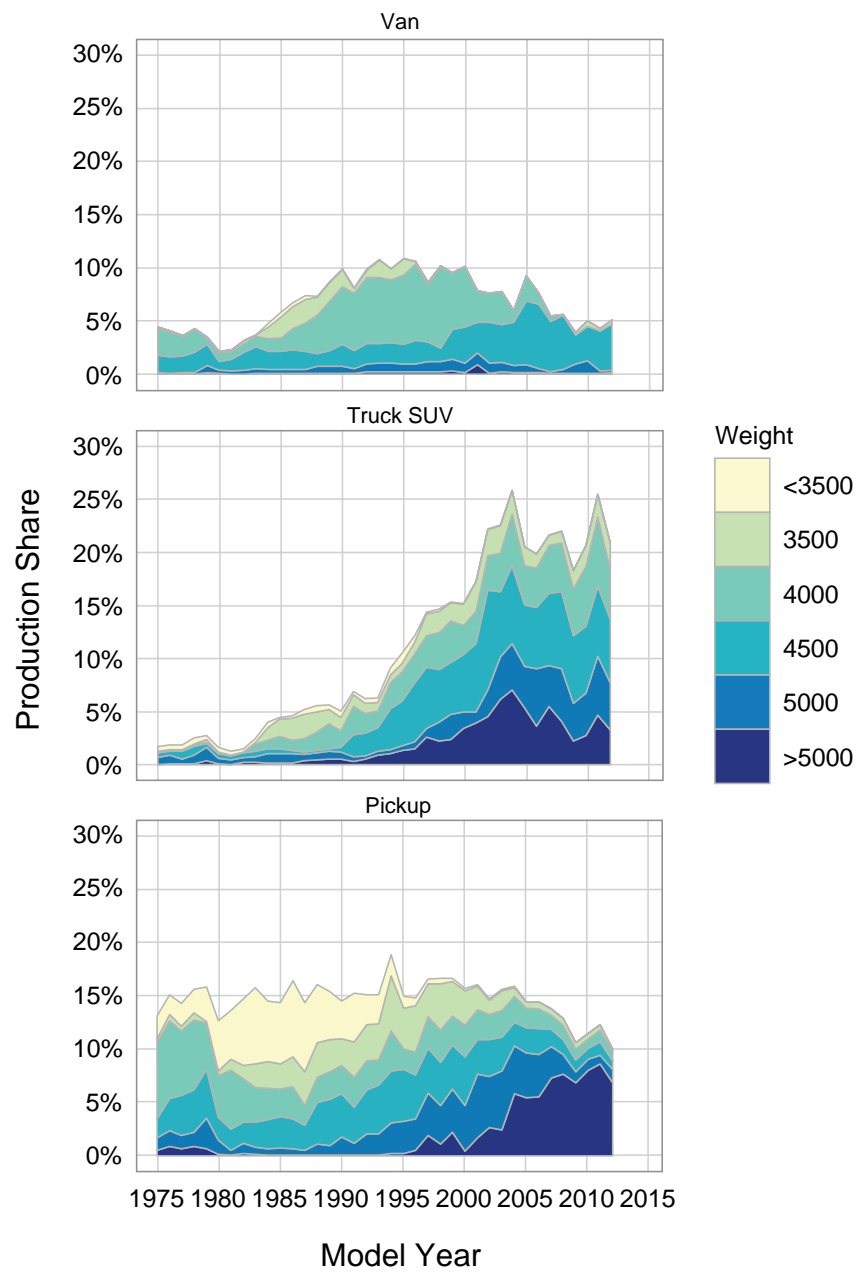


Figure 18

Production Share by Truck Type and Weight Class



VI. Fuel Economy Powertrain Technology Trends

Table 13 presents an overview of key engine technology trends for the MY 1975-2012 database. Conventional gasoline vehicles continue to account for 95% of all light-duty vehicles. While engine size has been relatively stable for over 30 years, overall engine horsepower has consistently increased, with the notable exception of MY 2009. Nearly all engines now have multiple valves (91%) and variable valve timing (projected to exceed 95%). One very important trend is the recent introduction of several new engine technologies. For example, gasoline direct injection engine production share has increased from essentially zero in MY 2007 to 15% in MY 2011, and is projected to be more than 20% in MY 2012. The use of cylinder deactivation has increased to almost 10% of all engines in MY 2011. The use of boost technologies - turbocharging or supercharging - had been in the 2-4% range from MY 1998-2010, but increased to 7% in MY 2011 and are projected to increase to 9% in MY 2012. Appendix K contains additional data on fuel metering and number of valves per cylinder.

Table 14 presents an overview of key transmission and drive technology trends for MY 1975-2012. The data in this table suggest two important trends with respect to transmission design. One, the use of continuously variable transmissions has increased significantly in recent years, growing from nearly zero in 2002 to over 10% of the fleet. The second trend is an increase in the number of transmission gears. The average number of gears has grown from 4 throughout the 1990s to 5.6 in MY 2011, and is projected to be 5.7 in MY 2012. The use of 6-gear transmissions has exploded from less than 5% in 2005 to over 50% in MY 2011 and is projected to exceed 58% in MY 2012. Figure 19 shows the same transmission data in graphical format. More data stratified by transmission type can be found in Appendix I. With respect to drive technologies, the market seems to have approximately stabilized, with about 60% front wheel drive, 15% rear wheel drive, and 25% four wheel drive.

In addition to CVTs, new transmission technologies such as dual clutch transmissions (DCTs) are being introduced into the market. DCTs are essentially automatic transmissions that take advantage of the characteristics of manual transmissions. While characterized as automatic transmissions for this report, DCTs do not have the lock-up torque converter found on nearly all modern automatic transmissions. Currently, automaker submissions to EPA do not explicitly identify DCTs as a separate category. Thus, the introduction of DCTs shows up in Table 14 as a slight increase in automatic transmissions without torque converters (although some DCTs may still be reported as traditional automatic transmissions). EPA intends to further investigate the introduction of DCTs as more explicit data becomes available.

The rest of this section examines the engine, transmission, and drive trends in Tables 13 and 14 in more detail.

Table 15 disaggregates some of the engine and transmission technologies for MY 2012 by vehicle type and size. As discussed earlier, wheelbase is used in this report to distinguish whether a truck is small, mid-size, or large, and four EPA car classes (Two-Seater, Minicompact, Compact, and Subcompact) have been combined to form the small car class. For this table, the car classes are separated into cars, station wagons, and non-truck SUVs, so that the table stratifies light-duty vehicles into a total of 18 vehicle types and sizes. Note that this table does not contain any data for large wagons, small non-truck SUVs, small vans, or small pickups, because none have been produced for several years. Front wheel drive (FWD) is used heavily in all of the car, wagon, non-truck SUV, and van classes, except midsize wagons. Conversely, four wheel drive (4WD) is used heavily in truck SUVs and large pickups. Manual transmissions are used primarily in small vehicles, some sports cars, and midsize pickups. Engines with more than two valves per cylinder and VVT are now prevalent for nearly all vehicle types and sizes.

Detailed tabulations of different technology types, including technology usage percentages for other model years, can be found in the Appendices.

Table 13

Engine Characteristics of MY 1975 to MY 2012 Light Duty Vehicles

Cars

Model Year	Powertrain			Fuel Injection Metering Method					Avg. Number of Cylinders	CID		HP/ CID	Multi-Valve	VVT	CD	Boosted (Turbocharged or Supercharged)
	Gasoline	Hybrid	Diesel	Carbureted	GDI	Port	TBI	Diesel								
1975	99.8%	-	0.2%	94.6%	-	5.1%	-	0.2%	6.71	288	136	0.515	-	-	-	-
1976	99.7%	-	0.3%	96.6%	-	3.2%	-	0.3%	6.75	287	134	0.502	-	-	-	-
1977	99.5%	-	0.5%	95.3%	-	4.2%	-	0.5%	6.85	279	133	0.516	-	-	-	-
1978	99.1%	-	0.9%	94.0%	-	5.1%	-	0.9%	6.52	251	124	0.538	-	-	-	-
1979	97.9%	-	2.1%	93.2%	-	4.7%	-	2.1%	6.38	238	119	0.545	-	-	-	-
1980	95.6%	-	4.4%	88.7%	-	6.2%	0.7%	4.4%	5.48	188	100	0.583	-	-	-	-
1981	94.1%	-	5.9%	85.3%	-	6.1%	2.6%	5.9%	5.36	182	99	0.594	-	-	-	-
1982	95.3%	-	4.7%	78.4%	-	7.2%	9.8%	4.7%	5.23	175	99	0.609	-	-	-	-
1983	97.9%	-	2.1%	69.7%	-	9.4%	18.8%	2.1%	5.39	182	104	0.615	-	-	-	-
1984	98.3%	-	1.7%	59.1%	-	14.9%	24.3%	1.7%	5.34	179	106	0.637	-	-	-	-
1985	99.1%	-	0.9%	46.0%	-	21.3%	31.8%	0.9%	5.29	177	111	0.671	-	-	-	-
1986	99.7%	-	0.3%	34.4%	-	36.5%	28.7%	0.3%	5.09	167	111	0.701	4.7%	-	-	-
1987	99.8%	-	0.2%	26.5%	-	42.4%	30.8%	0.2%	4.98	162	113	0.732	14.6%	-	-	-
1988	100.0%	-	0.0%	16.1%	-	53.7%	30.2%	0.0%	5.02	161	116	0.758	19.7%	-	-	-
1989	100.0%	-	0.0%	9.6%	-	62.2%	28.1%	0.0%	5.07	163	121	0.782	24.1%	-	-	-
1990	100.0%	-	0.0%	1.4%	-	77.4%	21.2%	0.0%	5.05	163	129	0.829	32.8%	0.6%	-	-
1991	99.9%	-	0.1%	0.1%	-	77.2%	22.6%	0.1%	5.05	164	133	0.847	33.2%	2.4%	-	-
1992	99.9%	-	0.1%	0.0%	-	88.9%	11.0%	0.1%	5.23	171	141	0.864	34.0%	4.4%	-	-
1993	100.0%	-	-	0.0%	-	91.5%	8.5%	-	5.19	170	140	0.859	34.8%	4.5%	-	-
1994	100.0%	-	0.0%	-	-	94.8%	5.2%	0.0%	5.20	169	144	0.880	39.9%	7.7%	-	-
1995	99.9%	-	0.1%	-	-	98.6%	1.3%	0.1%	5.23	168	153	0.941	51.4%	9.6%	-	-
1996	99.9%	-	0.1%	-	-	98.8%	1.1%	0.1%	5.18	167	155	0.952	56.4%	11.3%	-	0.3%
1997	99.9%	-	0.1%	-	-	99.2%	0.8%	0.1%	5.10	165	156	0.970	58.4%	10.8%	-	0.7%
1998	99.8%	-	0.2%	-	-	99.7%	0.1%	0.2%	5.15	167	160	0.983	59.6%	17.4%	-	2.5%
1999	99.8%	-	0.2%	-	-	99.8%	0.1%	0.2%	5.21	168	164	1.000	63.2%	16.4%	-	3.6%
2000	99.7%	0.1%	0.2%	-	-	99.7%	0.1%	0.2%	5.22	168	168	1.021	63.2%	22.2%	-	2.9%
2001	99.7%	0.0%	0.2%	-	-	99.8%	-	0.2%	5.19	167	169	1.035	65.3%	26.9%	-	3.8%
2002	99.3%	0.3%	0.4%	-	-	99.6%	-	0.4%	5.12	167	173	1.061	69.9%	32.8%	-	4.3%
2003	99.1%	0.6%	0.3%	-	-	99.7%	-	0.3%	5.13	166	176	1.082	73.4%	39.8%	-	2.5%
2004	98.9%	0.9%	0.3%	-	-	99.7%	-	0.3%	5.16	170	184	1.101	77.1%	43.7%	-	4.8%
2005	97.6%	1.9%	0.4%	-	-	99.6%	-	0.4%	5.08	168	183	1.108	77.2%	49.4%	1.0%	3.6%
2006	97.9%	1.5%	0.6%	-	-	99.4%	-	0.6%	5.17	173	194	1.138	81.3%	58.2%	2.0%	4.0%
2007	96.7%	3.2%	0.0%	-	-	99.7%	-	0.0%	5.00	167	191	1.154	84.6%	63.3%	0.9%	4.1%
2008	96.7%	3.3%	0.1%	-	3.1%	96.9%	-	0.1%	4.97	166	194	1.174	88.0%	62.7%	2.0%	4.7%
2009	96.4%	2.9%	0.6%	-	4.2%	95.2%	-	0.6%	4.70	157	186	1.189	92.2%	79.1%	1.8%	4.5%
2010	93.6%	5.5%	0.9%	-	9.2%	89.9%	-	0.9%	4.70	158	190	1.203	93.8%	91.8%	2.1%	4.4%
2011	95.6%	3.4%	0.9%	-	18.4%	80.7%	-	0.9%	4.74	161	200	1.250	94.6%	94.9%	1.3%	8.6%
2012	93.7%	5.3%	1.1%	-	30.4%	68.6%	-	1.1%	4.57	150	192	1.284	97.8%	97.9%	2.0%	10.4%

Table 13 (continued)

Engine Characteristics of MY 1975 to MY 2012 Light Duty Vehicles

Trucks

Model Year	Powertrain			Fuel Injection Metering Method					Avg. Number of Cylinders	CID	HP	HP/ CID	Multi-Valve	VVT	CD	Boosted (Turbocharged or Supercharged)
	Gasoline	Gasoline Hybrid	Diesel	Carbureted	GDI	Port	TBI	Diesel								
1975	100.0%	-	-	99.9%	-	-	0.1%	-	7.28	311	142	0.476	-	-	-	-
1976	100.0%	-	-	99.9%	-	-	0.1%	-	7.31	320	141	0.458	-	-	-	-
1977	100.0%	-	-	99.9%	-	-	0.1%	-	7.28	318	147	0.482	-	-	-	-
1978	99.2%	-	0.8%	99.1%	-	-	0.1%	0.8%	7.25	315	146	0.481	-	-	-	-
1979	98.2%	-	1.8%	97.9%	-	-	0.3%	1.8%	7.05	299	138	0.485	-	-	-	-
1980	96.5%	-	3.5%	94.9%	-	-	1.7%	3.5%	6.15	248	121	0.528	-	-	-	-
1981	94.4%	-	5.6%	93.3%	-	-	1.1%	5.6%	6.15	247	119	0.508	-	-	-	-
1982	90.6%	-	9.4%	89.9%	-	-	0.7%	9.4%	6.26	244	120	0.524	-	-	-	-
1983	95.2%	-	4.8%	94.6%	-	-	0.6%	4.8%	6.07	232	118	0.542	-	-	-	-
1984	97.6%	-	2.4%	95.0%	-	2.0%	0.6%	2.4%	5.99	225	118	0.556	-	-	-	-
1985	98.9%	-	1.1%	86.5%	-	8.9%	3.5%	1.1%	5.97	225	124	0.585	-	-	-	-
1986	99.3%	-	0.7%	59.4%	-	22.1%	17.8%	0.7%	5.71	212	123	0.619	-	-	-	-
1987	99.7%	-	0.3%	33.6%	-	33.3%	32.8%	0.3%	5.69	211	131	0.652	-	-	-	-
1988	99.8%	-	0.2%	12.4%	-	43.2%	44.3%	0.2%	6.00	228	141	0.649	-	-	-	-
1989	99.8%	-	0.2%	6.5%	-	45.9%	47.5%	0.2%	6.04	234	146	0.653	-	-	-	-
1990	99.8%	-	0.2%	3.8%	-	55.0%	40.9%	0.2%	6.17	237	151	0.667	-	-	-	-
1991	99.9%	-	0.1%	1.7%	-	55.3%	42.8%	0.1%	5.95	229	150	0.681	-	-	-	-
1992	99.9%	-	0.1%	1.6%	-	65.7%	32.6%	0.1%	6.09	236	155	0.682	-	-	-	-
1993	100.0%	-	-	1.0%	-	71.5%	27.5%	-	6.13	235	160	0.705	-	-	-	-
1994	100.0%	-	-	0.4%	-	76.2%	23.4%	-	6.19	241	166	0.713	5.2%	-	-	-
1995	100.0%	-	-	-	-	79.4%	20.6%	-	6.22	245	168	0.712	8.0%	-	-	-
1996	99.9%	-	0.1%	-	-	99.9%	-	0.1%	6.25	245	179	0.755	11.2%	-	-	-
1997	100.0%	-	0.0%	-	-	100.0%	-	0.0%	6.47	251	189	0.769	11.1%	-	-	-
1998	100.0%	-	0.0%	-	-	100.0%	-	0.0%	6.30	244	188	0.794	14.8%	-	-	-
1999	100.0%	-	0.0%	-	-	100.0%	-	0.0%	6.50	252	199	0.811	15.7%	-	-	-
2000	100.0%	-	-	-	-	100.0%	-	-	6.48	245	199	0.830	18.6%	4.6%	-	-
2001	100.0%	-	-	-	-	100.0%	-	-	6.58	249	212	0.873	25.9%	9.3%	-	-
2002	100.0%	-	-	-	-	100.0%	-	-	6.57	249	223	0.911	32.8%	16.0%	-	-
2003	100.0%	-	-	-	-	100.0%	-	-	6.56	248	224	0.920	34.6%	19.7%	-	0.5%
2004	100.0%	0.0%	0.0%	-	-	100.0%	-	0.0%	6.70	258	240	0.946	46.2%	32.9%	-	0.9%
2005	99.8%	0.1%	0.1%	-	-	99.9%	-	0.1%	6.58	251	242	0.976	51.1%	41.2%	0.5%	0.7%
2006	98.4%	1.5%	0.1%	-	-	99.9%	-	0.1%	6.50	247	240	0.985	58.4%	51.5%	5.9%	0.8%
2007	99.1%	0.8%	0.1%	-	-	99.9%	-	0.1%	6.57	253	254	1.020	53.3%	48.7%	16.4%	1.1%
2008	98.5%	1.3%	0.2%	-	1.1%	98.7%	-	0.2%	6.42	246	254	1.046	59.5%	51.6%	13.5%	1.3%
2009	98.8%	0.9%	0.3%	-	4.2%	95.5%	-	0.3%	6.23	236	252	1.089	66.6%	56.0%	18.4%	1.8%
2010	98.8%	0.9%	0.4%	-	6.8%	92.9%	-	0.4%	6.22	237	253	1.087	71.5%	70.5%	13.8%	2.0%
2011	99.1%	0.4%	0.5%	-	11.3%	88.1%	-	0.5%	6.18	236	271	1.171	75.2%	90.7%	20.6%	5.2%
2012	98.5%	1.0%	0.5%	-	11.9%	87.6%	-	0.5%	6.17	234	275	1.198	79.3%	94.2%	18.2%	6.2%

Table 13 (continued)

Engine Characteristics of MY 1975 to MY 2012 Light Duty Vehicles

Cars and Trucks

Model Year	Powertrain			Fuel Injection Metering Method													Boosted (Turbocharged or Supercharged)		
									Avg. Number of Cylinders		CID		HP/ CID		Multi- Valve		VVT		CD
	Gasoline	Hybrid	Diesel	Carbureted	GDI	Port	TBI	Diesel			HP	CID							
1975	99.8%	-	0.2%	95.7%	-	4.1%	0.0%	0.2%	6.82	293	137	0.507	-	-	-	-	-	-	
1976	99.8%	-	0.2%	97.3%	-	2.5%	0.0%	0.2%	6.87	294	135	0.493	-	-	-	-	-	-	
1977	99.6%	-	0.4%	96.2%	-	3.4%	0.0%	0.4%	6.94	287	136	0.510	-	-	-	-	-	-	
1978	99.1%	-	0.9%	95.2%	-	3.9%	0.0%	0.9%	6.69	266	129	0.525	-	-	-	-	-	-	
1979	98.0%	-	2.0%	94.2%	-	3.7%	0.1%	2.0%	6.53	252	124	0.532	-	-	-	-	-	-	
1980	95.7%	-	4.3%	89.7%	-	5.2%	0.8%	4.3%	5.59	198	104	0.574	-	-	-	-	-	-	
1981	94.1%	-	5.9%	86.7%	-	5.1%	2.4%	5.9%	5.50	193	102	0.580	-	-	-	-	-	-	
1982	94.4%	-	5.6%	80.6%	-	5.8%	8.0%	5.6%	5.43	188	103	0.593	-	-	-	-	-	-	
1983	97.3%	-	2.7%	75.2%	-	7.3%	14.8%	2.7%	5.54	193	107	0.599	-	-	-	-	-	-	
1984	98.2%	-	1.8%	67.6%	-	11.9%	18.7%	1.8%	5.49	190	109	0.618	-	-	-	-	-	-	
1985	99.1%	-	0.9%	56.1%	-	18.2%	24.8%	0.9%	5.46	189	114	0.650	-	-	-	-	-	-	
1986	99.6%	-	0.4%	41.4%	-	32.5%	25.7%	0.4%	5.26	180	114	0.678	3.4%	-	-	-	-	-	
1987	99.7%	-	0.3%	28.4%	-	39.9%	31.4%	0.3%	5.17	175	118	0.710	10.6%	-	-	-	-	-	
1988	99.9%	-	0.1%	15.0%	-	50.6%	34.3%	0.1%	5.31	180	123	0.726	14.0%	-	-	-	-	-	
1989	99.9%	-	0.1%	8.7%	-	57.3%	33.9%	0.1%	5.36	185	129	0.743	16.9%	-	-	-	-	-	
1990	99.9%	-	0.1%	2.1%	-	70.8%	27.0%	0.1%	5.39	185	135	0.781	23.1%	-	-	-	-	-	
1991	99.9%	-	0.1%	0.6%	-	70.6%	28.7%	0.1%	5.32	184	138	0.796	23.1%	-	-	-	-	-	
1992	99.9%	-	0.1%	0.5%	-	81.6%	17.8%	0.1%	5.50	191	145	0.807	23.3%	-	-	-	-	-	
1993	100.0%	-	-	0.3%	-	85.0%	14.6%	-	5.50	191	147	0.809	23.5%	-	-	-	-	-	
1994	100.0%	-	0.0%	0.1%	-	87.7%	12.1%	0.0%	5.58	197	152	0.816	26.7%	-	-	-	-	-	
1995	100.0%	-	0.0%	-	-	91.6%	8.4%	0.0%	5.59	196	158	0.857	35.6%	-	-	-	-	-	
1996	99.9%	-	0.1%	-	-	99.3%	0.7%	0.1%	5.59	197	164	0.878	39.3%	-	-	-	-	0.3%	
1997	99.9%	-	0.1%	-	-	99.5%	0.5%	0.1%	5.65	199	169	0.890	39.6%	-	-	-	-	0.5%	
1998	99.9%	-	0.1%	-	-	99.8%	0.1%	0.1%	5.63	199	171	0.904	40.9%	-	-	-	-	2.0%	
1999	99.9%	-	0.1%	-	-	99.9%	0.1%	0.1%	5.75	203	179	0.921	43.4%	-	-	-	-	2.1%	
2000	99.8%	0.0%	0.1%	-	-	99.8%	0.0%	0.1%	5.74	200	181	0.942	44.8%	15.0%	-	-	-	1.7%	
2001	99.8%	0.0%	0.1%	-	-	99.9%	-	0.1%	5.76	201	187	0.968	49.0%	19.6%	-	-	-	2.3%	
2002	99.6%	0.2%	0.2%	-	-	99.8%	-	0.2%	5.77	203	195	0.994	53.3%	25.3%	-	-	-	2.6%	
2003	99.5%	0.3%	0.2%	-	-	99.8%	-	0.2%	5.79	204	199	1.007	55.5%	30.6%	-	-	-	1.6%	
2004	99.4%	0.5%	0.1%	-	-	99.9%	-	0.1%	5.90	212	211	1.026	62.3%	38.5%	-	-	-	2.9%	
2005	98.6%	1.1%	0.3%	-	-	99.7%	-	0.3%	5.75	205	209	1.049	65.6%	45.8%	0.8%	-	-	2.3%	
2006	98.1%	1.5%	0.4%	-	-	99.6%	-	0.4%	5.73	204	213	1.073	71.7%	55.4%	3.6%	-	-	2.6%	
2007	97.7%	2.2%	0.1%	-	-	99.8%	-	0.1%	5.64	203	217	1.099	71.7%	57.3%	7.3%	-	-	2.9%	
2008	97.4%	2.5%	0.1%	-	2.3%	97.6%	-	0.1%	5.56	199	219	1.122	76.4%	58.2%	6.7%	-	-	3.3%	
2009	97.2%	2.3%	0.5%	-	4.2%	95.3%	-	0.5%	5.21	183	208	1.156	83.8%	71.5%	7.3%	-	-	3.6%	
2010	95.6%	3.8%	0.7%	-	8.3%	91.0%	-	0.7%	5.27	188	214	1.160	85.5%	83.8%	6.4%	-	-	3.5%	
2011	97.1%	2.2%	0.8%	-	15.4%	83.8%	-	0.8%	5.35	192	230	1.217	86.4%	93.1%	9.5%	-	-	7.2%	
2012	95.4%	3.7%	0.8%	-	23.7%	75.5%	-	0.8%	5.15	180	222	1.253	91.1%	96.6%	7.9%	-	-	8.9%	

Table 14

Transmission and Drive Characteristics of MY 1975 to MY 2012 Light Duty Vehicles

Cars

Model Year	Manual	Automatic with Lockup	Automatic without Lockup	CVT	4 Gears or Fewer	5 Gears	6 Gears	7 Gears or More	CVT	Average Number of Gears	Front Wheel Drive	Rear Wheel Drive	Four Wheel Drive
1975	19.7%	0.3%	80.0%	-	98.7%	1.3%	-	-	-	-	6.5%	93.5%	-
1976	17.2%	-	82.8%	-	100.0%	-	-	-	-	-	5.8%	94.2%	-
1977	16.9%	-	83.1%	-	100.0%	-	-	-	-	-	6.8%	93.2%	-
1978	19.9%	7.1%	73.0%	-	90.7%	9.3%	-	-	-	-	9.6%	90.4%	-
1979	21.1%	8.8%	69.6%	-	93.1%	6.9%	-	-	-	3.3	11.9%	87.8%	0.3%
1980	30.9%	16.8%	51.6%	-	87.6%	12.4%	-	-	-	3.5	29.7%	69.4%	0.9%
1981	29.9%	33.3%	36.2%	-	85.5%	14.5%	-	-	-	3.5	37.0%	62.2%	0.7%
1982	29.2%	51.3%	19.1%	-	84.6%	15.4%	-	-	-	3.6	45.6%	53.6%	0.8%
1983	26.0%	56.7%	16.8%	-	80.8%	19.2%	-	-	-	3.7	47.1%	49.9%	3.1%
1984	24.1%	58.3%	17.5%	-	82.1%	17.9%	-	-	-	3.7	53.5%	45.5%	1.0%
1985	22.8%	58.9%	18.4%	-	81.4%	18.6%	-	-	-	3.7	61.1%	36.8%	2.1%
1986	24.7%	58.1%	17.1%	-	79.7%	20.3%	-	-	-	3.8	70.7%	28.2%	1.0%
1987	24.8%	59.7%	15.5%	-	78.4%	21.6%	-	-	-	3.8	76.4%	22.6%	1.1%
1988	24.3%	66.2%	9.5%	-	80.2%	19.8%	-	-	-	3.8	80.9%	18.3%	0.8%
1989	21.1%	69.3%	9.5%	0.1%	81.9%	17.9%	0.0%	-	0.1%	3.9	81.6%	17.4%	1.0%
1990	19.8%	72.8%	7.4%	0.0%	82.4%	17.5%	0.1%	-	0.0%	3.9	84.0%	15.0%	1.0%
1991	20.6%	73.7%	5.7%	0.0%	81.0%	18.9%	0.1%	-	0.0%	3.9	81.1%	17.5%	1.3%
1992	17.6%	76.4%	6.0%	0.0%	83.6%	16.3%	0.1%	-	0.0%	3.9	78.4%	20.5%	1.1%
1993	17.5%	77.6%	4.9%	0.0%	83.2%	16.6%	0.2%	-	0.0%	4.0	80.6%	18.3%	1.1%
1994	16.9%	78.9%	4.1%	-	83.4%	16.3%	0.3%	-	-	4.0	81.3%	18.3%	0.4%
1995	16.3%	81.9%	1.8%	-	83.4%	16.2%	0.4%	-	-	4.1	80.1%	18.8%	1.1%
1996	14.9%	83.6%	1.5%	0.0%	84.9%	14.7%	0.3%	-	0.0%	4.1	83.7%	14.8%	1.4%
1997	13.9%	85.2%	0.8%	0.1%	84.1%	15.5%	0.3%	-	0.1%	4.1	83.8%	14.5%	1.7%
1998	12.2%	87.4%	0.3%	0.1%	82.8%	16.8%	0.3%	-	0.1%	4.1	82.9%	15.0%	2.1%
1999	10.8%	88.6%	0.6%	0.0%	83.4%	16.1%	0.5%	-	0.0%	4.1	83.2%	14.7%	2.1%
2000	10.8%	88.1%	1.0%	0.0%	81.3%	17.9%	0.8%	-	0.0%	4.1	80.4%	17.7%	2.0%
2001	11.0%	88.0%	0.8%	0.2%	78.5%	20.2%	1.2%	-	0.2%	4.2	80.3%	16.7%	3.0%
2002	10.9%	88.4%	0.2%	0.4%	77.4%	20.3%	1.9%	-	0.4%	4.2	82.9%	13.5%	3.6%
2003	10.9%	87.7%	-	1.4%	67.5%	27.9%	3.1%	-	1.4%	4.3	80.9%	15.9%	3.2%
2004	9.8%	88.2%	0.2%	1.7%	64.5%	28.4%	5.0%	0.4%	1.7%	4.4	80.2%	14.5%	5.3%
2005	8.8%	88.4%	0.1%	2.8%	57.3%	33.7%	5.8%	0.4%	2.8%	4.5	79.2%	14.2%	6.6%
2006	8.8%	88.4%	0.1%	2.7%	47.5%	35.4%	12.5%	1.9%	2.7%	4.7	75.9%	18.0%	6.0%
2007	7.8%	82.5%	0.0%	9.7%	36.8%	34.7%	16.5%	2.3%	9.7%	4.8	81.0%	13.4%	5.6%
2008	7.2%	81.7%	0.3%	10.8%	39.3%	28.2%	19.0%	2.6%	10.8%	4.8	78.8%	14.1%	7.1%
2009	6.2%	82.4%	0.3%	11.1%	35.1%	31.4%	19.3%	3.1%	11.1%	4.9	83.5%	10.2%	6.3%
2010	5.0%	79.5%	1.6%	13.9%	29.5%	20.2%	33.0%	3.4%	13.9%	5.1	82.5%	11.2%	6.3%
2011	4.6%	83.0%	0.5%	11.9%	15.8%	12.9%	53.8%	5.5%	11.9%	5.6	80.1%	11.3%	8.6%
2012	7.6%	75.4%	5.1%	11.9%	7.2%	13.8%	60.9%	6.2%	11.9%	5.8	83.1%	10.2%	6.7%

Table 14 (continued)

Transmission and Drive Characteristics of MY 1975 to MY 2012 Light Duty Vehicles

Trucks

Model Year	Manual	Automatic with Lockup	Automatic without Lockup	CVT	4 Gears or Fewer	5 Gears	6 Gears	7 Gears or More	CVT	Average Number of Gears	Front Wheel Drive	Rear Wheel Drive	Four Wheel Drive
1975	36.9%	-	63.1%	-	100.0%	-	-	-	-	-	-	82.8%	17.2%
1976	34.7%	-	65.3%	-	100.0%	-	-	-	-	-	-	77.0%	23.0%
1977	31.6%	-	68.4%	-	100.0%	-	-	-	-	-	-	76.2%	23.8%
1978	32.1%	-	67.9%	-	99.3%	0.7%	-	-	-	-	-	70.9%	29.1%
1979	35.1%	2.1%	62.8%	-	96.0%	4.0%	-	-	-	3.3	-	81.9%	18.1%
1980	53.0%	24.5%	22.4%	-	89.2%	10.8%	-	-	-	3.5	1.4%	73.6%	25.0%
1981	51.6%	31.1%	17.3%	-	86.1%	13.9%	-	-	-	3.6	1.9%	78.0%	20.1%
1982	45.9%	33.4%	20.7%	-	83.8%	16.2%	-	-	-	3.7	1.7%	78.1%	20.2%
1983	46.3%	36.0%	17.4%	-	81.6%	18.4%	-	-	-	3.9	1.4%	72.5%	26.1%
1984	42.5%	34.6%	22.9%	-	78.6%	21.4%	-	-	-	3.9	5.0%	63.5%	31.5%
1985	37.6%	41.1%	21.2%	-	78.6%	21.4%	-	-	-	3.8	7.3%	61.4%	31.3%
1986	43.0%	41.5%	15.5%	-	69.1%	30.9%	-	-	-	4.0	5.9%	63.4%	30.7%
1987	40.5%	43.8%	15.7%	-	70.1%	29.9%	-	-	-	4.0	7.6%	60.2%	32.2%
1988	35.8%	52.5%	11.7%	-	68.4%	31.6%	-	-	-	4.1	9.2%	56.7%	34.1%
1989	32.8%	56.4%	10.8%	-	70.3%	29.7%	-	-	-	4.1	10.1%	57.1%	32.8%
1990	28.1%	67.5%	4.4%	-	74.1%	25.9%	-	-	-	4.1	15.8%	52.4%	31.8%
1991	31.5%	66.8%	1.7%	-	69.0%	31.0%	-	-	-	4.2	10.3%	52.3%	37.3%
1992	27.5%	71.3%	1.2%	-	74.6%	25.4%	-	-	-	4.2	14.5%	52.1%	33.4%
1993	24.7%	74.2%	1.1%	-	76.0%	24.0%	-	-	-	4.2	16.8%	50.6%	32.7%
1994	23.7%	75.3%	1.0%	-	76.7%	23.3%	-	-	-	4.2	13.8%	47.0%	39.2%
1995	20.7%	78.5%	0.9%	-	79.6%	20.4%	-	-	-	4.2	18.4%	39.3%	42.3%
1996	15.6%	83.4%	1.0%	-	84.4%	15.6%	-	-	-	4.1	20.9%	39.8%	39.2%
1997	14.1%	85.8%	0.1%	-	79.9%	20.1%	-	-	-	4.2	14.2%	40.6%	45.2%
1998	13.6%	85.8%	0.6%	-	81.1%	18.9%	-	-	-	4.2	19.3%	35.5%	45.1%
1999	9.2%	90.4%	0.4%	-	85.8%	14.2%	-	-	-	4.1	17.5%	34.4%	48.1%
2000	8.2%	91.5%	0.3%	-	87.3%	12.7%	-	-	-	4.1	20.0%	33.8%	46.3%
2001	6.3%	93.4%	0.3%	-	84.0%	16.0%	-	-	-	4.2	16.3%	34.8%	48.8%
2002	4.7%	94.9%	0.3%	0.0%	76.7%	23.3%	-	-	0.0%	4.2	15.4%	33.1%	51.6%
2003	4.6%	94.4%	0.3%	0.6%	71.1%	28.2%	-	-	0.6%	4.3	15.4%	34.1%	50.4%
2004	3.5%	95.6%	0.3%	0.6%	63.2%	35.5%	0.8%	-	0.6%	4.4	12.5%	31.0%	56.5%
2005	2.9%	95.3%	-	1.8%	54.3%	41.9%	2.1%	-	1.8%	4.5	20.1%	27.7%	52.2%
2006	3.3%	93.7%	-	3.1%	48.0%	44.3%	3.8%	0.8%	3.1%	4.6	18.9%	28.0%	53.1%
2007	2.6%	93.8%	-	3.7%	45.8%	38.0%	11.5%	1.0%	3.7%	4.7	16.1%	28.4%	55.5%
2008	2.2%	94.1%	-	3.6%	37.9%	37.4%	19.9%	1.2%	3.6%	4.8	18.4%	24.8%	56.8%
2009	2.0%	92.0%	-	6.0%	23.5%	33.7%	35.1%	1.6%	6.0%	5.2	21.0%	20.5%	58.4%
2010	1.8%	91.9%	0.4%	5.9%	16.4%	29.1%	46.7%	1.9%	5.9%	5.4	20.9%	18.0%	61.0%
2011	1.3%	91.4%	0.0%	7.3%	11.9%	26.5%	50.5%	3.9%	7.3%	5.5	17.7%	17.3%	65.0%
2012	1.9%	90.3%	-	7.8%	11.9%	22.4%	54.3%	3.6%	7.8%	5.6	22.1%	18.3%	59.6%

Table 14 (continued)

Transmission and Drive Characteristics of MY 1975 to MY 2012 Light Duty Vehicles

Cars and Trucks

Model Year	Manual	Automatic with Lockup	Automatic without Lockup	CVT	4 Gears or Fewer	5 Gears	6 Gears	7 Gears or More	CVT	Average Number of Gears	Front Wheel Drive	Rear Wheel Drive	Four Wheel Drive
1975	23.0%	0.2%	76.8%	-	99.0%	1.0%	-	-	-	-	5.3%	91.4%	3.3%
1976	20.9%	-	79.1%	-	100.0%	-	-	-	-	-	4.6%	90.6%	4.8%
1977	19.8%	-	80.2%	-	100.0%	-	-	-	-	-	5.5%	89.8%	4.7%
1978	22.7%	5.5%	71.9%	-	92.7%	7.3%	-	-	-	-	7.4%	86.0%	6.6%
1979	24.2%	7.3%	68.1%	-	93.8%	6.2%	-	-	-	3.3	9.2%	86.5%	4.3%
1980	34.6%	18.1%	46.8%	-	87.9%	12.1%	-	-	-	3.5	25.0%	70.1%	4.9%
1981	33.6%	33.0%	32.9%	-	85.6%	14.4%	-	-	-	3.5	31.0%	65.0%	4.0%
1982	32.4%	47.8%	19.4%	-	84.4%	15.6%	-	-	-	3.6	37.0%	58.4%	4.6%
1983	30.5%	52.1%	17.0%	-	80.9%	19.1%	-	-	-	3.7	37.0%	54.8%	8.1%
1984	28.4%	52.8%	18.8%	-	81.3%	18.7%	-	-	-	3.7	42.1%	49.8%	8.2%
1985	26.5%	54.5%	19.1%	-	80.7%	19.3%	-	-	-	3.8	47.8%	42.9%	9.3%
1986	29.8%	53.5%	16.7%	-	76.8%	23.2%	-	-	-	3.8	52.6%	38.0%	9.3%
1987	29.1%	55.4%	15.5%	-	76.2%	23.8%	-	-	-	3.9	57.7%	32.8%	9.6%
1988	27.6%	62.2%	10.2%	-	76.8%	23.2%	-	-	-	3.9	60.0%	29.5%	10.5%
1989	24.6%	65.5%	9.9%	0.1%	78.5%	21.4%	0.0%	-	0.1%	3.9	60.2%	29.3%	10.5%
1990	22.2%	71.2%	6.5%	0.0%	79.9%	20.0%	0.1%	-	0.0%	4.0	63.8%	26.1%	10.1%
1991	23.9%	71.6%	4.5%	0.0%	77.3%	22.6%	0.0%	-	0.0%	4.0	59.6%	28.1%	12.3%
1992	20.7%	74.8%	4.5%	0.0%	80.8%	19.2%	0.1%	-	0.0%	4.0	58.4%	30.4%	11.2%
1993	19.8%	76.5%	3.7%	0.0%	80.9%	19.0%	0.1%	-	0.0%	4.0	59.9%	28.8%	11.3%
1994	19.5%	77.6%	3.0%	-	80.8%	19.0%	0.2%	-	-	4.1	55.6%	29.2%	15.2%
1995	17.9%	80.7%	1.4%	-	82.0%	17.7%	0.2%	-	-	4.1	57.6%	26.3%	16.2%
1996	15.2%	83.5%	1.3%	0.0%	84.7%	15.1%	0.2%	-	0.0%	4.1	60.0%	24.3%	15.7%
1997	14.0%	85.5%	0.5%	0.0%	82.4%	17.3%	0.2%	-	0.0%	4.1	56.1%	24.9%	19.0%
1998	12.8%	86.7%	0.5%	0.0%	82.1%	17.7%	0.2%	-	0.0%	4.1	56.4%	23.5%	20.1%
1999	10.1%	89.4%	0.5%	0.0%	84.4%	15.3%	0.3%	-	0.0%	4.1	55.8%	22.9%	21.3%
2000	9.7%	89.5%	0.7%	0.0%	83.7%	15.8%	0.5%	-	0.0%	4.1	55.5%	24.3%	20.2%
2001	9.0%	90.3%	0.6%	0.1%	80.7%	18.5%	0.7%	-	0.1%	4.2	53.8%	24.2%	22.0%
2002	8.2%	91.4%	0.3%	0.2%	77.1%	21.6%	1.1%	-	0.2%	4.2	52.7%	22.3%	25.0%
2003	8.0%	90.8%	0.1%	1.1%	69.2%	28.1%	1.7%	-	1.1%	4.3	50.7%	24.3%	25.0%
2004	6.8%	91.8%	0.3%	1.2%	63.9%	31.8%	3.0%	0.2%	1.2%	4.4	47.7%	22.4%	29.8%
2005	6.2%	91.5%	0.1%	2.3%	56.0%	37.3%	4.1%	0.2%	2.3%	4.5	53.0%	20.2%	26.8%
2006	6.5%	90.6%	0.0%	2.8%	47.7%	39.2%	8.8%	1.4%	2.8%	4.6	51.9%	22.3%	25.8%
2007	5.6%	87.1%	0.0%	7.2%	40.5%	36.1%	14.4%	1.8%	7.2%	4.8	54.3%	19.6%	26.1%
2008	5.2%	86.8%	0.2%	7.9%	38.8%	31.9%	19.4%	2.0%	7.9%	4.8	54.2%	18.5%	27.3%
2009	4.8%	85.5%	0.2%	9.4%	31.3%	32.2%	24.5%	2.6%	9.4%	5.0	62.9%	13.6%	23.5%
2010	3.8%	84.1%	1.2%	10.9%	24.6%	23.5%	38.1%	2.8%	10.9%	5.2	59.5%	13.8%	26.7%
2011	3.2%	86.6%	0.3%	10.0%	14.2%	18.7%	52.4%	4.8%	10.0%	5.6	53.8%	13.8%	32.4%
2012	5.6%	80.8%	3.2%	10.4%	8.9%	16.9%	58.5%	5.3%	10.4%	5.7	61.1%	13.1%	25.8%

Figure 19

Transmission Production Share by Model Year

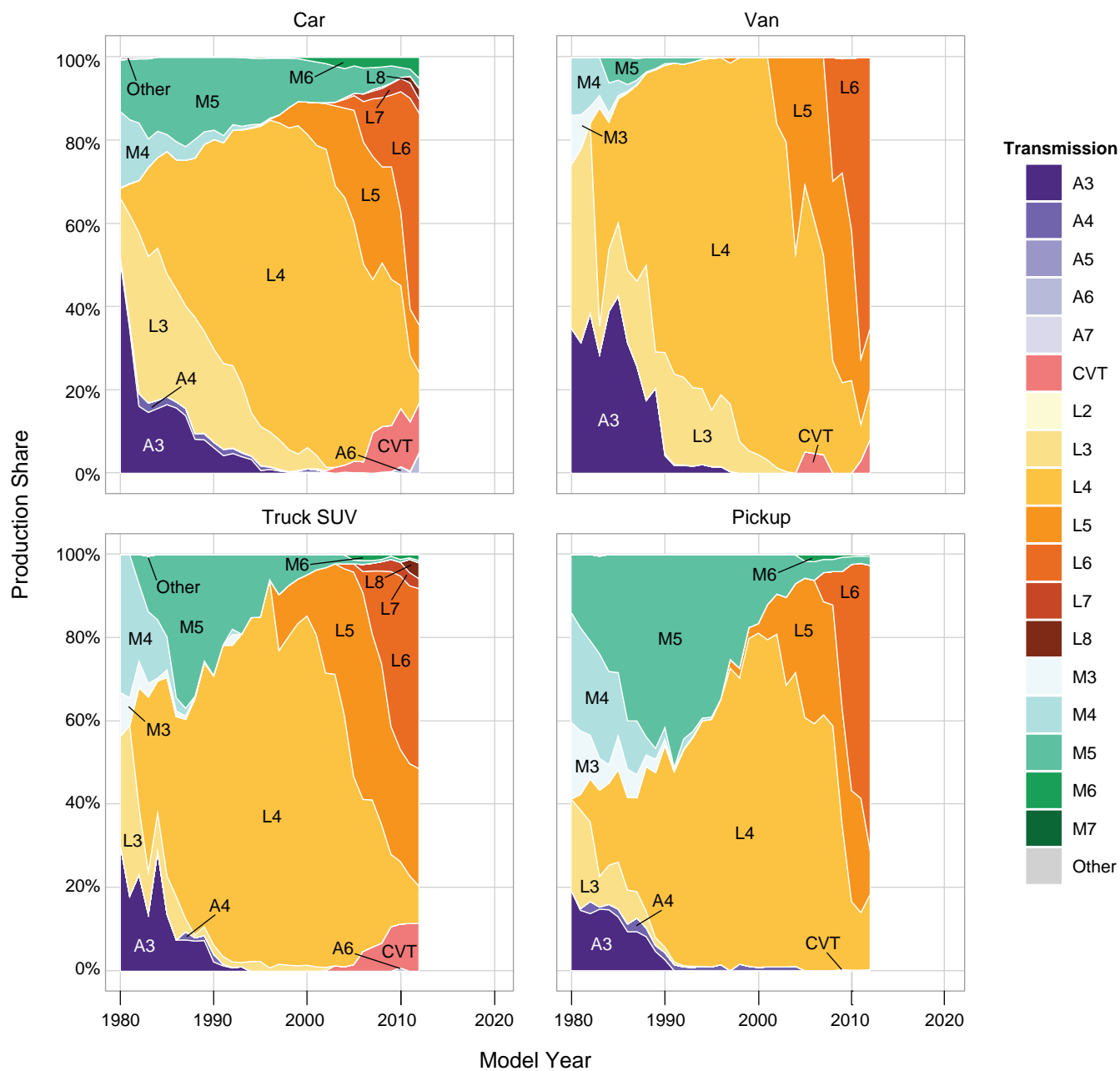


Table 15**MY 2012 Technology Usage by Vehicle Type and Size
(Percent of Vehicle Type/Size Strata)**

Vehicle Type	Vehicle Size	Front Wheel Drive	Four Wheel Drive	Manual Trans	Multi-Valve	VVT
Car	Small	80%	4%	14%	96%	97%
Car	Midsize	87%	7%	4%	99%	99%
Car	Large	75%	5%	1%	94%	99%
Car	All	83%	5%	8%	97%	98%
Wagon	Small	82%	16%	13%	100%	93%
Wagon	Midsize	97%	3%	-	100%	100%
Wagon	All	83%	15%	12%	100%	94%
Non-Truck SUV	Midsize	97%	-	1%	100%	100%
Non-Truck SUV	Large	72%	27%	-	100%	100%
Non-Truck SUV	All	87%	11%	1%	100%	100%
Van	Midsize	97%	3%	-	99%	92%
Van	Large	-	10%	-	-	31%
Van	All	93%	3%	-	95%	89%
Truck SUV	Midsize	11%	87%	3%	94%	94%
Truck SUV	Large	20%	67%	1%	80%	99%
Truck SUV	All	15%	76%	2%	87%	96%
Pickup	Midsize	-	28%	36%	100%	100%
Pickup	Large	-	54%	2%	54%	92%
Pickup	All	-	53%	3%	55%	92%

Figure 20 shows trends in drive use for the six vehicle classes. Cars and wagons used to be nearly all rear wheel drive, but are now nearly all front wheel drive and four wheel drive. The trend towards increased use of front wheel drive for vans is very similar to that for cars, except it started a few years later. Almost all non-truck SUVs are front wheel drive vehicles, while almost all truck SUVs are four wheel drive vehicles. Consistent with load-carrying capabilities, all pickup trucks use either rear or four wheel drive, and four wheel drive is over 50% of pickup production.

Figure 20

Front, Rear, and Four Wheel Drive Usage - Production Share by Vehicle Type

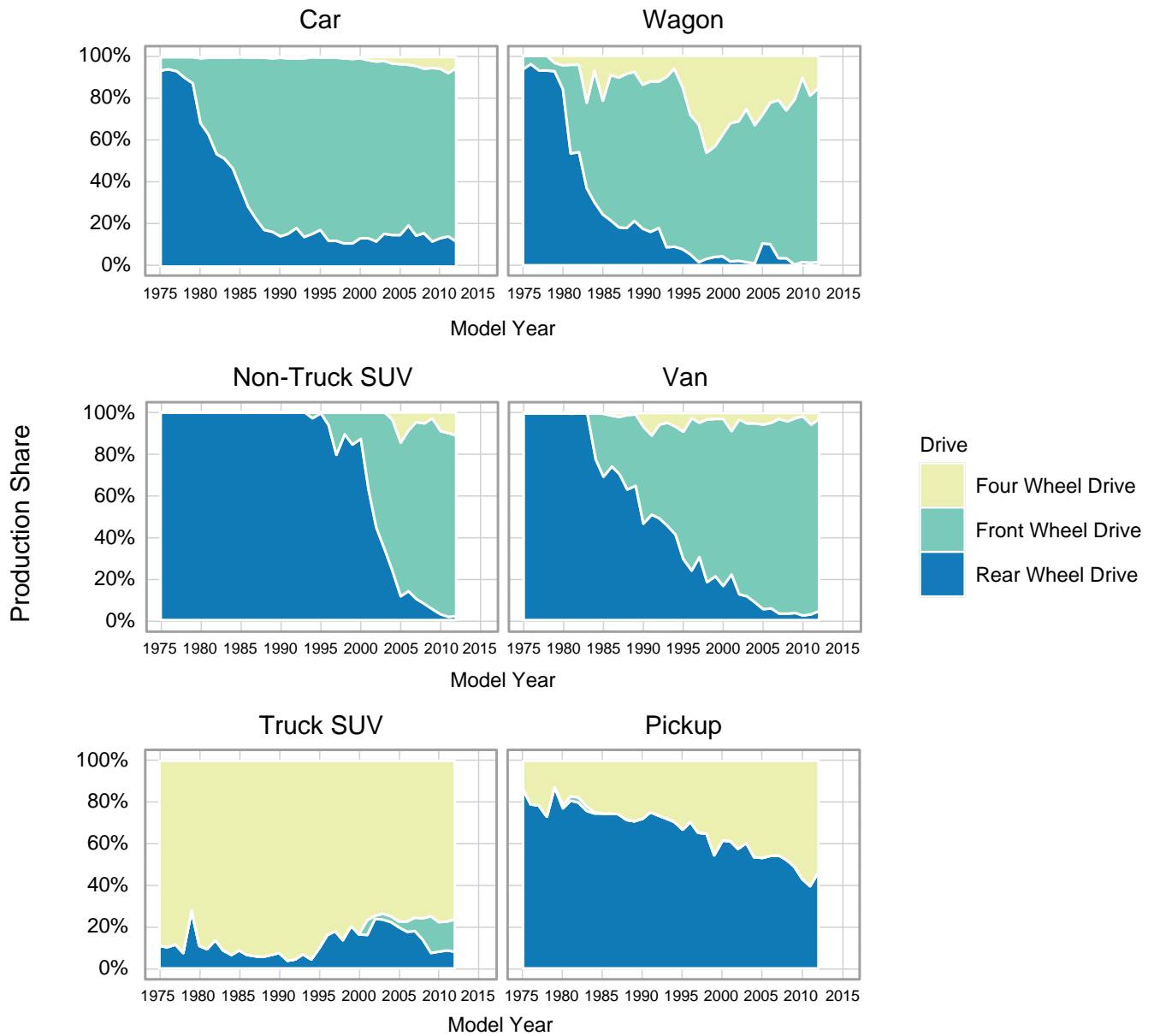


Figure 21 and Table 16 show production share stratified by number of engine cylinders. Engines with 8, 6, and 4 cylinders have accounted for 97 to 99% of all engines produced since MY 1975. The 8-cylinder engine was dominant in the mid and late 1970s, accounting for over half of production. Subsequently, while production share stratified by number of engine cylinders varied over time, there were two years with notable production shifts. The first major shift was in MY 1980, when 8-cylinder engine production share dropped from 54% to 26%, and 4-cylinder production share increased from 26% to 45%. The 4-cylinder engine continued to lead the market until overtaken by 6-cylinder engines in MY 1992. The second major shift was in MY 2009, when 4-cylinder engines once again became the production leader with 51% (an increase of 13% in a single year), followed by 6-cylinder engines with 35%, and 8-cylinder engines at an all-time low of 12%. This shift in MY 2009 reversed very slightly in MY 2010-2011, but is projected to reverse again in MY 2012. Figure 22 breaks out the data for engine cylinders by vehicle type. It can be seen that 4-cylinder engines account for 70% of cars and about 25% of truck SUVs, but are used only rarely in pickups and vans. Vans are almost exclusively powered by 6-cylinder engines, and pickups use mostly 8-cylinder engines. Over one-half of all truck SUVs use 6-cylinder engines.

Figure 21

Production Share by Number of Cylinders

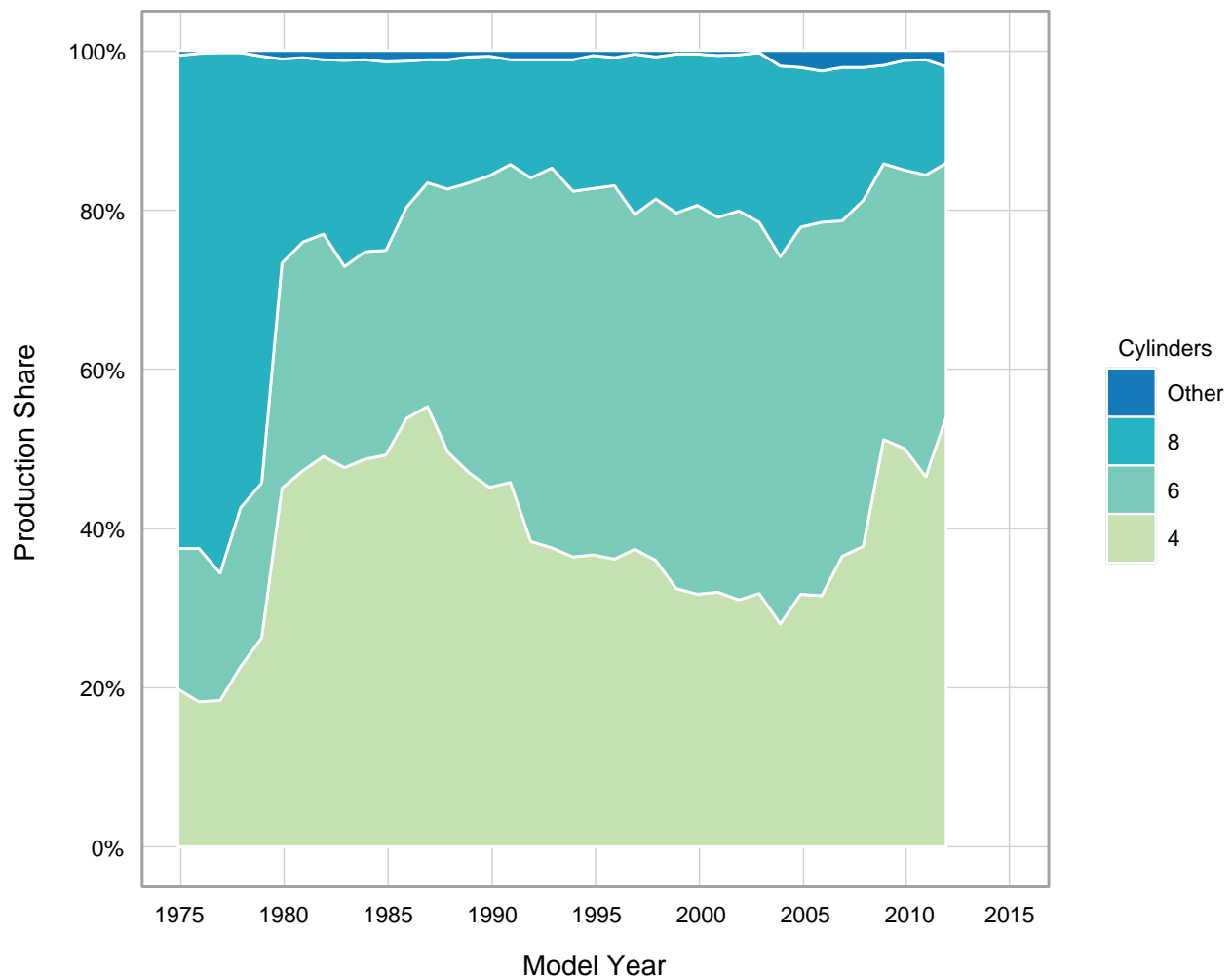


Table 16**Production Share by Number of Cylinders**

Model Year	4 Cylinder	6 Cylinder	8 Cylinder	Other
1975	19.8%	17.7%	61.9%	0.6%
1976	18.2%	19.3%	62.2%	0.4%
1977	18.4%	16.0%	65.4%	0.2%
1978	22.6%	20.0%	57.1%	0.3%
1979	26.2%	19.5%	53.6%	0.7%
1980	45.1%	28.3%	25.6%	1.1%
1981	47.3%	28.7%	23.1%	0.9%
1982	49.0%	28.0%	21.9%	1.1%
1983	47.6%	25.3%	25.9%	1.2%
1984	48.7%	26.1%	24.1%	1.1%
1985	49.2%	25.7%	23.7%	1.4%
1986	53.8%	26.5%	18.4%	1.4%
1987	55.3%	28.1%	15.4%	1.2%
1988	49.6%	33.0%	16.3%	1.1%
1989	47.0%	36.4%	15.8%	0.8%
1990	45.1%	39.2%	15.0%	0.7%
1991	45.7%	39.9%	13.2%	1.1%
1992	38.4%	45.6%	14.8%	1.2%
1993	37.6%	47.7%	13.6%	1.2%
1994	36.4%	46.0%	16.5%	1.2%
1995	36.7%	46.0%	16.7%	0.6%
1996	36.2%	46.9%	16.1%	0.9%
1997	37.4%	42.1%	20.1%	0.5%
1998	35.9%	45.4%	17.9%	0.8%
1999	32.4%	47.2%	19.9%	0.4%
2000	31.7%	48.9%	19.0%	0.5%
2001	32.0%	47.1%	20.4%	0.6%
2002	31.0%	48.8%	19.6%	0.5%
2003	31.8%	46.6%	21.3%	0.3%
2004	28.0%	46.1%	23.9%	2.0%
2005	31.7%	46.2%	20.0%	2.1%
2006	31.5%	47.0%	18.9%	2.6%
2007	36.5%	42.1%	19.3%	2.1%
2008	37.7%	43.4%	16.8%	2.1%
2009	51.1%	34.7%	12.3%	1.8%
2010	50.0%	35.0%	13.8%	1.2%
2011	46.5%	37.8%	14.5%	1.2%
2012	54.0%	31.9%	12.1%	2.0%

Figure 22

Production Share by Cylinder Count and Vehicle Type

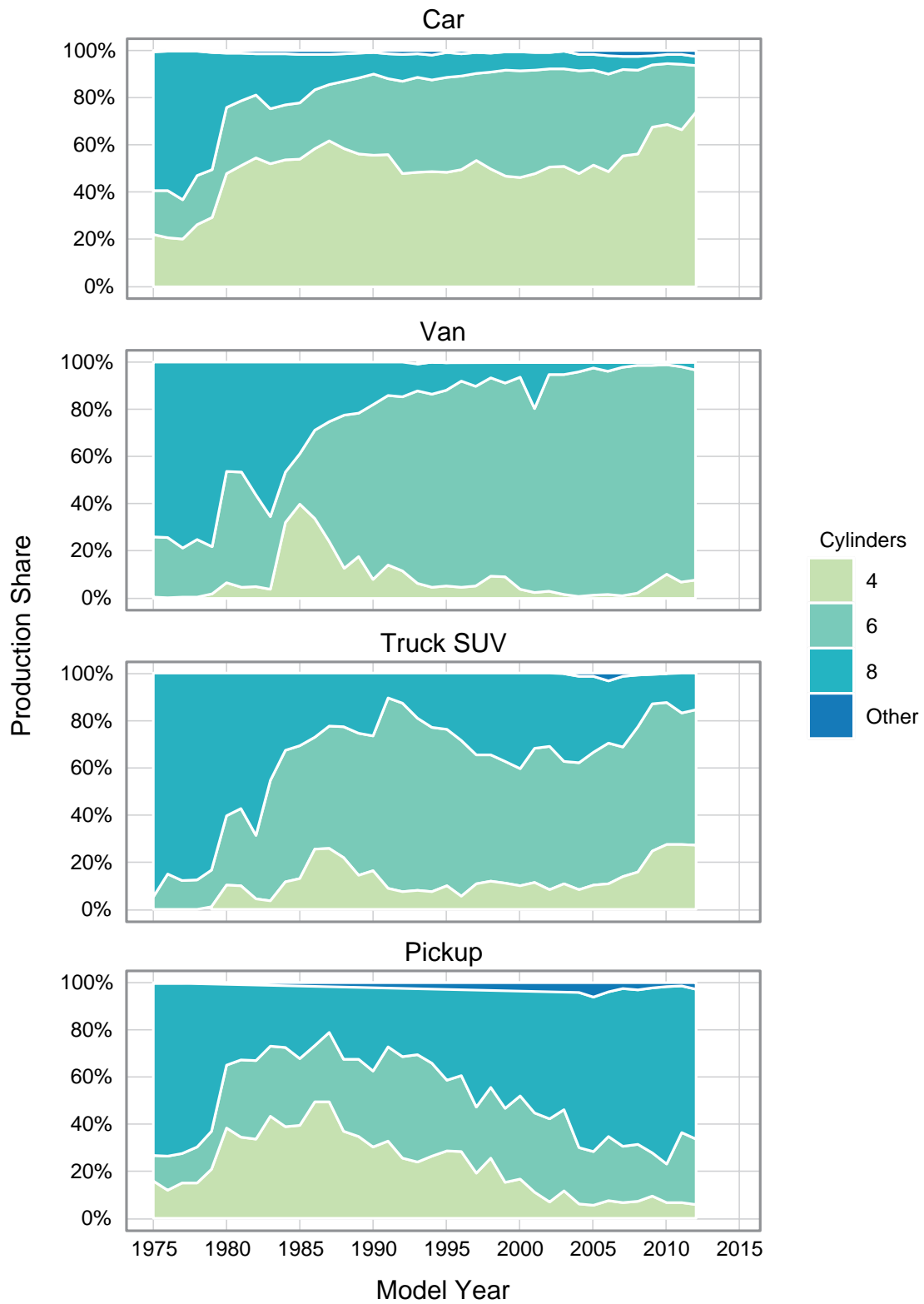


Table 17 and Figure 23 compare engine horsepower (HP), engine displacement (CID), and specific power or horsepower per cubic inch (HP/CID) for cars, vans, truck SUVs, and pickups. For all four vehicle types, significant CID reductions occurred in the late 1970s and early 1980s. Engine displacement has been relatively flat for cars and vans since the mid-1980s and has declined for truck SUVs since the mid-1990s, but has been increasing for two decades for pickups. Average horsepower has increased substantially for all of these vehicle types since MY 1981 (with a small decrease in MY 2009) with the highest increase occurring for pickups whose horsepower is now 2.7 times what it was then (i.e., 312 versus 115). Light-duty vehicle engines, thus, have also improved in specific power with the highest specific power being for engines used in passenger cars and truck SUVs. The use of cylinder deactivation has been popular in pickup trucks, now used in one-quarter of the pickup fleet.

Table 17

MY 2012 Engine Characteristics by Vehicle Type

Vehicle Type	HP	CID	HP/CID	Multi-Valve	VVT	Cylinder Deactivation
Car	192	150	1.28	98%	98%	2%
Van	259	214	1.22	95%	89%	19%
Truck SUV	261	215	1.24	87%	96%	15%
Pickup	312	285	1.11	55%	92%	25%
All	222	180	1.25	91%	97%	8%

Figure 23

Horsepower, CID, and Horsepower per CID

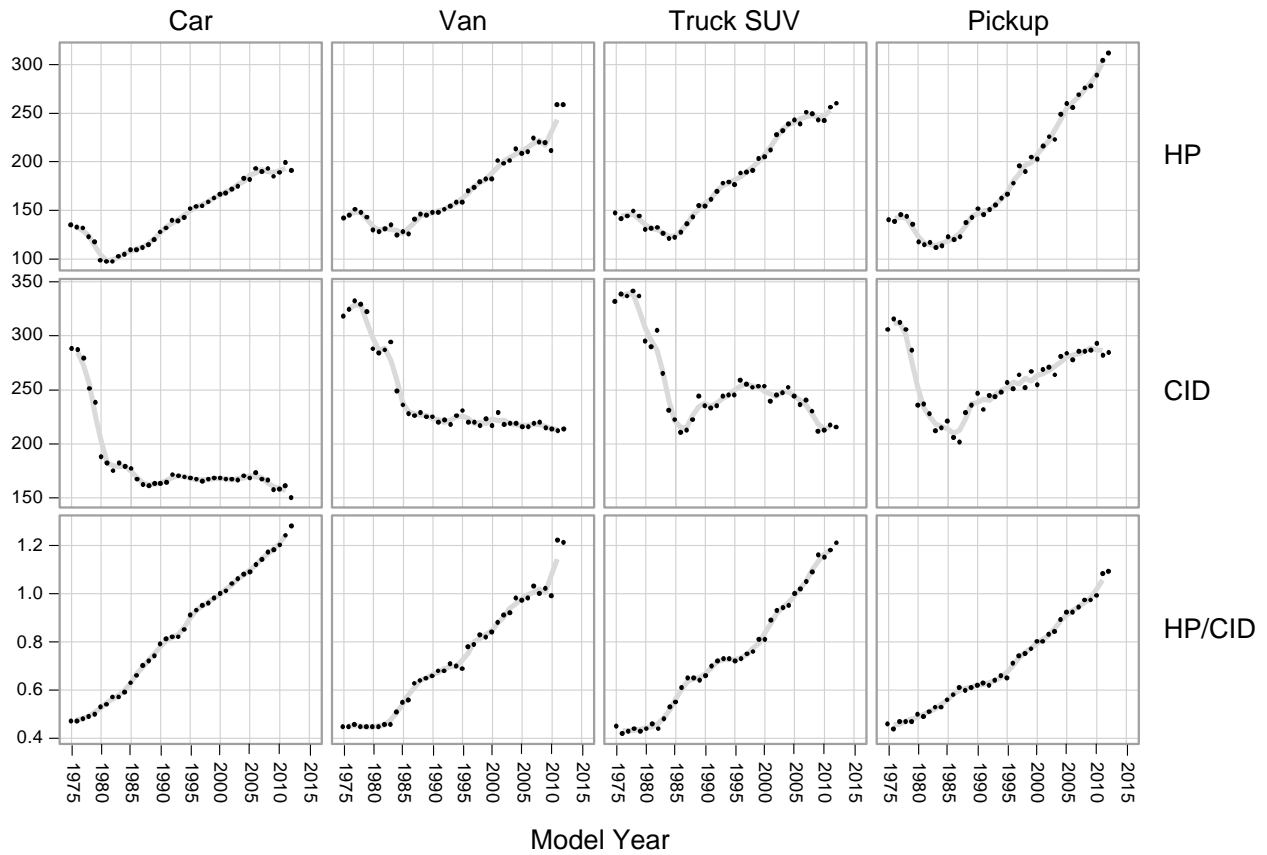


Table 18 compares HP, CID, and HP/CID by vehicle type and number of cylinders for model years 1988 and 2012. Table 18 shows that the increase in horsepower shown for the fleet in Table 13 extends to all vehicle type and cylinder number strata. These increases in horsepower range from 43 to 160%. Because displacement has remained relatively constant, it can be seen that the primary reason for the horsepower increase is increased specific power -- up between 46 and 147% from MY 1988 to 2012.

At the number-of-cylinders level of stratification, model year 2012 cars and truck SUVs generally achieve higher specific power than vans or pickups. One reason for the lower specific power of some truck engines is that these vehicles may be used to carry heavy loads or pull trailers and thus need more "torque rise," (i.e., an increase in torque as engine speed falls from the peak power point) to achieve acceptable drivability. Engines equipped with four valves per cylinder typically have inherently lower torque rise than two valve engines with lower specific power.

Table 18**Changes in Horsepower and Specific Power by Vehicle Type and Number of Cylinders**

Vehicle Type	Cylinders	HP 1988	HP 2012	Percent Change	CID 1988	CID 2012	Percent Change	HP/ CID 1988	HP/ CID 2012	Percent Change
Car	4	95	157	65%	118	125	6%	0.805	1.267	57%
Car	6	142	281	98%	194	209	8%	0.743	1.349	82%
Car	8	164	426	160%	301	322	7%	0.544	1.344	147%
Van	4	98	140	43%	145	125	-14%	0.678	1.117	65%
Van	6	149	269	81%	213	217	2%	0.722	1.238	71%
Van	8	168	273	62%	322	312	-3%	0.520	0.875	68%
Truck SUV	4	94	182	94%	121	146	21%	0.775	1.255	62%
Truck SUV	6	148	274	85%	214	215	1%	0.703	1.274	81%
Truck SUV	8	183	354	93%	338	333	-1%	0.541	1.066	97%
Pickup	4	97	168	73%	142	168	19%	0.685	1.000	46%
Pickup	6	142	281	98%	229	231	1%	0.644	1.241	93%
Pickup	8	180	342	90%	329	322	-2%	0.544	1.062	95%

Table 19 shows similar data to those in Table 18, but the stratification is based on vehicle weight. This table clearly shows that, for nearly every case for which a comparison can be made between 1988 and 2012, there were increases in HP, decreases in CID, and substantial increases in specific power ranging from 41 to 255%.

Table 19

Changes in Horsepower and Specific Power by Vehicle Type and Weight

Cars

Weight (lb)	HP 1988	HP 2012	Percent Change	CID 1988	CID 2012	Percent Change	HP/CID 1988	HP/CID 2012	Percent Change
2000	59	70	19%	77	61	-21%	0.770	1.148	49%
2250	73	94	29%	90	81	-10%	0.808	1.160	44%
2500	79	105	33%	100	91	-9%	0.785	1.156	47%
2750	97	114	18%	123	94	-24%	0.804	1.212	51%
3000	114	145	27%	145	112	-23%	0.797	1.295	62%
3500	150	179	19%	212	145	-32%	0.731	1.246	70%
4000	160	259	62%	289	194	-33%	0.569	1.344	136%
4500	144	338	135%	305	250	-18%	0.474	1.377	191%
5000	207	400	93%	408	257	-37%	0.509	1.547	204%
5500	205	557	172%	412	374	-9%	0.498	1.490	199%
6000	205	556	171%	412	383	-7%	0.498	1.464	194%

Vans

Weight (lb)	HP 1988	HP 2012	Percent Change	CID 1988	CID 2012	Percent Change	HP/CID 1988	HP/CID 2012	Percent Change
3500	123	136	11%	166	122	-27%	0.736	1.115	51%
4500	169	270	60%	321	216	-33%	0.528	1.247	136%
5000	156	233	49%	312	245	-21%	0.500	0.978	96%
5500	195	294	51%	347	321	-7%	0.562	0.914	63%
6000	126	268	113%	379	318	-16%	0.332	0.843	154%

Truck SUVs

Weight (lb)	HP 1988	HP 2012	Percent Change	CID 1988	CID 2012	Percent Change	HP/CID 1988	HP/CID 2012	Percent Change
3500	149	173	16%	213	147	-31%	0.709	1.182	67%
4000	135	213	58%	190	170	-11%	0.723	1.271	76%
4500	148	267	80%	312	213	-32%	0.494	1.261	155%
5000	181	290	60%	330	221	-33%	0.545	1.314	141%
5500	200	369	84%	350	310	-11%	0.572	1.219	113%
6000	162	337	108%	368	326	-11%	0.445	1.041	134%

Pickups

Weight (lb)	HP 1988	HP 2012	Percent Change	CID 1988	CID 2012	Percent Change	HP/CID 1988	HP/CID 2012	Percent Change
3500	130	179	38%	184	176	-4%	0.719	1.015	41%
4000	154	212	38%	282	213	-24%	0.555	0.998	80%
4500	174	240	38%	322	250	-22%	0.539	0.964	79%
5000	193	271	40%	342	263	-23%	0.565	1.045	85%
5500	178	337	89%	363	315	-13%	0.495	1.080	118%
6000	140	360	157%	379	285	-25%	0.369	1.311	255%

Figure 24 shows that increases in HP per CID apply to all of the engines, except for a few cases of engines with three valves. Engines with more valves per cylinder deliver higher values of HP per CID. Engines with *only* two valves per cylinder deliver over twice as much horsepower per CID than they used to.

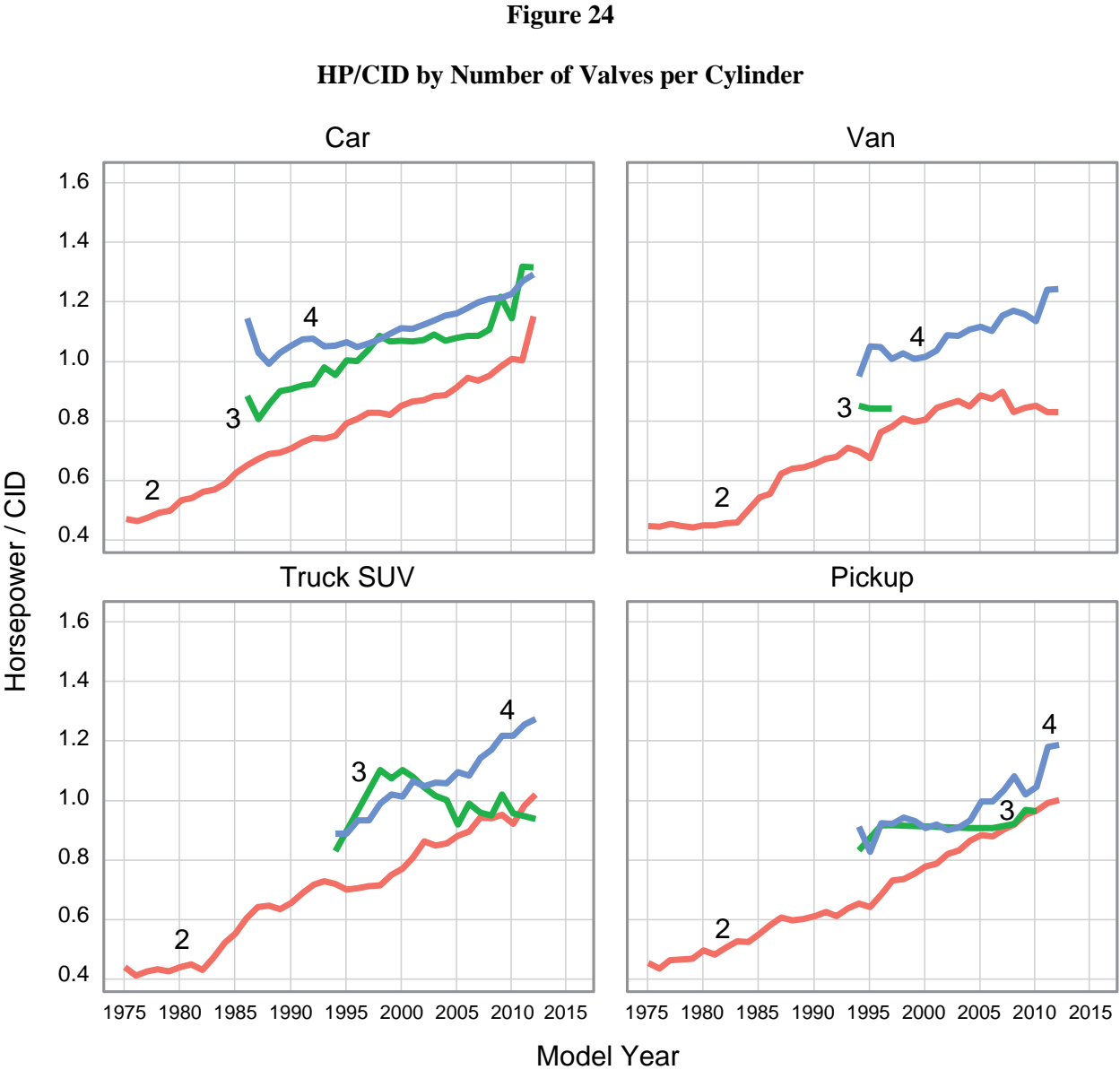


Figure 25 shows that usage of multi-valve engines continues to increase and, as shown in Table 17 for MY 2012, is now 85-95% for cars, vans and SUVs, and over 50% for pickups.

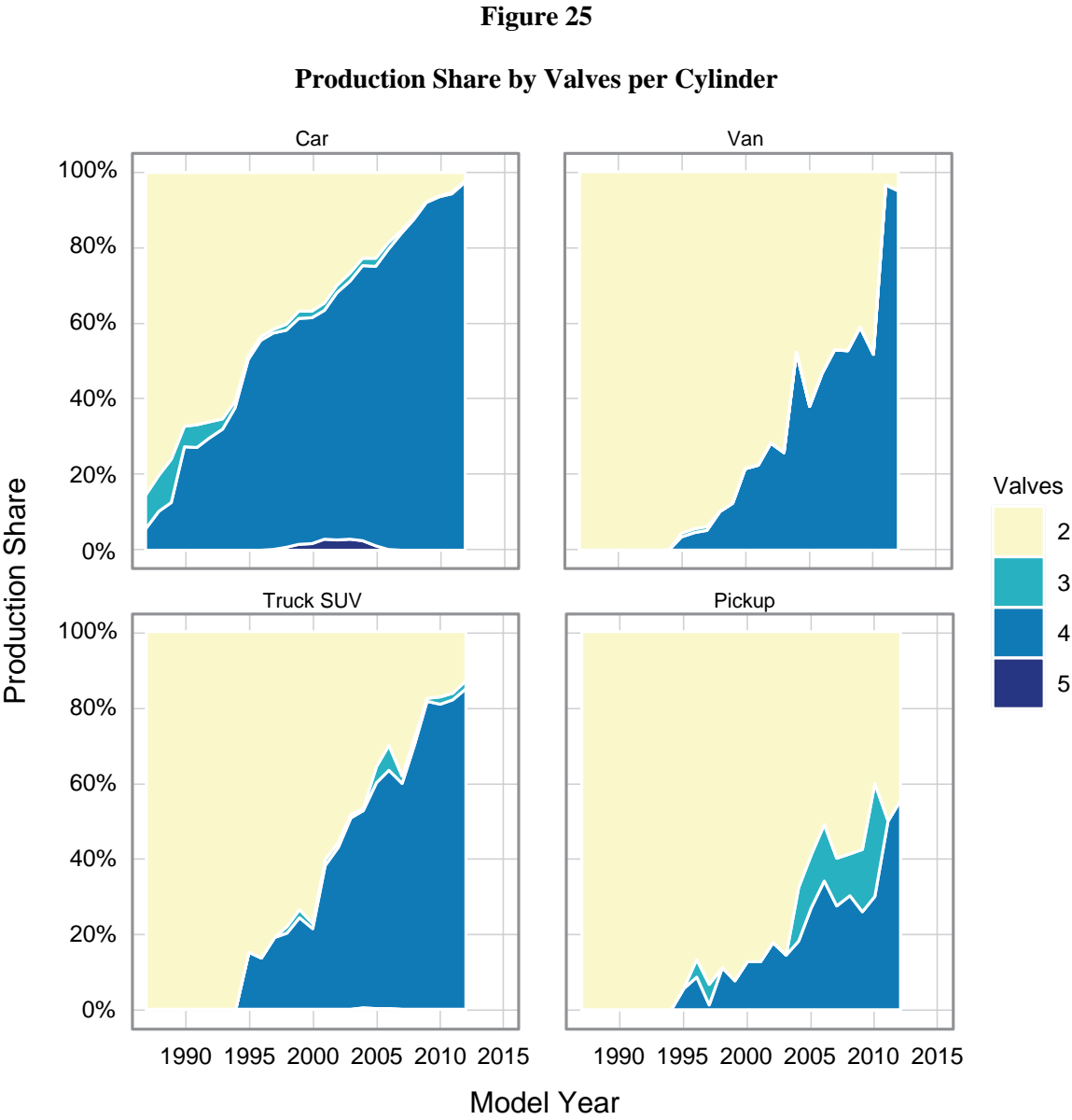


Figure 26 and Table 20 show how the car and truck fleet have evolved from one that consisted almost entirely of carbureted engines in the 1970s and early 1980s, to one which was almost entirely port fuel injected with variable valve timing a few years ago, to one with increasing share of gasoline direct injection engines.

Figure 26

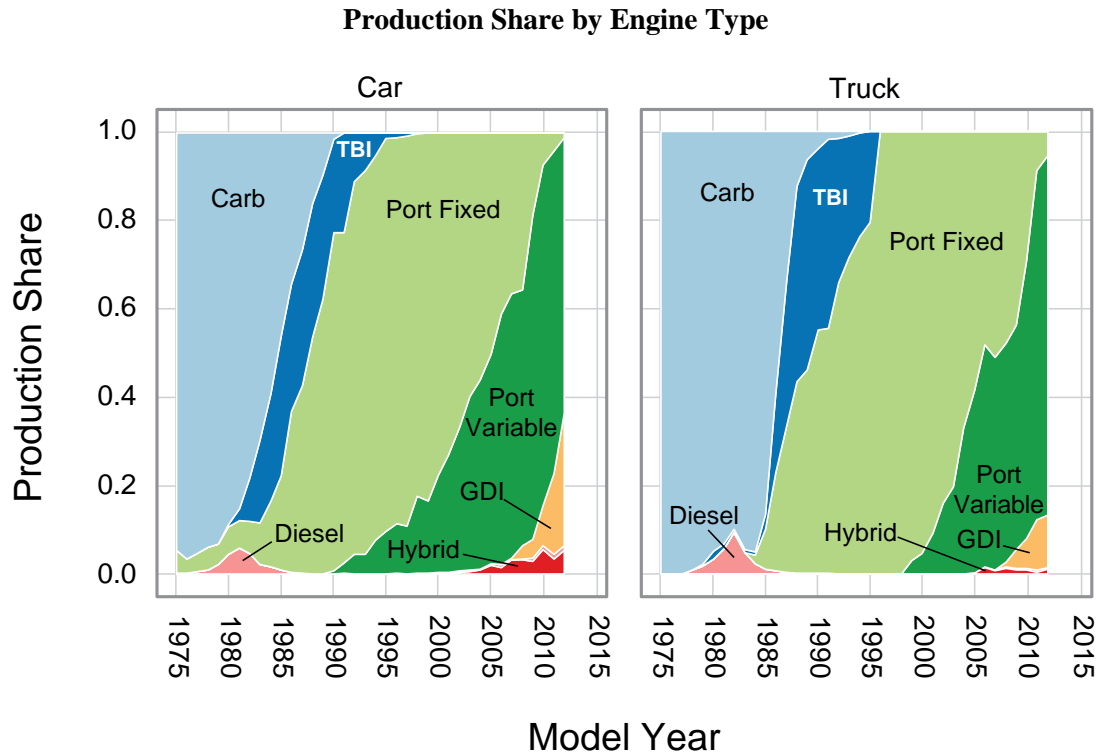


Table 20

**Production Share of MY 1988 and MY 2012 Light Vehicles
by Engine Type and Valve Timing**

Engine Type	Cars		Vans		Truck SUVs		Truck Pickups		All	
	1988	2012	1988	2012	1988	2012	1988	2012	1988	2012
Carb	16%	-	0%	-	18%	-	16%	-	15%	-
TBI	30%	-	43%	-	35%	-	48%	-	34%	-
Port Fixed	54%	1%	57%	11%	47%	3%	35%	8%	51%	3%
Port Variable	-	63%	-	89%	-	79%	-	82%	-	69%
GDI Variable	-	30%	-	-	-	16%	-	10%	-	23%
Diesel	0%	1%	0%	-	0%	1%	0%	-	0%	1%
Hybrid	-	5%	-	-	-	2%	-	0%	-	4%

Table 21 compares horsepower, engine size (CID), specific power (HP/CID), Ton- mpg, and estimated 0-to-60 acceleration time for two selected MY 1988 and five MY 2012 engine types.

Table 21
**Comparison of MY 1988 and MY 2012 Cars by Engine Fuel Metering,
Number of Valves and Valve Timing**

Fuel Metering	Number of Valves	Valve Timing	HP 1988	HP 2012	CID 1988	CID 2012	HP/CID 1988	HP/CID 2012	Ton MPG 1988	Ton MPG 2012	0-to-60 Time 1988	0-to-60 Time 2012
Carb	-	Fixed	88	-	131	-	0.75	-	37.2	-	14.3	-
TBI	4	Fixed	71	-	91	-	0.78	-	38.1	-	15.0	-
Port	2	Variable	-	368	-	353	-	1.04	-	43.1	-	6.6
Port	4	Variable	-	180	-	145	-	1.24	-	46.5	-	9.9
TBI	2	Fixed	98	-	142	-	0.71	-	36.9	-	13.7	-
GDI	4	Variable	-	220	-	154	-	1.44	-	47.5	-	8.9
Port	2	Fixed	137	389	193	312	0.74	1.19	36.6	37.3	11.9	6.9

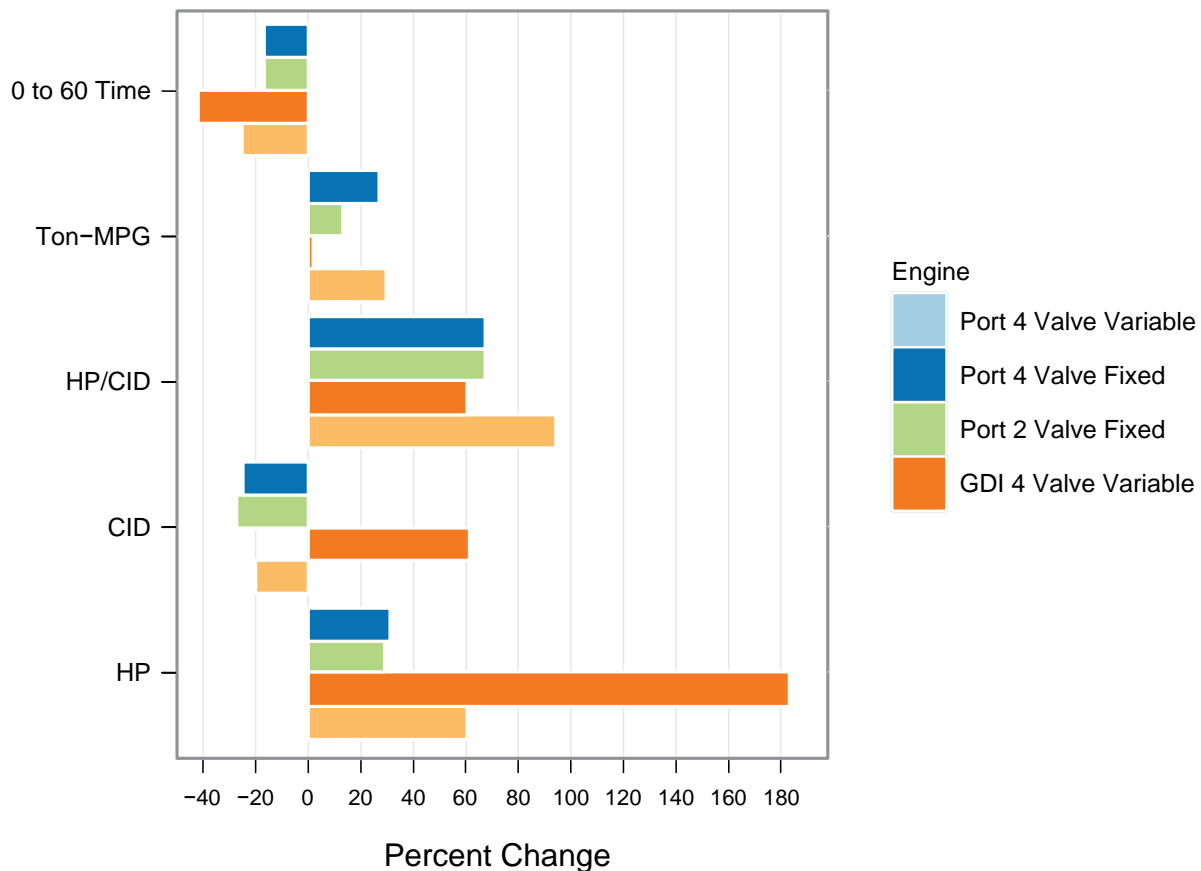
Percent Change over MY 1988 Port Two Valve, Fixed Valve Timing Base Model

Fuel Metering	Number of Valves	Valve Timing	HP 1988	HP 2012	CID 1988	CID 2012	HP/CID 1988	HP/CID 2012	Ton MPG 1988	Ton MPG 2012	0-to-60 Time 1988	0-to-60 Time 2012
Carb	-	Fixed	-35.8%	-	-32.1%	-	1.4%	-	1.6%	-	20.2%	-
TBI	4	Fixed	-48.2%	-	-52.8%	-	5.4%	-	4.1%	-	26.1%	-
Port	2	Variable	-	168.6%	-	82.9%	-	40.5%	-	17.8%	-	-44.5%
Port	4	Variable	-	31.4%	-	-24.9%	-	67.6%	-	27.0%	-	-16.8%
TBI	2	Fixed	-28.5%	-	-26.4%	-	-4.1%	-	0.8%	-	15.1%	-
GDI	4	Variable	-	60.6%	-	-20.2%	-	94.6%	-	29.8%	-	-25.2%
Port	2	Fixed	-	183.9%	-	61.7%	-	60.8%	-	1.9%	-	-42.0%

Because MY 1988 was the peak year for car fuel economy until recently, and because the two valve, fixed valve timing, port injected engine accounted for about half of the car engines built that year, the MY 1988 version of this engine was selected as a baseline engine with its average characteristics compared to four MY 2012 engine configurations. As shown in Figure 27, all of these MY 2012 engine types had substantially higher horsepower than the baseline MY 1988 engine, and substantially higher specific power. Not all of these improvements in engine design for these engine types that occurred between 1988 and 2012 were used to improve fuel economy as indicated by the nominal 20% decrease in 0-to-60 time each achieved. Obtaining increased power to weight in a time when weight is trending upwards implies that horsepower is increasing significantly.

Figure 27

**Percent Difference in MY 2012 Vehicle Characteristics from MY 1988
Port/2 Valve/Fixed Valve Timing Car Engine**



For the current model year fleet, specific power has been studied at an even more detailed level of stratification with both car and truck engines being classified according to: (1) the number of valves per cylinder, (2) the manufacturer's fuel recommendation, (3) the presence or absence of an intake boost device such as a turbocharger or supercharger, and (4) whether or not the engine had fixed or variable valve timing. Higher HP/CID is associated with: (a) more valves per cylinder, (b) higher octane fuel, (c) intake boost, and (d) use of variable valve timing. The technical approaches result in specific power ranges for cars and trucks from about .9 to about 1.8. The relative production fractions in Table 22 are just for each technical option in the table and exclude hybrids.

Table 22 shows the incremental effect, on a production weighted basis, of adding each technical option, but not all of the technical options are production significant. The effect of the use of higher octane fuel cannot be discounted, because roughly 15% of the current car fleet is comprised of vehicles which use engines for which high octane fuel is recommended. By comparison, about 7% of this year's light trucks require premium fuel.

Engine technology which delivers improved specific power thus can be used in many ways ranging from reduced displacement and improved fuel economy at constant (or lower) performance, to increased performance and the same fuel economy at constant displacement.

Table 22**HP/CID and Production Share by Fuel and Engine Technology**

MY 2012 Cars									
Fuel	Boost	Valve Timing	2 Valve HP / CID	2 Valve Production Fraction	3 Valve HP / CID	3 Valve Production Fraction	4 Valve HP / CID	4 Valve Production Fraction	Total Production Fraction
Regular	No Boost	Fixed	1.05	0.5%	-	-	1.23	0.2%	0.7%
Regular	No Boost	Variable	1.13	1.3%	1.31	0.4%	1.23	79.2%	80.9%
Regular	Boosted	Fixed	1.53	0.0%	-	-	-	-	0.0%
Regular	Boosted	Variable	-	-	-	-	1.74	3.8%	3.8%
Premium	No Boost	Fixed	1.20	0.1%	-	-	1.37	0.0%	0.2%
Premium	No Boost	Variable	1.08	0.1%	-	-	1.33	7.8%	7.9%
Premium	Boosted	Fixed	1.54	0.2%	1.64	0.0%	-	-	0.2%
Premium	Boosted	Variable	1.22	0.0%	1.56	0.0%	1.82	5.3%	5.3%
Diesel	Boosted	-	-	-	-	-	1.17	1.1%	1.1%
Total	-	-	-	2.2%	-	0.4%	-	97.3%	100.0%

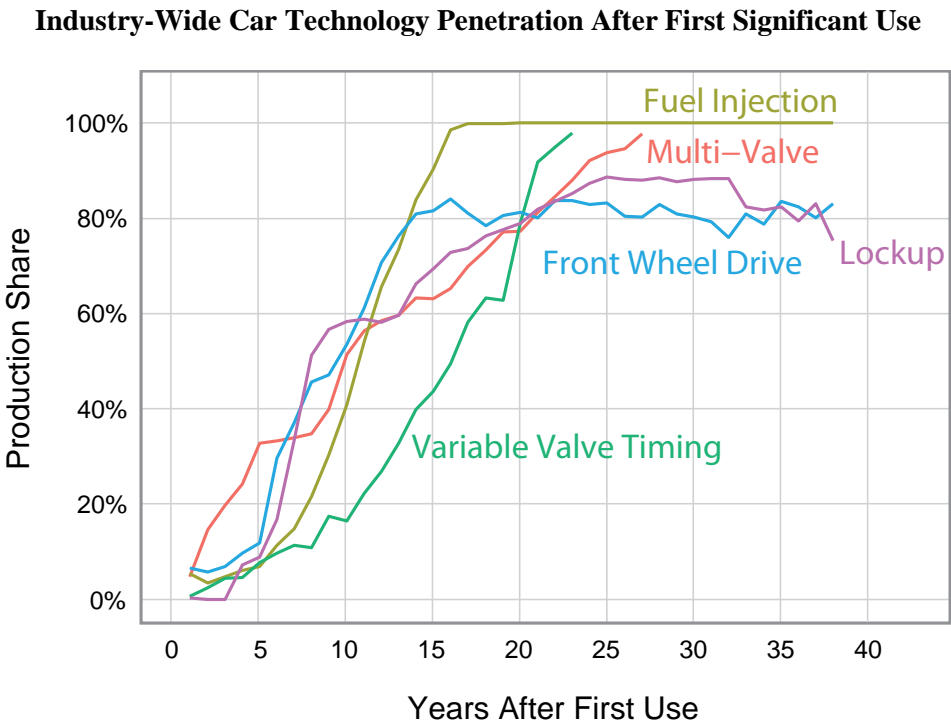
MY 2012 Trucks									
Fuel	Boost	Valve Timing	2 Valve HP / CID	2 Valve Production Fraction	3 Valve HP / CID	3 Valve Production Fraction	4 Valve HP / CID	4 Valve Production Fraction	Total Production Fraction
Regular	No Boost	Fixed	0.90	4.5%	-	-	1.11	1.0%	5.5%
Regular	No Boost	Variable	1.02	16.2%	0.94	1.2%	1.21	66.8%	84.1%
Regular	Boost	Variable	-	-	-	-	1.70	3.2%	3.2%
Premium	No Boost	Fixed	1.20	0.1%	-	-	-	-	0.1%
Premium	No Boost	Variable	-	-	-	-	1.27	4.1%	4.1%
Premium	Boost	Variable	-	-	-	-	1.81	2.5%	2.5%
Diesel	Boost	-	-	-	-	-	1.27	0.5%	0.5%
Total	-	-	-	20.7%	-	1.2%	-	78.2%	100.0%

One engine technology development that began in MY 2005 is the reintroduction of cylinder deactivation, an automotive technology that was used by General Motors in some MY 1981 V-8 engines that could be operated in 8-, 6- and 4-cylinder modes. This approach, which has also been called by a number of names including 'variable displacement', 'displacement on demand', 'active fuel management' and 'multiple displacement', involves allowing the valves of selected cylinders of the engine to remain closed and interrupting the fuel supply to these cylinders when engine power demands are below a predetermined threshold, as typically happens under less demanding driving conditions, such as steady state operation or during idle. Under light load conditions, the engine can thus provide better fuel mileage than would otherwise be achieved. Although frictional and thermodynamic energy losses still occur in the cylinders that are not being used, these losses are more than offset by the increased load and reduced specific fuel consumption of the remaining cylinders. Typically half of the usual number of cylinders is deactivated. Challenges to the engine designer for this type of engine include mode transitions, idle quality, and noise and vibration. For MY 2012, as shown previously in Table 13, it is estimated that about 8% of all vehicles are equipped with cylinder deactivation.

Figure 28 compares historical industry-wide market penetration rates for five mature passenger car technologies, namely fuel injection (summing the values for all of the individual fuel injection technologies in Table 13), front wheel drive (FWD), multi-valve engines (i.e., engines with more than two valves per cylinder), engines with variable valve timing, and lockup transmissions. Figure 28 indicates that, in the past, after the first

significant use, it has often taken an additional decade for a new technology to attain an industry-wide car production fraction of 20 to 60%, and often as long as another five or ten years to reach maximum market penetration.

Figure 28



For the first time in this report, EPA is presenting a disaggregation of the above historical industry-wide technology penetration data to see what can be learned about the pace of technology deployment by individual manufacturers. For the same five technologies shown in Figure 28, Table 23 shows the maximum technology penetration rates for cars and trucks combined over 1-year, 3-year, and 5-year intervals for 13 individual manufacturers, along with the specific years associated with each value.

Table 23

Maximum Penetration Rates for Individual Manufacturers for 5 Mature Technologies

Front Wheel Drive

Manufacturer	1-year		3-year		5-year	
	% change	Timespan	% change	Timespan	% change	Timespan
GM	23%	1979-1980	34%	1983-1986	50%	1983-1988
Toyota	46%	1985-1986	58%	1985-1988	66%	1983-1988
Ford	23%	1980-1981	39%	1979-1982	42%	1977-1982
Honda	N/A	N/A	N/A	N/A	N/A	N/A
Chrysler-Fiat	30%	1980-1981	57%	1978-1981	70%	1977-1982
Nissan	29%	1984-1985	53%	1980-1983	71%	1978-1983
Hyundai	2%	2010-2011	2%	2008-2011	2%	2006-2011
Kia	9%	2000-2001	12%	2008-2011	17%	2005-2010
BMW	15%	2011-2012	19%	2002-2005	28%	2000-2005
VW	N/A	N/A	N/A	N/A	N/A	N/A
Subaru	31%	1991-1992	31%	1989-1992	31%	1987-1992
Daimler	48%	1982-1983	54%	1981-1984	54%	1979-1984
Mazda	36%	1980-1981	59%	1980-1983	75%	1979-1984
Maximum	48%		59%		75%	

Fuel Injection

Manufacturer	1-year		3-year		5-year	
	% change	Timespan	% change	Timespan	% change	Timespan
GM	17%	1984-1985	42%	1984-1987	61%	1984-1989
Toyota	34%	1989-1990	48%	1988-1991	53%	1981-1986
Ford	28%	1986-1987	65%	1982-1985	96%	1982-1987
Honda	29%	1985-1986	61%	1987-1990	91%	1985-1990
Chrysler-Fiat	27%	1987-1988	53%	1983-1986	74%	1983-1988
Nissan	40%	1987-1988	49%	1985-1988	68%	1983-1988
Hyundai	84%	1989-1990	100%	1987-1990	100%	1986-1991
Kia	N/A	N/A	N/A	N/A	N/A	N/A
BMW	55%	1976-1977	55%	1975-1978	58%	1976-1981
VW	36%	1976-1977	65%	1976-1979	65%	1976-1981
Subaru	26%	1989-1990	55%	1984-1987	74%	1983-1988
Daimler	N/A	N/A	N/A	N/A	N/A	N/A
Mazda	94%	1985-1986	99%	1983-1986	100%	1982-1987
Maximum	94%		99%		100%	

Lockup

Manufacturer	1-year		3-year		5-year	
	% change	Timespan	% change	Timespan	% change	Timespan
GM	39%	1980-1981	86%	1979-1982	93%	1978-1983
Toyota	27%	1983-1984	41%	1983-1986	57%	1982-1987
Ford	22%	1981-1982	44%	1979-1982	56%	1978-1983
Honda	23%	1982-1983	37%	1982-1985	51%	1982-1987
Chrysler-Fiat	53%	1977-1978	65%	1986-1989	71%	1985-1990
Nissan	15%	1982-1983	39%	1980-1983	48%	1980-1985
Hyundai	37%	1986-1987	53%	1986-1989	53%	1986-1991
Kia	11%	1994-1995	14%	1993-1996	24%	1993-1998
BMW	47%	1984-1985	49%	1983-1986	73%	1984-1989
VW	38%	2010-2011	38%	2008-2011	48%	1989-1994
Subaru	28%	1982-1983	33%	1981-1984	39%	1988-1993
Daimler	83%	1996-1997	100%	1994-1997	100%	1992-1997
Mazda	23%	1987-1988	49%	1986-1989	50%	1984-1989
Maximum	83%		100%		100%	

Multi-Valve

Manufacturer	1-year		3-year		5-year	
	% change	Timespan	% change	Timespan	% change	Timespan
GM	17%	2011-2012	27%	2009-2012	46%	2007-2012
Toyota	N/A	N/A	N/A	N/A	N/A	N/A
Ford	24%	2004-2005	39%	2004-2007	59%	2004-2009
Honda	N/A	N/A	N/A	N/A	N/A	N/A
Chrysler-Fiat	45%	1994-1995	64%	1993-1996	77%	1992-1997
Nissan	9%	1989-1990	18%	1989-1992	23%	1991-1996
Hyundai	46%	1993-1994	99%	1991-1994	99%	1989-1994
Kia	2%	1995-1996	2%	1993-1996	2%	1993-1998
BMW	53%	1990-1991	95%	1990-1993	98%	1989-1994
VW	26%	1997-1998	41%	1996-1999	55%	1996-2001
Subaru	59%	1994-1995	59%	1992-1995	59%	1990-1995
Daimler	33%	1993-1994	83%	1991-1994	99%	1989-1994
Mazda	19%	1993-1994	25%	1991-1994	40%	1989-1994
Maximum	59%		95%		99%	

VVT

Manufacturer	1-year		3-year		5-year	
	% change	Timespan	% change	Timespan	% change	Timespan
GM	22%	2006-2007	53%	2006-2009	80%	2005-2010
Toyota	38%	1999-2000	75%	1999-2002	90%	1998-2003
Ford	43%	2009-2010	79%	2008-2011	95%	2007-2012
Honda	34%	1997-1998	43%	1996-1999	65%	1997-2002
Chrysler-Fiat	38%	2006-2007	49%	2009-2012	81%	2006-2011
Nissan	34%	1990-1991	52%	1989-1992	52%	1987-1992
Hyundai	53%	2008-2009	65%	2007-2010	65%	2005-2010
Kia	57%	2009-2010	78%	2008-2011	78%	2006-2011
BMW	49%	1991-1992	72%	1989-1992	77%	1991-1996
VW	62%	2009-2010	70%	2007-2010	70%	2005-2010
Subaru	56%	2009-2010	87%	2007-2010	87%	2005-2010
Daimler	43%	2009-2010	73%	2007-2010	73%	2005-2010
Mazda	43%	2003-2004	76%	2002-2005	98%	2002-2007
Maximum	62%		87%		98%	

One important caveat with Table 23 is that, in some cases, individual manufacturers were already at extremely high rates of adoption of some technologies before Trends started collecting data for that technology (for example, Honda had essentially incorporated front wheel drive throughout its entire fleet when EPA starting monitoring front wheel drive data in 1975, and Toyota was using multi-valve engines throughout its fleet when EPA starting monitoring multi-valve data in the mid-1980s). Data for “rates of increase” in these and similar cases are meaningless and are represented as “N/A” in Table 23.

Table 23 shows that individual manufacturers adopted these older technologies at different rates. In the least aggressive cases for individual manufacturers, the maximum 1-year increases were in the 10-20% range, and the fastest 5-year increases were in the 40-50% range. In other cases, some larger manufacturers increased technology share by as much as 30-50% in a single year (some smaller manufacturers had even higher increases) and by as much as 90-95% over a 5-year interval.

Interestingly, all of the data in Table 23 suggest much more rapid technology penetration rates for individual manufacturers than for the industry as a whole. Clearly, these faster technology penetration rates by some individual manufacturers in Table 24 have been masked by EPA’s past presentation of the much slower industry-wide technology penetration rates as shown in Figure 28. In combination, Figure 28 and Table 23 show a historic technology penetration paradigm with much faster technology penetration cycles by some individual manufacturers (with some major manufacturers sometimes adopting technologies across the bulk of their fleets

within 5 years), along with individual manufacturers choosing to adopt the same technologies at different times. This sequencing of individual manufacturer technology penetration cycles, i.e., starting at different times, led to slower technology penetration cycles for the industry as a whole.

Table 24 shows similar manufacturer-specific combined car and truck data for three emerging technologies that are projected to have more than 10% industry-wide production share in MY 2012: 6-speed transmissions (59% share), gasoline direct injection (24% share), and continuously variable transmissions (10% share).

Table 24

Maximum Penetration Rates for Individual Manufacturers for 3 Emerging Technologies

Direct Injection Gasoline

Manufacturer	1-year		3-year		5-year	
	% change	Timespan	% change	Timespan	% change	Timespan
GM	28%	2009-2010	55%	2009-2012	58%	2007-2012
Toyota	2%	2008-2009	3%	2008-2011	4%	2006-2011
Ford	39%	2011-2012	40%	2009-2012	40%	2007-2012
Honda	0%	N/A	0%	N/A	0%	N/A
Chrysler-Fiat	0%	N/A	0%	N/A	0%	N/A
Nissan	7%	2010-2011	7%	2008-2011	7%	2006-2011
Hyundai	53%	2010-2011	62%	2009-2012	62%	2007-2012
Kia	34%	2011-2012	51%	2009-2012	51%	2007-2012
BMW	33%	2011-2012	41%	2009-2012	64%	2007-2012
VW	48%	2007-2008	49%	2006-2009	49%	2004-2009
Subaru	0%	N/A	0%	N/A	0%	N/A
Daimler	73%	2011-2012	74%	2009-2012	74%	2007-2012
Mazda	13%	2011-2012	13%	2009-2012	16%	2007-2012
Maximum	73%		74%		74%	

6-Speed Transmission

Manufacturer	1-year		3-year		5-year	
	% change	Timespan	% change	Timespan	% change	Timespan
GM	31%	2009-2010	80%	2009-2012	95%	2007-2012
Toyota	22%	2010-2011	41%	2008-2011	46%	2006-2011
Ford	18%	2009-2010	48%	2008-2011	70%	2007-2012
Honda	4%	2011-2012	6%	2009-2012	6%	2007-2012
Chrysler-Fiat	19%	2010-2011	36%	2009-2012	42%	2007-2012
Nissan	37%	2011-2012	37%	2009-2012	37%	2007-2012
Hyundai	69%	2010-2011	88%	2008-2011	90%	2006-2011
Kia	67%	2010-2011	100%	2009-2012	100%	2007-2012
BMW	38%	2005-2006	62%	2003-2006	82%	2001-2006
VW	35%	2005-2006	73%	2003-2006	82%	2002-2007
Subaru	7%	2003-2004	7%	2001-2004	7%	1999-2004
Daimler	2%	2000-2001	3%	1999-2002	3%	1997-2002
Mazda	13%	2011-2012	23%	2003-2006	28%	2002-2007
Maximum	38%		80%		95%	

CVT

Manufacturer	1-year		3-year		5-year	
	% change	Timespan	% change	Timespan	% change	Timespan
GM	2%	2002-2003	2%	2000-2003	2%	1998-2003
Toyota	9%	2009-2010	11%	2009-2012	15%	2003-2008
Ford	4%	2004-2005	6%	2003-2006	6%	2001-2006
Honda	4%	2009-2010	4%	2009-2012	4%	2007-2012
Chrysler-Fiat	28%	2006-2007	28%	2004-2007	28%	2002-2007
Nissan	63%	2006-2007	68%	2006-2009	70%	2005-2010
Hyundai	0%	N/A	0%	N/A	0%	N/A
Kia	0%	N/A	0%	N/A	0%	N/A
BMW	3%	2004-2005	6%	2002-2005	7%	2000-2005
VW	2%	2002-2003	4%	2001-2004	5%	2001-2006
Subaru	40%	2009-2010	68%	2009-2012	68%	2007-2012
Daimler	0%	N/A	0%	N/A	0%	N/A
Mazda	0%	N/A	0%	N/A	0%	N/A
Maximum	63%		68%		70%	

The data in Table 24 are much more variable. Some manufacturers have not adopted certain technologies whatsoever, while other manufacturers have 1-year technology share growth rates as high as 60-70%, and some larger manufacturers have 5-year technology share growth rates as high as 70-95%. Like the data in Table 23, the data in Table 24 on emerging technologies suggest a sequencing of individual manufacturer technology penetration cycles.

Table 25 compares fuel economy ratings, the ratio of highway to city fuel economy, and ton-mpg of the MY 2012 diesel and hybrid vehicles with those for the average MY 2012 car and truck. Most of the hybrid vehicles in the table have a lower highway/city ratio than the average car or truck. In addition, there are several cases in the table for which the highway to city ratio is less than 1.0, and these represent cases where a vehicle achieves higher fuel economy in city than in highway driving. This year's diesel cars achieve ton-mpg values that are roughly the same as some of the hybrid cars. For MY 2012, the Toyota Prius has the highest adjusted composite fuel economy value for any hybrid of 49.3 mpg and several diesel vehicles have adjusted composite fuel economy values of 35-36 mpg. The Prius achieves 86 ton-mpg, which is 78% higher than that of the average car.

Most of the vehicles in Table 25 have conventionally powered counterparts. Tables 26 and 27 compare the adjusted composite fuel economy and an estimate of annual fuel usage (assuming 15,000 miles per year) for these vehicles with their conventionally powered (baseline) counterparts. The comparisons in both tables are limited to a basis of model name, drive, weight, transmission, and engine size (CID). Differences in the performance attributes of these vehicles complicate the analysis of the fuel economy improvement potential due to hybridization and dieselization. In particular, hybrid vehicles are sometimes reported to have faster 0-to-60 acceleration times than their conventional counterparts, while vehicles equipped with diesel engines often have higher low-end torque, but slower 0-to-60 times. In addition, some hybrid vehicles use technologies such as cylinder deactivation and CVT transmissions that are not offered in their counterparts.

Fuel economy improvements for the hybrid vehicles in Table 26 vary considerably from 5-10% for the larger, luxury hybrid vehicles to over 40%. Similarly, Table 27 shows fuel economy improvements for diesels range from 10% to 40%.

Table 25

Characteristics of MY 2012 Diesel and Hybrid Vehicles

Diesel Cars

Model Name	Transmission	Weight (lb)	CID (cu in)	Lab 55/45 MPG	Adj City MPG	Adj Hwy MPG	Adj Comp MPG	Ton- MPG	Hwy/ City Ratio
A3	A6	3500	120	46.1	29.8	41.5	35.5	62.2	1.4
E 350 BLUETEC	L7	4500	182	33.3	21.5	32.4	26.6	59.8	1.5
GOLF	A6	3500	120	46.1	29.8	41.5	35.5	62.2	1.4
GOLF	M6	3500	120	46.1	29.7	41.9	35.6	62.3	1.4
Jetta	A6	3500	120	46.1	29.8	41.5	35.5	62.2	1.4
Jetta	M6	3500	120	46.1	29.7	41.9	35.6	62.3	1.4
JETTA SPORTWAGEN	A6	3500	120	44.2	28.9	39.5	34.1	59.6	1.4
JETTA SPORTWAGEN	M6	3500	120	46.1	29.7	41.9	35.6	62.3	1.4
Passat	A6	3500	120	44.6	30.5	40.2	35.3	61.9	1.3
Passat	M6	3500	120	46.4	30.8	42.6	36.6	64.0	1.4
S 350 BLUETEC 4MATIC	L7	5000	182	32.3	20.9	31.4	25.8	64.6	1.5
Fleetwide Cars		3482	150	34.6	22.9	31.8	27.3	48.3	1.4

Hybrid Cars

Model Name	Transmission	Weight (lb)	CID (cu in)	Lab 55/45 MPG	Adj City MPG	Adj Hwy MPG	Adj Comp MPG	Ton- MPG	Hwy/ City Ratio
ActiveHybrid 5	L8	4500	183	33.2	22.8	30.3	26.5	59.7	1.3
ActiveHybrid 7	L8	5000	269	25.6	17.2	24.1	20.5	51.3	1.4
ActiveHybrid 7L	L8	5000	269	25.6	17.2	24.1	20.5	51.3	1.4
CAMRY HYBRID LE	CVT	3500	152	57.4	42.7	39.4	40.8	71.4	0.9
CAMRY HYBRID XLE	CVT	4000	152	54.8	40.5	38.4	39.3	78.5	0.9
CIVIC HYBRID	CVT	3000	92	63.1	43.9	44.5	44.2	66.4	1.0
CR-Z	CVT	3000	92	50.1	34.8	39.1	37.1	55.7	1.1
CR-Z	M6	3000	92	44.9	31.3	36.7	34.2	51.2	1.2
CT 200h	CVT	3500	110	57.5	42.8	40.2	41.3	72.2	0.9
ESCAPE HYBRID FWD	CVT	4000	153	44.1	34.0	30.5	31.9	63.9	0.9
FUSION HYBRID FWD	CVT	4000	153	54.2	41.4	36.4	38.4	76.8	0.9
HS 250h	CVT	4000	144	47.3	35.4	33.6	34.3	68.7	1.0
INSIGHT	CVT	3000	79	58.9	40.8	44.3	42.7	64.1	1.1
LACROSSE	L6	4000	146	38.0	24.5	35.9	29.9	59.8	1.5
LS 600h L	CVT	5500	303	26.9	18.6	23.3	21.0	57.7	1.3
M35h	L7	4500	214	38.8	26.8	32.2	29.6	66.7	1.2
MKZ HYBRID FWD	CVT	4000	153	54.2	41.4	36.4	38.4	76.8	0.9
OPTIMA HYBRID	A6	3500	146	N/A	34.0	39.0	36.7	64.2	1.1
Panamera S Hybrid	L8	4500	183	34.4	22.3	30.3	26.3	59.1	1.4
PRIUS	CVT	3500	110	70.7	50.7	48.2	49.3	86.2	0.9
PRIUS c	CVT	2750	91	70.7	52.5	46.3	48.8	67.1	0.9
PRIUS v	CVT	3500	110	58.7	43.5	40.2	41.6	72.8	0.9
REGAL	L6	4000	146	38.0	24.5	35.9	29.9	59.8	1.5
RX 450h	CVT	5000	211	40.4	31.5	27.9	29.4	73.4	0.9
S400 HYBRID	L7	5000	213	27.5	18.6	25.1	21.9	54.6	1.3
SONATA HYBRID	A6	3500	146	N/A	34.0	39.0	36.7	64.2	1.1
Fleetwide Cars		3482	150	34.6	22.9	31.8	27.3	48.3	1.4

Table 25 (continued)

Diesel Trucks

Model Name	Transmission	Weight (lb)	CID (cu in)	Lab 55/45 MPG	Adj City MPG	Adj Hwy MPG	Adj Comp MPG	Ton- MPG	Hwy/ City Ratio
GL 350 BLUETEC 4MATIC	L7	6000	182	24.7	16.9	21.4	19.2	57.6	1.3
ML 350 BLUETEC 4MATIC	L7	5500	182	29.4	19.7	26.9	23.3	64.0	1.4
Q7	L8	6000	181	26.0	17.5	24.9	21.1	63.2	1.4
R 350 BLUETEC 4MATIC	L7	5500	182	26.5	17.9	22.9	20.4	56.2	1.3
TOUAREG	L8	5000	181	28.9	19.1	27.9	23.3	58.2	1.5
X5 xDrive35d	L6	5500	183	28.1	18.8	26.1	22.4	61.6	1.4
Fleetwide Trucks		4779	234	24.3	16.4	22.5	19.4	46.5	1.4

Hybrid Trucks

Model Name	Transmission	Weight (lb)	CID (cu in)	Lab 55/45 MPG	Adj City MPG	Adj Hwy MPG	Adj Comp MPG	Ton- MPG	Hwy/ City Ratio
C15 SIERRA 2WD HYBRID	CVT	6000	366	28.5	19.8	22.9	21.5	64.4	1.2
C15 SILVERADO 2WD HYBRID	CVT	6000	366	28.5	19.8	22.9	21.5	64.4	1.2
C1500 TAHOE 2WD HYBRID	CVT	6000	366	28.5	19.8	22.9	21.5	64.4	1.2
C1500 YUKON 2WD HYBRID	CVT	6000	366	28.5	19.8	22.9	21.5	64.4	1.2
Cayenne S Hybrid	L8	5500	183	28.1	19.9	23.8	21.9	60.3	1.2
ESCALADE 2WD HYBRID	CVT	6000	366	28.5	19.8	22.9	21.5	64.4	1.2
ESCALADE 4WD HYBRID	CVT	6500	366	28.0	20.0	23.3	21.7	70.6	1.2
ESCAPE HYBRID AWD	CVT	4000	153	39.0	30.4	27.2	28.5	57.0	0.9
HIGHLANDER HYBRID 4WD	CVT	5000	211	38.5	27.6	27.6	27.6	69.0	1.0
K15 SIERRA 4WD HYBRID	CVT	6000	366	28.4	19.7	22.7	21.3	63.9	1.2
K15 SILVERADO 4WD HYBRID	CVT	6000	366	28.4	19.7	22.7	21.3	63.9	1.2
K1500 TAHOE 4WD HYBRID	CVT	6000	366	28.4	19.7	22.7	21.3	63.9	1.2
K1500 YUKON 4WD HYBRID	CVT	6000	366	28.4	19.7	22.7	21.3	63.9	1.2
K1500 YUKON DENALI HYBRID 4WD	CVT	6500	366	28.0	20.0	23.3	21.7	70.6	1.2
RX 450h AWD	CVT	5000	211	38.6	29.5	27.6	28.4	70.9	0.9
Touareg Hybrid	L8	5500	183	28.2	19.9	23.8	21.9	60.3	1.2
Fleetwide Trucks		4779	234	24.3	16.4	22.5	19.4	46.5	1.4

Table 26

Comparison of MY 2012 Hybrid Vehicles with Their Conventional Counterparts

Model Name	Hybrid					Baseline					Improvement	
	Weight (lb)	CID	Trans	Adj Comp MPG	Gal per Year*	Weight (lb)	CID	Trans	Adj Comp MPG	Gal per Year*	Adj Comp MPG	Gal per Year*
ActiveHybrid 5	4500	183	L8	26.5	565	4500	183	L8	24.8	606	7%	41
ActiveHybrid 7	5000	269	L8	20.5	731	4500	269	L6	18.0	832	14%	101
ActiveHybrid 7L	5000	269	L8	20.5	731	5000	269	L6	17.8	844	16%	114
C15 SIERRA 2WD HYBRID	6000	366	CVT	21.5	699	5500	378	L6	15.0	1002	43%	303
C15 SILVERADO 2WD HYBRID	6000	366	CVT	21.5	699	5500	378	L6	15.0	1002	43%	303
C1500 TAHOE 2WD HYBRID	6000	366	CVT	21.5	699	6000	323	L6	17.9	840	20%	141
C1500 YUKON 2WD HYBRID	6000	366	CVT	21.5	699	6000	323	L6	17.9	840	20%	141
CAMRY HYBRID LE	3500	152	CVT	40.8	368	3500	152	L6	29.6	507	38%	139
CAMRY HYBRID XLE	4000	152	CVT	39.3	382	3500	152	L6	29.6	507	33%	125
Cayenne S Hybrid	5500	183	L8	21.9	684	5000	220	L8	19.3	777	13%	93
CIVIC HYBRID	3000	92	CVT	44.2	339	3000	110	L5	33.3	450	33%	111
ESCALADE 2WD HYBRID	6000	366	CVT	21.5	699	6000	378	L6	16.1	934	34%	235
ESCALADE 4WD HYBRID	6500	366	CVT	21.7	690	6000	378	L6	15.3	984	43%	293
ESCAPE HYBRID AWD	4000	153	CVT	28.5	526	4000	183	L6	20.5	730	39%	204
ESCAPE HYBRID FWD	4000	153	CVT	31.9	470	3500	153	L6	24.2	621	32%	151
FUSION HYBRID FWD	4000	153	CVT	38.4	391	4000	153	L6	27.6	544	39%	153
HIGHLANDER HYBRID 4WD	5000	211	CVT	27.6	544	4500	211	L5	19.5	771	42%	227
K15 SIERRA 4WD HYBRID	6000	366	CVT	21.3	704	6000	378	L6	14.7	1017	45%	313
K15 SILVERADO 4WD HYBRID	6000	366	CVT	21.3	704	6000	378	L6	14.8	1016	44%	312
K1500 TAHOE 4WD HYBRID	6000	366	CVT	21.3	704	6000	323	L6	17.6	852	21%	148
K1500 YUKON 4WD HYBRID	6000	366	CVT	21.3	704	6000	323	L6	17.6	852	21%	148
K1500 YUKON DENALI HYBRID 4WD	6500	366	CVT	21.7	690	6000	378	L6	15.3	984	43%	293
LACROSSE	4000	146	L6	29.9	501	4000	220	L6	21.8	688	37%	187
LS 600h L**	5500	303	CVT	21.0	714	4500	281	L8	20.1	748	5%	34
MKZ HYBRID FWD	4000	153	CVT	38.4	391	4000	153	L6	27.6	544	39%	153
OPTIMA HYBRID	3500	146	A	36.7	400	3500	146	L6	29.0	518	27%	108
Panamera S Hybrid	4500	183	L8	26.3	571	4000	220	L7	22.1	679	19%	108
REGAL	4000	146	SL	29.9	501	4000	146	L6	24.7	608	21%	106
RX 450h AWD**	5000	211	CVT	28.4	529	4500	211	L6	20.7	723	37%	195
RX 450h**	5000	211	CVT	29.4	511	4500	211	L6	21.5	698	37%	187
S400 HYBRID**	5000	213	L7	21.9	686	5000	285	L7	18.7	801	17%	114
SONATA HYBRID	3500	146	A	36.7	399	3500	146	L6	28.9	520	27%	108
Touareg Hybrid	5500	183	L8	21.9	684	5000	219	L8	19.5	768	12%	84

*Note: Gallons per year calculation is based on all vehicles being driven 15,000 miles.

** Note: Baseline vehicle used for the GS 450h comparison is the GS 350. Baseline vehicle used for the LS 600HL comparison is the LS 460L. Baseline vehicles used for the Rx 450h and Rx 450h AWD comparison were the Rx 350 and the Rx 350 AWD. Baseline vehicle used for the S400 comparison is the S550 4MATIC. Baseline vehicle used for the MKZ Hybrid is the Fusion. Baseline vehicles used for the Panamera S and Cayenne S Hybrids are the “non-S” Panamera and Cayenne vehicles, respectively.

Table 27

Comparison of MY 2012 Diesel Vehicles with Their Conventional Counterparts

Model Name	Diesel					Baseline					Improvement	
	Weight (lb)	CID	Trans	Adj. Comp. MPG	Gal. per Year*	Weight (lb)	CID	Trans	Adj. Comp. MPG	Gal. per Year*	Adj. Comp. MPG	Gal. per Year*
X5 xDrive35d	5500	183	L6	22.40	669.78	5000	183	L8	19.36	774.60	16%	104.8
E 350 BLUETEC	4500	182	L7	26.58	564.44	4500	213	L7	23.61	635.40	13%	71.0
GL 350 BLUETEC 4MATIC**	6000	182	L7	19.19	781.51	6000	285	L7	15.09	994.10	27%	212.6
ML 350 BLUETEC 4MATIC**	5500	182	L7	23.27	644.52	5000	213	L7	20.29	739.34	15%	94.8
R 350 BLUETEC 4MATIC**	5500	182	L7	20.44	733.78	5500	213	L7	18.60	806.40	10%	72.6
S 350 BLUETEC 4MATIC**	5000	182	L7	25.84	580.53	5000	285	L7	19.60	765.46	32%	184.9
A3	3500	120	L6	35.53	422.18	3500	121	L6	24.84	603.97	43%	181.8
GOLF	3500	120	L6	35.53	422.18	3500	151	L6	27.35	548.39	30%	126.2
GOLF	3500	120	M6	35.61	421.24	3500	151	M5	27.53	544.84	29%	123.6
Jetta	3500	120	L6	35.53	422.18	3500	151	L6	27.35	548.39	30%	126.2
Jetta	3500	120	M6	35.61	421.24	3500	151	M	27.53	544.84	29%	123.6
JETTA SPORTWAGEN	3500	120	L6	34.08	440.16	3500	151	L6	27.35	548.39	25%	108.2
JETTA SPORTWAGEN	3500	120	M6	35.61	421.24	3500	151	M5	27.53	544.84	29%	123.6
Passat	3500	120	L6	35.35	424.39	3500	151	L6	26.28	570.81	35%	146.4
Passat	3500	120	M6	36.59	410.00	3500	151	M5	26.76	560.60	37%	150.6
Q7	6000	181	L8	21.06	712.32	6000	183	L8	18.46	812.37	14%	100.0
TOUAREG	5000	181	L8	23.28	644.40	5000	219	L8	19.54	767.51	19%	123.1

*Note: Gallons per year calculation is based on all vehicles being driven 15,000 miles.

**Note: Baseline version used for the R350 Bluetec comparison is the R350 4MATIC. Baseline version used for the GL350 Bluetec comparison is the GL450 4MATIC. Baseline version used for the ML350 Bluetec comparison is the ML350 4MATIC. Baseline version used for the X5 xDrive 35d comparison is the X5 xDrive 30i.

VII. Fuel Economy by Manufacturer and Make

This report groups vehicles by “manufacturer” and “make.” The initial reports in this series examined fuel economy and technology trends for the "Domestic" and "Import" vehicle categories which are part of the corporate average fuel economy (CAFE) program. Over time, this classification approach evolved into a market segment approach in which cars were apportioned to a "Domestic," "European," and "Asian" category, with trucks classified as "Domestic" or "Imported." More recent reports in this series used “Marketing Groups” to better reflect the financial arrangements and transnational nature of the modern automobile industry.

This report reflects the manufacturer definitions used by the National Highway Traffic Safety Administration (NHTSA) for purposes of implementation of and manufacturer compliance with the CAFE program. Table 28 lists the 13 manufacturers which had production of 100,000 or more gasoline and/or diesel vehicles in MY 2010 and/or MY 2011, which together accounted for approximately 98% of total industry-wide production.

Make is typically included in the model name and is generally equivalent to the “brand” of the vehicle. Table 28 also lists the 28 makes for which data are shown in Tables 29 and 30. The MY 2011 production threshold for makes to be included in Tables 28 through 30 is 40,000 vehicles, though the Smart was included as well because of the high interest in this make. The Mercury make no longer exists, but is included since Tables 29 and 30 also provide data for MY 2010 and 2011.

Table 28

Manufacturers and Makes for MY 2010-2012

Manufacturer	Makes Above Threshold	Makes Below Threshold
General Motors	Chevrolet, Cadillac, Buick, GMC	
Toyota	Toyota, Lexus, Scion	
Ford	Ford, Lincoln, Mercury	Roush, Shelby
Honda	Honda, Acura	
Chrysler-Flat	Chrysler, Dodge, Jeep, Ram	Ferrari, Maserati, Fiat
Nissan	Nissan, Infiniti	
Hyundai	Hyundai	
Kia	Kia	
BMW	BMW, Mini	Rolls Royce
Volkswagen	Volkswagen, Audi	Lamborghini, Bentley, Bugatti
Subaru	Subaru	
Daimler	Mercedes-Benz, Smart	Maybach
Mazda	Mazda	
Others*		

*Note: Other manufacturers below the manufacturer threshold are Mitsubishi, Volvo, Rover, Porsche, Suzuki, Jaguar, Spyker (Saab), Aston Martin, Lotus, VPG

It is important to note that when a manufacturer or make grouping is changed to reflect a change in the industry's current financial structure, EPA makes the same adjustment for the entire historical database back to 1975. This maintains a consistent manufacturer or make definition over time, which allows a better identification of long-term trends. On the other hand, this also means that the current database does not necessarily reflect actual financial or structural arrangements in the past. For example, the 2011 database no longer accounts for the fact that Chrysler was combined with Daimler for several years, and includes Fiat, Ferrari, and Maserati in the Chrysler-Fiat manufacturer grouping for all years even though the financial relationship is very recent.

Automakers submit vehicle production data, rather than vehicle sales data, in formal end-of-year CAFE compliance reports to EPA. Accordingly, the vehicle production data in this report may differ from sales data reported by press sources. In addition, the vehicle production data presented in this report are tabulated on a model year basis. In years past, manufacturers typically used a more consistent approach for model year designations, i.e., from fall of one year to the fall of the following year. More recently, however, many manufacturers have used a more flexible approach and it is not uncommon to see a new or redesigned model be introduced in the spring or summer, with a new model year designation, rather than the fall. This means that a model year for an individual vehicle can be either shortened or lengthened. Accordingly, year-to-year comparisons can be affected by these model year anomalies, though, of course, these even out over a multi-year period.

It is important to note that, on November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data. Hyundai and Kia submitted corrected MY 2011-2013 fuel economy and CO₂ emissions data to EPA and re-labeled the majority of their model year 2012 and 2013 vehicle models on the market. This report uses the corrected fuel economy values submitted by Hyundai and Kia for four MY 2011 vehicles and for a majority of Hyundai and Kia vehicles for MY 2012. The magnitude of the changes between the original fuel economy label values and the corrected fuel economy label values ranges from 1 mpg to 6 mpg. For the changes in fuel economy label values for individual vehicles, see <http://www.epa.gov/fueleconomy/labelchange.htm>. Since EPA's investigation into Hyundai and Kia data submissions is continuing, Hyundai and Kia-specific values are excluded from the following tables that list the fuel economy and CO₂ emissions performance for various manufacturers, but are sometimes provided in table footnotes.

Tables 29 and 30 give laboratory and adjusted fuel economy values for cars, trucks, and cars and trucks combined for MY 2010-2012, for 11 manufacturers and 26 makes. By including data from both MY 2010 and 2011, with formal end-of-year data for both years, it is possible to identify meaningful changes from year-to-year. Because of the uncertainty associated with the MY 2012 projections, changes from MY 2011 to MY 2012 may be less meaningful.

The relative fuel economy comparisons for manufacturers and makes in Tables 29 and 30 will be similar, of course, since the relative offset between laboratory and adjusted values will be approximately similar across manufacturers and makes. The following discussion will be based on the adjusted composite fuel economy data from Table 30.

In MY 2011, 7 of the 11 manufacturers increased fuel economy and the industry reached a fleet average of 22.4 mpg. In terms of manufacturers, Volkswagen had the highest MY 2011 adjusted composite fuel economy of 26.0 mpg, followed by Mazda at 25.0 mpg and Toyota and Honda at 24.1 mpg. Daimler had the lowest MY 2011 adjusted fuel economy for any manufacturer, 19.1 mpg, and was followed by Chrysler-Fiat at 19.4 mpg and GM at 20.7 mpg. In terms of improvement from MY 2010 to MY 2011, Volkswagen had the largest improvement of 1.0 mpg, followed by Ford at 0.7 mpg.

In terms of makes in MY 2011, the Smart make had the highest fuel economy at 36.5 mpg. The Smart Fourtwo is the smallest and lightest car in the U.S. market and has relatively low production. The make with the second-highest fuel economy in MY 2011 was the Mini, which produces a relatively low number of small vehicles, at 30.3 mpg. Of the makes with higher production, for the 11 manufacturers shown, Volkswagen had the highest overall fuel economy at 27.7 mpg, followed by Scion at 26.1 mpg, and Mazda at 25.0 mpg.

Preliminary projections suggest that all of the 11 manufacturers shown will improve fuel economy further in MY 2012, though EPA will not have actual data for MY 2012 until later this year.

Table 31 shows footprint by manufacturer for MY 2010-2012, along with truck production share by manufacturer. GM, Ford, and Chrysler-Fiat had the largest footprint values in MY 2011 at 51-53 square feet, with most of the other manufacturers having average footprint values in the 45-49 square feet range. EPA is not making direct manufacturer footprint comparisons between 2010 and 2011, because we have less confidence in the MY 2010 footprint data. Chrysler-Fiat had the highest MY 2011 truck share at 77%, followed by Subaru at 67%, while Hyundai, Mazda, and BMW had the lowest truck shares, all between 8% and 17%. Industry-wide footprint and truck share are projected to drop in MY 2012.

Table 32 (actual MY 2011) and Table 33 (MY 2012 projections) show the adjusted fuel economy values broken out by manufacturer and vehicle size and type. For example, Honda had the highest small car adjusted composite fuel economy in MY 2011 at 30.5 mpg. Of course, these tables rely on the threshold definitions for small/midsize/large vehicle sizes that have been discussed earlier in this report, and a vehicle that just crosses the threshold into the next largest class can be a fuel economy leader in that class, while it may have been a relatively poor performer in the next smaller class.

For a long-term perspective going back to 1975, Figure 29 shows the adjusted fuel economy values (cars, trucks, and both cars and trucks) and truck production shares for the 13 highest-selling manufacturers. More information for the historic database stratified by manufacturer can be found in Appendices L through P.

Table 29

Laboratory 55/45 Fuel Economy by Manufacturer and Make for MY 2010--2012

Manufacturer	Make	2010 Cars	2010 Trucks	2010 Cars and Trucks	2011 Cars	2011 Trucks	2011 Cars and Trucks	2012 Cars	2012 Trucks	2012 Cars and Trucks
VW	VW	34.4	26.0	33.5	35.4	27.7	34.1	34.5	29.2	33.9
VW	Audi	29.7	24.6	28.0	29.7	26.6	28.7	29.3	26.5	28.5
VW	All	33.1	25.2	31.7	33.5	27.1	32.1	33.2	28.0	32.3
Mazda	All	32.8	25.2	30.9	33.4	24.6	31.7	34.5	24.6	33.0
Toyota	Toyota	40.2	24.3	33.2	37.0	24.9	30.8	41.5	24.6	33.1
Toyota	Lexus	29.4	26.6	28.3	29.7	25.6	28.3	30.9	26.3	29.3
Toyota	Scion	33.1	-	33.1	33.5	-	33.5	35.8	-	35.8
Toyota	All	38.1	24.7	32.4	35.9	24.9	30.6	39.4	24.8	32.8
Subaru	All	30.2	29.6	29.7	30.2	30.4	30.4	35.0	30.5	32.1
Honda	Honda	36.0	26.6	32.2	35.9	26.9	30.9	38.7	28.6	34.3
Honda	Acura	29.1	23.6	27.0	29.9	23.4	25.7	30.5	23.4	27.4
Honda	All	35.1	26.2	31.5	35.4	26.4	30.4	37.7	28.0	33.5
Nissan	Nissan	33.7	23.1	29.8	34.4	24.0	30.1	35.8	25.8	32.2
Nissan	Infiniti	26.4	19.8	24.6	27.1	21.0	25.4	27.6	21.4	26.6
Nissan	All	32.8	22.8	29.3	33.3	23.8	29.6	34.3	25.5	31.4
BMW	BMW	26.1	23.6	25.5	27.8	25.3	27.3	28.4	24.6	27.1
BMW	Mini	37.6	-	37.6	39.3	-	39.3	38.8	-	38.8
BMW	All	28.5	23.6	27.6	29.1	25.3	28.4	30.9	24.6	29.1
Ford	Ford	31.0	21.7	25.5	31.8	23.0	26.5	35.7	23.3	29.5
Ford	Mercury	28.7	24.1	27.7	26.7	26.8	26.7	-	-	-
Ford	Lincoln	25.6	23.7	25.1	27.6	22.0	23.6	27.6	21.9	25.7
Ford	All	30.4	21.8	25.6	31.2	23.0	26.5	35.1	23.3	29.3
GM	Chevrolet	30.7	22.1	27.2	31.0	22.0	26.5	32.1	22.3	27.3
GM	GMC	29.9	22.3	23.7	29.6	22.0	23.3	30.1	21.8	23.6
GM	Buick	26.1	24.0	25.2	27.6	23.8	26.2	30.1	24.0	29.0
GM	Cadillac	25.3	20.8	24.6	25.5	19.9	24.3	25.5	20.4	23.6
GM	All	29.7	22.3	26.5	29.8	22.0	25.7	31.4	22.2	26.7
Chrysler-Fiat	Jeep	-	23.1	23.1	-	23.9	23.9	-	23.8	23.8
Chrysler-Fiat	Dodge	27.8	23.9	25.8	28.4	24.0	25.7	28.8	24.8	26.4
Chrysler-Fiat	Chrysler	27.9	24.3	25.7	28.4	25.7	27.1	29.0	25.9	27.5
Chrysler-Fiat	Ram	-	19.7	19.7	-	19.8	19.8	-	20.4	20.4
Chrysler-Fiat	All	27.7	22.9	24.3	28.2	23.2	24.2	30.8	23.8	25.7
Daimler	Mercedes-Benz	24.5	21.4	23.4	24.9	21.1	23.6	28.3	22.5	26.7
Daimler	Smart	49.1	-	49.1	48.7	-	48.7	50.3	-	50.3
Daimler	All	24.7	21.4	23.6	25.1	21.1	23.7	28.3	22.5	26.7
Other	All	28.9	21.6	25.6	29.9	22.4	26.3	29.4	23.9	27.6
Fleet	All	32.6	23.4	28.4	32.3	23.9	28.1	34.6	24.3	30.0

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data. EPA has not yet released formal, corrected laboratory values for Hyundai and Kia.

Table 30

Adjusted Composite Fuel Economy by Manufacturer and Make for MY 2010-2012

Manufacturer	Make	2010			2011			2012		
		Cars	Trucks	Cars and Trucks	Cars	Trucks	Cars and Trucks	Cars	Trucks	Cars and Trucks
VW	VW	27.1	20.7	26.4	28.9	22.1	27.7	28.1	22.9	27.4
VW	Audi	23.5	19.5	22.1	24.1	21.4	23.2	23.9	21.4	23.2
VW	All	26.1	20.0	25.0	27.3	21.7	26.0	27.0	22.2	26.2
Mazda	All	25.8	20.1	24.4	26.3	19.6	25.0	27.0	19.6	25.9
Toyota	Toyota	30.9	19.4	25.9	28.9	19.8	24.2	31.8	19.5	25.8
Toyota	Lexus	23.3	21.1	22.4	23.6	20.3	22.4	24.4	20.8	23.2
Toyota	Scion	25.9	-	25.9	26.1	-	26.1	27.7	-	27.7
Toyota	All	29.5	19.6	25.4	28.1	19.8	24.1	30.4	19.6	25.6
Honda	Honda	28.3	21.2	25.4	28.3	21.4	24.5	30.1	22.9	27.0
Honda	Acura	23.2	18.8	21.5	23.8	18.6	20.5	24.2	18.5	21.8
Honda	All	27.6	20.9	24.9	27.9	21.1	24.1	29.4	22.3	26.4
Subaru	All	23.8	23.3	23.4	23.9	23.9	23.9	27.4	24.0	25.2
Nissan	Nissan	26.4	18.4	23.5	26.8	19.1	23.7	27.8	20.5	25.2
Nissan	Infiniti	21.1	16.0	19.8	21.7	17.0	20.4	22.0	17.3	21.3
Nissan	All	25.8	18.2	23.1	26.1	19.0	23.3	26.8	20.2	24.6
BMW	BMW	21.1	18.9	20.6	22.4	20.3	21.9	22.5	19.8	21.6
BMW	Mini	29.2	-	29.2	30.3	-	30.3	29.9	-	29.9
BMW	All	22.8	18.9	22.1	23.3	20.3	22.7	24.4	19.8	23.1
Ford	Ford	24.6	17.4	20.3	25.2	18.4	21.1	28.0	18.7	23.4
Ford	Mercury	23.0	19.2	22.1	21.5	21.1	21.4	-	-	-
Ford	Lincoln	20.6	18.9	20.2	22.0	17.7	18.9	22.1	17.6	20.6
Ford	All	24.1	17.5	20.4	24.8	18.4	21.1	27.6	18.6	23.2
GM	Chevrolet	24.5	17.9	21.8	24.9	17.8	21.3	25.6	17.9	21.9
GM	GMC	23.9	18.0	19.1	23.6	17.7	18.7	23.8	17.5	18.9
GM	Buick	21.1	19.4	20.4	22.4	19.2	21.2	24.3	19.0	23.2
GM	Cadillac	20.3	16.9	19.8	20.5	15.6	19.5	20.5	15.7	18.6
GM	All	23.8	18.0	21.3	24.0	17.8	20.7	25.1	17.8	21.4
Chrysler-Fiat	Jeep	-	18.4	18.4	-	19.1	19.1	-	19.0	19.0
Chrysler-Fiat	Dodge	22.2	19.3	20.7	22.8	19.3	20.6	23.2	20.0	21.3
Chrysler-Fiat	Chrysler	22.3	19.7	20.6	23.0	20.8	21.9	23.4	20.9	22.1
Chrysler-Fiat	Ram	-	16.0	16.0	-	16.0	16.0	-	16.5	16.5
Chrysler-Fiat	All	22.1	18.4	19.5	22.7	18.6	19.4	24.6	19.1	20.6
Daimler	Mercedes-Benz	19.7	17.2	18.8	20.1	16.9	19.0	22.7	18.0	21.4
Daimler	Smart	36.8	-	36.8	36.5	-	36.5	36.5	-	36.5
Daimler	All	19.9	17.2	18.9	20.2	16.9	19.1	22.7	18.0	21.4
Other	All	23.0	17.4	20.5	23.8	18.0	21.0	23.4	19.2	22.0
Fleet	All	25.7	18.8	22.6	25.6	19.1	22.4	27.3	19.4	23.8

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data. This report uses the corrected fuel economy values submitted by Hyundai and Kia for four MY 2011 vehicles and for a majority of Hyundai and Kia vehicles for MY 2012. Based on these corrected data, Hyundai's 2010 Cars and Trucks value is 27.0 mpg, Hyundai's 2011 Cars and Trucks value is 27.2 mpg, Hyundai's preliminary 2012 Cars and Trucks value is 28.8 mpg, Kia's 2010 Cars and Trucks value is 27.0 mpg, Kia's 2011 Cars and Truck values is 25.8 mpg, and Kia's preliminary 2012 Car and truck value is 26.7mpg.

Table 31

Footprint (sq ft) and Truck Share by Manufacturer for MY 2010—2012*

Manufacturer	2010		2010	2010	2011		2011	2011	2012		2012	2012
	Cars	Trucks	Cars and Trucks	Percent Trucks	Cars	Trucks	Cars and Trucks	Percent Trucks	Cars	Trucks	Cars and Trucks	Percent Trucks
GM	46.8	59.6	51.5	36.8%	47.2	61.0	53.4	44.9%	47.0	60.2	52.6	42.0%
Toyota	44.3	53.2	47.2	32.1%	45.5	53.4	48.6	39.5%	44.8	53.9	47.9	33.8%
Ford	46.1	58.3	51.9	47.7%	46.1	58.2	52.1	50.0%	44.5	59.7	50.4	39.0%
Honda	44.8	49.6	46.4	33.5%	45.1	49.7	47.4	48.9%	44.9	50.4	46.9	36.0%
Chrysler-Fiat	48.9	51.8	50.9	66.7%	49.0	52.6	51.8	77.4%	46.0	52.5	50.4	67.4%
Nissan	45.4	51.6	47.1	27.6%	45.0	51.2	47.0	31.6%	44.6	51.7	46.5	27.1%
Hyundai	45.0	46.9	45.1	7.5%	47.0	46.7	47.0	8.1%	45.5	47.4	45.5	4.4%
Kia	43.8	52.4	44.6	8.8%	45.4	48.3	45.9	19.0%	44.5	48.7	45.1	13.4%
BMW	44.9	50.7	45.8	15.7%	45.9	51.1	46.8	17.0%	46.0	51.2	47.3	24.3%
VW	43.7	47.9	44.3	14.4%	44.4	47.8	45.1	19.5%	45.3	48.1	45.6	13.8%
Subaru	44.2	44.1	44.1	71.8%	44.2	44.8	44.6	67.4%	43.7	44.6	44.2	61.5%
Daimler	47.6	50.7	48.6	32.0%	46.4	51.9	48.1	31.1%	46.1	51.5	47.3	23.0%
Mazda	44.6	48.6	45.4	19.8%	44.3	50.5	45.3	15.5%	44.1	50.9	44.9	11.1%
Other	44.8	48.1	46.1	38.3%	45.2	48.2	46.4	41.2%	45.9	48.1	46.5	28.7%
All	45.4	53.8	48.6	37.3%	46.0	54.4	49.5	42.2%	45.3	54.5	48.6	36.1%

*Note: all footprint values for MY 2011 and later are based on formal manufacturer data, and are based on different data sources than values for MY 2010 and earlier.

Table 32

**MY 2011 Adjusted Composite Fuel Economy by Vehicle Type
and Size for Largest Manufacturers**

Vehicle Type/Size	GM	Toyota	Ford	Honda	Chrysler- Fiat	Nissan	BMW	VW	Subaru	Daimler	Mazda	All
Cars												
Small	22.5	29.7	28.2	30.5	20.3	23.3	23.4	27.2	22.0	20.8	27.5	26.2
Midsized	25.1	28.8	26.3	21.5	24.3	27.0	24.4	21.0	25.6	20.2	25.2	26.6
Large	22.9	24.0	20.9	27.2	21.0	-	18.6	21.7	-	18.0	-	24.2
All Sizes	24.1	28.7	25.5	28.5	22.3	26.4	23.3	26.8	24.4	20.4	27.0	26.0
Wagons												
Small	19.5	25.1	-	30.8	25.2	27.5	21.4	31.2	22.6	-	-	27.1
Midsized	-	-	-	-	-	-	-	21.5	-	19.6	-	19.9
All Sizes	19.5	25.1	-	30.8	25.2	27.5	21.4	31.1	22.6	19.6	-	27.0
SUVs (non-truck)												
Midsized	25.7	23.7	23.5	24.3	-	24.6	-	-	-	18.9	23.6	24.1
Large	23.4	-	22.4	-	-	20.7	-	-	-	-	-	22.9
All Sizes	23.7	23.7	23.0	24.3	-	23.4	-	-	-	18.9	23.6	23.6
All Cars												
Small	22.4	29.3	28.2	30.6	22.5	25.1	23.4	27.7	22.3	20.8	27.5	26.3
Midsized	25.2	27.9	25.3	23.9	24.3	26.7	24.4	21.0	25.6	20.0	24.2	26.0
Large	23.2	24.0	21.5	27.2	21.0	20.7	18.6	21.7	-	18.0	-	23.8
All Sizes	24.0	28.1	24.8	27.9	22.7	26.1	23.3	27.3	23.9	20.2	26.3	25.6
Vans												
Midsized	-	20.8	23.5	22.4	20.8	21.5	-	-	-	-	-	21.3
Large	15.8	-	13.7	-	-	-	-	-	-	-	-	15.4
All Sizes	15.8	20.8	21.9	22.4	20.8	21.5	-	-	-	-	-	21.0
SUVs												
Midsized	25.7	21.4	21.6	20.9	19.4	22.8	-	22.3	23.9	18.5	19.8	21.2
Large	18.2	15.2	18.9	21.9	18.6	17.7	20.3	21.4	-	16.6	19.6	18.4
All Sizes	18.3	20.9	19.6	20.9	19.1	19.8	20.3	21.7	23.9	16.9	19.6	19.8
Pickups												
Midsized	21.0	21.7	-	-	-	-	-	-	-	-	-	21.4
Large	17.3	17.3	17.4	17.6	16.1	16.4	-	-	-	-	-	17.1
All Sizes	17.3	17.5	17.4	17.6	16.1	16.4	-	-	-	-	-	17.2
All Trucks												
Midsized	22.0	21.2	22.0	21.2	19.8	22.6	-	22.3	23.9	18.5	19.8	21.3
Large	17.7	17.0	17.8	19.3	17.4	17.2	20.3	21.4	-	16.6	19.6	17.7
All Sizes	17.8	19.8	18.4	21.1	18.6	19.0	20.3	21.7	23.9	16.9	19.6	19.1
Fleet												
All Sizes	20.7	24.1	21.1	24.1	19.4	23.3	22.7	26.0	23.9	19.1	25.0	22.4

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data.

Table 33

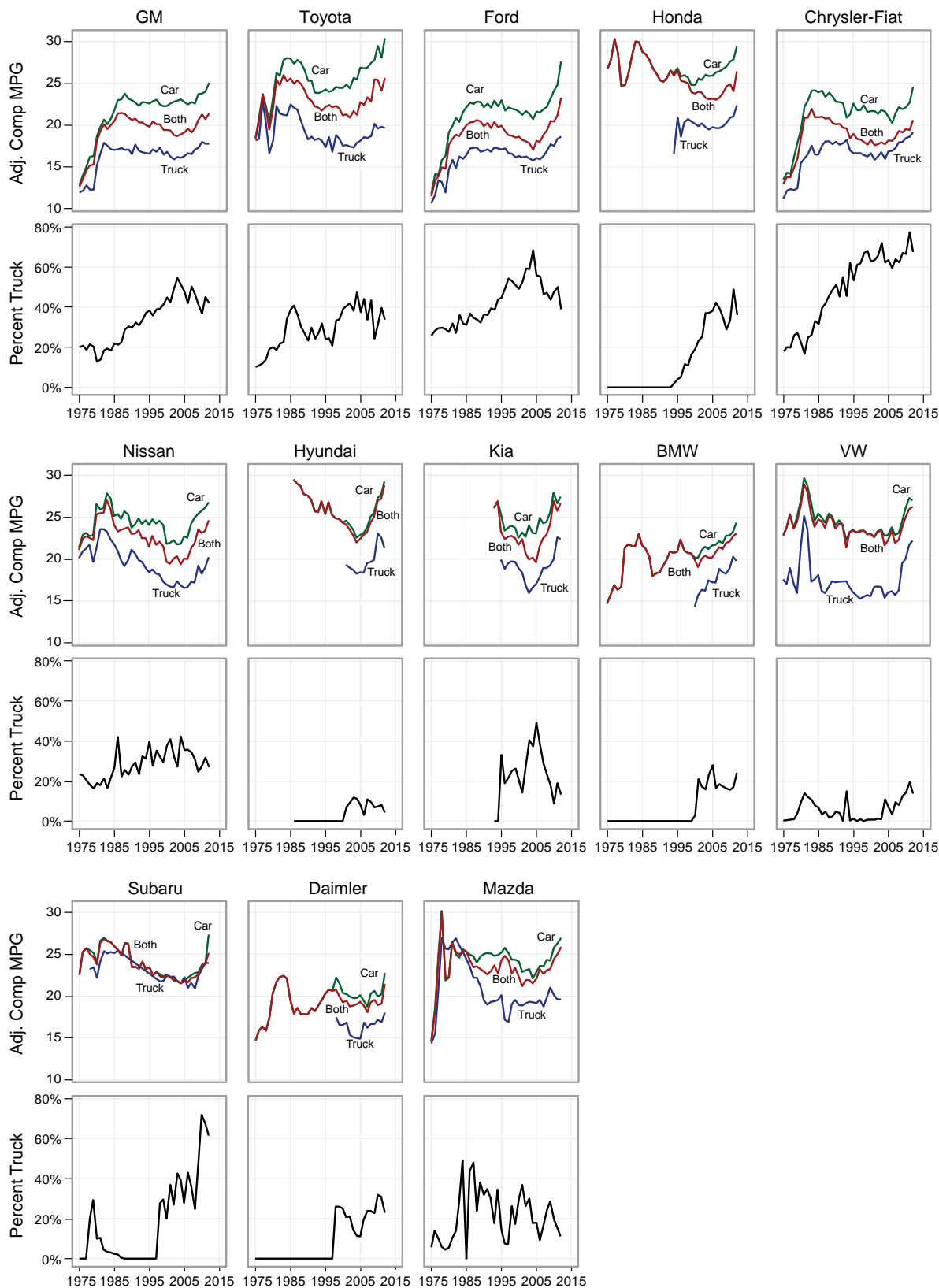
**MY 2012 Adjusted Composite Fuel Economy by Vehicle Type
and Size for Largest Manufacturers**

Vehicle Type/Size	GM	Toyota	Ford	Honda	Chrysler- Fiat	Nissan	BMW	VW	Subaru	Daimler	Mazda	All
Cars												
Small	24.1	31.2	30.5	32.8	29.4	28.6	25.3	27.0	26.8	23.1	28.1	28.8
Midsized	26.7	31.5	26.3	23.3	23.9	26.4	25.1	26.4	25.2	23.8	26.3	27.5
Large	23.0	23.5	21.7	27.2	21.6	-	18.7	22.1	-	20.1	24.6	24.2
All Sizes	25.3	31.1	28.4	29.7	24.6	27.1	24.4	26.7	25.7	23.0	27.1	27.7
Wagons												
Small	21.8	25.1	-	30.2	25.2	27.6	21.4	31.5	29.6	-	-	27.5
Midsized	-	41.6	-	-	-	-	-	-	-	22.3	-	40.4
All Sizes	21.8	31.7	-	30.2	25.2	27.6	21.4	31.5	29.6	22.3	-	28.2
SUVs (non-truck)												
Midsized	22.9	23.6	23.5	26.5	-	24.9	-	-	-	19.1	23.0	24.3
Large	24.4	-	23.1	-	-	20.6	-	-	-	-	-	23.9
All Sizes	24.4	23.6	23.4	26.5	-	23.3	-	-	-	19.1	23.0	24.1
All Cars												
Small	24.0	30.8	30.5	32.3	29.2	28.3	25.3	27.4	28.8	23.1	28.1	28.7
Midsized	26.6	30.4	25.6	25.2	23.9	26.2	25.1	26.4	25.2	22.6	25.8	27.0
Large	24.0	23.5	22.4	27.2	21.6	20.6	18.7	22.1	-	20.1	24.6	24.1
All Sizes	25.1	30.4	27.6	29.4	24.6	26.8	24.4	27.0	27.4	22.7	27.0	27.3
Vans												
Midsized	-	21.1	23.9	22.4	20.9	21.5	-	-	-	-	-	21.4
Large	16.1	-	13.8	-	-	-	-	-	-	-	-	15.3
All Sizes	16.1	21.1	21.5	22.4	20.9	21.5	-	-	-	-	-	21.1
SUVs												
Midsized	19.2	21.4	21.7	22.4	20.3	23.8	-	24.1	24.0	18.4	19.2	21.9
Large	18.4	15.3	19.0	23.0	18.5	18.6	19.8	21.1	-	17.8	19.6	18.8
All Sizes	18.4	21.1	19.7	22.5	19.1	21.1	19.8	22.2	24.0	18.0	19.6	20.2
Pickups												
Midsized	21.3	20.8	-	-	-	-	-	-	-	-	-	21.1
Large	17.3	17.2	17.5	18.1	16.3	16.6	-	-	-	-	-	17.2
All Sizes	17.4	17.4	17.5	18.1	16.3	16.6	-	-	-	-	-	17.3
All Trucks												
Midsized	21.0	21.4	22.5	22.4	20.6	22.7	-	24.1	24.0	18.4	19.2	21.7
Large	17.7	17.1	18.0	21.8	17.9	17.7	19.8	21.1	-	17.8	19.6	18.0
All Sizes	17.8	19.6	18.6	22.3	19.1	20.2	19.8	22.2	24.0	18.0	19.6	19.4
Fleet												
All Sizes	21.4	25.6	23.2	26.4	20.6	24.6	23.1	26.2	25.2	21.4	25.9	23.8

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data.

Figure 29

Manufacturer Adjusted Fuel Economy and Percent Truck by Model Year



VIII. Alternative Fuel Vehicle Trends

This new section addresses original equipment manufacturer (OEM)⁹ vehicles that are dedicated to, or are designed and expected to frequently operate on, alternative fuels. The main focus of this section will be data from MY 2012 vehicles that are designed and expected to operate on electricity and natural gas. OEM vehicles that operate predominantly on other alternative fuels, including ethanol, methanol, propane, hydrogen, etc., will be included in future reports if they become available to the public (the great majority of current ethanol flexible fuel vehicles are operated primarily on gasoline and therefore are not included in this section). Increasing interest in these alternative fuel vehicles is being driven by several factors: sustained high oil prices, concerns about future oil supplies and greenhouse gas emissions, and economic and national security issues associated with oil imports. This is an emerging area, with several new OEM alternative fuel vehicle models introduced in MY 2012 and many more planned for subsequent model years. Often, alternative fuel vehicle models are initially introduced in selected areas of the country, but the expectation is that many alternative fuel vehicle models will be available on a nationwide basis in the next few years.

The primary Trends database, on which the rest of this report is based, includes vehicle data from 1975 to the present only for vehicles that are dedicated to or are expected to operate primarily on petroleum fuels, i.e., gasoline and diesel fuel. The primary reason for this is simply that the number of vehicles that use alternative fuels sold by OEMs has been so low as to be inconsequential with respect to the overall database. In addition, some alternative fuels introduce complexities with respect to the core metrics that have traditionally been used in the analysis of the Trends database. For example, the metric of miles per gallon (mpg) can be simply applied to gasoline and diesel vehicles, but is a more complicated application for an electric vehicle whose fuel is not sold by the gallon. Also, given that some alternative fuels are produced in very different ways, relative to petroleum fuels, there are complex “life-cycle” emissions and energy accounting issues as well.

This distinction between the primary Trends database of petroleum fuel vehicles and this new section’s focus on alternative fuel vehicles is challenged by those vehicles that can operate on both a petroleum-based fuel and an alternative fuel. There are currently a large number of these “flexible fuel vehicles” (FFVs) in the market that are capable of using either gasoline or E85 (a mixture of 85% ethanol and 15% gasoline, by volume), or any blend in between. However, these vehicles operate predominantly on gasoline (and ethanol-gasoline blends with low levels of ethanol) only.¹⁰ EPA believes that there are many reasons why most consumers use gasoline in their FFVs: limited E85 fuel availability, greater vehicle range on gasoline, and E85 fuel pricing such that the fuel cost per mile is typically cheaper on gasoline. Accordingly, this report continues to assume that ethanol FFVs operate primarily on gasoline, with data from FFV operation on gasoline included in the primary database, and data from FFV operation on E85 excluded from the primary database. If, in the future, FFVs operate more often on E85 fuel, EPA will consider adding FFVs to this alternative fuel database.

Two other technologies that can use both a petroleum-based fuel and an alternative fuel are plug-in hybrid electric vehicles (PHEVs) and dual-fuel compressed natural gas (DF-CNG) vehicles.¹¹ While it is almost certain that PHEVs and DF-CNG vehicles will use at least some gasoline, there are two factors that strongly suggest that most owners of these vehicles will preferentially seek to use the alternative fuel as much as possible: 1) they have paid a substantial premium to buy a vehicle that can use the alternative fuel, and 2) the alternative fuel is

⁹ This section, like the rest of the report, focuses only on OEM produced vehicles. There are aftermarket converters who modify OEM gasoline vehicles to operate on alternative fuels, but those vehicles are not accounted for in this section.

¹⁰ Based on data from the Energy Information Administration, EPA projects that FFVs were fueled with E85 less than 1 percent of the time in 2008; see 75 Federal Register 14762 (March 26, 2010).

¹¹ While there are no MY 2012 OEM DF-CNG vehicles, some manufacturers are planning to introduce DF-CNG vehicles in the future.

considerably cheaper than gasoline, and provides an opportunity for the vehicle owner to recover the higher upfront cost of the vehicle through ongoing fuel savings. Because we expect PHEVs and DF-CNG vehicles to operate frequently on alternative fuels, they are included in this section and not in the primary Trends database.

With respect to other vehicles that may be introduced in the future that can operate on both petroleum and alternative fuels, EPA will determine on a case-by-case basis whether it is more appropriate to include them in the primary petroleum fuel database or in this separate alternative fuel vehicle section.

This report is the first in this series to include data on alternative fuel vehicles. The number of alternative fuel vehicle sales is still far too small (less than 0.2 percent of MY 2011 production) to have a large impact on the overall technology, CO₂ emissions, and fuel economy trends; however, there many additional alternative fuel vehicle models are expected to enter the market over the next few years.¹² At some point in the future, if the sales of alternative fuel vehicles continue to increase, EPA will consider merging this alternative fuel vehicle data with the primary Trends database.

Historical Trends

Gasoline and diesel vehicles have long dominated new light vehicle sales. OEM vehicles that operate frequently on alternative fuels have historically been available only in small numbers over the course of this report, though those limited production vehicles have in some cases created significant consumer and media interest.¹³ From MY 1995 (which is as far back as reliable alternative fuel vehicle data was available for this report) to MY 2010, over 99.9% of all new OEM vehicles were petroleum fueled, with annual production of alternative fuel vehicles less than 4,000 per year. In MY 2011, several new alternative fueled vehicles were introduced into the market. The combined production of these vehicles led to an increase of alternative fueled vehicles from less than 1,200 in MY 2010 to well over 15,000 in MY 2011. While these vehicles still represent a very limited portion of overall new vehicle sales (approximately 12 million in MY 2011), this change is notable and is projected to continue.

In the mid-1990s, the state of California passed legislation creating the ZEV (Zero Emission Vehicle) mandate. In response to the ZEV mandate, OEMs began to produce limited numbers of electric vehicles. Most of these vehicles were leased, rather than sold, in small numbers in the state of California. The majority of these electric vehicles were small passenger cars, SUVs, or pickup trucks, including the GM EV1, the Toyota RAV4 EV, and the Ford Ranger EV. Dedicated CNG vehicles have been available in limited numbers for the last twenty years, most commonly during and after periods of rising gasoline prices. CNG vehicles have spanned a wider range of vehicles, from work trucks and vans to the Honda Civic Natural Gas, which has been available in select markets since MY 1998.

In MY 2000, five EVs, seven dedicated CNG vehicles, and one DF-CNG vehicle were available in the U.S. market. Chrysler-Fiat, Ford, GM, Honda, Nissan, and Toyota all produced at least one alternative fuel vehicle, with total production of about 3,500 vehicles. Most of these vehicles were produced in small volumes and only for a few model years. By MY 2006, only one alternative fuel vehicle was available, the Honda Civic Natural Gas. The Tesla Roadster, a dedicated electric vehicle, was introduced with limited production in MY 2008. From MY 2008 through MY 2010, the Civic Natural Gas and the Tesla Roadster were the only two alternative fuel vehicles produced by OEMs and available in some retail markets.

¹² For example, see list of potential future EVs and PHEVs at <http://www.fueleconomy.gov/feg/evnews.shtml>

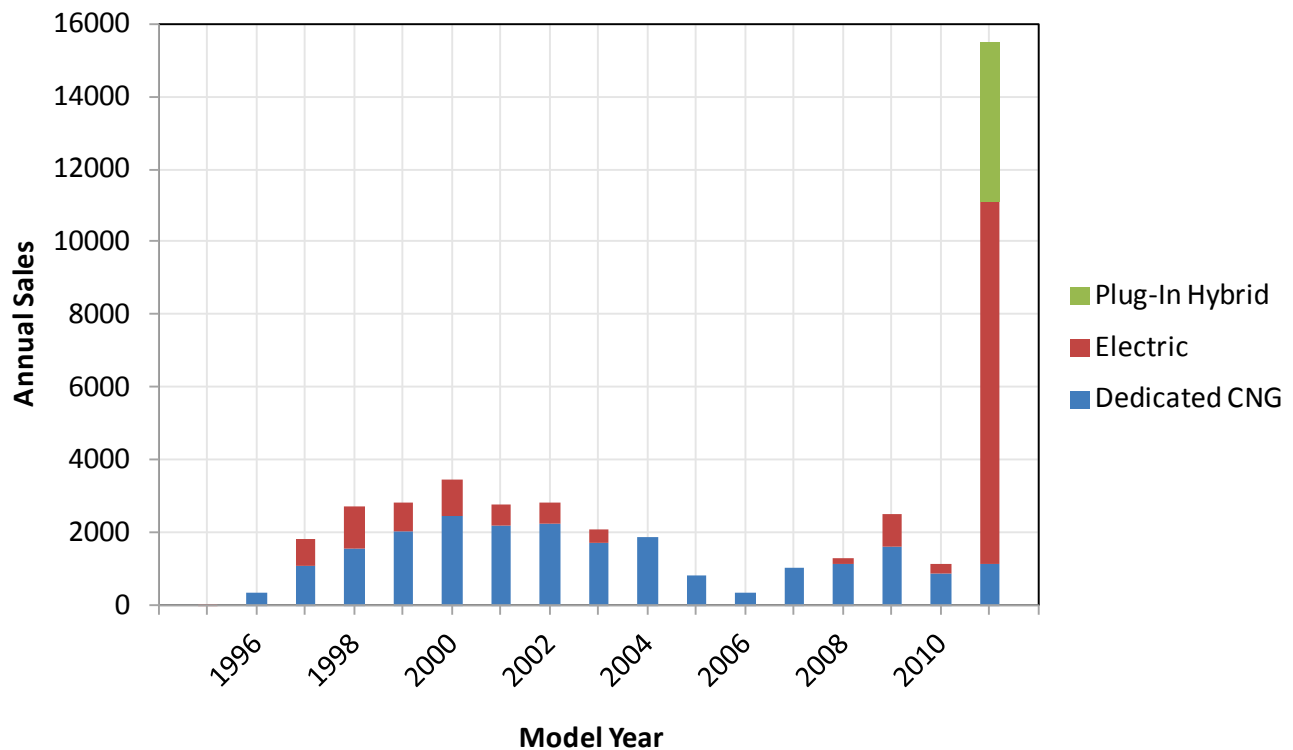
¹³ Millions of ethanol FFVs have been sold in recent years, but these vehicles have operated primarily on gasoline.

Two high profile OEM alternative fuel vehicles were introduced into the retail market in MY 2011, with much higher production volumes than previous alternative fuel vehicles: the Nissan Leaf electric vehicle (EV) and the Chevrolet Volt plug-in hybrid electric vehicle (PHEV). The Volt and Leaf had combined sales of nearly 13,000 vehicles in MY 2011, so sales of these two vehicles alone triple the total number of alternative fuel vehicles sold in any model year since 1995. The GM EV1, a notable alternative fueled vehicle, was leased from MY 1997 to 2000, with total production of 1,101 vehicles over four years [43]. The MY 2011 Nissan Leaf EV eclipsed the total EV1 sales mark in its first 6 months of availability, and it took only 4 months for sales of the MY 2011 Chevrolet Volt PHEV to do the same. Both the Leaf and Volt have had individual monthly sales higher than the total production of the EV1 over its four years of availability [44, 45]. The Tesla Roadster, a small all-electric sports car, was also available in MY 2011; however, sales were limited as Tesla ended production of the Roadster in preparation for production of the new Tesla Model S EV.

In addition to the Honda Civic Natural Gas, a second dedicated CNG vehicle was available from OEMs in MY 2011. The MV-1 is a specialty vehicle, available as a dedicated CNG vehicle that is a “Wheelchair Accessible Mobility Vehicle” [46]. While sales of dedicated CNG vehicles did not increase at the same rate as EVs and PHEVs in MY 2011, Honda announced in 2011 that it will be significantly expanding the availability of the Civic Natural Gas. When it was initially introduced, the Civic Natural Gas was only available to fleet customers, but it subsequently became available for retail in California, New York, Utah, and Oklahoma. Availability of the MY 2012 Civic Natural Gas was increased to 36 states, with more possible as Honda trains additional dealers [47].

Figure 30 shows the historical sales of EVs, PHEVs, and CNG vehicles over the last sixteen years (we do not have reliable data on OEM alternative fuel vehicles back to 1975). This figure was compiled from several data sources, including manufacturer CAFE reports, Ward’s, and publically available sales data. Figure 30 includes dedicated CNG vehicles, but not dual fuel CNG vehicles as sales data were not available for dual fuel vehicles. The data only includes offerings from manufacturers, and does not include data on vehicles converted to alternative fuels in the aftermarket.

Figure 30: Historical Sales of EVs, PHEVs and Dedicated CNG Vehicles



MY 2012 Vehicles

Since sales of alternative fuel vehicles have historically been limited, this section of the report will focus on currently available alternative fuel vehicles produced by OEMs and introduce several metrics that are new to this report and important for alternative fuel vehicles, instead of analyzing aggregated data about new vehicles sales. Table 34 shows the alternative fuel vehicles available from OEMs in MY 2012, as well as the classification of each vehicle, inertia weight class (IWT)¹⁴, and footprint. These vehicles constitute a wide array of vehicle design, size, and function and range from a subcompact car to a large van.

¹⁴ IWT is not precise weight of the vehicle, but curb weight plus 300 pounds, then rounded to nearest 250 or 500 pound weight class. See page 3 of body for more details.

Table 34: MY 2012 Alternative Fuel Vehicle Classification and Size ¹⁵

Manufacturer	Model	Fuel or Powertrain	Car or Truck	Vehicle Classification	IWT (lbs.)	Footprint (sq ft)
BYD	e6	EV	Car	Non-Truck SUV	5500	47.4
Coda	Coda	EV	Car	Subcompact Car	4000	41.5
Ford	Focus	EV	Car	Subcompact Car	4000	43.5
Ford	Transit Connect	EV	Truck	Van	4000	47.9
Mitsubishi	i	EV	Car	Subcompact Car	2750	38.4
Nissan	Leaf	EV	Car	Midsize Car	3500	44.7
Tesla	Model S	EV	Car	Large Car	4500	53.5
Toyota	RAV4	EV	Car	Non-Truck SUV	4000	44.6
Chevrolet	Volt	PHEV	Car	Compact Car	4000	44.6
Fisker	Karma	PHEV	Car	Subcompact Car	5500	57.7
Toyota	Prius	PHEV	Car	Midsize Car	3500	44.2
Honda	Civic	CNG	Car	Compact Car	3000	43.5
VPF	MV-1	CNG	Truck	Special Purpose	5500	57.9

Table 35 shows basic technical specifications for the MY 2012 alternative fuel vehicles. The first eight vehicles are EVs and have different powertrain specifications. In an electric vehicle, the traditional engine and petroleum fuel system are replaced with an electric motor and a battery. The output of the electric motor can be classified in terms of horsepower and torque in the same terms as a more traditional petroleum fuel-based engine. The capacity of the battery is defined in terms of kilowatt-hours (kW-hrs). A battery with a larger capacity (in terms of kW-hrs) can store more energy on board the vehicle and is analogous to having a larger gasoline tank. It is important to note that the Motor HP and Battery kW-hrs values are component specifications, and may or may not reflect actual powertrain performance depending upon other vehicle components and design parameters (e.g., the motor may not fully utilize its maximum hp rating, and a battery may not be fully charged and/or discharged).

Table 35: MY 2012 Alternative Fuel Vehicle Powertrain Specifications and Range

Manufacturer	Model	Engine CID	Engine HP	Motor HP	Battery kW-hrs	Alternative Fuel Range miles	Total Range miles	Utility Factor
BYD	e6	N/A	N/A	101	31	122	122	N/A
Coda	Coda	N/A	N/A	134	32	88	88	N/A
Ford	Focus	N/A	N/A	143	26	76	76	N/A
Ford	Transit Connect	N/A	N/A	70	27	56	56	N/A
Mitsubishi	i	N/A	N/A	66	17	62	62	N/A
Nissan	Leaf	N/A	N/A	107	24	73	73	N/A
Tesla	Model S	N/A	N/A	349	83	265	265	N/A
Toyota	RAV4	N/A	N/A	154	50	103	103	N/A
Chevrolet	Volt	85	84	149	16	35	380	0.64
Fisker	Karma	122	290	402	20	33	240	0.62
Toyota	Prius	110	98	80	4.4	11*	540	0.29
Honda	Civic	110	110	N/A	N/A	N/A	N/A	N/A
VPF	MV-1	281	213	N/A	N/A	N/A	N/A	N/A

* PHEV operating partially in blended mode (includes some gasoline)

¹⁵ There are several other non-petroleum fueled vehicles that have been in limited lease and/or demonstration programs, including the Honda Clarity FCX fuel cell vehicle, Mercedes F-Cell vehicle, etc. But, these vehicles have not been available to the general public at large.

PHEVs blend EV technology with more familiar powertrain technology from petroleum fueled vehicles. Current PHEVs feature both an electric drive system designed to be charged from an electricity source external to the vehicle (like an EV), and a gasoline internal combustion engine. There are generally three ways that a PHEV can operate:

- 1) Electric only mode – In electric only mode the vehicle operates like an EV, using *only* energy stored in the battery to propel the vehicle.
- 2) Blended mode – In blended mode the vehicle uses both energy stored in the battery *and* energy from the gasoline tank to propel the vehicle.
- 3) Charge sustaining mode – In charge sustaining mode, the PHEV has exhausted the external electricity from the grid that is stored in the battery and relies on the gasoline internal combustion engine. The vehicle will operate much like a traditional hybrid in charge sustaining mode.

The presence of both an electric drive system and an internal combustion engine results in a complex system that can be used in many different combinations, and manufacturers are each choosing to operate PHEV systems in different ways. This complicates direct comparisons among PHEV models in this report. For each MY 2012 PHEV, Table 35 shows data for the gasoline internal combustion engine in traditional terms of displacement and horsepower, and data associated with EVs, such as battery size and electric motor horsepower. Table 35 also shows the range on alternative fuel and total range. For the Chevrolet Volt and Fisker Karma PHEVs, which do not operate in blended mode, the alternative fuel range represent the range of those vehicles operating in electric only mode. However, for the Toyota Prius, the alternative fuel range represents the range of the vehicle operating in both electric only *and* blended mode, due to the design of the vehicle. The result is that the Prius uses some gasoline to achieve the alternative fuel range of 11 miles, while the Volt and Karma do not. Table 35 also introduces the concept of a utility factor. The utility factor is directly related to the alternative fuel range for PHEVs, and is a projection, on average, of the percentage of miles that will be driven using the alternative fuel (in electric only and blended modes) by an average driver.

The two vehicles that operate on CNG have traditional internal combustion engines. Many internal combustion engines designed to run on CNG are based on gasoline engines, with upgraded fuel systems and tanks designed specifically for natural gas. Therefore, specifications for CNG engines such as engine displacement and engine horsepower are essentially the same as those for traditional petroleum based engines.

This report has not previously tracked or analyzed data on the range of vehicles using petroleum fuels because gasoline and diesel vehicles can generally travel at least 300 miles without refueling, and gasoline and diesel fuel stations are common and well distributed across the United States (there are some rural areas where range may in fact be an important consideration). Most alternative fuel vehicles are expected to have lower vehicle range than gasoline and diesel vehicles, and all alternative fuel vehicles are likely to have more limited public refueling infrastructure. Range is of particular concern with electric vehicles, as today's battery technology limits the range of EVs to considerably less than that of comparable petroleum fueled vehicles. The availability of dedicated EV charging stations is also currently limited.¹⁶ Table 35 includes range data for the alternative fuel vehicles when operating on the alternative fuel, as well as total electricity plus gasoline range for PHEV vehicles.

Table 36 shows four energy-related metrics for the MY 2012 alternative fuel vehicles (no entry is shown if the metric is not applicable to that vehicle technology). These data are generally included on the EPA/NHTSA fuel

¹⁶ While dedicated EV charging stations are currently limited, electricity is available in nearly all but the most remote parts of the country. EVs can generally be recharged from a standard 110v outlet, though charging will be slower than at a dedicated 220v charging station.

economy and environment labels that are currently used for advanced technology vehicles (and are used on all vehicles beginning in MY 2013)¹⁷. These adjusted (“adj” in the table column headings) label values reflect EPA’s best estimates of the energy consumption and fuel economy that these vehicles will achieve, on average, in real world operation based on EPA vehicle testing and our 5-cycle label methodology. Comparing the energy or fuel efficiency performance from alternative fuel vehicles raises complex issues of how to compare different fuels. For example, consumers and OEMs are familiar and comfortable with evaluating gasoline and diesel vehicle fuel economy in terms of miles per gallon, and it is the universal efficiency metric used throughout this report for the primary database. To enable this comparison for alternative fueled vehicles, the fuel efficiency of vehicles operating on CNG and electricity are evaluated in terms of miles per gallon of gasoline equivalent (an energy metric described in more detail below).

Table 36: MY 2012 Alternative Fuel Vehicle Fuel Economy Metrics

Manufacturer	Model	Adj Electric Consumption (kW-hrs/100 miles)	Adj Electric Fuel Economy mpge	Adj Gasoline Only Fuel Economy mpg	Adj Overall Fuel Economy mpge
BYD	e6	54	62	N/A	62
Coda	Coda	46	73	N/A	73
Ford	Focus	32	105	N/A	105
Ford	Transit Connect	54	62	N/A	62
Mitsubishi	i	30	112	N/A	112
Nissan	Leaf	34	99	N/A	99
Tesla	Model S	38	89	N/A	89
Toyota	RAV4	44	76	N/A	76
Chevrolet	Volt	36	94	37	60
Fisker	Karma	62	54	20	33
Toyota	Prius	29*	95**	50	58
Honda	Civic	N/A	N/A	N/A	31
VPG	MV-1	N/A	N/A	N/A	13

*Note: Electric consumption only. Overall, the Prius PHEV consumes *both* electricity and gasoline over the alternative fuel range of 11 miles, at a rate of 29 kW-hrs/100 miles and 0.2 gal/100 miles

** Prius PHEV mpg value reflects blended operation on both electricity and gasoline

The third column in Table 36 gives adjusted consumption rates for vehicles operating on electricity, which includes EVs and PHEVs. The units for electricity consumption are kilowatt-hours per 100 miles (kW-hrs/100 miles). The values for all of the EVs and PHEVs, with the exception of the Toyota Prius PHEV, reflect electric-only operation. The Toyota Prius PHEV adjusted electric consumption value represents the tested electric consumption of the vehicle during both electric only and blended modes. The Prius PHEV also consumes 0.2 gallons of gasoline per 100 miles during this combination of electric-only and blended modes.

The fourth column simply converts the adjusted electricity consumption data in the third column to adjusted miles per gallon of gasoline-equivalent (mpge), i.e., the miles the vehicle can travel on an amount of electricity that has the same amount of energy as a gallon of gasoline. For a vehicle operating on electricity, mpge is simply calculated as 33.705 kW-hrs/gallon divided by the vehicle electricity consumption in kW-hrs/mile. For example, for the Leaf, 33.705 kW-hrs/gallon divided by 0.34 kW-hrs/mile (which is equivalent to 34 kW-hrs/100 miles) is 99 mpge. Because the Prius PHEV consumes both electricity and gasoline over the alternative fuel range of 11 miles, the adjusted electric consumption value of 95 mpge includes both the electricity and gasoline consumption, at a rate of 29 kW-hrs/100 miles of electricity and 0.2 gal/100 miles of gasoline.

¹⁷ These values represent a 55/45 city/highway weighting, consistent with the methodology used for labeling vehicles.

The fifth column gives adjusted fuel economy values for vehicles operating on gasoline only, which is relevant here only for the Chevrolet Volt, Fisker Karma, and Toyota Prius PHEV, while operating in charge sustaining mode. For PHEVs, the EPA/NHTSA label shows both electricity consumption in kW-hrs/100 miles and mpge, when the vehicle operates exclusively on electricity, and gasoline fuel economy in mpg, when the vehicle operates exclusively on gasoline.

The final column gives the adjusted overall mpge values reflecting the overall energy efficiency of the vehicle on all of the fuels on which vehicle can operate. While mpge does not reflect how all alternative fuels are sold (natural gas is in fact sold in gallons of gasoline equivalent, but electricity is not), it does provide a common metric with which to compare fuels that are sold in different units, and mpge is generally included on the EPA/NHTSA labels for that reason. For PHEVs, the mpge metric can also be used to determine the overall equivalent fuel economy for a vehicle that operates on two unique fuels. In addition to the energy metrics in the previous columns, the one key additional parameter necessary to calculate a combined electricity/gasoline mpge value for a PHEV is the utility factor that was introduced in Table 35. The Volt, for example, has a utility factor of 0.64, i.e., it is expected that the Volt will operate 64% of the time on electricity and 36% of the time on gasoline. Utility factor calculations are based on an SAE methodology that EPA has adopted for regulatory compliance.¹⁸ For EVs and natural gas vehicles, the sixth column simply reports the mpge values that are on the EPA/NHTSA label. CNG vehicle mpge values are based on the energy equivalency assumption that a gallon of gasoline contains the same energy as 121.5 standard cubic feet of natural gas.

Tables 37 and 38 show several key CO₂ emissions metrics for MY 2012 alternative fuel vehicles.

Table 37 gives adjusted vehicle tailpipe CO₂ emissions values. EPA and vehicle manufacturers have been measuring tailpipe emissions since the early 1970s using standardized laboratory tests. Table 37 gives adjusted tailpipe CO₂ emissions which are the values that are included on the new EPA and NHTSA fuel economy and environment labels (and reflected in the label's Greenhouse Gas Rating) that are currently used for advanced technology vehicles. These adjusted label values reflect EPA's best estimate of the CO₂ tailpipe emissions that these vehicles will achieve, on average, in real world operation based on EPA vehicle testing and our 5-cycle label methodology. These values can be compared to the adjusted tailpipe CO₂ emissions values for gasoline and diesel vehicles in Section IV. EVs, of course, have no tailpipe emissions. For the PHEVs, the adjusted CO₂ emissions values here utilize the same utility factors discussed above to weight the CO₂ emissions on electric operation and the CO₂ emissions on gasoline operation. For natural gas vehicles, these values are based on vehicle test data and our 5-cycle methodology. It is important to note that, to be consistent with the primary Trends database, the tailpipe CO₂ emissions values given in Table 37 for CNG vehicles do not account for the higher global warming potency associated with methane emissions, which have the potential to be higher for some CNG vehicles.

¹⁸ See <http://www.SAE.org>, specifically SAE J2841 "Utility Factor Definitions for Plug-In Hybrid Electric Vehicles Using Travel Survey Data," September 2010.

Table 37: MY 2012 Alternative Fuel Vehicle Adjusted Tailpipe CO₂ Emissions Metrics

Manufacturer	Model	Adj Tailpipe CO ₂ (g/mile)
BYD	e6	0
Coda	Coda	0
Ford	Focus	0
Ford	Transit Connect	0
Mitsubishi	i	0
Nissan	Leaf	0
Tesla	Model S	0
Toyota	RAV4	0
Chevrolet	Volt	87
Fisker	Karma	169
Toyota	Prius	133
Honda	Civic	227
VPG	MV-1	541

Table 38 accounts for the “upstream” CO₂ emissions associated with the production and distribution of electricity used in EVs and PHEVs. Gasoline and diesel fuels also have CO₂ emissions associated with their production and distribution, but these upstream emissions are not reflected in the tailpipe CO₂ emissions values discussed elsewhere in this report. Combining vehicle tailpipe and fuel production/distribution sources, gasoline vehicles emit about 80 percent of total CO₂ emissions at the vehicle tailpipe with 20 percent associated with upstream fuel production and distribution. Diesel and CNG fuels have a similar approximate relationship between tailpipe and upstream CO₂ emissions (accordingly, CNG CO₂ compliance values are also tailpipe-only, and CNG upstream CO₂ emissions data is not included in Table 38).¹⁹ On the other hand, vehicles using electricity emit no CO₂ (or other emissions) at the vehicle tailpipe; therefore all CO₂ emissions associated with powering the vehicle are due to fuel production and distribution. Depending on how the electricity is produced, these fuels can have very high fuel production/distribution CO₂ emissions (for example, if coal is used with no CO₂ emissions control) or very low CO₂ emissions (for example, if renewable processes with minimal fossil energy inputs are used).

Table 38: MY 2012 Alternative Fuel Vehicle Upstream CO₂ Emission Metrics

Manufacturer	Model	Adj Tailpipe + Total Upstream CO ₂			Adj Tailpipe + Net Upstream CO ₂		
		Low (g/mile)	Avg (g/mile)	High (g/mile)	Low (g/mile)	Avg (g/mile)	High (g/mile)
BYD	e6	218	352	527	132	266	441
Coda	Coda	186	299	449	109	222	372
Ford	Focus	129	208	312	49	128	232
Ford	Transit Connect	218	352	527	118	251	426
Mitsubishi	i	121	195	293	45	119	217
Nissan	Leaf	137	221	332	56	140	250
Tesla	Model S	154	247	371	59	153	276
Toyota	RAV4	178	286	429	96	205	348
Ford	Transit Connect	218	352	527	118	251	426
Chevrolet	Volt	202	259	334	128	185	260
Fisker	Karma	367	461	586	263	358	483
Toyota	Prius	200	221	248	143	164	192

¹⁹ There is also considerable research ongoing on the topic on natural gas production, particularly with respect to the hydraulic fracturing (“fracking”) processes.

An additional complicating factor in Table 38 is that electricity production in the United States varies significantly from region to region. Hydroelectric plants provide a large percentage of electricity in the northwest, coal-fired power plants produce the majority of electricity in the Midwest, and natural gas is increasing its electricity market share in many regions of the country. Nuclear power plants and renewable energy make up the balance of U.S. electricity production. In order to bracket the possible GHG emissions impact (there are additional complicating factors that are beyond the scope of this analysis and can only be addressed by sophisticated powerplant modeling), Table 38 provides ranges with the low end of the range corresponding to the California powerplant emissions factor, the middle of the range represented by the national average powerplant emissions factor, and the upper end of the range corresponding to the powerplant emissions factor for the Rockies.

Based on data from EPA's eGRID powerplant database, and accounting for additional greenhouse gas emissions impacts for feedstock processing upstream of the powerplant, EPA estimates that the electricity GHG emission factors for various regions of the country vary from 404 g CO₂/kW-hr in California to 976 g CO₂/kW-hr in the Rockies, with a national average of 651 g CO₂/kW-hr [43]. Emission rates for the region encompassing New York City are approximately equal to those in California, and small regions in upstate New York and Alaska have lower electricity upstream CO₂ emission rates than California. However, California is a good surrogate for the "low" end of the range because California is a leading market for current EVs and PHEVs. Initial sales of electric vehicles have been largely, though not exclusively, focused in regions of the country with powerplant CO₂ emissions factors lower than the national average, such as California, New York, and other coastal areas. In addition, sales of hybrid vehicles have also been disproportionately higher in these same areas.²⁰ Accordingly, at least in the near term, EPA believes that the "average" vehicle operating on electricity in the near term will likely fall somewhere between the low end of this range and the national average.²¹

The third through fifth columns in Table 38 provide the range of adjusted tailpipe plus total upstream CO₂ emissions for EVs and PHEVs. For example, here are the steps that are used to calculate this value for the MY 2012 Nissan Leaf, which would be the same methodology for all EVs:

- Start with the label, or 5-cycle, vehicle electricity consumption in kW-hrs/mile, which for the Leaf is 34 kW-hrs/100 miles, or 0.34 kW-hrs/mile
- Determine the regional powerplant emission rate, regional losses during electricity distribution, and the additional regional emissions due to fuel production upstream of the powerplant (for California, these numbers are 299 g/kWh, 8.2%, and 24%). [48, 49]
- Determine the regional upstream emission factor (for California $299 \text{ g/kWh} / (1-8.2\%) * (1+24\%) = 404 \text{ gCO}_2/\text{kWh}$)
- Multiply by the range of Low (California = 404 gCO₂/kW-hr), Average (National Average = 651 g CO₂/kW-hr), and High (Rockies = 976 g CO₂/kW-hr) electricity upstream GHG emission rates, which yields a range for the Leaf of 137-332 grams/mile.

The adjusted tailpipe plus total upstream CO₂ emissions values for PHEVs include the upstream CO₂ emissions associated with electricity operation and both the tailpipe and upstream CO₂ emissions associated with gasoline operation, using the utility factor discussed above to weight the values for electricity and gasoline operation.

²⁰ For an individual who wants to know the upstream greenhouse gas emissions associated with operating an EV or PHEV in his or her geographical area, use the emissions calculator at <http://www.fueleconomy.gov/feg/Find.do?action=bt2>

The values in columns three through five are tailpipe plus total upstream CO₂ emissions. But, all of the gasoline and diesel vehicle CO₂ emissions data in the rest of this report refers to tailpipe only emissions and do not reflect the upstream emissions associated with gasoline or diesel production and distribution. In order to equitably compare the overall impact of EVs and PHEVs with tailpipe emissions of petroleum fueled vehicles, EPA uses the metric “tailpipe plus net upstream emissions” for EVs and PHEVs. The net upstream emissions for EVs are equal to the total upstream emissions minus the upstream emissions that would be expected from a comparable-sized (using footprint as the size metric) gasoline vehicle. The net upstream emissions for PHEVs are equal to the net upstream emissions of the PHEV due to electricity consumption in electric or blended mode multiplied by the utility factor.

The upstream emissions for a comparable gasoline vehicle are determined by first using the footprint based compliance curves to determine the CO₂ compliance target for a vehicle with the same footprint. Since upstream emissions account for approximately 20% of total CO₂ emissions for gasoline vehicles, the upstream emissions for the comparable gasoline vehicle are equal to one fourth of the compliance target.

The final three columns of Table 38 give the adjusted tailpipe plus net upstream CO₂ values for the EVs and PHEVs using the same Low, Average, and High electricity upstream CO₂ emissions rates discussed above. These values bracket the possible real world net CO₂ emissions that would be associated with consumer use of these vehicles. For the Leaf, these values are simply the values in columns three through five minus the upstream GHG emissions of a comparably sized gasoline vehicle. Based on the MY 2012 CO₂-footprint curve, the adjusted 5-cycle tailpipe GHG emissions for a Leaf sized vehicle meeting its compliance target would be approximately 327 grams/mile, with upstream emissions of one-fourth of this value, or 82 g/mile. The net upstream emissions are determined by subtracting this value, 82 g/mile, from the total upstream emissions for the Leaf. The result is a range for the tailpipe plus net upstream value of 56-250 g/mile as shown in Table 38, with a more likely typical value in the 56-126 g/mile range.

For PHEVs, the adjusted tailpipe plus net upstream emissions values use the utility factor values discussed above to weight the individual values for electric operation and gasoline operation.

While there are still relatively few OEM alternative fuel vehicles in MY 2012, this represents a significant increase in both the number of models available and the total production of alternative fueled vehicles. Based on manufacturer announcements and projected sales, this segment of the market will continue to grow in MY 2013 and beyond. This report will continue to track the metrics presented in this section and report on trends in alternative fuel vehicle CO₂ emissions and fuel economy trends as more models are introduced and more data becomes available in future years.

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Appendices

Appendix A: Database Details and Calculation Methods

Appendix B: Model Year 2012 Nameplate Fuel Economy Listings

Appendix C: Fuel Economy Distribution Data

Appendix D: Fuel Economy Data Stratified by Vehicle Type

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission Type

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Appendix M: Fuel Economy by Manufacturer, Vehicle Type and Weight Class

Appendix N: Fuel Economy and Ton-MPG by Manufacturer, Vehicle Type and Size

Appendix O: MY2012 Fuel Economy by Vehicle Type, Weight and Manufacturer

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

NOTE: The database for this report includes all Hyundai and Kia vehicles, including the corrected fuel economy values submitted by Hyundai and Kia for four MY 2011 vehicles for a majority of Hyundai and Kia vehicles for MY 2012. For the changes in fuel economy label values for individual vehicles, see <http://www.epa.gov/fueleconomy/labelchange.htm>. Since EPA's investigation into Hyundai and Kia data submissions is continuing, Hyundai and Kia-specific values are excluded from tables that list the fuel economy and CO₂ emissions performance for individual manufacturers or vehicles, but are included in all industry wide values.

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix A Database Details and Calculation Methods

Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

Harmonically Averaging Fuel Economy Values

Dimensionally, fuel economy is miles divided by gallons. Then, presented with more than one fuel economy value, an approach to averaging the values is to compute the result by determining the total miles traveled and dividing that by the total gallons used.

Example: A motorist's fuel economy log for May shows that 704 miles were accumulated around town in which the fuel economy was 16 mpg, and one 216 mile highway trip was taken on which the fuel economy was 24 mpg. What is the average fuel economy for May?

The total miles are $704 + 216 = 920$. The total gallons thus are $704 / 16 = 44$ plus $216 / 24 = 9$ or a total of 53 gallons. The average mpg is $920 / 53 = 17.4$ mpg. Notice that the arithmetic average of the two fuel economy values $(16 + 24) / 2 = 20$ mpg gives an individual result that is higher than the total miles/total gallons result.

Even if the around-town miles traveled and the highway trip miles traveled were the same (460 miles), the average fuel economy would not be 20; it would be 19.2 mpg. This is because in the total miles/total gallons approach, *fuel consumption* is arithmetically averaged, but *fuel economy* is harmonically averaged, so for the second example (equal trip distances), the calculation would be:

$$\text{Average MPG} = \frac{2}{\left(\frac{1}{16} + \frac{1}{24} \right)}$$

which is the same as arithmetically averaging the two fuel consumption values.

A specific example of this type of averaging approach is shown in the calculation of the overall average fuel economy using the EPA "city" (MPG_C) and EPA "highway" (MPG_H) fuel economy values.

$$\begin{aligned} \text{Average MPG} &= \frac{\text{Total Miles}}{\text{Total Gallons}} \\ &= \frac{\text{Total Miles}}{\text{City Gallons} + \text{Highway Gallons}} \\ &= \frac{\text{Total Miles}}{\left(\frac{\text{City Miles}}{\text{City MPG}} + \frac{\text{Highway Miles}}{\text{Highway MPG}} \right)} \end{aligned}$$

Now, if city miles are 55 percent of total miles and highway miles are the remaining 45 percent, after dividing by total miles,

$$Average\ MPG = \frac{1}{\left(\frac{0.55}{MPG_C} + \frac{0.45}{MPG_H}\right)}$$

and this average mpg would represent a composite mpg value based on the 55% city/45% highway driving in this example. This 55% city/45% highway weighting is the metric in this report for laboratory composite fuel economy values.

The same approach can be used when the average mpg of a group of vehicles with different mpg values is to be calculated. Suppose a fleet of 100,000 vehicles is made up of two classes, one of 70,000 vehicles whose fuel economy is 10 mpg and the other of 30,000 vehicles whose fuel economy is 14 mpg. Each vehicle in the fleet is assumed to travel the same number of miles (**M**),

$$Total\ Miles = 100,000\ \mathbf{M}$$

$$Total\ Gallons = \frac{70,000\ \mathbf{M}}{10} + \frac{30,000\ \mathbf{M}}{14}$$

and the average fuel economy is:

$$Average\ Fuel\ Economy = \frac{1}{\left(\frac{0.7}{10} + \frac{0.3}{14}\right)} = 10.9\ \text{mpg}$$

where .7 and .3 are the relative shares of each vehicle class in the fleet. Notice that, again, the arithmetic average of the class fuel economy values $(10 + 14)/2 = 12$ mpg is higher.

In general, some form of a weighted harmonic mean must be used when averaging different fuel economy values in order to maintain mathematical integrity.

While fuel economy values (in miles per gallon) must be harmonically averaged to maintain mathematical integrity, fuel consumption values (in gallons per mile) and carbon dioxide emissions values (in grams per mile) can be arithmetically averaged.

Estimated and Final Production Data

Table A-1 compares average laboratory 55/45 fuel economy for model years 1998 through 2012 at three points in time:

- (1) an initial estimate determined early in the model year using projected production;
- (2) for some years, a revised estimate determined by using trade publication sales data that were obtained after the end of each model year, but before the final CAFE data were submitted by automakers to EPA; and
- (3) final fuel economy values determined from CAFE compliance data provided by the manufacturers to EPA after the end of the model year.

Historically, the final car plus truck laboratory 55/45 fuel economy values have generally varied from 0.5 mpg lower to 0.6 mpg higher compared to the original estimates based exclusively on projected production. But, MY2009 was a very unusual year in this regard. The final car plus truck laboratory 55/45 value for MY2009 was 1.8 mpg higher than the initial estimate for 2009, due to the market turmoil in MY2009. The final car plus truck adjusted fuel economy value for MY2009 was 1.3 mpg higher than the initial estimate. For MY 2011, the final car plus truck laboratory values were 0.5 mpg lower than the initial estimates in last year's report.

The individual EPA car, and truck, fuel economy values shown in Table A-1 for years prior to MY 2011 differ from the values found elsewhere in this report. Beginning with the 2011 report, EPA reclassified most small, 2 wheel drive SUVs from trucks to cars for the entire database. This reflects a regulatory change made by NHTSA for CAFE standards beginning in MY 2011 and which will apply for the joint EPA/NHTSA greenhouse gas emissions and CAFE standards that have been finalized for MY 2012-2025. These changes were not in effect for years prior to MY 2011, and accordingly, the individual car and truck fuel economy values prior to MY 2011 are based on the previous car and truck definitions. To enable a comparison with the initial estimates made for this series of reports, the individual car and truck values in table A-1 were calculated using the previous car and truck definitions, which is not consistent with the rest of this report. While the individual car and truck numbers in Table A-1 are unique, the car and truck definitions do not affect the overall (car plus truck) fuel economy values, which are consistent with the rest of this report.

Table A-1

Comparison of Laboratory 55/45 MPG

	Model Year	Initial Estimate	Revised Estimate	Final Value
Cars	1998	28.6	28.6	28.5
	1999	28.1	28.2	28.1
	2000	28.1	28.3	28.2
	2001	28.3	28.3	28.4
	2002	28.5	28.5	28.6
	2003	29.0	28.9	28.9
	2004	28.7	28.9	28.9
	2005	28.9	29.2	29.5
	2006	28.8	29.2	29.2
	2007	29.4	30.3	30.3
	2008	30.3		30.5
	2009	30.9		32.1
	2010	32.7		32.3
	2011	32.8		32.3
	2012	34.6		
Trucks	1998	20.6	20.6	20.9
	1999	20.3	20.4	20.5
	2000	20.5	20.5	20.8
	2001	20.3	20.4	20.6
	2002	20.4	20.3	20.6
	2003	20.8	20.9	20.9
	2004	20.9	20.9	20.8
	2005	21.3	21.2	21.4
	2006	21.5	21.9	21.8
	2007	22.1	22.1	22.1
	2008	22.5		22.7
	2009	22.9		23.8
	2010	23.8		23.4
	2011	23.6		23.9
	2012	24.3		
Both	1998	24.4	24.4	24.5
	1999	23.8	24.0	24.1
	2000	24.0	23.9	24.3
	2001	23.9	24.0	24.2
	2002	24.0	23.9	24.1
	2003	24.4	24.2	24.3
	2004	24.4	24.4	24.0
	2005	24.6	24.6	24.8
	2006	24.6	25.3	25.2
	2007	25.3	25.7	25.8
	2008	26.0		26.3
	2009	26.4		28.2
	2010	28.3		28.4
	2011	28.6		28.1
	2012	30.0		

Use of 3-Year Moving Averages

Use of the three-year moving averages, which effectively smoothes the trends, results in an improvement in discriminating real trends from what might be relatively small year-to-year variations in the data. For this report, as shown in Table A-2 (laboratory) and Table A-3 (adjusted), these three-year moving averages are tabulated at the midpoint. For example, the midpoint for model years 2010, 2011, and 2012 is MY2011.

Table A-2

Light-Duty Vehicle Laboratory Fuel Economy and Truck Sales Fraction

Model Year	Actual Data				Three-Year Moving Average			
	55/45 Fuel Economy			Truck Production Fraction	55/45 Fuel Economy			Truck Production Fraction
	Car	Truck	Both		Car	Truck	Both	
1975	15.8	13.7	15.3	19.3%				
1976	17.5	14.4	16.7	21.1%	17.2	14.6	16.6	20.1%
1977	18.3	15.6	17.7	19.9%	18.5	15.1	17.7	21.2%
1978	19.9	15.3	18.6	22.5%	19.5	15.2	18.3	21.5%
1979	20.2	14.7	18.7	22.1%	21.2	16.2	19.9	20.4%
1980	23.5	18.6	22.5	16.5%	23.0	17.8	21.8	18.6%
1981	25.1	20.1	24.1	17.2%	24.9	19.7	23.8	17.8%
1982	26.0	20.5	24.7	19.5%	25.7	20.5	24.5	19.6%
1983	25.9	20.8	24.6	22.0%	26.1	20.6	24.6	21.7%
1984	26.3	20.4	24.6	23.5%	26.4	20.6	24.7	23.4%
1985	26.9	20.5	25.0	24.8%	27.0	20.8	25.1	25.4%
1986	27.9	21.4	25.7	27.9%	27.6	21.2	25.5	26.6%
1987	28.0	21.6	25.9	27.2%	28.1	21.4	25.8	28.1%
1988	28.5	21.1	25.9	29.1%	28.2	21.2	25.8	28.7%
1989	28.1	20.9	25.4	29.9%	28.1	20.9	25.5	29.6%
1990	27.7	20.7	25.2	29.6%	27.9	20.9	25.3	30.0%
1991	27.8	21.2	25.4	30.4%	27.6	20.9	25.2	30.5%
1992	27.4	20.8	24.9	31.4%	27.6	21.0	25.1	31.4%
1993	27.6	21.0	25.1	32.4%	27.6	20.8	24.8	34.0%
1994	27.7	20.7	24.6	38.1%	27.8	20.7	24.8	35.7%
1995	28.1	20.5	24.7	36.5%	28.0	20.6	24.7	37.5%
1996	28.0	20.8	24.8	37.8%	28.1	20.6	24.7	38.1%
1997	28.2	20.5	24.5	39.9%	28.1	20.7	24.6	39.8%
1998	28.1	20.8	24.5	41.7%	28.0	20.5	24.4	41.1%
1999	27.8	20.3	24.1	41.7%	27.9	20.6	24.3	41.6%
2000	27.7	20.7	24.3	41.2%	27.8	20.4	24.2	41.4%
2001	27.9	20.3	24.2	41.4%	28.0	20.4	24.2	42.4%
2002	28.3	20.3	24.1	44.7%	28.3	20.4	24.2	44.1%
2003	28.7	20.7	24.3	46.1%	28.5	20.5	24.1	46.3%
2004	28.5	20.5	24.0	48.0%	28.8	20.7	24.4	46.2%
2005	29.1	21.0	24.8	44.4%	28.8	21.0	24.7	44.8%
2006	28.9	21.4	25.2	42.1%	29.3	21.3	25.3	42.5%
2007	29.8	21.6	25.8	41.1%	29.6	21.7	25.7	41.3%
2008	30.1	22.2	26.3	40.7%	30.5	22.3	26.7	38.2%
2009	31.6	23.1	28.2	33.0%	31.4	22.9	27.6	37.0%
2010	32.6	23.4	28.4	37.3%	32.1	23.5	28.2	37.5%
2011	32.3	23.9	28.1	42.2%	33.1	23.9	28.8	38.5%
2012	34.6	24.3	30.0	36.1%				

Table A-3

Light-Duty Vehicle Adjusted Fuel Economy

Cars

Model Year	Actual Data			Three-Year Moving Average		
	City	Highway	Composite	City	Highway	Composite
1975	12.3	15.2	13.5			
1976	13.7	16.6	14.9	13.5	16.4	14.6
1977	14.4	17.4	15.6	14.5	17.7	15.8
1978	15.5	19.1	16.9	15.3	18.5	16.6
1979	15.9	19.2	17.2	16.6	20.3	18.1
1980	18.3	22.6	20.0	17.9	22.0	19.6
1981	19.6	24.2	21.4	19.3	24.1	21.2
1982	20.1	25.5	22.2	19.9	25.1	21.9
1983	19.9	25.5	22.1	20.1	25.6	22.2
1984	20.2	25.9	22.4	20.2	26.0	22.5
1985	20.6	26.7	23.0	20.7	26.7	23.0
1986	21.2	27.6	23.7	21.0	27.3	23.5
1987	21.2	27.7	23.8	21.2	27.8	23.8
1988	21.4	28.1	24.1	21.1	27.9	23.8
1989	20.8	27.8	23.6	20.9	27.8	23.7
1990	20.4	27.4	23.3	20.5	27.5	23.4
1991	20.4	27.4	23.3	20.2	27.3	23.1
1992	19.8	27.2	22.9	20.0	27.3	23.0
1993	19.9	27.3	23.0	19.8	27.3	23.0
1994	19.8	27.4	23.0	19.9	27.5	23.1
1995	19.9	27.9	23.3	19.8	27.6	23.1
1996	19.7	27.6	23.1	19.7	27.7	23.2
1997	19.7	27.6	23.2	19.6	27.6	23.1
1998	19.5	27.5	23.0	19.4	27.4	23.0
1999	19.2	27.0	22.7	19.2	27.1	22.7
2000	19.0	26.7	22.5	19.1	26.8	22.6
2001	19.1	26.7	22.6	19.1	26.8	22.6
2002	19.2	26.8	22.8	19.2	26.9	22.8
2003	19.3	27.1	23.0	19.2	27.0	22.9
2004	19.1	27.0	22.9	19.2	27.1	23.0
2005	19.4	27.2	23.1	19.2	27.1	23.0
2006	19.2	27.1	23.0	19.5	27.3	23.3
2007	19.8	27.8	23.7	19.7	27.6	23.5
2008	20.0	28.0	23.9	20.3	28.3	24.2
2009	21.0	29.2	25.0	20.9	29.0	24.9
2010	21.7	29.9	25.7	21.3	29.7	25.4
2011	21.3	30.1	25.6	22.0	30.6	26.2
2012	22.9	31.8	27.3			

Table A-3

Light-Duty Vehicle Adjusted Fuel Economy

Trucks

Model Year	Actual Data			Three-Year Moving Average		
	City	Highway	Composite	City	Highway	Composite
1975	10.9	12.7	11.6			
1976	11.6	13.2	12.2	11.7	13.3	12.4
1977	12.7	14.2	13.3	12.2	13.7	12.8
1978	12.4	13.7	12.9	12.4	13.6	12.9
1979	12.1	13.1	12.5	13.1	14.6	13.7
1980	14.8	17.1	15.8	14.3	16.3	15.1
1981	16.0	18.6	17.1	15.7	18.3	16.8
1982	16.3	19.0	17.4	16.2	19.1	17.4
1983	16.5	19.6	17.7	16.3	19.3	17.5
1984	16.1	19.3	17.4	16.3	19.4	17.5
1985	16.2	19.3	17.5	16.4	19.6	17.7
1986	16.8	20.1	18.2	16.6	20.0	18.0
1987	16.8	20.4	18.3	16.6	20.2	18.1
1988	16.2	20.1	17.8	16.3	20.1	17.9
1989	15.9	19.8	17.6	15.9	19.9	17.6
1990	15.6	19.8	17.4	15.8	19.9	17.6
1991	15.9	20.2	17.8	15.7	20.0	17.5
1992	15.4	19.9	17.3	15.6	20.1	17.5
1993	15.5	20.1	17.5	15.4	19.9	17.3
1994	15.2	19.6	17.2	15.2	19.7	17.2
1995	14.9	19.4	17.0	15.1	19.6	17.1
1996	15.0	19.8	17.2	14.9	19.5	17.0
1997	14.7	19.4	16.8	14.9	19.6	17.0
1998	14.8	19.7	17.1	14.7	19.4	16.8
1999	14.5	19.1	16.6	14.6	19.4	16.8
2000	14.7	19.3	16.8	14.5	19.1	16.7
2001	14.4	18.8	16.5	14.4	19.0	16.6
2002	14.3	18.8	16.5	14.3	18.9	16.6
2003	14.4	19.1	16.7	14.3	19.0	16.6
2004	14.2	18.9	16.5	14.3	19.2	16.7
2005	14.4	19.5	16.9	14.4	19.4	16.9
2006	14.6	19.7	17.2	14.6	19.7	17.1
2007	14.8	20.0	17.4	14.8	20.1	17.4
2008	15.1	20.5	17.8	15.2	20.6	17.9
2009	15.7	21.4	18.5	15.6	21.2	18.4
2010	15.9	21.7	18.8	16.0	21.7	18.8
2011	16.2	22.1	19.1	16.2	22.1	19.1
2012	16.4	22.5	19.4			

Table A-3

Light-Duty Vehicle Adjusted Fuel Economy

Cars and Trucks

Model Year	Actual Data			Three-Year Moving Average		
	City	Highway	Composite	City	Highway	Composite
1975	12.0	14.6	13.1			
1976	13.2	15.7	14.2	13.1	15.7	14.1
1977	14.0	16.6	15.1	14.0	16.6	15.0
1978	14.7	17.5	15.8	14.5	17.2	15.6
1979	14.9	17.4	15.9	15.7	18.8	17.0
1980	17.6	21.5	19.2	17.1	20.6	18.5
1981	18.8	23.0	20.5	18.6	22.8	20.3
1982	19.2	23.9	21.1	19.0	23.6	20.8
1983	19.0	23.9	21.0	19.1	23.9	21.0
1984	19.1	24.0	21.0	19.1	24.1	21.1
1985	19.3	24.4	21.3	19.4	24.5	21.4
1986	19.8	25.0	21.8	19.6	24.9	21.7
1987	19.8	25.3	22.0	19.7	25.2	21.9
1988	19.6	25.2	21.9	19.5	25.1	21.8
1989	19.1	24.8	21.4	19.1	24.9	21.5
1990	18.7	24.6	21.2	18.9	24.7	21.3
1991	18.8	24.7	21.3	18.6	24.6	21.1
1992	18.2	24.4	20.8	18.4	24.5	21.0
1993	18.2	24.4	20.9	18.1	24.2	20.7
1994	17.8	23.8	20.4	17.9	24.1	20.6
1995	17.7	24.1	20.5	17.7	24.0	20.4
1996	17.6	24.0	20.4	17.6	23.9	20.4
1997	17.4	23.6	20.2	17.4	23.8	20.2
1998	17.2	23.6	20.1	17.2	23.4	20.0
1999	16.9	23.0	19.7	17.0	23.2	19.9
2000	16.9	23.0	19.8	16.9	23.0	19.7
2001	16.8	22.8	19.6	16.8	22.8	19.6
2002	16.6	22.5	19.5	16.7	22.7	19.6
2003	16.7	22.7	19.6	16.6	22.6	19.4
2004	16.3	22.4	19.3	16.6	22.7	19.6
2005	16.8	23.1	19.9	16.7	23.0	19.8
2006	17.0	23.4	20.1	17.1	23.5	20.2
2007	17.4	24.0	20.6	17.3	23.9	20.6
2008	17.7	24.4	21.0	18.0	24.8	21.3
2009	18.9	26.0	22.4	18.6	25.5	22.0
2010	19.1	26.2	22.6	18.9	26.1	22.5
2011	18.8	26.1	22.4	19.3	26.7	22.9
2012	20.0	27.7	23.8			

Methodology for Adjusted Fuel Economy Values for Model Years 1986-2012

On December 27, 2006, EPA published regulations that changed the methodology for calculating the city and highway fuel economy label estimates for new passenger cars and light trucks (71 Federal Register 77872). This revised methodology provides fuel economy estimates to consumers that better reflect real world fuel economy. The methodology incorporates test data that directly account for several important factors that affect fuel economy in the real world, such as high speeds, aggressive accelerations and decelerations, the use of air conditioning, and operation in cold temperatures, and indirectly account for a number of other factors that are not reflected in EPA laboratory test data such as changing fuel composition, road conditions, etc.

These vehicle fuel economy label changes were implemented beginning with the 2008 model year. For model years 2008-2010, manufacturers had two options for calculating city and highway fuel economy labels: 1) use vehicle-specific "5-cycle" (Federal Test Procedure for urban stop-and-go driving, Highway Fuel Economy Test for rural driving, US06 test for high speeds and aggressive driving, SCO3 test for air conditioning operation, and cold FTP test for cold temperature operation) fuel economy test data in "composite" equations that calculate vehicle-specific city and highway fuel economy values using weighting factors for data from each of the 5 EPA test cycles, or 2) use an industry-average "mpg-based" method to derive 5-cycle values, which yields mpg-based adjustments based on a regression of recent 5-cycle fuel economy data for the industry as a whole, and applied to "2-cycle" fuel economy test results. Beginning with MY 2011, manufacturers are required to perform an evaluation using 5-cycle tests conducted for vehicle emissions certification that determines whether the models represented by the certification vehicle are eligible to use the less resource-intensive mpg-based method for determining adjusted fuel economy values. The evaluation consists of a comparison of 5-cycle and mpg-based 2-cycle fuel economy values to determine whether the mpg-based method achieves results comparable to the 5-cycle method. If the evaluation finds that the 5-cycle method yields significantly lower fuel economy estimates than the derived 5-cycle method, then the manufacturer is required to use the 5-cycle method for all models represented by the emission certification vehicle. Of course, a manufacturer may use the full 5-cycle method for any vehicles for which it is not required if they believe it produces better fuel economy results. Although this required evaluation has resulted in more models using the 5-cycle method, they are still in the minority. In the 2010 model year, before this evaluation was required, about seven percent of models used the more complex and labor-intensive method, but two years later, in the 2012 model year, this fraction has doubled to about 14 percent. For more details on the derivation of these options, the specific equations that allow an automaker to calculate new label values using either the vehicle-specific 5-cycle test data or the industry-average mpg-based derived 5-cycle approach, and the impact of these changes on average fuel economy label values, see the Preamble to the new regulations (71 Federal Register 77881-77893).

Beginning with the 2007 Trends report, EPA has made significant changes in how adjusted (ADJ) fuel economy values for model years 1986 through 2012 are calculated to reflect the revised EPA fuel economy label methodology. These changes affect every table and figure in this report that involve adjusted fuel economy data. Accordingly, adjusted fuel economy values for 1986 and later model years should not be compared with the corresponding values from pre-2007 reports in this series. Specifically, the adjusted fuel economy values for 1986-2012 in this report differ from those in pre-2007 reports as explained below.

- For model years 2005-2012, EPA calculates adjusted fuel economy values for most of the individual models in the fuel economy trends database using the following city and highway "mpg-based" equations from the EPA fuel economy labeling rulemaking:

$$New\ ADJ\ CITY = \frac{1}{0.003259 + \frac{1.1805}{LAB\ CITY}}$$

$$New\ ADJ\ HWY = \frac{1}{0.001376 + \frac{1.3466}{LAB\ HWY}}$$

The above equations are not used if a manufacturer chooses the option of providing vehicle-specific 5-cycle test data for an individual model. In that case, the adjusted fuel economy values are calculated using equations with weighting factors for the vehicle-specific data from the 5-cycle tests.

Calculating fleetwide adjusted city and highway fuel economy values for a given model year requires a harmonic, production-weighted average of all of the adjusted city and highway fuel economy values for individual models.

The above equations yield a greater downward adjustment for higher fuel economy vehicles than for lower fuel economy vehicles. For example, compared to the older fuel economy label methodology, a 15 mpg city value will be reduced by an additional 10%, while a 50 mpg city value will be reduced by an additional 18%. Likewise, a 20 mpg highway value will be reduced by an additional 7%, while a 50 mpg highway value will be reduced by an additional 11%. EPA projected an overall average fleetwide adjustment of 11% lower for city fuel economy and 8% lower for highway fuel economy, beyond that in the older label adjustment methodology that has been used in pre-2007 reports in this series. These factors can be used to convert older adjusted fuel economy values to the newer adjusted fuel economy values for the current fleet as a whole, but would not be appropriate factors to use for individual models or for a future fleet with different mpg characteristics.

This report seldom uses separate city and highway fuel economy values, but typically uses the composite city/highway fuel economy value. Pre-2007 reports used a 55% city/45% highway weighting for adjusted composite fuel economy values, the same weighting used for laboratory composite values and for the CAFE compliance program. The analysis of real world driving activity underlying the newer fuel economy label methodology assumed a "speed cutpoint" of 45 miles per hour to differentiate between city and highway driving (71 Federal Register 77904). Based on this speed cutpoint, the correct weighting for correlating the new city and highway fuel economy values with real world driving, on a miles driven basis, is 43% city/57% highway. Accordingly, the 43% city/57% highway weighting is now used for all adjusted composite city/highway fuel economy values in this report beginning with the 2005 model year (note that the historic 55% city/45% highway weighting is still used for both CAFE compliance and fuel economy labels).

The appropriate fleetwide factors to convert laboratory or older adjusted fuel economy values to the newer adjusted fuel economy values are dependent on the city fuel economy-to-highway fuel economy ratios in the fleet. On average, for the current fleet, combining the 11% lower adjustment for city fuel economy, the 8% lower adjustment for highway fuel economy, and the shift to the 43% city/57% highway weighting, the newer adjustment for city/highway composite fuel economy values is 7% lower than that used in the older label adjustment methodology. This 7% lower value is the average impact for a fleet with the mpg and city fuel economy-to-highway fuel economy characteristics of the current MY 2012 fleet, and would not be the appropriate value for individual models, partial fleet segments, or for past or future fleets with different mpg and city fuel economy-to-highway fuel economy distributions.

- For model years 1986 through 2004, EPA calculates adjusted fuel economy values based on the assumption that the impacts of the factors that have led to lower real world fuel economy have occurred in a gradual (i.e., linear) manner over the 20 years from 1986 through 2005. On April 6, 1984, EPA published regulations that established the older fuel economy label adjustment factors of 0.9 for city fuel economy and 0.78 for highway fuel economy that took effect for model year 1985 vehicles (49 Federal Register 13832). EPA believes that these adjustment factors were appropriate through the 1985 model year. EPA has not attempted to perform a year-by-year analysis to determine the extent to which the many relevant factors (including highway speed limits, more aggressive driving, vehicle horsepower-to-weight ratio, suburbanization, congestion, use of air conditioning, gasoline composition, et al) that have affected real world fuel economy since 1985 have changed over time. Rather, EPA has made the simplifying, but we think reasonable, assumption that the collective impact of these changes has been a linearly increasing impact over the 20 years from 1986 through 2005. Using the equations shown above for individual models, EPA has assumed 1/20 of the fully phased-in downward adjustment for city and highway values would be reflected in the 1986 data, 2/20 of this adjustment would be reflected in the 1987 data, etc., up to 19/20 of this adjustment in 2004 and the full adjustment in 2005 and later years. Likewise, EPA has assumed the 55/45 city/highway weighting changes to a 43/57 city/highway weighting in a linear fashion over the 1986 to 2005 time period as well. The average fleetwide composite city/highway fuel economy values for 2005 were projected to be , on average, about 6% lower than the composite city/highway fuel economy value calculated with the older adjustment factors.

To generate precise adjusted city, highway, or composite fuel economy values for individual models or for future fleetwide averages with different mpg or city fuel economy-to-highway fuel economy ratios than the current fleet, it is essential to use the above equations to calculate adjusted city and highway fuel economy values for individual models, then use the 43% city/57% highway weighting to generate an adjusted composite fuel economy value for individual models, and then calculate the harmonically production-weighted average of the individual models to yield the average composite fuel economy for the fleet as a whole. Alternatively, for a first-order estimate of generic fleetwide factors that one could use to convert values from the historic fuel economy trends database to the newer adjusted fuel economy levels, see the factors in Table A-4, which are based on the mpg and city fuel economy-to-highway fuel economy characteristics of the current fleet. For example, the industry-wide adjusted composite city/highway fuel economy value for model year 1986 in this year's report, which will be reported as ADJ COMP, is about .997 (1.0 minus 0.003, where 0.003 equals 0.3%, and the latter is equal

to 6% divided by 20) times the adjusted composite city/highway fuel economy value, or ADJ 55/45, from pre-2007 reports in this series. Likewise, the same industry-wide ADJ COMP value for 1986 can be approximated by multiplying the laboratory composite 55/45 value for 1986 by 0.851. The industry-wide ADJ COMP fuel economy values for model years 2005-2011 in this year's report are all equal to 0.80 times the laboratory composite 55/45 values.

It is important to note that the above discussion, as well as all the data in this report, is focused on new model year vehicle fleets, i.e., the data for a MY2000 vehicle is most directly relevant for that vehicle operated on the road in calendar year 2000. Because most (though not all) of the real world factors reflected in this methodology are relatively independent of vehicle design, the best approximation of the adjusted fuel economy of a used MY2000 vehicle in calendar year 2011 would be to use the 2011 factors in Table A-4.

Table A-5 provides a comparison of adjusted composite fuel economy values, for cars and trucks combined, using both the older fuel economy label methodology that has been used in pre-2007 reports in this series as well as the newer fuel economy label methodology described above and used in 2007 and later reports.

No changes have been made in the way EPA calculates adjusted fuel economy values for 1975-1985. For these model years, EPA still uses the 0.9 city/0.78 highway fuel economy adjustments established in 1984, along with the 55% city/45% highway weighting factor. EPA believes that this methodology was appropriate for the late 1970s and early 1980s and is not making any changes to adjusted fuel economy values for 1975 through 1985.

No changes have been made in the laboratory (LAB) fuel economy values in this report. The laboratory city value remains the fuel economy value over the EPA Federal Test Procedure, the laboratory highway value remains the fuel economy value over the EPA Highway Fuel Economy Test, and the laboratory 55/45 is a weighted value of these two tests, with a 55% weighting of the Federal Test Procedure and a 45% weighting of the Highway Fuel Economy Test. The laboratory 55/45 values are used for CAFE compliance, in conjunction with alternative fuel vehicle credits and test procedure adjustments. Because the underlying methodology for generating and reporting the laboratory fuel economy values have not changed since this series began in the mid-1970s, these values provide an excellent basis with which to compare long-term fuel economy trends from the perspective of vehicle design, apart from the factors that affect real world fuel economy that are reflected in the adjusted fuel economy values.

Finally, this same methodology for including real world factors in the adjusted fuel economy values is also reflected in the adjusted carbon dioxide (CO₂) emissions data as well. As discussed in Section IV, EPA back-calculated all CO₂ emissions values in this report from corresponding fuel economy values in the historical Trends database. Accordingly, the adjusted CO₂ emissions values explicitly account for the above methodology for 1986 and later model years.

Table A-4**Approximate Factors for Converting Industry-Wide Fuel Economy Values from Previous Reports to the New Fuel Economy Values in this 2012 Report**

	Factors to convert older ADJ to new ADJ			Factors to convert LAB to new ADJ		
	CITY	HWY	55/45	CITY	HWY	55/45
1975-1985	1.000	1.000	1.000	0.900	0.780	0.854
1986	0.995	0.996	0.997	0.895	0.777	0.851
1987	0.989	0.992	0.994	0.890	0.774	0.849
1988	0.984	0.988	0.991	0.885	0.771	0.846
1989	0.978	0.984	0.988	0.880	0.768	0.843
1990	0.973	0.980	0.985	0.875	0.765	0.841
1991	0.967	0.976	0.982	0.870	0.762	0.838
1992	0.962	0.972	0.979	0.865	0.759	0.835
1993	0.956	0.968	0.976	0.860	0.756	0.832
1994	0.951	0.964	0.973	0.855	0.753	0.830
1995	0.945	0.960	0.970	0.850	0.750	0.827
1996	0.940	0.956	0.967	0.845	0.747	0.824
1997	0.934	0.952	0.964	0.840	0.744	0.822
1998	0.929	0.948	0.961	0.835	0.741	0.819
1999	0.923	0.944	0.958	0.830	0.738	0.816
2000	0.918	0.940	0.955	0.825	0.735	0.814
2001	0.912	0.936	0.952	0.820	0.732	0.811
2002	0.907	0.932	0.949	0.815	0.729	0.808
2003	0.901	0.928	0.946	0.810	0.726	0.805
2004	0.896	0.924	0.943	0.805	0.723	0.803
2005 - 2012	0.890	0.920	0.940	0.800	0.720	0.800

Important Notes for Table A-4:

1. Multiplying the factors above times the appropriate values from pre-2007 reports approximates the newer adjusted (ADJ) fuel economy values in this 2012 report. Also, these factors can be used "in reverse" to convert new adjusted fuel economy values in this report to corresponding old adjusted fuel economy values or to corresponding laboratory fuel economy values, e.g., dividing an adjusted, combined city/highway MY 2012 fuel economy value in this report by .940 would yield a corresponding adjusted fuel economy value based on the methodology used in pre-2007 reports.
2. These factors are first-order approximations relevant only for industry-wide fuel economy values for the 1986 through 2012 timeframe.
3. Precise estimates for individual models require the use of the mpg-based equations for ADJ CITY and ADJ HWY provided above as well as a linear phase-in, over the 1986 to 2005 time period, for both the mpg-based equations and the change from a 55/45 city/highway weighting to a 43/57 city/highway weighting.
4. These approximations would yield the largest error for individual models or fleets with high mpg and/or high city fuel economy-to-highway fuel economy ratios.

Table A-5

**Comparison of “Old” and “New” Adjusted Composite Fuel Economy Values,
for Cars and Trucks Combined, for 2003-2012**

<i>Cars and Trucks Combined</i>		
	"Old"	"New"
Model Year	Adjusted Composite	Adjusted Composite
2003	20.8	19.6
2004	20.5	19.3
2005	21.2	19.9
2006	21.5	20.1
2007	22.0	20.6
2008	22.4	21.0
2009	24.1	22.4
2010	24.3	22.6
2011	24.5	22.8
2012	25.6	23.8

Important Notes for Table A-5:

1. “Old” adjusted composite fuel economy values are based on the EPA fuel economy label methodology used in previous reports in this series, i.e., 10% downward city adjustment, 22% downward highway adjustment, and a 55% city/45% highway weighting factor.

2. “New” adjusted composite fuel economy values are based on the new EPA fuel economy label methodology, applicable to MY2011 vehicles and used for the first time in the 2007 report and described in the previous section.

Comparison of EPA and NHTSA Data, 1975-2012

Table A-6 compares CAFE performance data reported by the National Highway Traffic Safety Administration (“Summary of Fuel Economy Performance” report dated October 2, 2012 and available at www.nhtsa.gov) with the adjusted and unadjusted (laboratory) composite fuel economy data in this report. The NHTSA values in Table A-6 are generally higher than the EPA laboratory values due to differences in alternative fuel vehicle credits, test procedure adjustment factors for cars, and, for years prior to MY 2011, some minor differences in vehicle classification. In recent years for which both Agencies report final data, the NHTSA values are typically 0.6-1.0 mpg higher than the EPA values due to these differences. For MY2012, the preliminary NHTSA value is higher than the preliminary EPA number by 0.6 mpg for cars and 0.7 mpg for trucks. These preliminary projections are based on different data sets. The EPA value is based on automaker submissions in the spring and summer of 2011 to support vehicle fuel economy labels. The NHTSA value is based on automaker estimates provided in mid-model year CAFE reports later in 2011. Final MY2012 results will be reported in next year’s report.

The EPA car and truck fuel economy values shown in Table A-6 for years prior to MY 2011 differ from the values found elsewhere in this report. Beginning with the 2011 report, EPA reclassified most small, 2 wheel drive SUVs from trucks to cars for the entire MY 1975-2012 database. This reflects a regulatory change made by NHTSA for CAFE standards beginning in MY 2011 and which will apply for the joint EPA/NHTSA greenhouse gas emissions and CAFE standards that have been finalized for MY 2012-2025. These changes were not in effect for years prior to MY 2011, and accordingly NHTSA’s CAFE fuel economy values prior to MY 2011 are based on the previous car and truck definitions. To enable a comparison to the NHTSA values, the EPA car and truck values in Table A-6 through model year 2010 were calculated using the previous car and truck definitions, which is not consistent with the rest of this report. While the individual car and truck numbers in Table A-6 are unique, the car and truck definitions do not affect the overall (car plus truck) fuel economy values, which are consistent with the rest of this report.

Table A-6

EPA Adjusted, Laboratory, and NHTSA CAFE Fuel Economy Values by Model Year

Model Year	Cars				Trucks				Both Cars and Trucks			
	EPA Adj.	EPA Unadj.	NHTSA (CAFE)	Diff.	EPA Adj.	EPA Unadj.	NHTSA (CAFE)	Diff.	EPA Adj.	EPA Unadj.	NHTSA (CAFE)	Diff.
1975	13.5	15.8	n/a		11.6	13.7	n/a		13.1	15.3	n/a	
1976	14.9	17.5	n/a		12.2	14.4	n/a		14.2	16.7	n/a	
1977	15.6	18.3	n/a		13.3	15.6	n/a		15.1	17.7	n/a	
1978	16.9	19.9	19.9	0.0	12.9	15.2	n/a		15.8	18.6	19.9	1.3
1979	17.2	20.3	20.3	0.0	12.5	14.7	18.2	3.5	15.9	18.7	20.1	1.4
1980	20.0	23.5	24.3	0.8	15.8	18.6	18.5	-0.1	19.2	22.5	23.1	0.6
1981	21.4	25.1	25.9	0.8	17.1	20.1	20.1		20.5	24.1	24.6	0.5
1982	22.2	26.0	26.6	0.6	17.4	20.5	20.5		21.1	24.7	25.1	0.4
1983	22.1	25.9	26.4	0.5	17.8	20.9	20.7	-0.2	21.0	24.6	24.8	0.2
1984	22.4	26.3	26.9	0.6	17.4	20.5	20.6	0.1	21.0	24.6	25.0	0.4
1985	23.0	27.0	27.6	0.6	17.5	20.6	20.7	0.1	21.3	25.0	25.4	0.4
1986	23.7	27.9	28.2	0.3	18.2	21.4	21.5	0.1	21.8	25.7	25.9	0.2
1987	23.8	28.1	28.5	0.4	18.3	21.6	21.7	0.1	22.0	25.9	26.2	0.3
1988	24.1	28.6	28.8	0.2	17.9	21.2	21.3	0.1	21.9	25.9	26.0	0.1
1989	23.7	28.1	28.4	0.3	17.6	20.9	21.0	0.1	21.4	25.4	25.6	0.2
1990	23.3	27.8	28.0	0.2	17.4	20.7	20.8	0.1	21.2	25.2	25.4	0.2
1991	23.4	28.0	28.4	0.4	17.8	21.3	21.3		21.3	25.4	25.6	0.2
1992	23.1	27.6	27.9	0.3	17.4	20.8	20.8		20.8	24.9	25.1	0.2
1993	23.5	28.2	28.4	0.2	17.5	21.0	21.0		20.9	25.1	25.2	0.1
1994	23.3	28.0	28.3	0.3	17.2	20.8	20.8		20.4	24.6	24.7	0.1
1995	23.4	28.3	28.6	0.3	17.0	20.5	20.5		20.5	24.7	24.9	0.2
1996	23.3	28.3	28.5	0.2	17.2	20.8	20.8		20.4	24.8	24.9	0.1
1997	23.4	28.4	28.7	0.3	17.0	20.6	20.6		20.1	24.5	24.6	0.1
1998	23.4	28.5	28.8	0.3	17.1	20.9	21.0	0.1	20.1	24.5	24.7	0.2
1999	23.0	28.2	28.3	0.1	16.7	20.5	20.9	0.4	19.7	24.1	24.5	0.4
2000	22.9	28.2	28.5	0.3	16.9	20.8	21.3	0.5	19.8	24.3	24.8	0.5
2001	23.0	28.4	28.8	0.4	16.7	20.6	20.9	0.3	19.6	24.2	24.5	0.3
2002	23.1	28.6	29.0	0.4	16.7	20.6	21.4	0.8	19.5	24.1	24.7	0.6
2003	23.2	28.9	29.5	0.6	16.9	20.9	21.8	0.9	19.6	24.3	25.1	0.8
2004	23.1	28.9	29.5	0.6	16.7	20.8	21.5	0.7	19.3	24.0	24.6	0.6
2005	23.5	29.5	30.3	0.8	17.2	21.4	22.1	0.7	19.9	24.8	25.4	0.6
2006	23.3	29.2	30.1	0.9	17.5	21.8	22.5	0.7	20.1	25.2	25.8	0.6
2007	24.1	30.3	31.2	0.9	17.7	22.1	23.1	1.0	20.6	25.8	26.6	0.8
2008	24.3	30.5	31.5	1.0	18.2	22.7	23.6	0.9	21.0	26.3	27.1	0.8
2009	25.4	32.1	32.9	0.8	19.0	23.8	24.8	1.0	22.4	28.2	29.0	0.8
2010	25.8	32.7	33.9	1.2	19.1	23.8	25.2	1.4	22.6	28.4	29.3	0.9
2011	25.6	32.3	33.3	1.0	19.1	23.9	24.6	0.7	22.4	28.1	29.0	0.9
2012	27.3	34.6	35.2		19.4	24.3	25.0		23.8	30.0	30.8	

Comparison of EPA and NHTSA Data for MY2011 by Manufacturer

The primary differences between EPA unadjusted laboratory fuel economy data and NHTSA CAFE values are flexible fuel vehicle (FFV) credits that are available to manufacturers that produce vehicles capable of operation on an alternative fuel (generally a blend of 85 percent ethanol and 15 percent gasoline), and test procedure adjustment (TPA) credits that apply to manufacturers of passenger cars. Any remaining offsets are due to alternative fuel vehicles, which are not included in the overall fuel economy values provided in this report (see section VIII Alternative Fuel Vehicle Trends, for more information about alternative fuel vehicles), or due to rounding.

Table A-7 shows a detailed MY2011 comparison, for the eleven highest-volume manufacturers (excluding Hyundai and Kia), of the EPA laboratory fuel economy values from this report and final NHTSA CAFE values based on the year end fuel economy report data provided to EPA and NHTSA by automakers. This table shows how EPA laboratory values, FFV credits, and TPA credits “add up” to CAFE values.

In order to be consistent with NHTSA CAFE reports, Fiat is excluded from the Chrysler data for Table A-7, but is included with Chrysler elsewhere in this report.

The FFV and TPA credit values in Table A-7 were obtained directly from EPA’s fuel economy compliance program. The data is from the annual manufacturer Corporate Average Fuel Economy (CAFE) Reports. The CAFE program recognizes Domestic and Import passenger vehicles separately, so the passenger car results in Table A-7 are calculated from these categories. The truck FFV credit values were obtained directly (trucks are not eligible for TPA credits). The combined car and truck FFV and TPA credits were generated using the car and truck sales. This column is shown for illustrative purposes only, since there are no CAFE standards for combined cars and trucks.

For MY2011, five manufacturers earned FFV credits for cars and six manufacturers did so for trucks. All manufacturers were eligible for the TPA credits for cars.

Table A-7

**Comparison of MY2011 EPA Laboratory and Final NHTSA CAFE Values
by Manufacturer**

Manufacturer	Passenger Car				Light Truck				Both Cars and Trucks			
	EPA LAB	FFV Credit	TPA Credit	NHTSA CAFE	EPA LAB	FFV Credit	TPA Credit	NHTSA CAFE	EPA LAB	FFV Credit	TPA Credit	NHTSA CAFE
General Motors	29.8	1.2	0.2	31.3	22.0	1.2	0.0	23.2	25.7	1.2	0.1	27.1
Toyota	35.9	0.0	0.3	36.2	24.9	0.5	0.0	25.4	30.6	0.3	0.1	31.0
Ford	31.2	1.2	0.3	32.7	23.0	1.2	0.0	24.2	26.5	1.2	0.1	27.8
Honda	35.4	0.0	0.4	35.8	26.4	0.0	0.0	26.4	30.4	0.0	0.1	30.5
Chrysler	28.4	1.2	0.2	29.8	23.2	1.2	0.0	24.4	24.2	1.2	0.0	25.4
BMW	29.1	0.0	0.2	29.3	25.3	0.0	0.0	25.3	28.4	0.0	0.2	28.6
Daimler	25.1	1.2	0.2	26.6	21.1	0.0	0.0	21.1	23.7	0.7	0.1	24.6
Mazda	33.4	0.0	0.4	33.8	24.6	0.1	0.0	24.7	31.7	0.0	0.3	31.9
Nissan	33.3	0.0	0.3	34.1	23.8	1.0	0.0	24.8	29.6	0.5	0.2	30.5
Subaru	30.2	0.0	0.2	30.5	30.4	0.0	0.0	30.4	30.4	0.0	0.1	30.4
VW	33.5	0.1	0.2	33.9	27.1	0.0	0.0	27.1	32.1	0.1	0.2	32.3

* Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data.

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix B Model Year 2012 Nameplate Fuel Economy Listings

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report

Appendix B: Model Year 2012 Nameplate Fuel Economy Listings

Vehicle Size Class	Model Name	Fuel Economy			
		Lab	Adj	Adj	Adj
		55/45	City	Hwy	Comp
Two-seater	Daimler Smart fortwo (CABRIOLET)	50.3	34.5	38.2	36.5
Two-seater	Daimler Smart fortwo (COUPE)	50.3	34.5	38.2	36.5
Two-seater	Honda CR-Z	48.2	33.5	38.2	36.1
Two-seater	BMW Mini Cooper Coupe	42.5	28.5	36.5	32.6
Two-seater	BMW Mini Cooper Roadster	40.3	27.1	34.9	31.1
Two-seater	BMW Mini Cooper S Coupe	39.2	26.1	34.6	30.4
Two-seater	BMW Mini Cooper S Roadster	39.2	26.1	34.6	30.4
Two-seater	BMW Mini John Cooper Works Coupe	37.2	24.9	32.9	28.9
Two-seater	BMW Mini John Cooper Works Roadster	37.2	24.9	32.9	28.9
Two-seater	Daimler SLK 250	34.7	22.7	32.6	27.4
Two-seater	BMW Z4 sDrive28i	34.3	22.2	32.6	27.1
Two-seater	VW TT ROADSTER QUATTRO	33.5	22.5	31.3	26.8
Two-seater	Mazda MX-5	31.0	21.0	27.7	24.4
Two-seater	Daimler SLK 350	30.1	19.8	29.0	24.1
Two-seater	Porsche Boxster Spyder	30.0	19.7	28.6	24.0
Two-seater	Porsche Cayman R	29.5	19.5	27.9	23.5
Two-seater	Porsche Cayman	29.5	19.4	28.1	23.5
Two-seater	Porsche Boxster	29.4	19.4	28.0	23.5
Two-seater	Porsche Boxster S	29.3	19.2	28.1	23.5
Two-seater	Porsche Cayman S	29.3	19.2	28.0	23.4
Two-seater	Daimler SLK 55 AMG	28.7	19.0	27.8	23.2
Two-seater	Porsche 911 Speedster	28.0	18.5	26.5	22.4
Two-seater	Nissan 370Z	27.6	18.3	26.1	22.1
Two-seater	Nissan 370Z ROADSTER	26.7	17.9	24.9	21.3
Two-seater	BMW Z4 sDrive35i	26.4	17.7	24.8	21.2
Two-seater	BMW Z4 sDrive35is	25.2	16.9	23.6	20.2
Two-seater	GM CORVETTE	23.1	14.8	23.9	18.9
Two-seater	McLaren MP4-12C Coupe	23.1	15.2	21.9	18.4
Two-seater	Daimler SL 550	20.7	13.9	22.1	17.6
Two-seater	Aston Martin V8 Vantage S	20.6	13.5	20.8	16.9
Two-seater	Daimler SLS AMG	20.1	13.7	20.2	16.7
Two-seater	Daimler SLS AMG Roadster	20.1	13.7	20.2	16.7
Two-seater	Aston Martin V8 Vantage	20.4	13.6	19.9	16.6
Two-seater	VW Gallardo Coupe	19.2	13.4	19.8	16.4
Two-seater	VW Gallardo Spyder	19.1	13.3	19.8	16.4
Two-seater	Chrysler-Fiat Ferrari California	19.6	13.1	19.3	16.0
Two-seater	VW R8 Spyder	17.9	12.4	19.5	15.7
Two-seater	VW R8	17.8	12.3	19.4	15.6
Two-seater	Daimler SL 63 AMG	18.1	11.9	18.6	15.0
Two-seater	VW Continental Supersports	17.8	11.7	18.9	15.0
Two-seater	Chrysler-Fiat Ferrari 458 Italia	17.8	11.8	17.5	14.5
Two-seater	Aston Martin V12 Vantage	16.8	11.2	16.6	13.8
Two-seater	VW Aventador Coupe	15.6	10.6	16.9	13.4
Two-seater	Toyota LFA	15.9	10.6	16.0	13.1
Two-seater	VW Veyron	12.5	8.4	14.8	11.2
Mini-compact	Toyota iQ	52.3	36.0	37.4	36.8
Mini-compact	BMW Mini Cooper	42.2	28.2	36.3	32.3
Mini-compact	Chrysler-Fiat 500 Abarth	41.4	28.4	34.3	31.5
Mini-compact	BMW Mini Cooper Convertible	40.2	26.9	35.0	31.0
Mini-compact	Chrysler-Fiat 500	40.4	27.4	34.3	31.0
Mini-compact	BMW Mini Cooper S Convertible	39.1	26.0	34.5	30.3
Mini-compact	BMW Mini Cooper S	39.0	26.0	34.5	30.3
Mini-compact	BMW Mini John Cooper Works	37.2	24.9	32.9	28.9
Mini-compact	BMW Mini John Cooper Works Conv	37.2	24.9	32.9	28.9

2012 FE Trends Report

Appendix B: Model Year 2012 Nameplate Fuel Economy Listings

Vehicle Size Class	Model Name	Fuel Economy			
		Lab	Adj	Adj	Adj
		55/45	City	Hwy	Comp
Mini-compact	Porsche New 911 Carrera	29.7	19.7	27.9	23.7
Mini-compact	Porsche New 911 Carrera Cabriolet	29.6	19.7	27.7	23.6
Mini-compact	Porsche New 911 Carrera S	28.9	19.1	27.2	23.0
Mini-compact	Mitsubishi ECLIPSE SPYDER	28.5	19.0	26.7	22.7
Mini-compact	Porsche New 911 Carrera S Cabriolet	28.4	18.8	26.9	22.7
Mini-compact	Lotus Evora	26.9	18.4	27.3	22.6
Mini-compact	Porsche 911 Carrera	27.8	18.6	26.1	22.2
Mini-compact	Porsche 911 Carrera Cabriolet	27.8	18.5	26.1	22.2
Mini-compact	Porsche 911 Carrera S Cabriolet	27.6	18.4	26.2	22.1
Mini-compact	Porsche 911 GTS Cabriolet	27.6	18.3	26.1	22.1
Mini-compact	Porsche 911 GTS	27.5	18.4	25.8	22.0
Mini-compact	Porsche 911 Carrera S	27.4	18.3	25.7	21.9
Mini-compact	Porsche 911 Carrera 4	27.4	18.3	25.6	21.8
Mini-compact	Porsche 911 Carrera 4 Cabriolet	27.3	18.2	25.7	21.8
Mini-compact	Porsche 911 Carrera 4 Targa	27.3	18.2	25.7	21.8
Mini-compact	Porsche 911 Carrera 4S	27.1	18.2	25.4	21.7
Mini-compact	Porsche 911 C4 GTS	27.1	18.2	25.4	21.7
Mini-compact	Porsche 911 C4 GTS Cabriolet	27.0	18.0	25.5	21.6
Mini-compact	Porsche 911 Carrera 4S Cabriolet	27.0	18.0	25.5	21.6
Mini-compact	Porsche 911 Carrera 4S Targa	27.0	18.0	25.5	21.6
Mini-compact	Porsche 911 Turbo S Coupe	25.1	16.5	24.6	20.3
Mini-compact	Porsche 911 Turbo Coupe	25.0	16.5	24.3	20.2
Mini-compact	Porsche 911 Turbo S Cabriolet	24.3	15.8	24.3	19.7
Mini-compact	Porsche 911 Turbo Cabriolet	24.3	15.9	24.1	19.7
Mini-compact	Jaguar Jaguar XK	23.2	15.4	22.7	18.8
Mini-compact	Jaguar Jaguar XK Convertible	22.9	15.3	22.1	18.6
Mini-compact	Aston Martin DB9	19.5	12.9	19.5	16.0
Mini-compact	Aston Martin Virage	18.8	12.6	18.3	15.3
Mini-compact	Aston Martin DBS	17.5	11.6	17.6	14.4
Subcompact	Ford Fiesta SFE FWD	44.6	29.2	39.5	34.3
Subcompact	Ford Fiesta FWD	44.1	29.2	38.6	33.9
Subcompact	BMW Mini Cooper Clubman	40.2	27.0	35.0	31.0
Subcompact	BMW Mini Cooper S Clubman	39.1	26.0	34.6	30.3
Subcompact	Toyota xD	39.3	26.7	33.4	30.2
Subcompact	BMW Mini John Cooper Works Clubman	37.2	24.9	32.9	28.9
Subcompact	VW TT COUPE QUATTRO	33.5	22.5	31.3	26.8
Subcompact	VW A5 Cabriolet	34.1	22.0	29.9	25.9
Subcompact	Daimler C 250 (Coupe)	32.5	21.3	30.9	25.9
Subcompact	VW EOS	32.4	21.8	30.1	25.8
Subcompact	Nissan ALTIMA COUPE	32.6	21.8	29.8	25.7
Subcompact	VW BEETLE	31.6	22.0	29.0	25.5
Subcompact	Toyota IS 250/IS 250C	32.2	21.3	29.9	25.5
Subcompact	VW A5 QUATTRO	31.1	20.8	29.7	25.1
Subcompact	VW A5 Cabriolet quattro	30.8	20.7	29.4	24.9
Subcompact	Ford MUSTANG CONVERTIBLE	29.8	19.2	29.5	24.0
Subcompact	Mitsubishi ECLIPSE	29.8	19.9	27.6	23.7
Subcompact	Daimler E 350 (coupe)	29.4	19.2	28.5	23.6
Subcompact	Hyundai GENESIS COUPE	N/A	18.9	28.8	23.5
Subcompact	Daimler C 350 (Coupe)	29.1	19.0	28.2	23.3
Subcompact	Daimler E 350 (CONVERTIBLE)	29.1	19.1	27.9	23.3
Subcompact	Daimler C 350 4Matic (Coupe)	29.1	19.1	27.8	23.3
Subcompact	Toyota IS 350/IS 350C	29.1	19.5	26.9	23.1
Subcompact	Toyota IS 250 AWD	29.2	19.7	26.6	23.1
Subcompact	Daimler E 350 4MATIC (coupe)	28.7	18.8	27.6	23.0

2012 FE Trends Report

Appendix B: Model Year 2012 Nameplate Fuel Economy Listings

Vehicle Size Class	Model Name	Fuel Economy			
		Lab	Adj	Adj	Adj
		55/45	City	Hwy	Comp
Subcompact	BMW 335i Coupe	28.3	18.5	27.7	22.8
Subcompact	BMW 335Ci Convertible	28.3	18.5	27.7	22.8
Subcompact	BMW 128i	28.0	18.1	27.9	22.6
Subcompact	BMW 328i Coupe	28.0	18.1	27.9	22.6
Subcompact	Volvo C70 FWD	27.6	18.1	27.5	22.5
Subcompact	Ford MUSTANG	27.8	18.0	27.5	22.4
Subcompact	BMW 335i Coupe xDrive	28.0	18.5	26.7	22.4
Subcompact	BMW 128Ci Convertible	27.4	17.9	26.8	22.1
Subcompact	BMW 328Ci Convertible	27.3	17.8	26.8	22.0
Subcompact	Nissan G37 COUPE	27.4	18.2	26.1	22.0
Subcompact	BMW 135i	27.4	18.3	25.8	21.9
Subcompact	Toyota IS 350 AWD	27.5	18.4	25.6	21.9
Subcompact	Daimler E 550 (COUPE)	26.7	17.2	27.0	21.7
Subcompact	BMW 135i Convertible	26.8	17.8	25.5	21.5
Subcompact	VW TTRS COUPE	25.6	17.8	25.2	21.3
Subcompact	Nissan G37x COUPE	26.6	17.7	25.2	21.3
Subcompact	BMW 328i Coupe xDrive	26.3	17.3	25.5	21.2
Subcompact	VW S5 Cabriolet	24.8	16.7	26.1	21.0
Subcompact	Nissan G37 CONVERTIBLE	26.1	17.2	25.1	21.0
Subcompact	BMW 335is Coupe	25.8	17.2	24.4	20.7
Subcompact	BMW 335is Convertible	25.4	17.0	23.9	20.4
Subcompact	Daimler E 550 (CONVERTIBLE)	26.2	16.5	24.8	20.4
Subcompact	Nissan GT-R	23.7	16.4	22.6	19.4
Subcompact	VW S5	23.1	15.7	23.4	19.3
Subcompact	Toyota IS F	23.8	15.8	23.1	19.2
Subcompact	Ford Roush Stage 3 Mustang	22.2	13.9	21.1	17.3
Subcompact	BMW M3 Coupe	20.7	13.8	20.3	16.9
Subcompact	BMW M3 Convertible	20.2	13.5	19.7	16.4
Subcompact	Chrysler-Fiat GRANTURISMO	19.8	12.8	20.7	16.4
Subcompact	Chrysler-Fiat Granturismo Convertible	19.7	12.8	20.4	16.2
Subcompact	Daimler C 63 Black Series AMG Coupe	19.9	13.3	19.4	16.2
Subcompact	Daimler C 63 AMG Coupe	19.7	13.2	19.3	16.1
Subcompact	Aston Martin Rapide	19.2	12.7	19.2	15.8
Subcompact	VW Continental Supersports Convrt	17.3	11.5	18.9	14.8
Subcompact	VW Continental GTC	17.1	11.2	18.7	14.6
Compact	Toyota PRIUS c	70.7	52.5	46.3	48.8
Compact	Honda CIVIC HYBRID	63.1	43.9	44.5	44.2
Compact	Honda INSIGHT	58.9	40.8	44.3	42.7
Compact	Toyota CT 200h	57.5	42.8	40.2	41.3
Compact	Honda CIVIC HF	44.3	28.5	40.7	34.4
Compact	Toyota HS 250h	47.3	35.4	33.6	34.3
Compact	Ford Focus SFE FWD	43.6	28.0	40.4	33.9
Compact	Ford Focus SFE FWD FFV	43.6	28.0	40.4	33.9
Compact	Mazda MAZDA3 DI 4-Door	43.4	28.0	39.9	33.7
Compact	Honda CIVIC	42.6	27.8	38.4	33.0
Compact	Toyota YARIS	43.3	29.7	35.6	32.8
Compact	Hyundai ACCENT	N/A	28.2	36.7	32.5
Compact	Ford Focus FWD FFV	41.9	27.4	37.6	32.4
Compact	Kia RIO	N/A	28.4	35.9	32.3
Compact	Ford FOCUS FWD	41.4	27.2	37.1	32.0
Compact	Nissan VERSA	41.6	28.0	35.7	31.9
Compact	Mazda MAZDA2	41.3	28.4	34.1	31.4
Compact	Hyundai VELOSTER	N/A	27.0	35.4	31.2
Compact	GM SONIC	38.8	25.3	35.8	30.4

2012 FE Trends Report

Appendix B: Model Year 2012 Nameplate Fuel Economy Listings

Vehicle Size Class	Model Name	Fuel Economy			
		Lab	Adj	Adj	Adj
		55/45	City	Hwy	Comp
Compact	GM SONIC 5	38.8	25.3	35.8	30.3
Compact	Toyota COROLLA	39.0	26.0	34.4	30.2
Compact	VW GOLF	37.0	25.5	34.9	30.1
Compact	BMW Mini Cooper S Countryman	37.6	25.6	32.2	29.0
Compact	VW Jetta	35.7	24.8	33.1	29.0
Compact	Mitsubishi LANCER	36.6	24.4	32.6	28.5
Compact	Suzuki SX4 SEDAN	36.7	24.6	32.3	28.5
Compact	Kia FORTE KOUP	N/A	24.0	32.7	28.3
Compact	BMW Mini Cooper Countryman	36.8	25.4	30.8	28.2
Compact	BMW 328i	36.6	22.9	32.6	27.6
Compact	BMW Mini Cooper S Countryman All4	35.5	24.2	30.7	27.5
Compact	BMW 640i Coupe	34.6	22.6	32.7	27.4
Compact	VW GTI	33.0	22.7	31.7	27.1
Compact	BMW 335i	34.2	22.2	32.4	27.1
Compact	Mazda MAZDA3	34.4	22.9	31.1	27.0
Compact	Subaru IMPREZA AWD	34.2	22.9	30.7	26.8
Compact	Suzuki KIZASHI S	34.0	22.6	31.1	26.7
Compact	Toyota tC	33.9	22.6	30.7	26.6
Compact	Suzuki KIZASHI	34.0	22.9	30.2	26.5
Compact	Suzuki SX4 Sport	33.9	23.0	29.7	26.4
Compact	Honda TSX	33.1	21.8	31.0	26.2
Compact	VW CC	32.2	21.8	31.0	26.2
Compact	Suzuki KIZASHI S AWD	33.4	22.5	29.6	26.1
Compact	Honda ACCORD 2DR COUPE	32.6	21.2	31.3	26.0
Compact	Daimler C 250	32.6	21.2	31.1	25.9
Compact	VW A4	34.1	22.0	29.9	25.9
Compact	GM VERANO	32.2	20.8	31.6	25.8
Compact	Suzuki KIZASHI AWD	32.7	22.1	29.1	25.6
Compact	Mitsubishi LANCER AWD	32.7	22.3	28.6	25.5
Compact	Volvo C30 FWD	31.0	21.0	30.1	25.3
Compact	VW A4 QUATTRO	31.2	20.8	29.7	25.1
Compact	BMW 640i Convertible	30.9	20.0	30.2	24.8
Compact	Volvo S60 FWD	30.4	20.0	29.8	24.6
Compact	SCNA 9-3 SPORT SEDAN	29.8	19.2	29.9	24.1
Compact	Daimler C 350	30.0	19.6	28.9	24.0
Compact	Chrysler-Fiat 200 Convertible	29.1	18.8	28.9	23.5
Compact	SCNA 9-3 SEDAN AWD	28.7	18.5	28.8	23.2
Compact	SCNA 9-3 CONVERTIBLE	28.6	18.3	29.1	23.2
Compact	VW Golf R	28.5	19.3	26.9	23.0
Compact	VW S4	26.0	17.7	27.4	22.2
Compact	GM CAMARO	27.2	17.5	27.5	22.1
Compact	Volvo S60 AWD	27.6	18.2	26.1	22.0
Compact	Daimler C 300 4MATIC	26.1	17.5	24.5	20.9
Compact	VW CC 4MOTION	24.8	16.9	25.2	20.8
Compact	Daimler CLS 550	25.9	16.7	24.8	20.5
Compact	Daimler CLS 550 4MATIC	24.9	16.5	24.6	20.3
Compact	Daimler CLS 63 AMG	23.4	16.0	24.7	20.0
Compact	Mitsubishi LANCER EVOLUTION	24.7	16.8	22.8	19.8
Compact	Daimler CL 550 4MATIC	23.1	14.8	23.7	18.8
Compact	BMW 650i Coupe	23.9	15.2	22.6	18.7
Compact	BMW 650i Convertible	23.9	15.2	22.6	18.7
Compact	Daimler CL 63 AMG	22.6	14.9	22.3	18.4
Compact	BMW 650i Coupe xDrive	24.1	15.2	19.6	17.4
Compact	BMW 650i Convertible xDrive	22.9	14.9	19.4	17.2

2012 FE Trends Report

Appendix B: Model Year 2012 Nameplate Fuel Economy Listings

Vehicle Size Class	Model Name	Fuel Economy			
		Lab	Adj	Adj	Adj
		55/45	City	Hwy	Comp
Compact	BMW M6 Convertible	20.5	13.6	20.3	16.7
Compact	Daimler C 63 AMG	19.7	13.2	19.3	16.1
Compact	Daimler CL 65 AMG	18.4	12.2	18.3	15.1
Compact	VW Continental GT	17.3	11.5	18.9	14.8
Compact	Daimler CL 600	17.8	11.7	18.0	14.6
Compact	BMW Phantom Drophead Coupe	17.3	11.4	17.5	14.2
Compact	BMW Phantom Coupe	17.3	11.4	17.5	14.2
Midsized Sedan	Toyota PRIUS	70.7	50.7	48.2	49.3
Midsized Sedan	Toyota CAMRY HYBRID LE	57.4	42.7	39.4	40.8
Midsized Sedan	Toyota CAMRY HYBRID XLE	54.8	40.5	38.4	39.3
Midsized Sedan	Ford FUSION HYBRID FWD	54.2	41.4	36.4	38.4
Midsized Sedan	Ford MKZ HYBRID FWD	54.2	41.4	36.4	38.4
Midsized Sedan	Hyundai SONATA HYBRID	N/A	34.0	39.0	36.7
Midsized Sedan	Kia OPTIMA HYBRID	N/A	34.0	39.0	36.7
Midsized Sedan	GM CRUZE ECO	42.2	26.9	40.0	33.1
Midsized Sedan	Mazda MAZDA3 DI 5-Door	42.6	27.7	38.6	33.0
Midsized Sedan	Hyundai ELANTRA	N/A	27.9	37.6	32.7
Midsized Sedan	Kia FORTE ECO	N/A	26.8	36.5	31.6
Midsized Sedan	GM CRUZE	38.4	24.6	36.6	30.3
Midsized Sedan	Nissan SENTRA	39.1	26.2	34.0	30.2
Midsized Sedan	Kia FORTE	N/A	25.1	35.0	30.0
Midsized Sedan	Nissan M35h	38.8	26.8	32.2	29.6
Midsized Sedan	Toyota CAMRY	37.2	24.3	34.5	29.2
Midsized Sedan	Kia OPTIMA	N/A	23.5	34.7	28.8
Midsized Sedan	VW A6	35.4	24.5	32.6	28.5
Midsized Sedan	BMW 528i	36.8	23.2	34.1	28.4
Midsized Sedan	Nissan ALTIMA	35.0	23.1	32.1	27.5
Midsized Sedan	VW Passat	33.4	23.1	32.0	27.4
Midsized Sedan	Ford FUSION FWD	34.3	22.4	32.3	27.2
Midsized Sedan	BMW 528i xDrive	35.3	22.3	32.2	27.1
Midsized Sedan	Daimler E 350 BLUETEC	33.3	21.5	32.4	26.6
Midsized Sedan	BMW ActiveHybrid 5	33.2	22.8	30.3	26.5
Midsized Sedan	Ford FUSION S FWD	33.2	21.7	31.5	26.4
Midsized Sedan	GM MALIBU	32.8	21.1	32.1	26.2
Midsized Sedan	Mazda MAZDA6	32.2	21.3	30.3	25.6
Midsized Sedan	BMW 535i xDrive	32.0	21.0	30.2	25.4
Midsized Sedan	Mitsubishi GALANT	31.9	21.0	30.0	25.4
Midsized Sedan	Subaru LEGACY AWD	32.0	21.4	29.2	25.2
Midsized Sedan	BMW 535i	30.8	20.0	30.1	24.7
Midsized Sedan	Chrysler-Fiat Avenger	30.7	19.9	29.8	24.6
Midsized Sedan	Chrysler-Fiat 200	30.5	19.8	29.7	24.5
Midsized Sedan	Nissan G25	30.6	20.1	29.0	24.4
Midsized Sedan	Daimler E 350	30.3	19.5	30.1	24.4
Midsized Sedan	Honda TL 2WD	30.3	19.9	29.0	24.2
Midsized Sedan	Volvo S80 FWD	30.3	20.0	28.7	24.2
Midsized Sedan	GM LACROSSE	30.0	19.4	29.7	24.1
Midsized Sedan	GM REGAL	29.9	19.2	29.8	24.1
Midsized Sedan	Ford FUSION FWD FFV	29.8	19.6	28.3	23.8
Midsized Sedan	Daimler E 350 4MATIC	29.4	19.2	28.6	23.6
Midsized Sedan	Toyota ES 350	29.0	19.1	27.8	23.2
Midsized Sedan	Nissan G25x	29.2	19.4	27.2	23.2
Midsized Sedan	SCNA 9-5 SEDAN	28.5	18.3	29.0	23.2
Midsized Sedan	VW A6 quattro	27.9	18.6	28.1	23.0
Midsized Sedan	VW A7 quattro	27.7	18.4	28.2	23.0

2012 FE Trends Report

Appendix B: Model Year 2012 Nameplate Fuel Economy Listings

Vehicle Size Class	Model Name	Fuel Economy			
		Lab	Adj	Adj	Adj
		55/45	City	Hwy	Comp
Midsized Sedan	Nissan MAXIMA	28.5	19.3	26.0	22.6
Midsized Sedan	Nissan G37	28.0	18.6	26.4	22.4
Midsized Sedan	VW A8	26.2	17.6	27.9	22.3
Midsized Sedan	Nissan M37	27.6	18.3	26.3	22.1
Midsized Sedan	Ford MKZ FWD	27.4	17.9	26.9	22.1
Midsized Sedan	Honda TL 4WD	27.5	18.3	26.0	22.0
Midsized Sedan	Volvo S80 AWD	27.6	18.2	26.1	22.0
Midsized Sedan	GM CTS AWD	26.9	17.7	26.3	21.7
Midsized Sedan	Mazda MAZDASPEED3	27.0	18.2	24.9	21.5
Midsized Sedan	Nissan G37x	26.6	17.7	25.2	21.3
Midsized Sedan	Ford FUSION AWD FFV	26.5	17.5	25.5	21.3
Midsized Sedan	SCNA 9-5 SEDAN AWD	26.1	16.7	26.8	21.3
Midsized Sedan	Toyota LS 600h L	26.9	18.6	23.3	21.0
Midsized Sedan	GM LACROSSE AWD	25.4	16.4	25.8	20.7
Midsized Sedan	Nissan M37x	25.9	17.5	24.0	20.7
Midsized Sedan	Daimler E 550 4MATIC	25.0	16.4	25.5	20.6
Midsized Sedan	Honda RL	25.7	17.2	24.1	20.6
Midsized Sedan	Chrysler-Fiat Challenger	25.3	16.4	25.3	20.5
Midsized Sedan	Ford FUSION AWD	25.1	16.6	24.6	20.3
Midsized Sedan	Ford MKZ AWD	25.1	16.6	24.6	20.3
Midsized Sedan	Toyota LS 460	24.7	16.2	24.4	20.1
Midsized Sedan	Toyota LS 460 L	24.7	16.2	24.4	20.1
Midsized Sedan	GM CTS	24.9	16.2	23.9	19.8
Midsized Sedan	Daimler E 63 AMG	23.3	15.7	24.2	19.6
Midsized Sedan	Nissan M56	24.0	15.5	24.3	19.6
Midsized Sedan	Jaguar Jaguar XF	23.9	15.8	23.2	19.4
Midsized Sedan	Nissan M56x	23.8	15.7	23.3	19.3
Midsized Sedan	Toyota LS 460 AWD	23.7	15.7	23.1	19.2
Midsized Sedan	Toyota LS 460 L AWD	23.7	15.7	23.1	19.2
Midsized Sedan	BMW 550i	23.8	15.2	22.5	18.6
Midsized Sedan	Chrysler-Fiat Challenger SRT8	21.8	14.0	22.7	17.9
Midsized Sedan	BMW 550i xDrive	24.1	15.2	19.6	17.4
Midsized Sedan	VW Continental Flying Spur	17.1	11.2	18.7	14.6
Midsized Sedan	VW Mulsanne	16.0	10.8	17.6	13.9
Midsized Sedan	Chrysler-Fiat FF	16.0	10.5	16.7	13.3
Large Sedan	Hyundai SONATA	N/A	23.2	34.3	28.4
Large Sedan	Honda ACCORD 4DR SEDAN	34.1	22.0	33.1	27.2
Large Sedan	Porsche Panamera S Hybrid	34.4	22.3	30.3	26.3
Large Sedan	Daimler S 350 BLUETEC 4MATIC	32.3	20.9	31.4	25.8
Large Sedan	Mazda MAZDA 5	32.1	21.5	27.7	24.6
Large Sedan	Hyundai AZERA	N/A	19.7	28.1	23.8
Large Sedan	Toyota AVALON	29.4	19.4	28.1	23.5
Large Sedan	BMW 535i Gran Turismo	28.6	18.6	28.3	23.1
Large Sedan	GM IMPALA	28.2	17.8	29.6	23.0
Large Sedan	VW A8 L	26.2	17.6	27.9	22.3
Large Sedan	Chrysler-Fiat Charger	27.3	17.5	27.9	22.2
Large Sedan	Ford TAURUS FWD	27.5	17.9	27.1	22.2
Large Sedan	BMW 535i xDrive Gran Turismo	27.5	18.0	26.8	22.1
Large Sedan	Porsche Panamera	27.5	18.0	26.7	22.1
Large Sedan	Chrysler-Fiat 300	26.9	17.2	27.5	21.9
Large Sedan	Daimler S400 HYBRID	27.5	18.6	25.1	21.9
Large Sedan	Porsche Panamera 4	27.0	17.7	26.1	21.7
Large Sedan	Hyundai GENESIS	N/A	17.5	26.4	21.7
Large Sedan	BMW 740i	25.9	17.1	25.2	20.9

2012 FE Trends Report

Appendix B: Model Year 2012 Nameplate Fuel Economy Listings

Vehicle Size Class	Model Name	Fuel Economy			
		Lab	Adj	Adj	Adj
		55/45	City	Hwy	Comp
Large Sedan	BMW 740Li	25.9	17.1	25.2	20.9
Large Sedan	Chrysler-Fiat Charger AWD	25.7	16.8	25.7	20.9
Large Sedan	Ford TAURUS AWD	25.9	17.0	25.2	20.9
Large Sedan	Ford MKS FWD	25.8	17.1	24.6	20.7
Large Sedan	BMW ActiveHybrid 7	25.6	17.2	24.1	20.5
Large Sedan	BMW ActiveHybrid 7L	25.6	17.2	24.1	20.5
Large Sedan	Hyundai GENESIS R SPEC	N/A	16.0	25.0	20.1
Large Sedan	Ford MKS AWD	25.0	16.6	23.8	20.1
Large Sedan	Porsche Panamera 4S	24.6	16.2	23.8	19.8
Large Sedan	Porsche Panamera S	24.6	16.2	23.8	19.8
Large Sedan	Daimler S 550	24.0	15.4	24.7	19.6
Large Sedan	Chrysler-Fiat 300 AWD	23.8	15.4	24.3	19.4
Large Sedan	Jaguar Jaguar XJ	23.8	15.8	23.0	19.2
Large Sedan	Hyundai EQUUS	N/A	15.4	23.2	19.0
Large Sedan	Daimler S 550 4MATIC	23.1	14.7	23.6	18.7
Large Sedan	Porsche Panamera Turbo	22.9	14.9	23.0	18.7
Large Sedan	Porsche Panamera Turbo S	22.9	14.9	23.0	18.7
Large Sedan	Daimler S 63 AMG	22.9	14.9	23.0	18.6
Large Sedan	BMW 550i Gran Turismo	23.2	15.1	22.3	18.5
Large Sedan	Jaguar Jaguar XJ LWB	22.8	15.2	22.2	18.5
Large Sedan	BMW 750i	22.2	14.7	21.8	18.0
Large Sedan	Chrysler-Fiat 300 SRT8	21.9	14.1	22.9	18.0
Large Sedan	Chrysler-Fiat Charger SRT8	21.9	14.1	22.9	18.0
Large Sedan	BMW 750Li	21.8	14.4	21.5	17.8
Large Sedan	BMW Alpina B7 LWB	21.8	14.4	21.5	17.8
Large Sedan	BMW Alpina B7 SWB	21.8	14.4	21.5	17.8
Large Sedan	BMW 550i xDrive Gran Turismo	22.9	14.9	19.4	17.2
Large Sedan	VW A8L	20.5	13.6	21.0	17.0
Large Sedan	BMW 750i xDrive	20.6	13.7	20.0	16.7
Large Sedan	BMW 750Li xDrive	20.6	13.7	20.0	16.7
Large Sedan	BMW Alpina B7 LWB xDrive	20.6	13.7	20.0	16.7
Large Sedan	BMW Alpina B7 SWB xDrive	20.6	13.7	20.0	16.7
Large Sedan	BMW Ghost	19.7	13.1	19.7	16.2
Large Sedan	BMW Ghost EWB	19.7	13.1	19.7	16.2
Large Sedan	BMW 760Li	19.3	12.7	19.4	15.8
Large Sedan	Chrysler-Fiat QUATTROPORTE	18.7	12.4	18.8	15.4
Large Sedan	Daimler S 65 AMG	18.5	12.2	18.7	15.2
Large Sedan	Daimler S 600	18.1	11.9	18.5	14.9
Large Sedan	BMW Phantom EWB	17.3	11.4	17.5	14.2
Large Sedan	BMW Phantom	17.3	11.4	17.5	14.2
Large Sedan	Daimler MAYBACH 57 S	15.5	10.3	15.7	12.8
Large Sedan	Daimler MAYBACH 62 S	15.5	10.3	15.7	12.8
Large Sedan	Daimler MAYBACH Landaulet	15.5	10.3	15.7	12.8
Large Sedan	Daimler MAYBACH 57	15.3	10.2	15.5	12.7
Large Sedan	Daimler MAYBACH 62	15.3	10.2	15.5	12.7
Small Wagon	VW JETTA SPORTWAGEN	42.0	27.9	38.1	32.9
Small Wagon	Honda FIT	40.8	27.2	33.5	30.5
Small Wagon	VW A3	39.3	26.1	34.8	30.4
Small Wagon	Subaru IMPREZA WAGON/OUTBACK SPORT AWD	38.2	25.5	33.8	29.6
Small Wagon	Nissan CUBE	37.8	26.5	30.9	28.8
Small Wagon	Nissan JUKE	37.6	26.2	31.1	28.8
Small Wagon	Kia SOUL ECO	N/A	25.0	30.0	27.6
Small Wagon	Mitsubishi LANCER SPORTBACK	35.2	23.7	31.1	27.4
Small Wagon	Toyota COROLLA MATRIX	34.6	23.5	30.2	26.9

2012 FE Trends Report

Appendix B: Model Year 2012 Nameplate Fuel Economy Listings

Vehicle Size Class	Model Name	Fuel Economy			
		Lab	Adj	Adj	Adj
		55/45	City	Hwy	Comp
Small Wagon	Hyundai ELANTRA TOURING	N/A	23.4	30.4	26.9
Small Wagon	Suzuki SX4	33.9	23.1	29.7	26.4
Small Wagon	Kia SOUL	N/A	23.8	28.5	26.3
Small Wagon	Suzuki SX4 AWD	33.4	22.6	29.4	26.1
Small Wagon	Honda TSX WAGON	32.5	21.6	29.9	25.6
Small Wagon	Chrysler-Fiat Caliber	32.6	22.7	27.5	25.2
Small Wagon	VW A4 AVANT QUATTRO	30.8	20.7	29.4	24.9
Small Wagon	Toyota xB	31.6	21.6	27.6	24.7
Small Wagon	VW A3 QUATTRO	30.9	20.9	28.1	24.5
Small Wagon	SCNA 9-3X SPORTCOMBI AWD	28.8	18.5	28.8	23.3
Small Wagon	SCNA 9-3 SPORTCOMBI	28.4	18.2	28.9	23.1
Small Wagon	BMW 328i Sport Wagon	27.2	17.7	26.7	22.0
Small Wagon	GM CTS WAGON	27.2	17.8	26.4	21.9
Small Wagon	GM CTS WAGON AWD	26.8	17.6	26.0	21.6
Small Wagon	BMW 328i xDrive Sport Wagon	26.2	17.3	25.5	21.2
Small Wagon	Nissan EX35	25.4	17.1	23.8	20.4
Midsize Wagon	Toyota PRIUS v	58.7	43.5	40.2	41.6
Midsize Wagon	Daimler E 350 4Matic (Wagon)	28.2	18.5	27.0	22.6
Midsize Wagon	Kia RONDO	N/A	18.9	26.1	22.4
Midsize Wagon	Daimler E 63 AMG (station wagon)	23.0	15.4	23.4	19.1
Midsize Non-Truck SUV	Ford ESCAPE HYBRID FWD	44.1	34.0	30.5	31.9
Midsize Non-Truck SUV	Toyota RX 450h	40.4	31.5	27.9	29.4
Midsize Non-Truck SUV	Mitsubishi OUTLANDER SPORT 2WD	36.0	24.6	31.0	27.9
Midsize Non-Truck SUV	Honda CR-V 2WD	34.2	22.8	30.9	26.8
Midsize Non-Truck SUV	Nissan ROGUE FWD	33.1	22.9	28.3	25.7
Midsize Non-Truck SUV	Hyundai TUCSON 2WD	N/A	21.3	29.9	25.5
Midsize Non-Truck SUV	Kia SPORTAGE 2WD	N/A	21.2	29.7	25.3
Midsize Non-Truck SUV	Mitsubishi OUTLANDER 2WD	32.4	22.3	28.0	25.2
Midsize Non-Truck SUV	Toyota RAV4 2WD	31.4	21.3	28.1	24.7
Midsize Non-Truck SUV	Kia SORENTO 2WD	N/A	20.8	28.7	24.7
Midsize Non-Truck SUV	Ford ESCAPE FWD	30.6	20.6	27.8	24.2
Midsize Non-Truck SUV	Hyundai SANTA FE 2WD	N/A	20.1	26.9	23.5
Midsize Non-Truck SUV	Toyota VENZA	29.8	19.9	26.4	23.2
Midsize Non-Truck SUV	Mazda CX-7 2WD	29.3	19.6	26.5	23.0
Midsize Non-Truck SUV	GM CAPTIVA FWD	31.4	19.1	26.9	22.9
Midsize Non-Truck SUV	Ford ESCAPE FWD FFV	27.9	19.1	25.0	22.0
Midsize Non-Truck SUV	Volvo XC60 FWD	27.5	18.5	25.4	21.9
Midsize Non-Truck SUV	Toyota RX 350	27.0	18.2	24.9	21.5
Midsize Non-Truck SUV	Honda RDX 2WD	27.5	18.8	24.0	21.4
Midsize Non-Truck SUV	Daimler GLK 350	23.6	16.1	22.2	19.1
Midsize Non-Truck SUV	Toyota FJ CRUISER 2WD	24.7	17.2	20.5	18.9
Midsize Non-Truck SUV	Nissan XTERRA 2WD	23.5	16.0	21.9	18.9
Large Non-Truck SUV	GM EQUINOX FWD	33.4	21.9	31.5	26.5
Large Non-Truck SUV	GM TERRAIN FWD	32.3	21.2	30.5	25.7
Large Non-Truck SUV	Ford EDGE FWD	29.3	19.2	27.6	23.2
Large Non-Truck SUV	Ford MKX FWD	28.1	18.7	26.3	22.4
Large Non-Truck SUV	GM TERRAIN AWD	28.3	18.6	26.4	22.4
Large Non-Truck SUV	Volvo XC70 FWD	27.5	18.5	25.4	21.9
Large Non-Truck SUV	GM EQUINOX AWD	27.7	18.2	25.8	21.9
Large Non-Truck SUV	GM 9-4X FWD	26.3	17.6	24.7	21.1
Large Non-Truck SUV	Nissan MURANO FWD	26.6	18.4	23.5	21.0
Large Non-Truck SUV	GM SRX 2WD	24.9	16.5	23.9	20.1
Large Non-Truck SUV	Nissan FX35 RWD	24.0	16.2	22.6	19.3
Large Non-Truck SUV	GM 9-4X AWD	25.3	16.1	22.5	19.3

2012 FE Trends Report
Appendix B: Model Year 2012 Nameplate Fuel Economy Listings

Vehicle Size Class	Model Name	Fuel Economy			
		Lab	Adj	Adj	Adj
		55/45	City	Hwy	Comp
Large Non-Truck SUV	Hyundai VERACRUZ 2WD	N/A	16.5	21.8	19.2
Large Non-Truck SUV	GM SRX AWD	23.8	15.9	22.7	19.2
Midsize Van	Ford TRANSIT CONNECT WAGON FWD	31.1	21.5	26.6	24.2
Midsize Van	Ford Transit Connect Van	30.5	20.8	26.8	23.9
Midsize Van	Honda ODYSSEY 2WD	27.8	18.1	27.4	22.4
Midsize Van	Nissan QUEST	27.2	18.6	24.5	21.5
Midsize Van	Toyota SIENNA	27.0	18.1	24.9	21.4
Midsize Van	Kia SEDONA	N/A	18.1	24.7	21.3
Midsize Van	Chrysler-Fiat Grand Caravan	25.9	17.1	25.1	20.9
Midsize Van	Chrysler-Fiat Ram C/V	25.9	17.1	25.1	20.9
Midsize Van	Chrysler-Fiat Town & Country	25.9	17.1	25.1	20.9
Midsize Van	Chrysler-Fiat Routan	25.9	17.1	25.1	20.9
Midsize Van	Toyota SIENNA AWD	24.7	16.6	23.2	19.8
Midsize Van	VPF MV-1	18.7	12.7	17.6	15.1
Large Van	GM G1500 SAVANA 2WD CARGO	21.2	14.6	19.5	17.0
Large Van	GM G1500 EXPRESS 2WD CARGO	21.0	14.4	19.3	16.8
Large Van	GM G1500 EXPRESS 2WD PASS	18.3	12.7	16.9	14.8
Large Van	GM G1500 EXPRESS CONV 2WD CARGO	18.3	12.7	16.9	14.8
Large Van	GM G1500 SAVANA 2WD PASS	18.3	12.7	16.9	14.8
Large Van	GM G1500 SAVANA CONV 2WD CARGO	18.3	12.7	16.9	14.8
Large Van	GM H1500 SAVANA AWD CARGO	18.4	12.8	16.6	14.7
Large Van	GM H1500 EXPRESS AWD CARGO	18.4	12.8	16.6	14.7
Large Van	GM H1500 EXPRESS AWD PASS	18.4	12.8	16.6	14.7
Large Van	GM H1500 EXPRESS CONV AWD CARGO	18.4	12.8	16.6	14.7
Large Van	GM H1500 SAVANA AWD PASS	18.4	12.8	16.6	14.7
Large Van	GM H1500 SAVANA CONV AWD CARGO	18.4	12.8	16.6	14.7
Large Van	Ford E150 VAN FFV	17.9	12.5	16.2	14.4
Large Van	Ford E250 VAN FFV	17.8	12.4	16.2	14.3
Large Van	Ford E150 WAGON FFV	17.4	12.1	15.8	14.0
Large Van	Ford E350 VAN FFV	17.0	11.8	15.6	13.7
Large Van	GM G2500 SAVANA 2WD PASS (MDPV)	16.3	10.9	16.1	13.4
Large Van	GM G2500 EXPRESS 2WD PASS MDPV	16.3	10.9	16.1	13.4
Large Van	Ford E350 WAGON FFV	16.2	11.3	14.8	13.1
Large Van	GM G3500 SAVANA 2WD PASS (MDPV)	15.7	10.5	15.6	12.9
Large Van	GM G3500 EXPRESS 2WD PASS MDPV	15.6	10.5	15.5	12.8
Large Van	GM G2500 EXPRESS 2WD CARGO MDPV	15.1	10.2	15.1	12.5
Large Van	GM G2500 EXPRESS CONV 2WD CARGO	15.1	10.2	15.1	12.5
Large Van	GM G2500 SAVANA 2WD CARGO MDPV	15.1	10.2	15.1	12.5
Large Van	GM G2500 SAVANA CONV 2WD CARGO	15.1	10.2	15.1	12.5
Large Van	Ford E350 VAN	14.9	10.4	13.7	12.1
Large Van	GM G3500 EXPRESS 2WD CARGO MDPV	14.5	9.8	14.3	12.0
Large Van	GM G3500 SAVANA 2WD CARGO MDPV	14.5	9.8	14.3	12.0
Large Van	Ford E350 WAGON	14.1	9.8	13.2	11.5
Midsize Truck SUV	Ford ESCAPE HYBRID AWD	39.0	30.4	27.2	28.5
Midsize Truck SUV	Toyota RX 450h AWD	38.6	29.5	27.6	28.4
Midsize Truck SUV	Toyota HIGHLANDER HYBRID 4WD	38.5	27.6	27.6	27.6
Midsize Truck SUV	Honda CR-V 4WD	33.0	22.2	29.7	25.9
Midsize Truck SUV	Mitsubishi OUTLANDER SPORT 4WD	32.7	22.6	28.0	25.4
Midsize Truck SUV	Mitsubishi OUTLANDER 2WD	31.6	21.7	27.6	24.7
Midsize Truck SUV	Chrysler-Fiat Compass 2WD	31.7	22.0	27.1	24.6
Midsize Truck SUV	Chrysler-Fiat Patriot 2WD	31.7	21.9	27.1	24.6
Midsize Truck SUV	Subaru OUTBACK WAGON AWD	31.0	20.9	28.0	24.5
Midsize Truck SUV	VW TIGUAN	31.0	21.5	26.7	24.2
Midsize Truck SUV	Nissan ROGUE AWD	31.1	21.7	26.4	24.1

2012 FE Trends Report

Appendix B: Model Year 2012 Nameplate Fuel Economy Listings

Vehicle Size Class	Model Name	Fuel Economy			
		Lab	Adj	Adj	Adj
		55/45	City	Hwy	Comp
Midsize Truck SUV	VW TIGUAN 4MOTION	30.8	21.2	26.8	24.1
Midsize Truck SUV	Toyota RAV4 4WD	30.1	20.4	27.0	23.7
Midsize Truck SUV	Subaru FORESTER AWD	30.2	20.8	26.4	23.6
Midsize Truck SUV	Ford ESCAPE AWD	29.9	20.3	26.7	23.5
Midsize Truck SUV	Mitsubishi OUTLANDER 4WD	29.9	20.6	26.1	23.4
Midsize Truck SUV	Hyundai TUCSON 4WD	N/A	20.1	26.5	23.3
Midsize Truck SUV	Chrysler-Fiat Patriot 4WD	29.8	20.8	25.5	23.2
Midsize Truck SUV	Kia SPORTAGE 4WD	N/A	19.9	26.2	23.1
Midsize Truck SUV	Rover Range Rover Evoque	28.1	18.2	27.9	22.7
Midsize Truck SUV	Chrysler-Fiat Compass 4WD	29.2	20.6	24.6	22.7
Midsize Truck SUV	Kia SORENTO 4WD	N/A	19.5	25.7	22.6
Midsize Truck SUV	Hyundai SANTA FE 4WD	N/A	19.6	25.1	22.4
Midsize Truck SUV	Toyota VENZA AWD	28.1	18.9	25.2	22.0
Midsize Truck SUV	VW Touareg Hybrid	28.2	19.9	23.8	21.9
Midsize Truck SUV	Suzuki GRAND VITARA	27.8	19.1	24.6	21.9
Midsize Truck SUV	Honda PILOT 2WD	26.7	17.7	25.4	21.4
Midsize Truck SUV	Toyota HIGHLANDER 2WD	27.2	18.4	24.4	21.4
Midsize Truck SUV	Suzuki GRAND VITARA 4WD	26.7	18.6	22.9	20.8
Midsize Truck SUV	Toyota RX 350 AWD	26.0	17.6	24.0	20.7
Midsize Truck SUV	Honda PILOT 4WD	25.8	17.3	24.4	20.7
Midsize Truck SUV	Ford ESCAPE AWD FFV	26.1	18.2	22.8	20.5
Midsize Truck SUV	Volvo XC60 AWD	25.7	17.5	23.5	20.5
Midsize Truck SUV	Toyota 4RUNNER 2WD	25.1	17.3	22.6	19.9
Midsize Truck SUV	Honda RDX 4WD	25.9	17.0	22.0	19.5
Midsize Truck SUV	Toyota HIGHLANDER 4WD	24.4	16.7	22.3	19.5
Midsize Truck SUV	Honda ZDX 4WD	24.4	16.0	22.7	19.2
Midsize Truck SUV	Mazda CX-7 4WD	25.1	17.2	21.1	19.2
Midsize Truck SUV	GM CAPTIVA AWD	23.9	16.2	22.2	19.2
Midsize Truck SUV	Toyota 4RUNNER 4WD	24.1	16.6	21.6	19.1
Midsize Truck SUV	Chrysler-Fiat Wrangler 4WD	23.9	16.6	21.2	19.0
Midsize Truck SUV	Chrysler-Fiat Liberty 2WD	23.5	15.9	21.9	18.8
Midsize Truck SUV	Subaru TRIBECA AWD	23.4	16.1	21.3	18.7
Midsize Truck SUV	Daimler GLK 350 4MATIC	23.0	15.8	21.0	18.4
Midsize Truck SUV	Honda MDX 4WD	23.0	15.9	20.7	18.3
Midsize Truck SUV	Rover LR2	22.5	15.0	21.8	18.2
Midsize Truck SUV	Toyota FJ CRUISER 4WD	23.9	16.8	19.4	18.2
Midsize Truck SUV	Chrysler-Fiat Liberty 4WD	22.1	15.1	20.6	17.8
Midsize Truck SUV	Toyota GX 460	22.0	15.0	20.4	17.7
Midsize Truck SUV	Nissan XTERRA 4WD	21.6	14.8	19.9	17.3
Midsize Truck SUV	Rover Range Rover sport	18.4	12.4	17.8	15.0
Large Truck SUV	Honda CROSSTOUR 2WD	29.8	19.7	28.3	23.8
Large Truck SUV	Daimler ML 350 BLUETEC 4MATIC	29.4	19.7	26.9	23.3
Large Truck SUV	BMW X5 xDrive35d	28.1	18.8	26.1	22.4
Large Truck SUV	BMW X3 xDrive35i	27.9	18.8	25.8	22.2
Large Truck SUV	VW Q5	27.6	19.0	25.4	22.2
Large Truck SUV	BMW X3 xDrive28i	27.9	18.9	25.5	22.1
Large Truck SUV	Porsche Cayenne S Hybrid	28.1	19.9	23.8	21.9
Large Truck SUV	GM ESCALADE 4WD HYBRID	28.0	20.0	23.3	21.7
Large Truck SUV	GM K1500 YUKON DENALI HYBRID 4WD	28.0	20.0	23.3	21.7
Large Truck SUV	Ford EXPLORER FWD	27.3	18.1	25.5	21.7
Large Truck SUV	Honda CROSSTOUR 4WD	26.7	17.5	26.1	21.6
Large Truck SUV	GM C1500 TAHOE 2WD HYBRID	28.5	19.8	22.9	21.5
Large Truck SUV	GM C1500 YUKON 2WD HYBRID	28.5	19.8	22.9	21.5
Large Truck SUV	GM ESCALADE 2WD HYBRID	28.5	19.8	22.9	21.5

2012 FE Trends Report

Appendix B: Model Year 2012 Nameplate Fuel Economy Listings

Vehicle Size Class	Model Name	Fuel Economy			
		Lab	Adj	Adj	Adj
		55/45	City	Hwy	Comp
Large Truck SUV	Ford EDGE AWD	26.6	17.7	25.3	21.3
Large Truck SUV	GM K1500 TAHOE 4WD HYBRID	28.4	19.7	22.7	21.3
Large Truck SUV	GM K1500 YUKON 4WD HYBRID	28.4	19.7	22.7	21.3
Large Truck SUV	Chrysler-Fiat Journey FWD	25.9	16.9	25.5	21.0
Large Truck SUV	Volvo XC70 AWD	26.1	17.7	23.9	20.8
Large Truck SUV	Nissan MURANO AWD	26.1	17.9	23.5	20.7
Large Truck SUV	VW TOUAREG	26.1	17.2	24.2	20.6
Large Truck SUV	Daimler R 350 BLUETEC 4MATIC	26.5	17.9	22.9	20.4
Large Truck SUV	Ford MKT FWD	25.5	17.2	23.6	20.4
Large Truck SUV	Ford FLEX FWD	25.2	16.7	24.4	20.3
Large Truck SUV	Mazda CX-9 2WD	25.2	16.9	23.8	20.2
Large Truck SUV	Ford MKX AWD	25.2	17.2	22.9	20.0
Large Truck SUV	GM ACADIA FWD	24.8	16.5	23.7	20.0
Large Truck SUV	GM ENCLAVE FWD	24.8	16.5	23.7	20.0
Large Truck SUV	GM TRAVERSE FWD	24.8	16.5	23.7	20.0
Large Truck SUV	Daimler ML 350 4MATIC	25.1	17.3	22.5	19.9
Large Truck SUV	Chrysler-Fiat Journey AWD	24.4	16.1	23.6	19.7
Large Truck SUV	Ford EXPLORER AWD	24.6	16.7	22.6	19.6
Large Truck SUV	Volvo XC90 FWD	24.3	16.3	22.9	19.5
Large Truck SUV	Nissan MURANO CrossCabriolet	24.5	16.8	22.0	19.4
Large Truck SUV	VW Q7	24.1	16.2	22.8	19.4
Large Truck SUV	BMW X5 xDrive35i	24.0	15.9	23.2	19.4
Large Truck SUV	BMW X6 xDrive35i	24.0	15.9	23.2	19.4
Large Truck SUV	Porsche Cayenne	24.4	16.3	22.5	19.3
Large Truck SUV	GM ACADIA AWD	24.0	16.1	22.7	19.3
Large Truck SUV	GM TRAVERSE AWD	24.0	16.1	22.7	19.3
Large Truck SUV	Daimler GL 350 BLUETEC 4MATIC	24.7	16.9	21.4	19.2
Large Truck SUV	Mazda CX-9 4WD	24.0	16.4	21.9	19.2
Large Truck SUV	Ford FLEX AWD	23.7	15.8	22.7	19.1
Large Truck SUV	Volvo XC90 AWD	23.7	15.9	22.5	19.1
Large Truck SUV	GM ENCLAVE AWD	24.0	16.1	22.0	19.0
Large Truck SUV	Chrysler-Fiat Grand Cherokee 2WD	23.4	15.7	22.2	18.8
Large Truck SUV	Porsche Cayenne S	23.5	15.7	22.2	18.8
Large Truck SUV	Ford MKT AWD	23.3	15.6	22.3	18.8
Large Truck SUV	Hyundai VERACRUZ 4WD	N/A	15.9	21.4	18.6
Large Truck SUV	Chrysler-Fiat Durango 2WD	23.1	15.5	22.0	18.6
Large Truck SUV	Daimler R 350 4MATIC	23.3	16.0	21.2	18.6
Large Truck SUV	Nissan FX35 AWD	23.1	15.7	21.4	18.5
Large Truck SUV	Nissan PATHFINDER 2WD	22.4	14.9	21.7	18.2
Large Truck SUV	Chrysler-Fiat Wrangler Unlimited 4WD	22.7	15.9	20.1	18.1
Large Truck SUV	Chrysler-Fiat Durango 4WD	22.2	14.8	21.7	18.1
Large Truck SUV	Porsche Cayenne Turbo	22.2	14.8	21.5	18.0
Large Truck SUV	GM C1500 AVALANCHE 2WD	22.0	14.8	21.2	17.8
Large Truck SUV	GM C1500 SUBURBAN 2WD	22.0	14.8	21.2	17.8
Large Truck SUV	GM C1500 TAHOE 2WD	22.0	14.8	21.2	17.8
Large Truck SUV	Chrysler-Fiat Grand Cherokee 4WD	21.9	14.5	21.4	17.8
Large Truck SUV	GM K1500 AVALANCHE 4WD	21.8	14.6	20.8	17.6
Large Truck SUV	GM K1500 SUBURBAN 4WD	21.8	14.6	20.8	17.6
Large Truck SUV	GM K1500 TAHOE 4WD	21.8	14.6	20.8	17.6
Large Truck SUV	GM K1500 YUKON 4WD	21.8	14.6	20.8	17.6
Large Truck SUV	GM K1500 YUKON XL 4WD	21.8	14.6	20.8	17.6
Large Truck SUV	GM C1500 YUKON XL 2WD	21.9	14.6	20.7	17.6
Large Truck SUV	GM C1500 YUKON 2WD	21.8	14.6	20.4	17.4
Large Truck SUV	Daimler ML 550 4MATIC	21.5	14.7	20.1	17.3

2012 FE Trends Report
Appendix B: Model Year 2012 Nameplate Fuel Economy Listings

Vehicle Size Class	Model Name	Fuel Economy			
		Lab	Adj	Adj	Adj
		55/45	City	Hwy	Comp
Large Truck SUV	BMW X5 xDrive50i	20.9	13.9	20.4	17.0
Large Truck SUV	BMW X6 xDrive50i	20.9	13.9	20.4	17.0
Large Truck SUV	Nissan FX50 AWD	21.0	14.3	19.7	17.0
Large Truck SUV	Ford NAVIGATOR 2WD FFV	20.5	13.8	19.7	16.6
Large Truck SUV	Nissan QX56 2WD	20.4	13.6	19.9	16.6
Large Truck SUV	Ford EXPEDITION 2WD FFV	20.5	13.8	19.6	16.6
Large Truck SUV	Nissan PATHFINDER 4WD	20.5	13.9	19.3	16.5
Large Truck SUV	Nissan QX56 4WD	20.2	13.5	19.6	16.4
Large Truck SUV	GM ESCALADE 2WD	21.0	14.0	18.1	16.1
Large Truck SUV	GM ESCALADE ESV 2WD	21.0	14.0	18.1	16.1
Large Truck SUV	Daimler ML 63 AMG	19.8	13.9	17.7	15.8
Large Truck SUV	Toyota SEQUOIA 2WD	19.5	13.3	18.3	15.7
Large Truck SUV	Nissan ARMADA 2WD	18.8	12.5	18.6	15.4
Large Truck SUV	GM ESCALADE AWD	20.6	13.0	17.5	15.2
Large Truck SUV	GM K1500 YUKON DENALI AWD	20.6	13.0	17.5	15.2
Large Truck SUV	Toyota SEQUOIA 4WD FFV	18.7	12.8	17.5	15.1

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix C Fuel Economy Distribution Data

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report
Appendix C: Vehicles with Lowest and Highest Adjusted MPG by Model Year

Rank	Car or Truck	Model Year	Manufacturer	Model Name	EPA Size Class	Inertia Weight	Drive	Trans	Gears	Fuel Induct	HP	CID	Fuel Economy		
													City	Hwy	Comp
Low	Car	1975	GM	TORONADO	Large Sedan	5500	Front	Automatic		Carbureted	175	455	7.7	9.4	8.4
Low	Car	1976	Jaguar	JENSEN	Two-seater	4500	Rear	Automatic	3	Carbureted	250	440	7.7	9.9	8.6
Low	Car	1977	BMW	ROLLS ROYCE/	Compact	5500	Rear	Automatic		Carbureted	170	412	7.8	8.9	8.3
Low	Car	1978	Chrysler-Fiat	MONACO	Midsize Sedan	5000	Rear	Automatic	3	Carbureted	240	440	7.5	8.7	8.0
Low	Car	1979	Aston Martin	ASTON MARTIN V8	Subcompact	4500	Rear	Manual	5	Carbureted	60	326	6.8	9.7	7.9
Low	Car	1980	Aston Martin	79 ASTON MARTIN	Subcompact	4500	Rear	Manual	5	Carbureted	275	326	6.8	9.7	7.9
Low	Car	1981	Peugeot	604	Compact	3500	Rear	Automatic	3	Carbureted	132	174	3.1	6.0	4.0
Low	Car	1982	Chrysler-Fiat	QUATTROPORTE	Midsize Sedan	5000	Rear	Lockup	3	Carbureted	288	301	7.6	9.8	8.5
Low	Car	1983	Chrysler-Fiat	QUATTROPORTE	Midsize Sedan	5000	Rear	Lockup	3	Carbureted	288	301	7.6	9.8	8.5
Low	Car	1984	Chrysler-Fiat	QUATTROPORTE	Midsize Sedan	5000	Rear	Lockup	3	Carbureted	288	301	7.6	9.8	8.5
Low	Car	1985	Chrysler-Fiat	QUATTROPORTE	Midsize Sedan	5000	Rear	Lockup	3	Carbureted	288	301	7.6	9.8	8.5
Low	Car	1986	VW	COUNTACH	Two-seater	3500	Rear	Manual	5	Port	420	315	6.1	10.4	7.5
Low	Car	1987	VW	COUNTACH	Two-seater	3500	Rear	Manual	5	Port	420	315	6.1	10.4	7.5
Low	Car	1988	VW	COUNTACH	Two-seater	3500	Rear	Manual	5	Port	420	315	6.1	10.4	7.5
Low	Car	1989	VW	COUNTACH	Two-seater	3500	Rear	Manual	5	TBI	420	315	6.0	10.3	7.5
Low	Car	1990	Aston Martin	LAG	Subcompact	5000	Rear	Lockup	3	Port	240	326	8.2	10.7	9.2
Low	Car	1991	Vector	VECTOR W8	Two-seater	4000	Rear	Automatic	3	Port	450	365	7.2	10.5	8.5
Low	Car	1992	Vector	VECTOR W8	Two-seater	4000	Rear	Automatic	3	Port	450	365	7.2	10.5	8.5
Low	Car	1993	Vector	VECTOR W8	Two-seater	4000	Rear	Automatic	3	Port	450	365	7.1	10.4	8.5
Low	Car	1994	VW	DB132/DIABLO	Two-seater	4000	4wd	Manual	5	Port	492	348	9.0	13.7	10.9
Low	Car	1995	Chrysler-Fiat	FERRARI F50	Two-seater	3000	Rear	Manual	6	Port	510	287	7.3	10.7	8.7
Low	Car	1996	VW	AVTECH SC_-M12	Two-seater	4000	Rear	Manual	5	Port	492	348	8.5	12.2	10.1
Low	Car	1997	VW	DB132-144 - DIABLO	Two-seater	4000	4wd	Manual	5	Port	492	348	8.7	13.6	10.7
Low	Car	1998	Chrysler-Fiat	FERRARI 550_MARANELLO	Two-seater	4000	Rear	Manual	6	Port	475	334	8.6	14.1	10.8
Low	Car	1999	Chrysler-Fiat	FERRARI 550_MARANELLO	Two-seater	4000	Rear	Manual	6	Port	475	334	8.5	13.4	10.5
Low	Car	2000	Chrysler-Fiat	FERRARI 550_MARANELLO	Two-seater	4000	Rear	Manual	6	Port	475	334	7.9	12.4	9.9
Low	Car	2001	Chrysler-Fiat	FERRARI 550_MARANELLO-BARCHE	Two-seater	4000	Rear	Manual	6	Port	475	334	7.9	12.4	9.8
Low	Car	2002	VW	L-147 MURCIELAGO	Two-seater	4000	4wd	Manual	6	Port	580	378	8.4	12.0	10.1
Low	Car	2003	Chrysler-Fiat	ENZO FERRARI	Two-seater	3500	Rear	Lockup	6	Port	646	366	7.1	11.6	9.0
Low	Car	2004	VW	L-147-148 MURCIELAGO	Two-seater	4000	4wd	Manual	6	Port	580	378	8.4	12.5	10.3
Low	Car	2005	VW	L-147-148 MURCIELAGO	Two-seater	4000	4wd	Manual	6	Port	580	378	8.3	12.5	10.3
Low	Car	2006	VW	VEYRON	Two-seater	4500	4wd	Lockup	6	Port	1001	488	7.8	13.8	10.3
Low	Car	2007	VW	L-147-148 MURCIELAGO	Two-seater	4000	4wd	Manual	6	Port	631	396	8.3	12.8	10.4
Low	Car	2008	VW	VEYRON	Two-seater	4500	4wd	Lockup	6	Port	1001	488	7.8	13.0	10.1
Low	Car	2009	VW	MURCIELAGO ROADSTER	Two-seater	4000	4wd	Manual	6	Port	631	396	8.3	12.8	10.4
Low	Car	2010	VW	Veyron	Two-seater	4500	4wd	Automatic	7	Port	1001	488	7.8	13.0	10.1
Low	Car	2011	Chrysler-Fiat	Ferrari 612 SCAGLIETTI	Midsize Sedan	4500	Rear	Automatic	6	Port	532	348	9.4	15.8	12.2

2012 FE Trends Report
Appendix C: Vehicles with Lowest and Highest Adjusted MPG by Model Year

Rank	Car or Truck	Model Year	Manufacturer	Model Name	EPA Size Class	Inertia Weight	Drive	Trans	Gears	Fuel Induct	HP	CID	Fuel Economy		
													City	Hwy	Comp
Low	Car	2012	VW	Veyron	Two-seater	4500	4wd	Automatic	7	Port	1001	488	8.4	14.8	11.2
High	Car	1975	Honda	CIVIC CVCC	Mini-compact	2000	Front	Manual	5	Carbureted	52	90	25.4	33.0	28.3
High	Car	1976	Honda	CIVIC CVCC	Mini-compact	2000	Front	Manual	3	Carbureted	60	91	28.4	33.4	30.5
High	Car	1977	Honda	CIVIC CVCC	Mini-compact	2000	Front	Manual		Carbureted	60	91	35.7	40.2	37.6
High	Car	1978	VW	RABBIT	Subcompact	2250	Front	Manual	4	Diesel	48	90	35.2	40.7	37.5
High	Car	1979	VW	RABBIT	Subcompact	2250	Front	Manual	5	Diesel	48	90	36.7	42.6	39.1
High	Car	1980	VW	RABBIT	Subcompact	2250	Front	Manual	5	Diesel	48	90	37.7	44.1	40.3
High	Car	1981	VW	RABBIT	Subcompact	2250	Front	Manual	4	Diesel	52	97	37.9	45.4	40.9
High	Car	1982	VW	RABBIT	Subcompact	2250	Front	Manual	4	Diesel	52	97	40.9	45.1	42.7
High	Car	1983	Nissan	NISSAN SENTRA	Subcompact	2250	Front	Manual	4	Diesel	55	103	43.4	47.8	45.3
High	Car	1984	Honda	CIVIC COUPE	Two-seater	2000	Front	Manual	5	Carbureted	60	82	45.7	51.2	48.0
High	Car	1985	GM	FIREFLY	Mini-compact	1750	Front	Manual	5	Carbureted	48	61	47.4	52.6	49.6
High	Car	1985	Suzuki	SA310	Mini-compact	1750	Front	Manual	5	Carbureted	48	61	47.4	52.6	49.6
High	Car	1985	GM	SPRINT	Mini-compact	1750	Front	Manual	5	Carbureted	48	61	47.4	52.6	49.6
High	Car	1986	GM	SPRINT ER	Mini-compact	1750	Front	Manual	5	Carbureted	46	61	54.8	59.2	56.8
High	Car	1987	GM	SPRINT ER	Mini-compact	1750	Front	Manual	5	Carbureted	46	61	52.7	57.4	54.8
High	Car	1988	GM	SPRINT METRO	Mini-compact	1750	Front	Manual	5	Carbureted	46	61	52.2	57.1	54.4
High	Car	1989	Honda	CIVIC CRX	Two-seater	2000	Front	Manual	5	Port	62	91	47.9	53.8	50.6
High	Car	1990	GM	METRO XFI	Subcompact	1750	Front	Manual	5	TBI	49	61	50.7	56.7	53.4
High	Car	1991	GM	METRO XFI	Subcompact	1750	Front	Manual	5	TBI	55	61	50.2	56.3	53.0
High	Car	1992	GM	METRO XFI	Subcompact	1750	Front	Manual	5	TBI	55	61	49.6	56.0	52.6
High	Car	1993	GM	METRO XFI	Subcompact	1750	Front	Manual	5	TBI	55	61	49.1	55.6	52.2
High	Car	1994	GM	METRO XFI	Subcompact	1750	Front	Manual	5	TBI	55	61	49.3	55.3	52.2
High	Car	1995	Honda	CIVIC HB VX	Subcompact	2250	Front	Manual	5	Port	91	91	42.4	53.0	47.3
High	Car	1996	Suzuki	SWIFT	Subcompact	2000	Front	Manual	5	TBI	55	61	40.3	46.4	43.3
High	Car	1997	GM	METRO	Subcompact	2000	Front	Manual	5	TBI	55	61	39.5	46.1	42.8
High	Car	1998	GM	METRO	Subcompact	2000	Front	Manual	5	TBI	55	60	38.1	46.1	42.0
High	Car	1999	VW	NEW BEETLE	Subcompact	3000	Front	Manual	5	Diesel	90	116	36.8	45.4	41.0
High	Car	1999	VW	NEW JETTA	Compact	3000	Front	Manual	5	Diesel	90	116	36.8	45.4	41.0
High	Car	1999	VW	NEW GOLF	Compact	3000	Front	Manual	5	Diesel	90	116	36.8	45.4	41.0
High	Car	2000	Honda	INSIGHT	Two-seater	2000	Front	Manual	5	Port	67	61	51.8	63.0	57.4
High	Car	2001	Honda	INSIGHT	Two-seater	2000	Front	Manual	5	Port	67	61	50.8	61.8	56.3
High	Car	2002	Honda	INSIGHT	Two-seater	2000	Front	Manual	5	Port	67	61	50.2	60.7	55.6
High	Car	2003	Honda	INSIGHT	Two-seater	2000	Front	Manual	5	Port	67	61	49.4	60.3	55.0
High	Car	2004	Honda	INSIGHT	Two-seater	2000	Front	Manual	5	Port	67	61	48.6	57.9	53.5
High	Car	2005	Honda	INSIGHT	Two-seater	2000	Front	Manual	5	Port	73	61	48.3	57.7	53.3
High	Car	2006	Honda	INSIGHT	Two-seater	2000	Front	Manual	5	Port	73	61	47.9	57.6	53.0
High	Car	2007	Toyota	PRIUS	Midsize Sedan	3000	Front	CVT	1	Port	76	91	47.7	45.1	46.2
High	Car	2008	Toyota	PRIUS	Midsize Sedan	3000	Front	CVT	1	Port	76	91	47.7	45.1	46.2
High	Car	2009	Toyota	PRIUS	Midsize Sedan	3000	Front	CVT	1	Port	76	91	47.7	45.1	46.2
High	Car	2010	Toyota	PRIUS	Midsize Sedan	3500	Front	CVT	1	Port	98	110	50.8	48.3	49.3

2012 FE Trends Report
Appendix C: Vehicles with Lowest and Highest Adjusted MPG by Model Year

Rank	Car or Truck	Model Year	Manufacturer	Model Name	EPA Size Class	Inertia Weight	Drive	Trans	Gears	Fuel Induct	HP	CID	Fuel Economy		
													City	Hwy	Comp
High	Car	2011	Toyota	PRIUS	Midsize Sedan	3500	Front	CVT	1	Port	98	110	50.9	48.3	49.4
High	Car	2012	Toyota	PRIUS	Midsize Sedan	3500	Front	CVT	1	Port	98	110	50.7	48.2	49.3
Low	Truck	1975	Ford	FORD F-250	Large Pickup	5000	Rear	Automatic		Carbureted	150	360	7.5	7.8	7.6
Low	Truck	1976	GM	CHEV P20 STEP	Midsize Van	6500	Rear	Automatic		Carbureted	245	454	7.3	8.5	7.8
Low	Truck	1977	Toyota	LAND CRUISER WAG	Midsize Truck SUV	4500	Rear	Manual		Carbureted	125	258	7.4	8.9	8.0
Low	Truck	1978	GM	GMC C2500 SUBN	Large Truck SUV	5500	Rear	Automatic		Carbureted	185	454	8.0	8.1	8.0
Low	Truck	1978	GM	CHEV C20 SUBN	Large Truck SUV	5500	Rear	Automatic		Carbureted	185	454	8.0	8.1	8.0
Low	Truck	1979	Ford	PICKUP	Large Pickup	5500	Rear	Automatic	3	Carbureted	270	460	8.1	7.7	7.9
Low	Truck	1980	GM	CAB CHAS.	Large Pickup	6000	Rear	Lockup	3	Carbureted	155	350	8.1	8.8	8.4
Low	Truck	1981	Chrysler-Fiat	B250 VAN CONVERS	Midsize Van	5500	Rear	Automatic	3	Carbureted	170	360	9.0	10.1	9.4
Low	Truck	1982	GM	G35 SPRTVN 2WD	Large Van	6000	Rear	Lockup	3	Carbureted	165	350	9.5	10.8	10.1
Low	Truck	1982	GM	G30 SPRTVN 2WD	Large Van	5500	Rear	Lockup	3	Carbureted	165	350	9.5	10.8	10.1
Low	Truck	1982	GM	G35 SPRTVN 2WD	Large Van	5500	Rear	Lockup	3	Carbureted	165	350	9.5	10.8	10.1
Low	Truck	1982	GM	G30 SPRTVN 2WD	Large Van	6000	Rear	Lockup	3	Carbureted	165	350	9.5	10.8	10.1
Low	Truck	1983	Ford	E250 ECONOLINE 2	Large Van	5500	Rear	Automatic	3	Carbureted	143	351	9.8	10.8	10.3
Low	Truck	1984	Chrysler-Fiat	B350 WAGON 2WD	Large Van	5500	Rear	Automatic	3	Carbureted	175	360	8.7	10.7	9.5
Low	Truck	1985	Ford	E250 ECONOLINE 2	Large Van	5500	Rear	Automatic	3	Carbureted	154	351	9.5	9.6	9.6
Low	Truck	1986	Chrysler-Fiat	B350 WAGON 2WD	Large Van	5500	Rear	Automatic	3	Carbureted	170	360	9.8	11.2	10.4
Low	Truck	1987	Chrysler-Fiat	AW150 RAMCHARGER	Midsize Truck SUV	5000	4wd	Automatic	3	Carbureted	175	360	9.2	11.2	10.0
Low	Truck	1988	Chrysler-Fiat	W100/W150 PICKUP	Large Pickup	5000	4wd	Automatic	3	Carbureted	175	360	9.2	10.6	9.8
Low	Truck	1988	Chrysler-Fiat	W250 PICKUP 4WD	Large Pickup	5000	4wd	Automatic	3	Carbureted	175	360	9.2	10.6	9.8
Low	Truck	1989	Chrysler-Fiat	B350 WAGON 2WD	Large Van	5500	Rear	Automatic	3	TBI	145	360	9.7	10.9	10.2
Low	Truck	1990	GM	C1500 P/U 2WD	Large Pickup	4500	Rear	Automatic	3	TBI	230	454	9.3	10.8	10.0
Low	Truck	1991	Chrysler-Fiat	W250 PICKUP 4WD	Large Pickup	5500	4wd	Manual	3	TBI	190	360	9.1	12.3	10.4
Low	Truck	1992	Chrysler-Fiat	W250 PICKUP 4WD	Large Pickup	5500	4wd	Automatic	4	TBI	203	360	9.6	11.4	10.4
Low	Truck	1992	Chrysler-Fiat	W250 PICKUP 4WD	Large Pickup	5000	4wd	Automatic	4	TBI	203	360	9.6	11.4	10.4
Low	Truck	1993	GM	C1500 P/U 2WD	Large Pickup	4500	Rear	Lockup	4	TBI	255	454	9.3	12.0	10.5
Low	Truck	1994	Chrysler-Fiat	B150/B250 WAGON	Midsize Van	5500	Rear	Lockup	4	Port	230	360	11.0	13.8	12.2
Low	Truck	1995	Chrysler-Fiat	B3500 WAGON 2WD	Large Van	5500	Rear	Lockup	4	Port	230	360	10.7	14.1	12.2
Low	Truck	1996	Chrysler-Fiat	B3500 WAGON_2WD	Large Van	5500	Rear	Lockup	4	Port	230	360	10.7	14.1	12.2
Low	Truck	1997	Chrysler-Fiat	B3500 WAGON_2WD	Large Van	6000	Rear	Lockup	4	Port	230	360	10.3	14.1	12.0
Low	Truck	1997	Chrysler-Fiat	B3500 WAGON_2WD	Large Van	5500	Rear	Lockup	4	Port	230	360	10.3	14.1	12.0
Low	Truck	1998	Chrysler-Fiat	RAM 1500_PICKUP_4WD	Large Pickup	6000	4wd	Lockup	4	Port	235	360	10.9	15.5	12.9
Low	Truck	1999	Chrysler-Fiat	RAM 1500_PICKUP_4WD	Large Pickup	5000	4wd	Lockup	4	Port	245	360	11.0	15.5	13.0
Low	Truck	1999	Chrysler-Fiat	DURANGO 4WD	Large Truck SUV	5000	4wd	Lockup	4	Port	245	360	11.0	15.5	13.0
Low	Truck	2000	Rover	RANGE ROVER	Midsize Truck SUV	5000	4wd	Lockup	4	Port	222	278	11.1	14.3	12.6
Low	Truck	2001	GM	K1500 SIERRA 4WD	Large Pickup	5500	4wd	Lockup	4	Port	300	364	10.4	13.3	11.8
Low	Truck	2002	Chrysler-Fiat	RAM 1500_PICKUP_4WD	Large Pickup	5500	4wd	Lockup	4	Port	245	360	10.5	14.5	12.4
Low	Truck	2003	GM	G1500-2500 CHEVY_VAN_2WD	Large Van	6000	Rear	Lockup	4	Port	300	364	8.9	13.2	10.9
Low	Truck	2004	GM	G1500-2500 SAVANA 2WD CARGO	Large Van	6000	Rear	Lockup	4	Port	300	412	8.5	12.5	10.4
Low	Truck	2004	GM	G1500-2500 CHEVY VAN 2WD	Large Van	6000	Rear	Lockup	4	Port	300	412	8.5	12.5	10.4
Low	Truck	2005	Chrysler-Fiat	RAM 1500 PICKUP 2WD	Large Pickup	6000	Rear	Lockup	4	Port	500	505	8.2	11.5	9.8
Low	Truck	2006	Chrysler-Fiat	RAM 1500 PICKUP 2WD	Large Pickup	6000	Rear	Lockup	4	Port	500	505	8.2	11.5	9.8
Low	Truck	2007	Daimler	G55 AMG	Large Truck SUV	6000	4wd	Lockup	7	Port	493	333	10.8	13.5	12.2
Low	Truck	2008	Daimler	G55 AMG	Large Truck SUV	6000	4wd	Lockup	5	Port	493	332	10.8	13.5	12.2

2012 FE Trends Report
Appendix C: Vehicles with Lowest and Highest Adjusted MPG by Model Year

Rank	Car or Truck	Model Year	Manufacturer	Model Name	EPA Size Class	Inertia Weight	Drive	Trans	Gears	Fuel Induct	HP	CID	Fuel Economy		
													City	Hwy	Comp
Low	Truck	2009	Daimler	ML63 AMG	Large Truck SUV	5500	4wd	Lockup	7	Port	503	379	10.5	14.4	12.4
Low	Truck	2010	Daimler	G 55 AMG	Large Truck SUV	6000	4wd	Lockup	5	Port	500	332	10.8	13.6	12.2
Low	Truck	2011	Ford	E350 WAGON	Large Van	7000	Rear	Lockup	5	Port	305	415	9.5	12.5	11.0
Low	Truck	2012	Ford	E350 WAGON	Large Van	7000	Rear	Lockup	5	Port	305	415	9.8	13.2	11.5
Low	Truck	2012	Ford	E350 WAGON	Large Van	6500	Rear	Lockup	5	Port	305	415	9.8	13.2	11.5
High	Truck	1975	Nissan	PICKUP	Small Pickup	2750	Rear	Manual	-	Carbureted	107	119	18.3	24.8	20.8
High	Truck	1976	Ford	COURIER PICKUP	Midsize Pickup	3000	Rear	Manual		Carbureted	65	109	21.1	25.9	23.0
High	Truck	1977	Mazda	MAZDA B1800 PICK	Midsize Pickup	3000	Rear	Manual		Carbureted	67	110	25.0	31.1	27.4
High	Truck	1977	Ford	COURIER CAB CHAS	Midsize Pickup	3000	Rear	Manual		Carbureted	67	110	25.0	31.1	27.4
High	Truck	1977	Ford	COURIER PICKUP	Midsize Pickup	3000	Rear	Manual		Carbureted	67	110	25.0	31.1	27.4
High	Truck	1978	Ford	COURIER PICKUP	Midsize Pickup	3000	Rear	Manual		Carbureted	67	110	26.3	30.0	27.8
High	Truck	1978	Mazda	B1800 PICKUP	Midsize Pickup	3000	Rear	Manual		Carbureted	67	110	26.3	30.0	27.8
High	Truck	1978	Ford	COURIER CAB CHAS	Midsize Pickup	3000	Rear	Manual		Carbureted	67	110	26.3	30.0	27.8
High	Truck	1979	Ford	COURIER PICKUP	Midsize Pickup	3000	Rear	Manual	5	Carbureted	72	120	24.0	28.7	25.9
High	Truck	1979	Mazda	B2000 PICKUP	Midsize Pickup	3000	Rear	Manual	5	Carbureted	72	120	24.0	28.7	25.9
High	Truck	1980	VW	2WD	Small Pickup	2250	Front	Manual	5	Diesel	48	90	35.9	41.6	38.3
High	Truck	1981	VW	P/U 2WD	Small Pickup	2250	Front	Manual	5	Diesel	52	97	33.4	39.7	36.0
High	Truck	1982	VW	P/U 2WD	Small Pickup	2250	Front	Manual	4	Diesel	52	97	36.6	37.4	37.0
High	Truck	1983	VW	P/U 2WD	Small Pickup	2250	Front	Manual	4	Diesel	52	97	37.8	38.7	38.2
High	Truck	1984	GM	P'UP P/U 2WD	Small Pickup	2750	Rear	Manual	4	Diesel	62	137	34.6	38.3	36.1
High	Truck	1985	GM	P'UP P/U 2WD	Small Pickup	2750	Rear	Manual	4	Diesel	62	137	34.6	38.3	36.1
High	Truck	1986	GM	P'UP 2WD	Small Pickup	2750	Rear	Manual	4	Diesel	62	137	34.3	38.1	36.0
High	Truck	1987	GM	P'UP-2WD	Midsize Pickup	3000	Rear	Manual	4	Diesel	60	137	34.0	38.5	36.0
High	Truck	1988	Suzuki	SAMURAI	Small Truck SUV	2250	4wd	Manual	5	Carbureted	64	81	27.0	28.7	27.8
High	Truck	1989	Suzuki	SIDEKICK	Small Truck SUV	2250	4wd	Manual	5	Carbureted	64	79	27.2	28.3	27.7
High	Truck	1990	Suzuki	SAMURAI	Small Truck SUV	2500	4wd	Manual	5	TBI	66	79	27.2	28.1	27.6
High	Truck	1991	Suzuki	SAMURAI	Small Truck SUV	2500	4wd	Manual	5	TBI	66	79	27.0	27.9	27.5
High	Truck	1992	Suzuki	SAMURAI	Small Truck SUV	2500	4wd	Manual	5	TBI	66	79	26.8	27.8	27.3
High	Truck	1993	Suzuki	SAMURAI	Small Truck SUV	2500	4wd	Manual	5	TBI	66	79	26.6	27.7	27.2
High	Truck	1994	Suzuki	SAMURAI	Small Truck SUV	2500	4wd	Manual	5	TBI	66	79	26.4	27.6	27.0
High	Truck	1995	Suzuki	SAMURAI	Small Truck SUV	2500	4wd	Manual	5	TBI	66	79	26.3	27.5	26.9
High	Truck	1996	GM	SONOMA 2WD	Midsize Pickup	3000	Rear	Manual	5	Port	118	134	22.3	29.6	25.6
High	Truck	1996	GM	S10 PICKUP_2WD	Midsize Pickup	3000	Rear	Manual	5	Port	118	134	22.3	29.6	25.6
High	Truck	1997	GM	SONOMA 2WD	Midsize Pickup	3000	Rear	Manual	5	Port	118	134	22.2	29.5	25.5
High	Truck	1997	GM	S10 PICKUP_2WD	Midsize Pickup	3000	Rear	Manual	5	Port	118	134	22.2	29.5	25.5
High	Truck	1998	Ford	RANGER ELECTRIC_2WD	Midsize Pickup	5000	Rear	Lockup	4	Port	118	152	20.2	32.1	25.1
High	Truck	1999	GM	TRACKER 4X4 CONVERTIBLE	Small Truck SUV	3000	4wd	Manual	5	Port	97	97	23.0	26.3	24.7
High	Truck	2000	Ford	RANGER ELECTRIC_2WD	Midsize Pickup	5000	Rear	Lockup	4	Port	118	153	19.9	31.3	24.8
High	Truck	2001	Ford	RANGER PICKUP_2WD	Midsize Pickup	3500	Rear	Manual	5	Port	138	140	21.7	25.5	23.6
High	Truck	2001	Mazda	B2300 2WD	Midsize Pickup	3500	Rear	Manual	5	Port	138	140	21.7	25.5	23.6
High	Truck	2002	GM	TRACKER 4WD_HARDDTOP	Small Truck SUV	3500	4wd	Lockup	4	Port	141	118	22.9	28.6	25.8
High	Truck	2002	Suzuki	VITARA 4-DOOR_4WD	Small Truck SUV	3500	4wd	Lockup	4	Port	141	118	22.9	28.6	25.8
High	Truck	2003	Ford	RANGER PICKUP_2WD	Midsize Pickup	3500	Rear	Manual	5	Port	140	140	21.4	26.4	23.9
High	Truck	2003	Mazda	B2300 2WD	Midsize Pickup	3500	Rear	Manual	5	Port	140	140	21.4	26.4	23.9
High	Truck	2004	Ford	RANGER PICKUP 2WD	Midsize Pickup	3500	Rear	Manual	5	Port	140	140	20.8	26.7	23.8
High	Truck	2004	Mazda	B2300 2WD	Midsize Pickup	3500	Rear	Manual	5	Port	140	140	20.8	26.7	23.8
High	Truck	2005	Ford	ESCAPE HEV 4WD	Midsize Truck SUV	4000	4wd	CVT	1	Port	135	140	28.1	26.3	27.0

2012 FE Trends Report
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													City	Hwy	Comp
High	Truck	2006	Mazda	TRIBUTE HYBRID 4WD	Midsize Truck SUV	4000	4wd	CVT	1	Port	135	140	28.1	26.3	27.0
High	Truck	2006	Ford	MARINER HYBRID 4WD	Midsize Truck SUV	4000	4wd	CVT	1	Port	135	140	28.1	26.3	27.0
High	Truck	2006	Ford	ESCAPE HYBRID 4WD	Midsize Truck SUV	4000	4wd	CVT	1	Port	135	140	28.1	26.3	27.0
High	Truck	2007	Ford	MARINER HYBRID 4WD	Midsize Truck SUV	4000	4wd	CVT	1	Port	133	140	27.6	26.7	27.1
High	Truck	2007	Ford	ESCAPE HYBRID 4WD	Midsize Truck SUV	4000	4wd	CVT	1	Port	133	140	27.6	26.7	27.1
High	Truck	2008	Ford	ESCAPE HYBRID 4WD	Midsize Truck SUV	4000	4wd	CVT	1	Port	133	140	29.3	27.0	27.9
High	Truck	2008	Mazda	TRIBUTE HYBRID 4WD	Midsize Truck SUV	4000	4wd	CVT	1	Port	133	140	29.3	27.0	27.9
High	Truck	2008	Ford	MARINER HYBRID 4WD	Midsize Truck SUV	4000	4wd	CVT	1	Port	133	140	29.3	27.0	27.9

Appendix C: Production-Weighted Percent Distribution of Adjusted Composite MPG

Draft 11-20-12

Car or Truck	Model Year	Percentile Level													Actual Average
		0%	1%	5%	10%	20%	25%	50%	75%	80%	90%	95%	99%	100%	
Car	1975	8.4	9.0	9.8	10.1	11.0	11.2	13.1	16.7	17.9	20.9	23.3	27.4	28.3	13.5
Car	1976	8.6	10.3	11.3	11.7	12.3	12.7	14.6	17.3	18.9	22.9	24.5	28.2	30.5	14.9
Car	1977	8.3	10.5	11.6	12.4	13.6	14.0	15.0	17.3	18.9	24.3	28.0	33.8	37.6	15.6
Car	1978	8.0	11.3	12.5	13.2	14.2	14.9	16.9	19.8	21.3	25.0	28.2	32.7	37.5	16.9
Car	1979	7.9	12.0	13.1	13.7	14.7	15.1	16.9	20.4	21.9	25.0	26.5	31.0	39.1	17.2
Car	1980	7.9	13.9	14.8	15.9	17.3	17.6	19.8	23.1	24.0	26.6	29.1	38.0	40.3	20.0
Car	1981	4.0	14.6	15.8	17.0	18.3	18.6	21.6	25.3	26.2	28.6	31.6	37.9	40.9	21.4
Car	1982	8.5	15.4	16.6	17.0	18.2	19.1	23.4	26.0	27.2	29.6	32.6	38.9	42.7	22.2
Car	1983	8.5	16.3	16.5	17.0	17.8	18.4	22.3	26.7	28.0	31.2	33.4	36.6	45.3	22.1
Car	1984	8.5	16.6	17.1	17.3	18.1	19.3	22.9	26.5	27.3	29.9	32.8	38.2	48.0	22.4
Car	1985	8.5	17.6	17.8	18.4	19.5	19.9	22.8	26.7	27.7	29.9	33.6	39.0	49.6	23.0
Car	1986	7.5	18.0	18.8	19.5	20.3	20.6	24.4	26.7	27.6	30.1	33.7	39.3	56.8	23.7
Car	1987	7.5	18.2	18.6	19.2	20.6	21.2	23.9	27.1	27.6	30.1	31.3	38.1	54.8	23.8
Car	1988	7.5	17.8	19.2	19.4	21.2	22.4	24.1	27.1	27.7	30.5	32.1	37.9	54.4	24.1
Car	1989	7.5	18.0	19.3	19.6	20.7	21.7	23.3	26.3	27.2	29.1	31.1	37.7	50.6	23.6
Car	1990	9.2	17.5	19.0	19.3	21.3	21.5	23.1	26.0	26.4	28.2	30.9	34.6	53.4	23.3
Car	1991	8.5	17.1	18.8	19.6	20.3	21.1	22.8	26.1	26.3	29.2	31.2	36.7	53.0	23.3
Car	1992	8.5	16.9	18.3	19.5	20.6	20.8	22.4	25.5	25.9	28.5	31.2	39.1	52.6	22.9
Car	1993	8.5	15.1	18.2	19.2	20.3	21.3	22.7	25.7	26.9	28.4	31.1	35.8	52.2	23.0
Car	1994	10.9	17.1	18.8	19.6	20.1	20.9	22.7	25.6	26.3	28.5	30.6	35.8	52.2	23.0
Car	1995	8.7	16.8	18.9	19.4	21.0	21.7	22.7	26.0	27.1	29.0	31.4	33.8	47.3	23.3
Car	1996	10.1	16.7	19.3	19.5	20.9	21.4	22.6	25.6	26.1	29.1	30.5	33.9	43.3	23.1
Car	1997	10.7	16.9	19.3	19.4	20.7	21.1	23.0	25.3	26.4	28.8	29.8	33.2	42.8	23.2
Car	1998	10.8	17.0	18.6	19.4	21.0	21.3	22.7	25.3	26.1	28.7	29.8	31.5	42.0	23.0
Car	1999	10.5	17.1	18.7	19.4	21.0	21.3	22.3	24.5	25.2	27.8	29.2	30.9	41.0	22.7
Car	2000	9.9	17.1	17.7	19.5	20.9	21.3	22.1	24.3	25.0	27.2	28.5	31.0	57.4	22.5
Car	2001	9.8	16.9	18.3	19.4	20.8	20.9	22.3	25.1	25.6	27.8	30.9	31.9	56.3	22.6
Car	2002	10.1	16.5	18.8	19.7	20.8	21.3	22.5	25.0	25.3	27.3	29.4	31.7	55.6	22.8
Car	2003	9.0	17.1	19.1	19.7	20.8	21.2	23.0	25.1	25.6	27.9	29.6	32.4	55.0	23.0
Car	2004	10.3	17.4	18.5	19.1	20.6	21.0	22.9	25.4	25.7	28.0	29.6	35.3	53.5	22.9
Car	2005	10.3	17.2	18.6	19.4	20.3	21.2	23.3	25.7	25.8	29.1	29.8	41.8	53.3	23.1
Car	2006	10.3	16.9	18.6	19.1	20.4	21.1	23.0	25.5	25.8	28.8	30.9	42.9	53.0	23.0
Car	2007	10.4	17.2	18.7	19.6	20.7	21.2	23.6	25.9	27.5	30.2	31.3	42.9	46.2	23.7
Car	2008	10.1	17.1	18.6	19.8	20.9	21.4	23.6	26.6	27.9	30.3	31.3	42.9	46.2	23.9
Car	2009	10.4	17.2	19.6	20.7	21.8	22.6	25.4	28.1	29.1	30.9	31.0	42.9	46.2	25.0
Car	2010	10.1	18.1	20.1	20.7	22.0	22.7	25.9	29.0	30.2	30.8	35.3	42.9	49.3	25.7

Appendix C: Production-Weighted Percent Distribution of Adjusted Composite MPG

Draft 11-20-12

Car or Truck	Model Year	Percentile Level													Actual Average
		0%	1%	5%	10%	20%	25%	50%	75%	80%	90%	95%	99%	100%	
Car	2011	12.2	18.4	20.0	21.3	22.4	23.0	26.5	28.0	29.2	30.9	33.2	41.9	49.4	25.6
Car	2012	11.2	18.6	20.6	22.1	23.7	24.6	27.6	31.0	31.8	33.3	36.5	48.8	49.3	27.3
Truck	1975	7.6	7.9	8.9	9.2	9.6	9.8	11.7	13.3	15.4	17.8	19.0	19.2	20.8	11.6
Truck	1976	7.8	9.0	9.7	10.0	10.4	10.5	11.9	14.1	15.6	17.2	19.7	21.6	23.0	12.2
Truck	1977	8.0	8.8	10.3	10.9	11.5	11.6	12.5	15.5	15.8	19.6	21.7	25.6	27.4	13.3
Truck	1978	8.0	9.6	10.4	10.6	11.0	11.1	12.2	15.7	16.3	19.3	22.5	24.6	27.8	12.9
Truck	1979	7.9	8.1	9.2	9.6	10.3	10.7	12.1	15.5	16.1	19.4	20.7	25.8	25.9	12.5
Truck	1980	8.4	10.7	11.4	12.1	13.2	13.4	16.1	19.2	20.3	22.2	23.1	25.9	38.3	15.8
Truck	1981	9.4	11.4	12.5	13.4	14.9	15.2	16.1	20.3	21.6	25.0	26.6	31.2	36.0	17.1
Truck	1982	10.1	11.1	12.1	13.3	14.8	15.2	17.1	20.9	22.8	24.3	26.4	30.6	37.0	17.4
Truck	1983	10.3	11.1	12.0	13.4	14.9	15.4	18.1	22.0	22.8	25.2	26.5	30.0	38.2	17.7
Truck	1984	9.5	11.0	12.1	13.2	14.7	15.1	18.3	20.7	21.5	24.3	25.9	29.2	36.1	17.4
Truck	1985	9.6	11.4	12.4	13.6	14.0	14.7	18.5	21.0	21.8	24.0	25.2	28.4	36.1	17.5
Truck	1986	10.4	11.8	13.5	14.3	15.1	15.6	18.5	21.8	22.9	24.2	25.7	27.8	36.0	18.2
Truck	1987	10.0	11.6	13.7	14.2	15.1	15.8	18.7	21.5	22.8	23.8	25.9	27.8	36.0	18.3
Truck	1988	9.8	12.2	13.8	14.2	15.3	15.6	18.5	20.2	21.5	23.3	25.0	25.9	27.8	17.8
Truck	1989	10.2	11.6	13.7	14.4	15.2	15.5	18.5	20.0	20.4	22.6	24.0	24.8	27.7	17.6
Truck	1990	10.0	11.7	13.6	14.0	14.9	15.5	17.6	19.2	20.8	22.3	24.1	24.3	27.6	17.4
Truck	1991	10.4	12.5	13.8	14.5	15.6	16.1	18.2	19.8	20.5	23.0	24.0	24.8	27.5	17.8
Truck	1992	10.4	12.5	14.0	14.3	15.2	15.7	17.6	19.6	20.2	21.8	23.3	24.7	27.3	17.3
Truck	1993	10.5	13.0	13.9	14.1	15.4	15.9	17.8	19.4	19.9	21.8	23.7	24.6	27.2	17.5
Truck	1994	12.2	13.0	13.8	14.1	14.9	15.3	17.4	19.6	19.7	22.3	23.4	24.3	27.0	17.2
Truck	1995	12.2	12.8	13.7	13.9	14.9	15.1	16.9	19.0	19.3	21.5	23.5	24.1	26.9	17.0
Truck	1996	12.2	12.3	13.8	14.4	14.9	15.2	17.4	19.4	19.6	21.5	22.7	24.3	25.6	17.2
Truck	1997	12.0	13.1	13.7	14.5	15.0	15.3	16.8	18.6	19.3	20.0	22.0	23.7	25.5	16.8
Truck	1998	12.9	13.1	13.6	14.2	14.7	15.1	17.2	19.4	19.8	21.5	22.5	23.6	25.1	17.1
Truck	1999	13.0	13.0	13.6	13.9	14.7	15.0	16.8	18.6	19.3	20.3	21.7	23.5	24.7	16.6
Truck	2000	12.6	13.1	13.8	14.5	15.3	15.3	16.8	18.7	19.5	20.1	21.6	22.6	24.8	16.8
Truck	2001	11.8	11.8	13.4	14.1	14.9	15.1	16.3	18.7	19.1	19.9	21.1	22.5	23.6	16.5
Truck	2002	12.4	12.6	13.8	14.4	15.0	15.1	16.2	18.2	18.9	19.8	20.9	22.6	25.8	16.5
Truck	2003	10.9	13.0	13.8	14.1	14.8	15.2	16.3	18.8	19.4	20.8	21.7	22.5	23.9	16.7
Truck	2004	10.4	13.5	13.8	14.3	14.8	15.0	16.3	18.0	18.9	20.2	20.8	22.2	23.8	16.5
Truck	2005	9.8	13.2	14.2	14.5	14.9	15.3	16.7	18.9	19.1	20.5	21.4	22.2	27.0	16.9
Truck	2006	9.8	14.0	14.2	14.7	15.3	15.4	17.1	19.1	19.7	20.8	22.1	23.8	27.0	17.2
Truck	2007	12.2	14.0	14.6	15.0	15.8	15.9	17.1	19.2	19.5	20.8	22.4	23.6	27.1	17.4
Truck	2008	12.2	14.3	14.8	15.0	16.1	16.3	17.6	19.7	20.0	22.1	22.7	24.9	27.9	17.8

Appendix C: Production-Weighted Percent Distribution of Adjusted Composite MPG

Draft 11-20-12

Car or Truck	Model Year	Percentile Level													Actual Average
		0%	1%	5%	10%	20%	25%	50%	75%	80%	90%	95%	99%	100%	
Truck	2009	12.4	14.8	15.3	15.7	16.6	16.7	18.9	20.4	20.9	22.6	23.4	25.0	28.3	18.5
Truck	2010	12.2	14.6	15.3	15.8	16.5	17.2	18.9	20.9	21.3	23.3	23.9	24.8	28.7	18.8
Truck	2011	10.99	14.46	15.28	16.13	17.28	17.6	19.1	21.2	22.2	23.8	24.3	24.6	28.5	19.1
Truck	2012	11.48	14.74	15.18	16.06	17.61	17.66	19.4	21.4	22.2	24.1	25	25.9	28.5	19.4

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Adjusted Composite	Car	1975		6.6%	57.4%	23.9%	9.0%	3.1%														
Adjusted Composite	Car	1976		0.3%	57.6%	24.4%	13.2%	3.8%	0.7%													
Adjusted Composite	Car	1977		0.3%	44.0%	36.6%	10.2%	6.5%	1.5%	0.8%												
Adjusted Composite	Car	1978		0.3%	26.8%	48.4%	13.6%	6.9%	3.6%	0.3%												
Adjusted Composite	Car	1979		0.1%	24.2%	48.5%	17.9%	8.0%	1.0%	0.4%												
Adjusted Composite	Car	1980		0.0%	5.7%	44.7%	33.0%	12.7%	2.7%	1.0%	0.2%											
Adjusted Composite	Car	1981	0.0%	0.0%	2.6%	38.1%	33.6%	18.4%	5.1%	1.5%	0.8%											
Adjusted Composite	Car	1982		0.0%	0.3%	31.1%	31.6%	27.9%	7.0%	1.2%	0.8%											
Adjusted Composite	Car	1983		0.0%	0.3%	33.7%	29.6%	24.7%	9.5%	1.9%	0.4%	0.0%										
Adjusted Composite	Car	1984		0.0%	0.1%	26.9%	33.2%	30.7%	5.5%	3.0%	0.4%	0.2%										
Adjusted Composite	Car	1985		0.0%	0.1%	27.4%	29.3%	33.5%	7.3%	1.5%	0.4%	0.5%										
Adjusted Composite	Car	1986		0.0%	0.3%	16.7%	36.4%	36.6%	7.3%	1.9%	0.3%	0.3%	0.1%	0.2%								
Adjusted Composite	Car	1987		0.0%	0.3%	16.0%	40.0%	33.1%	8.6%	1.5%	0.0%	0.3%	0.2%									
Adjusted Composite	Car	1988		0.0%	0.3%	14.4%	40.5%	33.8%	8.1%	2.5%	0.0%	0.2%	0.2%									
Adjusted Composite	Car	1989		0.0%	0.3%	14.5%	46.3%	30.5%	6.2%	1.8%	0.0%	0.3%	0.1%									
Adjusted Composite	Car	1990		0.0%	0.2%	14.1%	50.7%	28.7%	5.2%	0.7%	0.1%	0.3%	0.0%									
Adjusted Composite	Car	1991		0.0%	0.2%	16.5%	49.1%	26.8%	5.8%	0.9%	0.6%	0.1%	0.0%									
Adjusted Composite	Car	1992		0.0%	0.2%	14.1%	56.0%	22.1%	5.0%	1.6%	0.8%	0.1%	0.1%									
Adjusted Composite	Car	1993		0.0%	0.1%	17.4%	50.8%	24.2%	5.2%	1.5%	0.6%	0.0%	0.1%									
Adjusted Composite	Car	1994			0.1%	18.8%	50.7%	23.5%	4.9%	1.4%	0.6%	0.0%	0.1%									
Adjusted Composite	Car	1995		0.0%	0.1%	15.2%	51.7%	25.2%	7.0%	0.4%	0.4%	0.0%										
Adjusted Composite	Car	1996			0.1%	12.9%	60.5%	20.6%	5.1%	0.4%	0.3%											
Adjusted Composite	Car	1997			0.1%	12.7%	59.1%	23.6%	4.1%	0.2%	0.2%											
Adjusted Composite	Car	1998			0.1%	13.8%	57.2%	25.3%	3.2%	0.1%	0.3%											
Adjusted Composite	Car	1999			0.0%	14.0%	62.9%	21.3%	1.5%	0.1%	0.1%											
Adjusted Composite	Car	2000		0.0%	0.0%	14.2%	66.1%	17.8%	1.5%	0.2%	0.1%			0.1%								
Adjusted Composite	Car	2001		0.0%	0.0%	16.8%	58.0%	18.3%	6.5%	0.1%	0.3%	0.0%	0.0%									
Adjusted Composite	Car	2002			0.1%	12.8%	64.4%	16.6%	5.5%	0.2%	0.4%	0.0%	0.0%									
Adjusted Composite	Car	2003		0.0%	0.1%	12.3%	60.4%	22.6%	3.9%	0.0%	0.8%	0.0%	0.0%									
Adjusted Composite	Car	2004			0.1%	14.8%	57.0%	25.1%	2.0%	0.1%	0.3%	0.6%	0.0%									
Adjusted Composite	Car	2005			0.2%	16.0%	48.7%	27.6%	5.8%	0.1%	0.3%	1.4%	0.0%									
Adjusted Composite	Car	2006			0.3%	16.1%	52.4%	21.6%	8.1%	0.0%	0.4%	1.0%	0.0%									
Adjusted Composite	Car	2007			0.3%	13.9%	44.6%	29.1%	10.0%		0.4%	1.8%										
Adjusted Composite	Car	2008			0.2%	11.5%	46.7%	29.9%	9.0%	0.3%	0.4%	2.1%										
Adjusted Composite	Car	2009			0.2%	6.0%	38.6%	37.1%	16.2%	0.4%	0.3%	1.3%										
Adjusted Composite	Car	2010			0.1%	4.7%	35.1%	38.4%	16.0%	1.4%	0.7%	3.6%										

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Adjusted Composite	Car	2011			0.1%	4.9%	36.1%	42.5%	12.9%	1.2%	0.4%	1.9%										
Adjusted Composite	Car	2012			0.1%	3.6%	25.2%	37.6%	27.7%	1.8%	1.5%	2.5%										
Adjusted Composite	Truck	1975		27.7%	51.8%	18.0%	2.5%															
Adjusted Composite	Truck	1976		12.0%	66.1%	16.7%	5.1%															
Adjusted Composite	Truck	1977		3.7%	66.0%	19.9%	9.2%	1.3%														
Adjusted Composite	Truck	1978		2.9%	68.6%	19.0%	8.6%	0.9%														
Adjusted Composite	Truck	1979		14.4%	59.3%	18.4%	6.8%	1.2%														
Adjusted Composite	Truck	1980		0.2%	40.7%	37.9%	19.1%	1.5%		0.6%												
Adjusted Composite	Truck	1981		0.0%	22.8%	50.7%	16.1%	7.1%	2.6%	0.7%												
Adjusted Composite	Truck	1982			21.9%	45.1%	23.7%	8.0%	0.8%	0.6%												
Adjusted Composite	Truck	1983			21.1%	41.3%	26.7%	9.8%	0.9%	0.2%												
Adjusted Composite	Truck	1984		0.1%	24.2%	43.0%	24.8%	7.1%	0.8%	0.1%												
Adjusted Composite	Truck	1985		0.0%	27.8%	40.8%	26.3%	4.8%	0.3%	0.0%												
Adjusted Composite	Truck	1986			19.7%	41.4%	33.5%	5.3%	0.1%	0.0%												
Adjusted Composite	Truck	1987			17.3%	43.1%	33.4%	6.1%	0.0%	0.0%												
Adjusted Composite	Truck	1988		0.0%	17.8%	53.0%	22.1%	6.9%														
Adjusted Composite	Truck	1989			18.8%	54.3%	24.3%	2.7%														
Adjusted Composite	Truck	1990		0.3%	21.8%	55.5%	18.8%	3.6%														
Adjusted Composite	Truck	1991			16.6%	59.9%	21.4%	2.1%														
Adjusted Composite	Truck	1992			19.2%	60.0%	20.7%	0.1%														
Adjusted Composite	Truck	1993			14.5%	66.2%	19.2%	0.0%														
Adjusted Composite	Truck	1994			23.1%	60.7%	16.1%	0.1%														
Adjusted Composite	Truck	1995			24.4%	59.8%	15.8%	0.0%														
Adjusted Composite	Truck	1996			22.0%	61.0%	17.1%	0.0%														
Adjusted Composite	Truck	1997			19.5%	70.5%	10.1%	0.0%														
Adjusted Composite	Truck	1998			23.5%	62.0%	14.6%	0.0%														
Adjusted Composite	Truck	1999			24.2%	63.7%	12.2%															
Adjusted Composite	Truck	2000			17.1%	72.0%	11.0%															
Adjusted Composite	Truck	2001			23.5%	66.6%	9.9%															
Adjusted Composite	Truck	2002			19.9%	71.3%	8.6%	0.2%														
Adjusted Composite	Truck	2003			24.1%	61.6%	14.4%															
Adjusted Composite	Truck	2004			25.5%	63.4%	11.1%															
Adjusted Composite	Truck	2005		0.0%	20.9%	64.4%	14.6%	0.1%														
Adjusted Composite	Truck	2006		0.0%	13.8%	69.9%	14.8%	1.5%														
Adjusted Composite	Truck	2007			10.1%	74.4%	14.7%	0.8%														
Adjusted Composite	Truck	2008			9.7%	70.5%	18.9%	0.9%														

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Adjusted Composite	Truck	2009			2.6%	66.9%	29.5%	1.1%														
Adjusted Composite	Truck	2010			3.0%	63.3%	31.4%	2.4%														
Adjusted Composite	Truck	2011			3.7%	58.8%	34.8%	2.7%														
Adjusted Composite	Truck	2012			3.4%	53.2%	37.4%	6.1%														
Adjusted Highway	Car	1975		0.3%	57.2%	21.2%	12.8%	6.0%	2.6%													
Adjusted Highway	Car	1976		0.1%	38.9%	38.8%	9.9%	8.4%	4.0%													
Adjusted Highway	Car	1977		0.0%	21.4%	55.4%	8.5%	7.2%	5.5%	1.4%	0.5%											
Adjusted Highway	Car	1978		0.0%	8.1%	59.2%	15.8%	9.5%	5.3%	1.8%	0.3%											
Adjusted Highway	Car	1979		0.0%	5.6%	61.2%	17.9%	10.4%	4.1%	0.6%	0.1%											
Adjusted Highway	Car	1980		0.0%	0.7%	30.0%	34.1%	23.9%	9.3%	0.8%	1.1%											
Adjusted Highway	Car	1981		0.0%	0.0%	14.9%	39.4%	27.3%	13.6%	3.1%	1.0%	0.7%										
Adjusted Highway	Car	1982		0.0%	0.0%	9.3%	35.3%	32.1%	16.0%	5.6%	0.8%	0.8%										
Adjusted Highway	Car	1983		0.0%	0.0%	7.9%	38.7%	28.9%	15.7%	6.8%	1.6%	0.3%										
Adjusted Highway	Car	1984		0.0%	0.1%	3.7%	37.6%	24.6%	27.5%	4.4%	1.7%	0.2%	0.2%									
Adjusted Highway	Car	1985		0.0%	0.0%	0.8%	41.3%	25.5%	23.4%	6.7%	1.7%	0.2%	0.4%									
Adjusted Highway	Car	1986		0.0%	0.0%	0.8%	25.6%	47.4%	19.3%	4.6%	1.7%	0.2%	0.0%	0.3%								
Adjusted Highway	Car	1987		0.0%	0.0%	0.8%	22.3%	39.0%	31.2%	5.1%	1.1%	0.3%		0.2%								
Adjusted Highway	Car	1988			0.0%	0.7%	18.3%	50.3%	23.6%	5.8%	1.0%	0.2%	0.1%	0.1%								
Adjusted Highway	Car	1989			0.0%	0.6%	17.3%	58.9%	18.3%	3.9%	0.7%	0.1%	0.3%									
Adjusted Highway	Car	1990			0.0%	0.5%	17.5%	63.4%	14.1%	3.5%	0.7%	0.2%	0.1%	0.0%								
Adjusted Highway	Car	1991			0.0%	0.9%	21.2%	52.6%	20.4%	3.6%	0.6%	0.6%	0.1%	0.0%								
Adjusted Highway	Car	1992			0.0%	1.2%	20.4%	56.4%	15.9%	4.9%	0.5%	0.5%	0.1%	0.1%								
Adjusted Highway	Car	1993			0.0%	3.6%	19.7%	51.2%	19.6%	4.7%	0.6%	0.5%	0.0%	0.1%								
Adjusted Highway	Car	1994			0.0%	2.1%	20.8%	52.1%	19.7%	4.4%	0.2%	0.5%	0.0%	0.1%								
Adjusted Highway	Car	1995			0.0%	1.4%	17.5%	56.2%	17.1%	7.2%	0.3%	0.3%	0.0%									
Adjusted Highway	Car	1996			0.0%	1.0%	15.7%	61.5%	16.8%	4.3%	0.3%	0.3%										
Adjusted Highway	Car	1997			0.0%	0.6%	17.8%	56.3%	20.9%	4.1%	0.2%	0.2%										
Adjusted Highway	Car	1998			0.0%	1.6%	15.4%	58.5%	21.1%	2.9%	0.1%	0.3%										
Adjusted Highway	Car	1999			0.0%	1.7%	16.0%	63.8%	17.0%	1.2%	0.1%	0.1%										
Adjusted Highway	Car	2000			0.0%	3.2%	15.0%	66.4%	13.5%	1.6%	0.1%	0.1%			0.1%							
Adjusted Highway	Car	2001			0.0%	2.7%	20.9%	57.1%	14.4%	4.4%	0.4%		0.0%		0.0%							
Adjusted Highway	Car	2002			0.0%	2.3%	19.5%	60.5%	13.5%	3.6%	0.6%	0.0%	0.0%		0.0%							
Adjusted Highway	Car	2003			0.0%	1.6%	22.1%	58.5%	15.9%	1.0%	0.7%	0.1%	0.0%		0.0%							
Adjusted Highway	Car	2004			0.0%	1.0%	25.1%	50.9%	20.6%	1.3%	0.4%	0.6%		0.0%								
Adjusted Highway	Car	2005			0.0%	0.8%	24.8%	45.6%	26.4%	0.6%	0.3%	1.4%		0.0%								
Adjusted Highway	Car	2006			0.0%	1.2%	25.8%	47.1%	20.9%	3.7%		1.4%		0.0%								

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Adjusted Highway	Car	2007			0.0%	0.7%	23.3%	37.7%	31.4%	4.7%		2.1%										
Adjusted Highway	Car	2008			0.0%	0.8%	20.5%	43.3%	28.9%	3.7%	0.3%	2.5%										
Adjusted Highway	Car	2009			0.0%	0.9%	12.8%	35.6%	44.0%	4.7%	0.4%	1.6%										
Adjusted Highway	Car	2010			0.0%	0.4%	14.1%	30.7%	44.0%	5.6%	1.5%	3.7%										
Adjusted Highway	Car	2011				0.3%	10.0%	33.9%	43.8%	9.1%	1.0%	1.9%										
Adjusted Highway	Car	2012			0.0%	0.3%	6.1%	25.5%	42.1%	20.6%	2.8%	2.5%										
Adjusted Highway	Truck	1975		20.2%	54.7%	14.9%	10.2%															
Adjusted Highway	Truck	1976		6.2%	66.0%	19.3%	6.7%	1.9%														
Adjusted Highway	Truck	1977		2.4%	58.7%	25.1%	8.1%	4.8%	0.9%													
Adjusted Highway	Truck	1978		1.0%	65.5%	21.6%	8.3%	3.7%														
Adjusted Highway	Truck	1979		10.8%	56.3%	21.1%	8.2%	3.5%														
Adjusted Highway	Truck	1980		0.1%	29.0%	41.1%	23.3%	5.8%		0.5%	0.1%											
Adjusted Highway	Truck	1981			12.0%	51.6%	21.0%	11.1%	3.0%	1.3%												
Adjusted Highway	Truck	1982			12.9%	42.4%	24.3%	16.7%	3.1%	0.6%												
Adjusted Highway	Truck	1983			10.1%	38.0%	28.6%	19.3%	3.1%	0.9%												
Adjusted Highway	Truck	1984		0.0%	12.0%	39.7%	31.7%	14.7%	1.5%	0.3%												
Adjusted Highway	Truck	1985		0.0%	11.7%	31.7%	40.0%	14.7%	1.8%	0.1%												
Adjusted Highway	Truck	1986			5.7%	33.3%	40.0%	18.6%	2.2%	0.1%												
Adjusted Highway	Truck	1987			8.2%	24.1%	46.4%	19.4%	1.8%	0.0%												
Adjusted Highway	Truck	1988			7.5%	35.4%	42.2%	14.9%														
Adjusted Highway	Truck	1989			5.0%	39.9%	41.7%	13.4%														
Adjusted Highway	Truck	1990			3.4%	42.6%	44.3%	9.7%														
Adjusted Highway	Truck	1991			2.4%	40.1%	45.2%	12.2%														
Adjusted Highway	Truck	1992			1.9%	43.6%	45.1%	9.4%														
Adjusted Highway	Truck	1993			1.0%	44.4%	45.2%	9.5%														
Adjusted Highway	Truck	1994			0.9%	50.7%	38.4%	10.1%														
Adjusted Highway	Truck	1995			2.4%	52.9%	38.4%	6.3%														
Adjusted Highway	Truck	1996			2.2%	48.2%	40.5%	9.1%														
Adjusted Highway	Truck	1997			0.6%	58.9%	35.6%	4.8%														
Adjusted Highway	Truck	1998			0.0%	55.0%	37.4%	7.6%	0.0%													
Adjusted Highway	Truck	1999			0.2%	65.7%	29.7%	4.3%														
Adjusted Highway	Truck	2000			0.1%	64.9%	32.3%	2.7%	0.0%													
Adjusted Highway	Truck	2001			2.2%	65.5%	28.4%	3.9%														
Adjusted Highway	Truck	2002			1.4%	70.7%	23.4%	4.5%														
Adjusted Highway	Truck	2003			2.3%	63.5%	31.8%	2.4%														
Adjusted Highway	Truck	2004			0.3%	64.8%	33.4%	1.5%														

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Adjusted Highway	Truck	2005			0.3%	53.8%	43.4%	2.6%														
Adjusted Highway	Truck	2006			0.2%	55.1%	39.7%	4.9%														
Adjusted Highway	Truck	2007			0.1%	55.9%	38.5%	5.5%														
Adjusted Highway	Truck	2008			0.1%	46.4%	43.2%	10.1%	0.1%													
Adjusted Highway	Truck	2009			0.0%	34.0%	49.1%	16.7%	0.2%													
Adjusted Highway	Truck	2010			0.0%	27.7%	53.1%	19.1%	0.1%													
Adjusted Highway	Truck	2011			0.2%	20.1%	55.6%	24.0%	0.1%													
Adjusted Highway	Truck	2012			0.0%	18.1%	51.7%	30.2%														
Adjusted City	Car	1975		19.2%	52.1%	20.7%	7.8%	0.2%														
Adjusted City	Car	1976		3.2%	61.1%	22.2%	11.0%	2.5%														
Adjusted City	Car	1977		4.6%	60.1%	20.0%	8.2%	5.4%	1.2%	0.5%												
Adjusted City	Car	1978		0.8%	45.2%	34.1%	11.1%	7.0%	1.5%	0.3%												
Adjusted City	Car	1979		0.2%	43.8%	36.0%	15.6%	3.5%	0.4%	0.4%												
Adjusted City	Car	1980		0.0%	17.1%	43.8%	28.8%	8.1%	1.1%	1.1%												
Adjusted City	Car	1981	0.0%	0.0%	9.8%	44.3%	29.2%	12.1%	3.5%	1.0%												
Adjusted City	Car	1982		0.0%	9.2%	36.1%	36.8%	12.7%	3.5%	1.3%	0.3%											
Adjusted City	Car	1983		0.0%	13.6%	37.1%	24.3%	18.1%	5.8%	0.9%	0.1%											
Adjusted City	Car	1984		0.0%	8.5%	38.6%	31.5%	15.1%	5.0%	0.9%	0.2%	0.1%										
Adjusted City	Car	1985		0.0%	0.4%	47.7%	31.8%	13.7%	5.1%	0.8%	0.1%	0.4%										
Adjusted City	Car	1986		0.0%	0.4%	43.5%	35.7%	15.0%	3.3%	1.2%	0.5%	0.0%	0.3%									
Adjusted City	Car	1987		0.0%	0.7%	40.5%	35.7%	20.0%	1.7%	0.9%	0.3%		0.2%									
Adjusted City	Car	1988		0.0%	0.6%	40.2%	37.4%	17.5%	2.2%	1.8%	0.2%	0.1%	0.1%									
Adjusted City	Car	1989		0.0%	0.5%	46.1%	35.2%	15.4%	1.2%	1.1%	0.1%	0.3%										
Adjusted City	Car	1990		0.0%	0.6%	47.5%	37.7%	11.3%	2.4%	0.2%	0.2%	0.1%	0.0%									
Adjusted City	Car	1991		0.0%	0.8%	49.3%	36.7%	10.2%	2.1%	0.2%	0.6%	0.1%	0.0%									
Adjusted City	Car	1992		0.0%	3.5%	54.1%	31.3%	7.8%	2.3%	0.4%	0.6%	0.1%										
Adjusted City	Car	1993		0.0%	5.0%	47.2%	35.6%	9.7%	1.6%	0.2%	0.5%	0.1%										
Adjusted City	Car	1994		0.0%	1.0%	53.1%	35.9%	7.6%	1.5%	0.2%	0.5%	0.1%										
Adjusted City	Car	1995		0.0%	1.1%	54.9%	32.2%	9.8%	1.5%	0.3%	0.3%											
Adjusted City	Car	1996		0.0%	1.6%	55.5%	31.1%	10.1%	1.2%	0.1%	0.3%											
Adjusted City	Car	1997		0.0%	1.5%	51.3%	37.3%	8.5%	1.2%	0.2%												
Adjusted City	Car	1998		0.0%	2.3%	51.6%	34.5%	11.0%	0.3%	0.3%												
Adjusted City	Car	1999		0.0%	1.2%	60.8%	29.8%	7.8%	0.1%	0.2%												
Adjusted City	Car	2000		0.0%	2.9%	59.6%	32.1%	4.9%	0.3%	0.2%			0.1%									
Adjusted City	Car	2001		0.0%	3.2%	60.9%	26.9%	8.3%	0.3%	0.1%	0.2%	0.0%	0.0%									
Adjusted City	Car	2002		0.0%	2.0%	59.6%	31.0%	7.0%	0.0%	0.2%	0.3%	0.0%	0.0%									

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Adjusted City	Car	2003		0.0%	1.9%	56.7%	32.3%	8.2%	0.1%	0.4%	0.4%	0.0%										
Adjusted City	Car	2004		0.0%	3.3%	57.3%	30.7%	7.6%	0.2%	0.3%		0.6%										
Adjusted City	Car	2005		0.0%	3.3%	54.5%	31.4%	9.0%	0.2%	0.3%		1.4%										
Adjusted City	Car	2006		0.0%	3.3%	57.0%	28.6%	9.5%	0.3%		0.4%	1.0%										
Adjusted City	Car	2007		0.0%	3.1%	48.2%	35.4%	10.2%	0.8%	0.1%	0.4%	1.8%										
Adjusted City	Car	2008		0.0%	4.4%	48.1%	34.1%	9.9%	0.9%	0.1%	0.4%	2.1%										
Adjusted City	Car	2009		0.0%	2.4%	34.6%	41.6%	18.4%	1.2%	0.2%	0.3%	1.3%										
Adjusted City	Car	2010		0.0%	1.0%	30.5%	43.7%	19.3%	0.4%	0.3%	1.2%		3.6%									
Adjusted City	Car	2011		0.0%	1.6%	32.6%	47.8%	14.6%	0.8%	0.1%	0.6%		1.9%									
Adjusted City	Car	2012		0.0%	1.2%	22.7%	41.1%	28.6%	1.7%	0.4%	1.9%		2.5%									
Adjusted City	Truck	1975		35.3%	53.2%	11.5%																
Adjusted City	Truck	1976		20.4%	60.9%	17.2%	1.6%															
Adjusted City	Truck	1977		6.4%	69.7%	18.2%	4.7%	0.9%														
Adjusted City	Truck	1978		7.6%	70.8%	13.2%	7.4%	0.9%														
Adjusted City	Truck	1979		17.7%	61.8%	16.0%	4.4%															
Adjusted City	Truck	1980		0.6%	48.0%	37.5%	13.3%		0.5%	0.1%												
Adjusted City	Truck	1981		0.0%	44.4%	35.6%	15.6%	2.3%	2.1%													
Adjusted City	Truck	1982		0.1%	32.3%	43.7%	19.5%	3.7%	0.2%	0.6%												
Adjusted City	Truck	1983		0.0%	36.0%	39.3%	21.6%	2.0%	0.9%	0.0%												
Adjusted City	Truck	1984		0.8%	36.9%	40.9%	20.0%	0.9%	0.5%	0.0%												
Adjusted City	Truck	1985		0.0%	35.6%	41.2%	20.3%	2.6%	0.2%													
Adjusted City	Truck	1986		0.2%	31.5%	39.9%	25.8%	2.5%	0.2%													
Adjusted City	Truck	1987		0.1%	25.5%	48.9%	22.7%	2.8%	0.1%													
Adjusted City	Truck	1988		0.1%	34.3%	43.7%	20.0%	1.9%														
Adjusted City	Truck	1989		0.1%	35.2%	48.8%	15.2%	0.6%														
Adjusted City	Truck	1990		0.5%	36.2%	49.3%	13.8%	0.3%														
Adjusted City	Truck	1991		0.1%	35.0%	51.1%	13.8%	0.1%														
Adjusted City	Truck	1992		0.1%	44.6%	45.5%	9.7%	0.1%														
Adjusted City	Truck	1993		0.0%	40.3%	50.4%	9.2%	0.0%														
Adjusted City	Truck	1994			47.0%	42.1%	10.9%	0.1%														
Adjusted City	Truck	1995			49.8%	41.0%	9.1%	0.0%														
Adjusted City	Truck	1996			46.8%	44.2%	9.0%															
Adjusted City	Truck	1997			53.5%	39.6%	7.0%															
Adjusted City	Truck	1998			47.3%	46.0%	6.7%															
Adjusted City	Truck	1999			60.4%	34.4%	5.2%															
Adjusted City	Truck	2000			59.7%	37.6%	2.7%															

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Adjusted City	Truck	2001			63.6%	34.4%	2.0%															
Adjusted City	Truck	2002			66.8%	31.8%	1.3%															
Adjusted City	Truck	2003		0.0%	61.5%	37.3%	1.3%															
Adjusted City	Truck	2004		0.0%	70.6%	29.2%	0.2%															
Adjusted City	Truck	2005		0.1%	60.9%	38.8%	0.2%	0.1%														
Adjusted City	Truck	2006		0.0%	58.9%	38.7%	0.9%	1.5%														
Adjusted City	Truck	2007			57.9%	38.5%	2.8%	0.7%														
Adjusted City	Truck	2008			50.4%	43.2%	5.3%	1.2%														
Adjusted City	Truck	2009			39.6%	53.9%	5.9%	0.6%														
Adjusted City	Truck	2010			38.5%	48.3%	12.4%	0.6%	0.1%													
Adjusted City	Truck	2011		0.0%	34.1%	50.4%	15.3%	0.2%	0.1%													
Adjusted City	Truck	2012		0.0%	27.5%	57.1%	14.9%	0.4%	0.1%													
Lab 55/45	Car	1975		0.0%	47.9%	29.0%	14.3%	6.4%	2.4%													
Lab 55/45	Car	1976			26.4%	46.9%	12.3%	10.6%	3.2%	0.7%												
Lab 55/45	Car	1977		0.0%	15.8%	56.8%	10.8%	8.6%	5.6%	1.0%	1.3%											
Lab 55/45	Car	1978		0.0%	5.7%	50.2%	23.8%	10.7%	5.6%	3.4%	0.5%											
Lab 55/45	Car	1979		0.0%	3.5%	47.6%	27.2%	14.0%	6.3%	1.0%	0.3%	0.1%										
Lab 55/45	Car	1980		0.0%	0.0%	19.7%	39.1%	25.4%	11.8%	2.0%	1.7%	0.2%										
Lab 55/45	Car	1981	0.0%		0.0%	10.3%	38.0%	26.7%	16.9%	5.3%	1.7%	1.0%										
Lab 55/45	Car	1982		0.0%	0.0%	13.1%	27.4%	29.3%	20.8%	6.6%	1.7%	0.8%	0.3%									
Lab 55/45	Car	1983		0.0%	0.0%	11.6%	34.7%	18.8%	22.0%	9.9%	2.2%	0.6%	0.1%									
Lab 55/45	Car	1984		0.0%	0.0%	7.9%	33.7%	24.6%	23.5%	6.7%	2.7%	0.6%	0.2%	0.1%								
Lab 55/45	Car	1985		0.0%	0.0%	0.8%	43.0%	15.1%	30.9%	7.8%	1.2%	0.9%	0.0%	0.4%								
Lab 55/45	Car	1986		0.0%	0.0%	0.7%	28.0%	34.8%	24.2%	8.4%	1.8%	1.5%	0.2%	0.0%	0.1%	0.2%						
Lab 55/45	Car	1987		0.0%	0.0%	0.7%	25.0%	31.2%	32.0%	8.8%	0.9%	0.9%	0.3%	0.0%	0.1%	0.1%						
Lab 55/45	Car	1988		0.0%	0.0%	0.5%	19.3%	35.6%	32.6%	7.9%	2.0%	1.6%	0.2%	0.0%	0.1%	0.1%						
Lab 55/45	Car	1989		0.0%	0.0%	0.5%	20.6%	41.0%	28.2%	7.1%	1.1%	1.1%		0.3%	0.1%							
Lab 55/45	Car	1990			0.0%	0.5%	17.2%	50.7%	23.4%	6.5%	1.1%	0.2%	0.0%	0.3%		0.0%						
Lab 55/45	Car	1991			0.0%	0.5%	21.2%	44.2%	23.7%	7.5%	2.1%	0.1%	0.1%	0.6%		0.0%						
Lab 55/45	Car	1992			0.0%	0.8%	27.6%	41.5%	20.7%	6.7%	1.7%	0.3%	0.6%	0.1%		0.1%						
Lab 55/45	Car	1993			0.0%	3.4%	17.4%	46.7%	22.9%	7.1%	1.7%	0.1%	0.2%	0.5%		0.1%						
Lab 55/45	Car	1994			0.0%	0.3%	24.4%	43.8%	22.7%	6.5%	1.3%	0.3%	0.1%	0.5%		0.1%						
Lab 55/45	Car	1995			0.0%	1.0%	17.5%	47.8%	21.6%	9.8%	1.5%	0.4%	0.4%	0.0%								
Lab 55/45	Car	1996			0.0%	0.4%	17.5%	48.4%	22.4%	9.4%	1.3%	0.3%	0.3%									
Lab 55/45	Car	1997			0.0%	0.5%	17.4%	46.0%	24.3%	10.2%	1.2%	0.2%	0.2%									
Lab 55/45	Car	1998			0.0%	0.1%	15.9%	49.7%	22.1%	11.4%	0.4%	0.1%	0.3%									

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Lab 55/45	Car	1999			0.0%	0.1%	16.8%	54.7%	18.2%	9.7%	0.2%	0.0%	0.2%									
Lab 55/45	Car	2000			0.0%	0.8%	17.4%	53.9%	19.6%	7.6%	0.4%	0.0%	0.2%					0.1%				
Lab 55/45	Car	2001			0.0%	0.2%	17.1%	50.7%	21.9%	8.1%	1.6%	0.0%	0.1%	0.2%		0.0%		0.0%				
Lab 55/45	Car	2002			0.0%	0.2%	15.1%	50.9%	24.9%	7.3%	1.2%	0.0%	0.2%	0.3%		0.0%		0.0%				
Lab 55/45	Car	2003			0.0%	0.2%	15.2%	46.8%	26.2%	9.4%	1.4%	0.0%	0.2%	0.5%		0.0%		0.0%				
Lab 55/45	Car	2004			0.0%	0.3%	16.4%	46.1%	25.4%	9.9%	0.9%	0.1%		0.3%		0.6%	0.0%					
Lab 55/45	Car	2005			0.0%	0.3%	16.9%	41.4%	26.8%	11.5%	1.1%	0.1%		0.3%		1.4%	0.0%					
Lab 55/45	Car	2006			0.0%	0.6%	16.4%	42.1%	26.4%	11.9%	1.3%	0.0%		0.4%		1.0%	0.0%					
Lab 55/45	Car	2007			0.0%	0.5%	14.9%	37.2%	27.2%	14.7%	2.5%	0.8%		0.4%		1.8%						
Lab 55/45	Car	2008			0.0%	0.5%	12.3%	40.9%	25.2%	15.5%	2.4%	0.7%		0.4%		2.1%						
Lab 55/45	Car	2009			0.0%	0.4%	6.3%	31.2%	34.8%	16.6%	7.7%	1.3%		0.3%		1.3%						
Lab 55/45	Car	2010			0.0%	0.4%	5.4%	26.0%	31.4%	28.1%	2.6%	1.4%	0.5%	0.7%			3.6%					
Lab 55/45	Car	2011			0.0%	0.2%	4.9%	28.3%	37.4%	20.2%	5.1%	1.0%	0.6%	0.4%			1.9%					
Lab 55/45	Car	2012			0.0%	0.2%	3.6%	17.6%	31.0%	19.3%	21.8%	1.6%	1.0%	1.3%	0.2%		2.5%					
Lab 55/45	Truck	1975		2.5%	68.1%	18.4%	11.0%															
Lab 55/45	Truck	1976		0.1%	63.2%	24.9%	9.9%	1.9%														
Lab 55/45	Truck	1977		0.1%	53.2%	31.5%	7.2%	6.7%	1.3%													
Lab 55/45	Truck	1978		0.1%	58.6%	27.5%	5.8%	7.2%	0.9%													
Lab 55/45	Truck	1979		1.4%	55.1%	30.3%	9.1%	3.0%	1.1%													
Lab 55/45	Truck	1980		0.0%	17.9%	46.5%	21.7%	11.8%	1.5%		0.6%											
Lab 55/45	Truck	1981			7.4%	47.6%	23.3%	14.7%	3.7%	1.9%	1.3%											
Lab 55/45	Truck	1982			8.3%	41.6%	26.3%	14.9%	6.3%	2.0%	0.6%											
Lab 55/45	Truck	1983			6.9%	36.0%	28.1%	20.9%	6.0%	1.9%	0.2%	0.0%										
Lab 55/45	Truck	1984			7.6%	34.8%	36.2%	14.6%	5.8%	0.9%	0.1%											
Lab 55/45	Truck	1985			7.2%	32.6%	37.6%	17.8%	4.4%	0.3%	0.0%											
Lab 55/45	Truck	1986			2.7%	32.9%	36.3%	22.8%	5.1%	0.2%	0.0%											
Lab 55/45	Truck	1987			2.7%	26.5%	43.4%	22.1%	5.1%	0.0%	0.0%											
Lab 55/45	Truck	1988			2.2%	37.8%	36.9%	16.2%	6.9%													
Lab 55/45	Truck	1989			3.0%	35.8%	41.8%	16.7%	2.7%													
Lab 55/45	Truck	1990			3.4%	36.4%	43.2%	13.4%	3.6%													
Lab 55/45	Truck	1991			1.1%	31.0%	51.9%	13.4%	2.5%													
Lab 55/45	Truck	1992			1.4%	41.2%	43.5%	12.9%	1.0%													
Lab 55/45	Truck	1993			0.2%	35.0%	49.6%	14.9%	0.3%													
Lab 55/45	Truck	1994			0.1%	40.6%	45.9%	13.0%	0.4%													
Lab 55/45	Truck	1995			0.3%	46.7%	38.4%	14.5%	0.0%													
Lab 55/45	Truck	1996			1.1%	38.2%	48.4%	12.3%	0.0%													

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Lab 55/45	Truck	1997			0.0%	42.7%	47.7%	9.6%	0.0%													
Lab 55/45	Truck	1998				35.7%	51.6%	12.7%	0.0%													
Lab 55/45	Truck	1999				44.0%	46.7%	9.2%	0.1%													
Lab 55/45	Truck	2000				39.3%	50.0%	10.7%	0.0%													
Lab 55/45	Truck	2001			0.1%	45.7%	45.4%	8.9%														
Lab 55/45	Truck	2002				50.5%	40.6%	8.2%	0.7%													
Lab 55/45	Truck	2003			0.0%	45.4%	41.5%	12.7%	0.4%													
Lab 55/45	Truck	2004			0.0%	45.2%	43.5%	11.1%	0.2%													
Lab 55/45	Truck	2005			0.1%	40.4%	43.8%	15.5%	0.2%	0.1%												
Lab 55/45	Truck	2006			0.0%	34.2%	48.8%	15.3%	1.1%	0.5%												
Lab 55/45	Truck	2007				27.5%	58.5%	12.7%	1.0%	0.3%												
Lab 55/45	Truck	2008				21.5%	60.1%	14.6%	3.1%	0.7%												
Lab 55/45	Truck	2009				13.5%	57.9%	23.6%	4.4%	0.6%												
Lab 55/45	Truck	2010				16.7%	50.9%	21.7%	10.0%	0.8%												
Lab 55/45	Truck	2011			0.0%	10.8%	51.8%	22.6%	14.5%	0.3%												
Lab 55/45	Truck	2012			0.0%	9.2%	46.6%	31.0%	12.7%	0.5%												
Lab City	Car	1975		7.1%	53.8%	26.6%	10.0%	2.5%														
Lab City	Car	1976		0.9%	47.2%	35.6%	10.7%	4.9%	0.7%													
Lab City	Car	1977		0.4%	38.9%	41.6%	9.5%	7.4%	1.0%	1.4%												
Lab City	Car	1978		0.3%	26.0%	49.0%	13.7%	6.1%	3.5%	1.3%												
Lab City	Car	1979		0.0%	18.6%	53.7%	15.1%	10.5%	1.7%	0.3%	0.1%											
Lab City	Car	1980		0.0%	5.5%	41.6%	33.8%	12.8%	4.4%	0.8%	1.1%											
Lab City	Car	1981	0.0%	0.0%	2.5%	37.4%	29.3%	21.7%	5.9%	2.2%	1.0%											
Lab City	Car	1982		0.0%	1.4%	27.6%	33.1%	25.8%	9.2%	1.8%	0.8%	0.3%										
Lab City	Car	1983		0.0%	0.3%	34.8%	26.9%	22.4%	12.6%	2.4%	0.5%	0.1%										
Lab City	Car	1984		0.0%	0.0%	26.7%	33.4%	28.7%	7.6%	2.5%	0.8%	0.2%	0.1%									
Lab City	Car	1985		0.0%	0.1%	30.1%	25.1%	33.8%	8.2%	1.4%	0.8%	0.1%	0.4%									
Lab City	Car	1986		0.0%	0.2%	19.3%	38.1%	29.5%	9.1%	1.8%	1.3%	0.5%	0.0%	0.1%	0.2%							
Lab City	Car	1987		0.0%	0.1%	17.1%	35.2%	34.1%	11.1%	0.9%	0.9%	0.3%		0.2%								
Lab City	Car	1988		0.0%	0.2%	16.4%	34.1%	34.7%	11.1%	1.4%	1.8%	0.2%		0.2%								
Lab City	Car	1989		0.0%	0.2%	14.7%	42.6%	31.5%	8.3%	1.1%	1.1%	0.0%	0.3%	0.1%								
Lab City	Car	1990		0.0%	0.2%	14.0%	49.3%	26.2%	8.7%	1.1%	0.2%	0.0%	0.3%	0.0%								
Lab City	Car	1991		0.0%	0.1%	18.1%	43.4%	26.5%	9.2%	1.8%	0.2%	0.6%	0.1%	0.0%								
Lab City	Car	1992		0.0%	0.2%	21.1%	47.6%	20.7%	7.1%	2.2%	0.3%	0.6%	0.1%	0.1%								
Lab City	Car	1993		0.0%	0.1%	17.4%	46.5%	26.0%	7.4%	1.7%	0.1%	0.2%	0.5%	0.1%								
Lab City	Car	1994			0.1%	18.1%	45.5%	27.1%	6.7%	1.5%	0.3%	0.1%	0.5%	0.1%								

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Lab City	Car	1995		0.0%	0.1%	16.4%	46.4%	25.3%	9.7%	1.2%	0.4%	0.4%	0.0%									
Lab City	Car	1996		0.0%	0.1%	15.1%	50.0%	23.1%	9.9%	1.3%	0.3%	0.3%										
Lab City	Car	1997			0.1%	15.0%	48.3%	24.4%	10.7%	1.3%	0.1%	0.1%										
Lab City	Car	1998			0.1%	13.6%	47.0%	27.7%	10.3%	1.1%	0.1%	0.2%										
Lab City	Car	1999		0.0%	0.0%	14.0%	53.3%	23.1%	8.8%	0.5%	0.1%	0.1%										
Lab City	Car	2000		0.0%	0.1%	14.7%	52.8%	24.2%	7.6%	0.4%	0.0%	0.2%				0.1%						
Lab City	Car	2001		0.0%	0.1%	14.6%	50.7%	24.7%	7.7%	1.9%	0.0%	0.1%		0.2%	0.0%	0.0%						
Lab City	Car	2002			0.1%	11.5%	50.2%	28.5%	8.0%	1.2%	0.0%	0.2%		0.3%	0.0%	0.0%						
Lab City	Car	2003		0.0%	0.1%	10.3%	48.3%	30.4%	9.0%	1.1%	0.0%	0.2%	0.4%	0.2%	0.0%	0.0%						
Lab City	Car	2004			0.1%	12.8%	47.7%	28.0%	9.5%	0.8%	0.1%	0.0%	0.3%		0.0%	0.6%						
Lab City	Car	2005			0.2%	11.5%	44.1%	30.5%	11.0%	0.9%	0.1%	0.0%	0.3%		0.0%	1.4%						
Lab City	Car	2006		0.0%	0.3%	11.3%	48.1%	26.2%	11.6%	1.2%	0.0%		0.4%		0.0%	1.0%						
Lab City	Car	2007			0.3%	8.8%	40.7%	30.6%	14.1%	2.4%	0.8%	0.1%	0.4%			1.8%						
Lab City	Car	2008		0.0%	0.3%	7.7%	43.0%	28.0%	15.4%	2.2%	0.7%	0.3%	0.4%			2.1%						
Lab City	Car	2009			0.2%	4.3%	29.8%	37.6%	21.3%	3.8%	1.0%	0.4%	0.3%			1.3%						
Lab City	Car	2010		0.0%	0.1%	3.7%	26.6%	35.8%	25.2%	3.0%	0.3%	0.4%	0.7%	0.5%			3.6%					
Lab City	Car	2011			0.1%	3.6%	28.7%	41.4%	17.7%	5.1%	0.4%	0.5%	0.2%	0.4%			1.9%					
Lab City	Car	2012		0.0%	0.1%	2.8%	20.1%	31.5%	20.1%	20.2%	0.1%	0.7%		1.7%	0.2%		2.5%					
Lab City	Truck	1975		11.3%	66.0%	20.2%	2.5%															
Lab City	Truck	1976		3.0%	72.4%	19.2%	5.4%															
Lab City	Truck	1977		1.9%	63.3%	24.2%	9.3%	1.3%														
Lab City	Truck	1978		1.2%	64.3%	24.4%	8.3%	1.8%														
Lab City	Truck	1979		7.2%	60.3%	21.7%	8.7%	2.2%														
Lab City	Truck	1980		0.1%	30.5%	43.7%	21.2%	3.9%		0.6%												
Lab City	Truck	1981		0.0%	14.0%	56.9%	15.8%	9.1%	2.8%	1.3%												
Lab City	Truck	1982			14.8%	49.9%	23.0%	8.5%	3.0%	0.5%	0.2%											
Lab City	Truck	1983			13.9%	46.5%	26.7%	10.9%	1.7%	0.4%	0.0%											
Lab City	Truck	1984		0.0%	16.8%	48.9%	24.5%	8.5%	0.8%	0.4%	0.0%											
Lab City	Truck	1985			26.8%	36.8%	28.2%	7.8%	0.2%	0.2%												
Lab City	Truck	1986			8.3%	51.7%	29.4%	9.5%	1.1%	0.1%												
Lab City	Truck	1987			12.4%	46.4%	32.6%	6.9%	1.6%	0.1%												
Lab City	Truck	1988			13.4%	57.7%	19.7%	7.4%	1.9%													
Lab City	Truck	1989			14.8%	55.7%	22.0%	7.1%	0.4%													
Lab City	Truck	1990			16.8%	57.8%	17.2%	8.1%	0.2%													
Lab City	Truck	1991			11.1%	58.3%	21.8%	8.8%	0.1%													
Lab City	Truck	1992			12.4%	61.8%	22.0%	3.8%	0.1%													

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Lab City	Truck	1993			11.8%	62.7%	19.8%	5.7%	0.0%													
Lab City	Truck	1994			14.0%	58.2%	23.8%	3.9%	0.1%													
Lab City	Truck	1995			15.4%	66.0%	14.7%	3.8%	0.0%													
Lab City	Truck	1996			15.6%	64.6%	16.7%	3.1%														
Lab City	Truck	1997			16.5%	66.7%	12.3%	4.6%														
Lab City	Truck	1998			18.5%	61.0%	16.3%	4.3%														
Lab City	Truck	1999			20.6%	62.7%	15.1%	1.6%														
Lab City	Truck	2000			11.3%	68.0%	20.1%	0.6%														
Lab City	Truck	2001			13.7%	69.9%	16.1%	0.3%														
Lab City	Truck	2002			7.2%	74.9%	17.2%	0.7%														
Lab City	Truck	2003			10.1%	68.1%	20.6%	1.2%														
Lab City	Truck	2004			9.7%	70.0%	20.1%	0.2%														
Lab City	Truck	2005		0.0%	5.5%	68.1%	26.1%	0.3%		0.1%												
Lab City	Truck	2006		0.0%	3.6%	68.1%	25.1%	1.6%	0.9%	0.5%												
Lab City	Truck	2007			3.5%	71.8%	20.5%	3.4%	0.4%	0.3%												
Lab City	Truck	2008			2.9%	65.6%	24.6%	5.7%	0.5%	0.7%												
Lab City	Truck	2009			1.5%	56.2%	30.0%	11.7%	0.0%	0.6%												
Lab City	Truck	2010			0.7%	56.6%	27.1%	14.8%		0.6%	0.1%											
Lab City	Truck	2011			1.1%	48.9%	34.2%	15.3%	0.2%	0.3%												
Lab City	Truck	2012			1.1%	41.4%	41.6%	15.5%		0.5%												
Lab Highway	Car	1975			9.1%	53.2%	15.2%	10.5%	7.5%	2.5%	2.0%											
Lab Highway	Car	1976			0.8%	40.9%	34.9%	6.4%	10.7%	3.8%	2.5%											
Lab Highway	Car	1977			0.1%	31.9%	41.8%	9.3%	5.9%	5.3%	3.6%	1.3%	0.6%									
Lab Highway	Car	1978			0.2%	14.1%	45.0%	19.0%	10.2%	5.4%	4.1%	1.8%	0.3%									
Lab Highway	Car	1979			0.1%	12.3%	46.0%	17.6%	12.2%	8.1%	2.9%	0.6%	0.1%									
Lab Highway	Car	1980			0.0%	1.0%	17.9%	33.7%	27.2%	12.0%	6.3%	0.7%	1.0%	0.2%								
Lab Highway	Car	1981		0.0%	0.0%	0.0%	11.0%	33.3%	25.6%	15.6%	9.9%	2.7%	0.5%	1.3%								
Lab Highway	Car	1982			0.0%	0.0%	6.8%	25.6%	22.1%	28.8%	9.6%	4.7%	1.5%	0.9%								
Lab Highway	Car	1983			0.0%	0.0%	5.3%	36.2%	18.8%	18.5%	13.1%	5.5%	2.0%	0.4%	0.1%							
Lab Highway	Car	1984			0.0%	0.1%	2.4%	29.1%	25.7%	23.5%	12.7%	3.3%	2.0%	1.0%	0.2%	0.2%						
Lab Highway	Car	1985			0.0%	0.0%	0.8%	20.7%	32.7%	22.4%	14.8%	5.7%	1.7%	0.8%	0.0%	0.4%						
Lab Highway	Car	1986			0.0%	0.0%	0.7%	13.2%	28.3%	37.7%	13.0%	3.3%	2.7%	0.2%	0.3%		0.1%	0.2%				
Lab Highway	Car	1987			0.0%	0.0%	0.7%	10.5%	32.4%	35.4%	14.0%	5.2%	1.1%	0.2%	0.3%		0.2%					
Lab Highway	Car	1988			0.0%	0.0%	0.7%	8.4%	26.1%	41.8%	15.5%	4.6%	2.5%		0.2%	0.0%	0.2%					
Lab Highway	Car	1989			0.0%	0.0%	0.6%	5.1%	30.4%	44.0%	12.9%	4.8%	1.7%	0.0%	0.1%	0.3%	0.1%					
Lab Highway	Car	1990			0.0%	0.0%	0.5%	7.9%	30.5%	45.3%	10.4%	4.2%	0.7%	0.1%	0.2%	0.1%	0.0%					

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Lab Highway	Car	1991			0.0%	0.0%	0.8%	5.0%	34.2%	37.1%	15.7%	5.5%	0.9%	0.2%	0.6%	0.1%	0.0%					
Lab Highway	Car	1992			0.0%	0.0%	0.8%	4.4%	35.8%	39.8%	10.5%	6.0%	1.6%	0.3%	0.5%	0.0%	0.2%					
Lab Highway	Car	1993			0.0%	0.0%	1.5%	6.0%	27.9%	40.0%	16.2%	5.9%	1.6%	0.2%	0.5%	0.0%	0.1%					
Lab Highway	Car	1994				0.0%	0.8%	4.3%	28.7%	41.7%	13.5%	8.5%	1.5%	0.2%	0.5%		0.1%					
Lab Highway	Car	1995			0.0%	0.0%	0.6%	2.4%	21.3%	50.5%	14.8%	8.2%	1.5%	0.3%	0.3%		0.0%					
Lab Highway	Car	1996				0.0%	0.4%	3.0%	29.1%	45.2%	12.1%	7.7%	2.0%	0.1%	0.3%							
Lab Highway	Car	1997				0.0%	0.4%	2.6%	26.3%	43.8%	19.0%	6.3%	1.1%	0.2%	0.2%							
Lab Highway	Car	1998				0.0%	0.1%	5.3%	16.1%	50.8%	17.3%	9.4%	0.6%	0.0%	0.3%							
Lab Highway	Car	1999				0.0%	0.0%	5.1%	17.6%	56.4%	14.1%	5.9%	0.6%	0.0%	0.2%							
Lab Highway	Car	2000				0.0%	0.7%	5.9%	17.9%	55.0%	15.7%	4.0%	0.5%	0.1%	0.1%					0.1%		
Lab Highway	Car	2001				0.0%	0.6%	6.0%	27.3%	40.3%	16.0%	6.6%	2.8%	0.3%	0.1%		0.0%			0.0%		
Lab Highway	Car	2002				0.0%	0.6%	4.1%	22.6%	43.9%	19.4%	6.7%	2.0%	0.5%	0.2%		0.0%			0.0%		
Lab Highway	Car	2003				0.0%	0.1%	3.9%	23.1%	38.2%	25.3%	7.8%	0.7%	0.3%	0.6%		0.0%			0.0%		
Lab Highway	Car	2004				0.0%	0.1%	5.1%	22.5%	39.5%	23.3%	8.0%	0.4%	0.2%	0.9%		0.0%		0.0%			
Lab Highway	Car	2005				0.0%	0.1%	3.2%	23.1%	33.0%	29.7%	8.5%	0.5%	0.2%	1.7%		0.0%		0.0%			
Lab Highway	Car	2006				0.0%	0.3%	3.1%	23.9%	37.3%	24.4%	5.9%	3.6%	0.0%	1.4%		0.0%		0.0%			
Lab Highway	Car	2007				0.0%	0.2%	2.4%	21.6%	32.8%	26.6%	10.9%	3.3%		2.1%							
Lab Highway	Car	2008				0.0%	0.2%	2.4%	18.7%	33.4%	26.4%	12.4%	3.7%	0.3%	2.5%							
Lab Highway	Car	2009				0.0%	0.1%	1.8%	12.0%	25.9%	33.0%	20.8%	4.0%	0.8%	1.6%							
Lab Highway	Car	2010				0.0%	0.1%	0.7%	14.3%	20.5%	24.0%	29.7%	5.4%	0.9%	0.7%	3.6%						
Lab Highway	Car	2011					0.1%	0.7%	9.9%	25.2%	21.1%	31.3%	8.1%	1.3%	0.4%	1.9%						
Lab Highway	Car	2012				0.0%	0.1%	0.6%	5.9%	13.8%	24.4%	27.7%	18.0%	6.2%	0.6%	2.7%						
Lab Highway	Truck	1975		0.0%	38.8%	38.9%	12.1%	7.7%	2.5%													
Lab Highway	Truck	1976			32.8%	42.7%	15.9%	3.9%	4.7%													
Lab Highway	Truck	1977			18.5%	45.6%	22.0%	5.0%	7.7%	1.3%												
Lab Highway	Truck	1978			31.4%	37.1%	19.0%	5.3%	6.3%	0.9%												
Lab Highway	Truck	1979		0.6%	33.4%	37.0%	16.9%	7.7%	2.3%	1.9%												
Lab Highway	Truck	1980			3.2%	31.8%	33.5%	14.4%	12.8%	3.8%		0.5%	0.1%									
Lab Highway	Truck	1981			0.5%	14.5%	48.1%	16.2%	11.6%	5.8%	1.9%	0.7%	0.7%									
Lab Highway	Truck	1982			2.2%	14.0%	38.0%	18.4%	18.5%	6.7%	1.6%	0.6%										
Lab Highway	Truck	1983			0.8%	13.2%	34.0%	21.4%	20.5%	7.8%	1.5%	0.8%										
Lab Highway	Truck	1984			0.9%	12.6%	33.5%	27.1%	15.0%	9.9%	0.6%	0.3%										
Lab Highway	Truck	1985			0.3%	21.1%	21.0%	30.3%	22.0%	3.8%	1.3%	0.1%										
Lab Highway	Truck	1986			0.2%	12.6%	23.6%	35.2%	21.2%	7.1%	0.1%	0.1%										
Lab Highway	Truck	1987			0.1%	9.3%	21.4%	39.1%	23.0%	7.0%	0.0%	0.0%										
Lab Highway	Truck	1988			0.1%	7.6%	31.5%	33.2%	19.1%	8.5%												

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Lab Highway	Truck	1989			0.4%	5.4%	33.6%	39.1%	17.3%	4.3%												
Lab Highway	Truck	1990			0.5%	5.0%	36.2%	38.2%	15.6%	4.5%												
Lab Highway	Truck	1991			0.1%	3.4%	28.4%	47.6%	17.8%	2.7%												
Lab Highway	Truck	1992			0.1%	2.0%	38.2%	37.2%	18.2%	4.3%												
Lab Highway	Truck	1993			0.1%	0.9%	31.0%	44.8%	19.9%	3.4%												
Lab Highway	Truck	1994				2.9%	36.9%	41.3%	16.9%	2.0%												
Lab Highway	Truck	1995				2.8%	43.1%	27.1%	21.7%	5.2%												
Lab Highway	Truck	1996				2.3%	38.0%	30.6%	26.3%	2.7%												
Lab Highway	Truck	1997				0.6%	40.6%	37.9%	16.6%	4.3%												
Lab Highway	Truck	1998					33.9%	35.5%	28.3%	2.3%	0.0%											
Lab Highway	Truck	1999				0.2%	41.5%	35.7%	21.2%	1.3%												
Lab Highway	Truck	2000				0.1%	38.3%	37.3%	23.7%	0.6%	0.0%											
Lab Highway	Truck	2001				0.1%	46.3%	30.4%	22.4%	0.7%												
Lab Highway	Truck	2002				0.9%	47.2%	33.1%	18.1%	0.7%												
Lab Highway	Truck	2003				0.0%	38.4%	36.3%	24.4%	0.8%												
Lab Highway	Truck	2004				0.1%	43.5%	35.2%	20.8%	0.4%												
Lab Highway	Truck	2005				0.1%	33.7%	38.2%	25.4%	2.6%												
Lab Highway	Truck	2006				0.0%	30.0%	40.8%	24.3%	4.9%												
Lab Highway	Truck	2007				0.1%	19.7%	49.3%	25.3%	5.5%	0.0%											
Lab Highway	Truck	2008				0.1%	15.4%	45.9%	28.8%	9.7%	0.1%											
Lab Highway	Truck	2009				0.0%	9.0%	39.1%	36.0%	15.8%	0.2%											
Lab Highway	Truck	2010				0.0%	11.0%	37.0%	35.2%	15.3%	1.5%											
Lab Highway	Truck	2011				0.2%	6.4%	36.8%	35.9%	18.2%	2.4%											
Lab Highway	Truck	2012				0.0%	6.0%	34.2%	33.9%	21.0%	5.0%											
Adjusted Composite	All	1975		10.7%	56.3%	22.7%	7.8%	2.5%														
Adjusted Composite	All	1976		2.8%	59.4%	22.8%	11.5%	3.0%	0.5%													
Adjusted Composite	All	1977		0.9%	48.4%	33.3%	10.0%	5.5%	1.2%	0.7%												
Adjusted Composite	All	1978		0.9%	36.2%	41.7%	12.5%	5.6%	2.8%	0.3%												
Adjusted Composite	All	1979		3.2%	31.9%	41.8%	15.5%	6.5%	0.8%	0.3%												
Adjusted Composite	All	1980		0.0%	11.4%	43.6%	30.7%	10.8%	2.3%	1.0%	0.2%											
Adjusted Composite	All	1981	0.0%	0.0%	6.1%	40.2%	30.6%	16.4%	4.6%	1.3%	0.7%											
Adjusted Composite	All	1982		0.0%	4.5%	33.9%	30.1%	24.0%	5.8%	1.1%	0.6%											
Adjusted Composite	All	1983		0.0%	4.9%	35.3%	28.9%	21.4%	7.6%	1.5%	0.3%	0.0%										
Adjusted Composite	All	1984		0.0%	5.8%	30.7%	31.2%	25.1%	4.4%	2.3%	0.3%	0.1%										
Adjusted Composite	All	1985		0.0%	7.0%	30.7%	28.6%	26.4%	5.5%	1.1%	0.3%	0.3%										
Adjusted Composite	All	1986		0.0%	5.7%	23.6%	35.6%	27.8%	5.3%	1.4%	0.2%	0.2%	0.1%	0.2%								

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Adjusted Composite	All	1987		0.0%	4.9%	23.3%	38.2%	25.8%	6.3%	1.1%	0.0%	0.2%	0.1%									
Adjusted Composite	All	1988		0.0%	5.4%	25.7%	35.1%	26.0%	5.7%	1.8%	0.0%	0.2%	0.1%									
Adjusted Composite	All	1989		0.0%	5.8%	26.4%	39.7%	22.1%	4.3%	1.3%	0.0%	0.2%	0.1%									
Adjusted Composite	All	1990		0.1%	6.6%	26.4%	41.3%	21.2%	3.7%	0.5%	0.1%	0.2%	0.0%									
Adjusted Composite	All	1991		0.0%	5.2%	29.7%	40.7%	19.3%	4.0%	0.6%	0.4%	0.1%	0.0%									
Adjusted Composite	All	1992		0.0%	6.2%	28.5%	44.9%	15.2%	3.4%	1.1%	0.5%	0.1%	0.1%									
Adjusted Composite	All	1993		0.0%	4.8%	33.2%	40.6%	16.3%	3.5%	1.0%	0.4%	0.0%	0.1%									
Adjusted Composite	All	1994			8.8%	34.7%	37.5%	14.6%	3.0%	0.9%	0.4%	0.0%	0.1%									
Adjusted Composite	All	1995		0.0%	9.0%	31.5%	38.6%	16.0%	4.4%	0.3%	0.3%	0.0%										
Adjusted Composite	All	1996			8.3%	31.1%	44.1%	12.8%	3.2%	0.3%	0.2%											
Adjusted Composite	All	1997			7.8%	35.7%	39.6%	14.2%	2.5%	0.1%	0.1%											
Adjusted Composite	All	1998			9.8%	33.9%	39.4%	14.8%	1.9%	0.1%	0.2%											
Adjusted Composite	All	1999			10.1%	34.7%	41.7%	12.4%	0.9%	0.1%	0.1%											
Adjusted Composite	All	2000		0.0%	7.1%	38.0%	43.3%	10.5%	0.9%	0.1%	0.1%			0.0%								
Adjusted Composite	All	2001		0.0%	9.8%	37.4%	38.1%	10.7%	3.8%	0.1%	0.2%	0.0%		0.0%								
Adjusted Composite	All	2002			8.9%	39.0%	39.4%	9.3%	3.0%	0.1%	0.2%	0.0%		0.0%								
Adjusted Composite	All	2003		0.0%	11.1%	35.0%	39.1%	12.2%	2.1%	0.0%	0.4%	0.0%	0.0%									
Adjusted Composite	All	2004			12.3%	38.1%	35.0%	13.0%	1.1%	0.1%	0.1%	0.3%	0.0%									
Adjusted Composite	All	2005		0.0%	9.3%	37.5%	33.6%	15.4%	3.2%	0.1%	0.2%	0.8%	0.0%									
Adjusted Composite	All	2006		0.0%	6.0%	38.8%	36.6%	13.1%	4.7%	0.0%	0.2%	0.6%	0.0%									
Adjusted Composite	All	2007			4.3%	38.8%	32.3%	17.5%	5.9%		0.2%	1.0%										
Adjusted Composite	All	2008			4.1%	35.5%	35.4%	18.1%	5.4%	0.2%	0.2%	1.2%										
Adjusted Composite	All	2009			1.0%	26.0%	35.6%	25.2%	10.9%	0.2%	0.2%	0.9%										
Adjusted Composite	All	2010			1.2%	26.5%	33.7%	25.0%	10.0%	0.9%	0.5%	2.3%										
Adjusted Composite	All	2011			1.6%	27.7%	35.6%	25.7%	7.4%	0.7%	0.2%	1.1%										
Adjusted Composite	All	2012			1.3%	21.5%	29.6%	26.2%	17.7%	1.2%	1.0%	1.6%										
Adjusted Highway	All	1975		4.1%	56.7%	19.9%	12.3%	4.8%	2.1%													
Adjusted Highway	All	1976		1.3%	44.6%	34.7%	9.2%	7.0%	3.1%													
Adjusted Highway	All	1977		0.5%	28.8%	49.4%	8.4%	6.7%	4.6%	1.1%	0.4%											
Adjusted Highway	All	1978		0.2%	21.0%	50.7%	14.1%	8.2%	4.1%	1.4%	0.3%											
Adjusted Highway	All	1979		2.4%	16.8%	52.3%	15.8%	8.9%	3.2%	0.5%	0.1%											
Adjusted Highway	All	1980		0.0%	5.3%	31.9%	32.4%	21.0%	7.8%	0.7%	1.0%											
Adjusted Highway	All	1981		0.0%	2.1%	21.2%	36.2%	24.5%	11.7%	2.8%	0.8%	0.6%										
Adjusted Highway	All	1982		0.0%	2.6%	15.8%	33.1%	29.1%	13.5%	4.6%	0.7%	0.6%										
Adjusted Highway	All	1983		0.0%	2.3%	14.6%	36.5%	26.8%	13.0%	5.5%	1.2%	0.2%										
Adjusted Highway	All	1984		0.0%	2.9%	12.1%	36.2%	22.2%	21.4%	3.5%	1.3%	0.2%	0.1%									

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Adjusted Highway	All	1985		0.0%	2.9%	8.5%	40.9%	22.8%	18.1%	5.1%	1.2%	0.1%	0.3%									
Adjusted Highway	All	1986		0.0%	1.6%	9.9%	29.7%	39.3%	14.5%	3.3%	1.2%	0.2%	0.0%	0.2%								
Adjusted Highway	All	1987		0.0%	2.2%	7.1%	28.8%	33.7%	23.2%	3.7%	0.8%	0.2%		0.1%								
Adjusted Highway	All	1988			2.2%	10.8%	25.2%	40.0%	16.8%	4.1%	0.7%	0.1%	0.1%	0.1%								
Adjusted Highway	All	1989			1.5%	12.3%	24.6%	45.3%	12.8%	2.7%	0.5%	0.0%	0.2%									
Adjusted Highway	All	1990			1.0%	13.0%	25.4%	47.5%	9.9%	2.5%	0.5%	0.2%	0.0%	0.0%								
Adjusted Highway	All	1991			0.8%	12.9%	28.5%	40.3%	14.2%	2.5%	0.4%	0.4%	0.1%	0.0%								
Adjusted Highway	All	1992			0.6%	14.5%	28.1%	41.6%	10.9%	3.3%	0.4%	0.3%	0.1%	0.1%								
Adjusted Highway	All	1993			0.3%	16.8%	28.0%	37.7%	13.3%	3.2%	0.4%	0.3%	0.0%	0.1%								
Adjusted Highway	All	1994			0.3%	20.6%	27.5%	36.1%	12.2%	2.7%	0.1%	0.3%	0.0%	0.1%								
Adjusted Highway	All	1995			0.9%	20.2%	25.1%	38.0%	10.9%	4.6%	0.2%	0.2%	0.0%									
Adjusted Highway	All	1996			0.8%	18.9%	25.1%	41.7%	10.5%	2.7%	0.2%	0.2%										
Adjusted Highway	All	1997			0.2%	23.8%	24.9%	35.8%	12.5%	2.5%	0.1%	0.1%										
Adjusted Highway	All	1998			0.0%	23.9%	24.6%	37.3%	12.3%	1.7%	0.1%	0.2%										
Adjusted Highway	All	1999			0.1%	28.4%	21.7%	39.0%	9.9%	0.7%	0.1%	0.1%										
Adjusted Highway	All	2000			0.1%	28.6%	22.1%	40.1%	7.9%	0.9%	0.1%	0.1%			0.0%							
Adjusted Highway	All	2001			0.9%	28.7%	24.0%	35.1%	8.4%	2.6%	0.3%		0.0%		0.0%							
Adjusted Highway	All	2002			0.6%	32.9%	21.2%	35.5%	7.5%	2.0%	0.3%	0.0%	0.0%		0.0%							
Adjusted Highway	All	2003			1.1%	30.2%	26.5%	32.6%	8.6%	0.6%	0.4%	0.1%	0.0%		0.0%							
Adjusted Highway	All	2004			0.2%	31.6%	29.1%	27.2%	10.7%	0.7%	0.2%	0.3%		0.0%								
Adjusted Highway	All	2005			0.1%	24.3%	33.1%	26.5%	14.7%	0.4%	0.2%	0.8%		0.0%								
Adjusted Highway	All	2006			0.1%	23.9%	31.7%	29.3%	12.1%	2.1%		0.8%		0.0%								
Adjusted Highway	All	2007			0.1%	23.4%	29.5%	24.5%	18.5%	2.8%		1.3%										
Adjusted Highway	All	2008			0.1%	19.3%	29.8%	29.8%	17.2%	2.2%	0.2%	1.5%										
Adjusted Highway	All	2009			0.0%	11.8%	24.8%	29.4%	29.5%	3.2%	0.2%	1.1%										
Adjusted Highway	All	2010			0.0%	10.6%	28.6%	26.4%	27.6%	3.5%	1.0%	2.3%										
Adjusted Highway	All	2011			0.1%	8.6%	29.3%	29.7%	25.3%	5.2%	0.6%	1.1%										
Adjusted Highway	All	2012			0.0%	6.7%	22.6%	27.2%	26.9%	13.2%	1.8%	1.6%										
Adjusted City	All	1975		22.3%	52.3%	19.0%	6.3%	0.2%														
Adjusted City	All	1976		6.8%	61.1%	21.1%	9.0%	2.0%														
Adjusted City	All	1977		4.9%	62.0%	19.6%	7.5%	4.5%	1.0%	0.4%												
Adjusted City	All	1978		2.3%	50.9%	29.4%	10.3%	5.6%	1.2%	0.3%												
Adjusted City	All	1979		4.1%	47.8%	31.6%	13.2%	2.8%	0.3%	0.3%												
Adjusted City	All	1980		0.1%	22.2%	42.7%	26.2%	6.8%	1.0%	1.0%												
Adjusted City	All	1981	0.0%	0.0%	15.8%	42.8%	26.9%	10.4%	3.3%	0.8%												
Adjusted City	All	1982		0.1%	13.7%	37.6%	33.4%	10.9%	2.8%	1.2%	0.2%											

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Adjusted City	All	1983		0.0%	18.5%	37.6%	23.7%	14.6%	4.7%	0.7%	0.1%											
Adjusted City	All	1984		0.2%	15.2%	39.1%	28.8%	11.8%	4.0%	0.7%	0.1%	0.1%										
Adjusted City	All	1985		0.0%	9.2%	46.1%	28.9%	11.0%	3.9%	0.6%	0.0%	0.3%										
Adjusted City	All	1986		0.1%	9.1%	42.5%	32.9%	11.5%	2.4%	0.9%	0.4%	0.0%	0.2%									
Adjusted City	All	1987		0.0%	7.4%	42.8%	32.1%	15.3%	1.3%	0.7%	0.2%		0.1%									
Adjusted City	All	1988		0.0%	10.4%	41.2%	32.4%	12.9%	1.5%	1.3%	0.2%	0.1%	0.1%									
Adjusted City	All	1989		0.0%	10.9%	46.9%	29.2%	11.0%	0.9%	0.8%	0.1%	0.2%										
Adjusted City	All	1990		0.1%	11.1%	48.0%	30.6%	8.0%	1.7%	0.1%	0.2%	0.0%	0.0%									
Adjusted City	All	1991		0.0%	11.2%	49.8%	29.8%	7.1%	1.5%	0.1%	0.4%	0.1%	0.0%									
Adjusted City	All	1992		0.0%	16.4%	51.4%	24.5%	5.3%	1.5%	0.2%	0.4%	0.1%										
Adjusted City	All	1993		0.0%	16.4%	48.2%	27.1%	6.6%	1.1%	0.2%	0.4%	0.1%										
Adjusted City	All	1994		0.0%	18.6%	48.9%	26.4%	4.7%	0.9%	0.1%	0.3%	0.1%										
Adjusted City	All	1995		0.0%	18.9%	49.8%	23.8%	6.2%	1.0%	0.2%	0.2%											
Adjusted City	All	1996		0.0%	18.7%	51.2%	22.7%	6.3%	0.7%	0.1%	0.2%											
Adjusted City	All	1997		0.0%	22.2%	46.6%	25.2%	5.1%	0.7%	0.1%												
Adjusted City	All	1998		0.0%	21.1%	49.3%	22.9%	6.4%	0.2%	0.2%												
Adjusted City	All	1999		0.0%	25.9%	49.8%	19.5%	4.6%	0.0%	0.1%												
Adjusted City	All	2000		0.0%	26.3%	50.5%	20.0%	2.9%	0.2%	0.1%			0.0%									
Adjusted City	All	2001		0.0%	28.2%	50.0%	16.6%	4.8%	0.2%	0.1%	0.1%	0.0%	0.0%									
Adjusted City	All	2002		0.0%	31.0%	47.1%	17.7%	3.9%	0.0%	0.1%	0.1%	0.0%	0.0%									
Adjusted City	All	2003		0.0%	29.4%	47.7%	18.0%	4.4%	0.0%	0.2%	0.2%	0.0%										
Adjusted City	All	2004		0.0%	35.6%	43.8%	16.1%	3.9%	0.1%	0.1%		0.3%										
Adjusted City	All	2005		0.0%	28.8%	47.5%	17.5%	5.0%	0.1%	0.2%		0.8%										
Adjusted City	All	2006		0.0%	26.7%	49.3%	16.9%	6.1%	0.2%		0.2%	0.6%										
Adjusted City	All	2007		0.0%	25.6%	44.2%	22.0%	6.3%	0.5%	0.0%	0.2%	1.0%										
Adjusted City	All	2008		0.0%	23.1%	46.1%	22.4%	6.3%	0.5%	0.1%	0.2%	1.2%										
Adjusted City	All	2009		0.0%	14.7%	40.9%	29.8%	12.5%	0.8%	0.1%	0.2%	0.9%										
Adjusted City	All	2010		0.0%	15.0%	37.1%	32.1%	12.3%	0.3%	0.2%	0.8%		2.3%									
Adjusted City	All	2011		0.0%	15.3%	40.1%	34.1%	8.5%	0.5%	0.1%	0.4%		1.1%									
Adjusted City	All	2012		0.0%	10.7%	35.1%	31.6%	18.4%	1.1%	0.3%	1.2%		1.6%									
Lab 55/45	All	1975		0.5%	51.8%	26.9%	13.7%	5.1%	2.0%													
Lab 55/45	All	1976		0.0%	34.1%	42.3%	11.8%	8.8%	2.5%	0.5%												
Lab 55/45	All	1977		0.1%	23.2%	51.8%	10.1%	8.2%	4.8%	0.8%	1.1%											
Lab 55/45	All	1978		0.0%	17.6%	45.1%	19.8%	9.9%	4.5%	2.6%	0.4%											
Lab 55/45	All	1979		0.3%	14.9%	43.8%	23.2%	11.5%	5.1%	0.8%	0.2%	0.1%										
Lab 55/45	All	1980		0.0%	3.0%	24.1%	36.3%	23.2%	10.1%	1.7%	1.5%	0.2%										

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Lab 55/45	All	1981	0.0%		1.3%	16.8%	35.4%	24.7%	14.6%	4.7%	1.6%	0.8%										
Lab 55/45	All	1982		0.0%	1.6%	18.7%	27.2%	26.5%	18.0%	5.7%	1.5%	0.6%	0.2%									
Lab 55/45	All	1983		0.0%	1.6%	17.0%	33.3%	19.3%	18.5%	8.1%	1.7%	0.5%	0.1%									
Lab 55/45	All	1984		0.0%	1.8%	14.2%	34.3%	22.3%	19.3%	5.3%	2.1%	0.5%	0.2%	0.1%								
Lab 55/45	All	1985		0.0%	1.8%	8.7%	41.7%	15.7%	24.3%	5.9%	0.9%	0.6%	0.0%	0.3%								
Lab 55/45	All	1986		0.0%	0.8%	9.7%	30.3%	31.5%	18.9%	6.1%	1.3%	1.1%	0.2%	0.0%	0.1%	0.2%						
Lab 55/45	All	1987		0.0%	0.8%	7.7%	30.0%	28.7%	24.7%	6.4%	0.7%	0.7%	0.2%	0.0%	0.1%	0.1%						
Lab 55/45	All	1988		0.0%	0.7%	11.4%	24.4%	29.9%	25.1%	5.6%	1.4%	1.1%	0.1%	0.0%	0.1%	0.1%						
Lab 55/45	All	1989		0.0%	0.9%	11.0%	27.0%	33.7%	20.6%	5.0%	0.8%	0.8%		0.2%	0.1%							
Lab 55/45	All	1990			1.0%	11.2%	24.9%	39.7%	17.5%	4.5%	0.7%	0.1%	0.0%	0.2%		0.0%						
Lab 55/45	All	1991			0.4%	9.8%	30.5%	34.8%	17.3%	5.2%	1.4%	0.1%	0.1%	0.4%		0.0%						
Lab 55/45	All	1992			0.4%	13.5%	32.6%	32.5%	14.5%	4.6%	1.1%	0.2%	0.4%	0.1%		0.1%						
Lab 55/45	All	1993			0.1%	13.6%	27.8%	36.4%	15.6%	4.8%	1.1%	0.1%	0.1%	0.3%		0.1%						
Lab 55/45	All	1994			0.0%	15.6%	32.6%	32.0%	14.2%	4.0%	0.8%	0.2%	0.1%	0.3%		0.1%						
Lab 55/45	All	1995			0.1%	17.7%	25.2%	35.7%	13.7%	6.2%	0.9%	0.3%	0.3%	0.0%								
Lab 55/45	All	1996			0.4%	14.7%	29.2%	34.7%	13.9%	5.9%	0.8%	0.2%	0.2%									
Lab 55/45	All	1997			0.0%	17.3%	29.5%	31.5%	14.6%	6.1%	0.7%	0.1%	0.1%									
Lab 55/45	All	1998			0.0%	15.0%	30.8%	34.3%	12.9%	6.6%	0.2%	0.1%	0.2%									
Lab 55/45	All	1999			0.0%	18.4%	29.3%	35.7%	10.7%	5.7%	0.1%	0.0%	0.1%									
Lab 55/45	All	2000			0.0%	16.7%	30.8%	36.1%	11.5%	4.5%	0.2%	0.0%	0.1%					0.0%				
Lab 55/45	All	2001			0.0%	19.0%	28.8%	33.4%	12.9%	4.7%	0.9%	0.0%	0.1%	0.1%		0.0%		0.0%				
Lab 55/45	All	2002			0.0%	22.7%	26.5%	31.8%	14.1%	4.0%	0.6%	0.0%	0.1%	0.1%		0.0%		0.0%				
Lab 55/45	All	2003			0.0%	21.1%	27.3%	31.1%	14.3%	5.0%	0.8%	0.0%	0.1%	0.3%		0.0%		0.0%				
Lab 55/45	All	2004			0.0%	21.8%	29.4%	29.3%	13.3%	5.1%	0.5%	0.1%		0.1%		0.3%	0.0%					
Lab 55/45	All	2005			0.0%	18.1%	28.8%	29.9%	15.0%	6.4%	0.6%	0.1%		0.2%		0.8%	0.0%					
Lab 55/45	All	2006			0.0%	14.8%	30.0%	30.8%	15.7%	7.1%	0.7%	0.0%		0.2%		0.6%	0.0%					
Lab 55/45	All	2007			0.0%	11.6%	32.8%	27.2%	16.4%	8.8%	1.5%	0.5%		0.2%		1.0%						
Lab 55/45	All	2008			0.0%	9.1%	31.7%	30.2%	16.2%	9.5%	1.4%	0.4%		0.2%		1.2%						
Lab 55/45	All	2009			0.0%	4.7%	23.3%	28.7%	24.8%	11.3%	5.2%	0.9%		0.2%		0.9%						
Lab 55/45	All	2010			0.0%	6.4%	22.3%	24.4%	23.4%	17.9%	1.6%	0.9%	0.3%	0.5%			2.3%					
Lab 55/45	All	2011			0.0%	4.7%	24.7%	25.9%	27.7%	11.8%	2.9%	0.6%	0.3%	0.2%			1.1%					
Lab 55/45	All	2012			0.0%	3.5%	19.1%	22.4%	24.4%	12.5%	13.9%	1.0%	0.6%	0.8%	0.1%		1.6%					
Lab City	All	1975		7.9%	56.1%	25.3%	8.6%	2.0%														
Lab City	All	1976		1.4%	52.5%	32.2%	9.6%	3.9%	0.5%													
Lab City	All	1977		0.7%	43.7%	38.1%	9.4%	6.2%	0.8%	1.1%												
Lab City	All	1978		0.5%	34.7%	43.5%	12.5%	5.1%	2.7%	1.0%												

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Lab City	All	1979		1.6%	27.8%	46.6%	13.6%	8.6%	1.3%	0.2%	0.1%											
Lab City	All	1980		0.0%	9.6%	42.0%	31.7%	11.3%	3.7%	0.7%	1.0%											
Lab City	All	1981	0.0%	0.0%	4.5%	40.7%	27.0%	19.5%	5.3%	2.1%	0.8%											
Lab City	All	1982		0.0%	4.0%	31.9%	31.1%	22.4%	8.0%	1.5%	0.7%	0.2%										
Lab City	All	1983		0.0%	3.3%	37.4%	26.9%	19.8%	10.2%	1.9%	0.4%	0.1%										
Lab City	All	1984		0.0%	4.0%	31.9%	31.3%	24.0%	6.0%	2.0%	0.6%	0.1%	0.1%									
Lab City	All	1985		0.0%	6.7%	31.8%	25.9%	27.4%	6.2%	1.1%	0.6%	0.0%	0.3%									
Lab City	All	1986		0.0%	2.4%	28.3%	35.7%	23.9%	6.9%	1.3%	0.9%	0.3%	0.0%	0.1%	0.2%							
Lab City	All	1987		0.0%	3.5%	25.1%	34.5%	26.7%	8.5%	0.7%	0.7%	0.2%		0.1%								
Lab City	All	1988		0.0%	4.0%	28.4%	29.9%	26.7%	8.4%	1.0%	1.3%	0.2%		0.1%								
Lab City	All	1989		0.0%	4.6%	27.0%	36.4%	24.2%	5.9%	0.8%	0.8%	0.0%	0.2%	0.1%								
Lab City	All	1990		0.0%	5.1%	27.0%	39.8%	20.8%	6.2%	0.7%	0.1%	0.0%	0.2%	0.0%								
Lab City	All	1991		0.0%	3.5%	30.3%	36.8%	21.1%	6.4%	1.2%	0.2%	0.4%	0.1%	0.0%								
Lab City	All	1992		0.0%	4.0%	33.9%	39.6%	15.4%	4.9%	1.5%	0.2%	0.4%	0.1%	0.1%								
Lab City	All	1993		0.0%	3.9%	32.1%	37.9%	19.4%	5.0%	1.1%	0.1%	0.1%	0.3%	0.1%								
Lab City	All	1994			5.4%	33.3%	37.2%	18.3%	4.2%	0.9%	0.2%	0.1%	0.3%	0.1%								
Lab City	All	1995		0.0%	5.7%	34.5%	34.8%	17.5%	6.2%	0.8%	0.3%	0.3%	0.0%									
Lab City	All	1996		0.0%	6.0%	33.8%	37.4%	15.5%	6.2%	0.8%	0.2%	0.2%										
Lab City	All	1997			6.6%	35.6%	34.0%	16.5%	6.4%	0.8%	0.1%	0.1%										
Lab City	All	1998			7.7%	33.4%	34.2%	17.9%	6.0%	0.6%	0.1%	0.1%										
Lab City	All	1999		0.0%	8.6%	34.3%	37.4%	14.1%	5.1%	0.3%	0.1%	0.1%										
Lab City	All	2000		0.0%	4.7%	36.6%	39.3%	14.4%	4.5%	0.2%	0.0%	0.1%				0.0%						
Lab City	All	2001		0.0%	5.7%	37.5%	36.4%	14.6%	4.5%	1.1%	0.0%	0.1%		0.1%	0.0%	0.0%						
Lab City	All	2002			3.3%	39.9%	35.5%	16.1%	4.4%	0.6%	0.0%	0.1%		0.1%	0.0%	0.0%						
Lab City	All	2003		0.0%	4.7%	36.9%	35.5%	16.9%	4.9%	0.6%	0.0%	0.1%	0.2%	0.1%	0.0%	0.0%						
Lab City	All	2004			4.7%	40.2%	34.5%	14.7%	4.9%	0.4%	0.1%	0.0%	0.1%		0.0%	0.3%						
Lab City	All	2005		0.0%	2.5%	36.6%	36.1%	17.1%	6.1%	0.5%	0.1%	0.0%	0.2%		0.0%	0.8%						
Lab City	All	2006		0.0%	1.7%	35.2%	38.4%	15.8%	7.1%	0.9%	0.0%		0.2%		0.0%	0.6%						
Lab City	All	2007			1.6%	34.7%	32.4%	19.4%	8.5%	1.5%	0.5%	0.0%	0.2%			1.0%						
Lab City	All	2008		0.0%	1.4%	31.3%	35.5%	18.9%	9.3%	1.6%	0.4%	0.2%	0.2%			1.2%						
Lab City	All	2009			0.6%	21.4%	29.8%	29.1%	14.3%	2.7%	0.7%	0.2%	0.2%			0.9%						
Lab City	All	2010		0.0%	0.3%	23.4%	26.8%	27.9%	15.8%	2.1%	0.3%	0.2%	0.5%	0.3%			2.3%					
Lab City	All	2011			0.5%	22.7%	31.0%	30.4%	10.3%	3.0%	0.2%	0.3%	0.1%	0.2%			1.1%					
Lab City	All	2012		0.0%	0.5%	16.7%	27.9%	25.7%	12.8%	13.1%	0.1%	0.5%		1.1%	0.1%		1.6%					
Lab Highway	All	1975		0.0%	14.8%	50.4%	14.6%	10.0%	6.5%	2.0%	1.6%											
Lab Highway	All	1976			7.5%	41.3%	30.9%	5.9%	9.5%	3.0%	2.0%											

MPG Variable	Car or Truck	Model Year	0 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 to 100
Lab Highway	All	1977			3.8%	34.7%	37.9%	8.4%	6.3%	4.5%	2.9%	1.0%	0.5%									
Lab Highway	All	1978			7.2%	19.3%	39.1%	15.9%	9.3%	4.4%	3.2%	1.4%	0.3%									
Lab Highway	All	1979		0.1%	7.5%	17.8%	39.6%	15.4%	10.1%	6.8%	2.3%	0.5%	0.1%									
Lab Highway	All	1980			0.5%	6.1%	20.5%	30.5%	24.8%	10.6%	5.2%	0.6%	0.9%	0.2%								
Lab Highway	All	1981		0.0%	0.1%	2.5%	17.4%	30.3%	23.2%	13.9%	8.5%	2.4%	0.5%	1.1%								
Lab Highway	All	1982			0.5%	2.8%	12.9%	24.2%	21.4%	24.5%	8.0%	3.9%	1.2%	0.8%								
Lab Highway	All	1983			0.2%	2.9%	11.6%	32.9%	19.2%	16.1%	10.5%	4.4%	1.6%	0.3%	0.1%							
Lab Highway	All	1984			0.2%	3.0%	9.7%	28.6%	23.2%	20.3%	9.9%	2.6%	1.5%	0.7%	0.1%	0.1%						
Lab Highway	All	1985			0.1%	5.2%	5.8%	23.1%	30.0%	17.8%	11.5%	4.3%	1.3%	0.6%	0.0%	0.3%						
Lab Highway	All	1986			0.1%	3.5%	7.1%	19.4%	26.3%	29.2%	9.4%	2.4%	2.0%	0.2%	0.2%		0.1%	0.2%				
Lab Highway	All	1987			0.0%	2.6%	6.3%	18.3%	29.8%	27.7%	10.2%	3.8%	0.8%	0.1%	0.2%		0.1%					
Lab Highway	All	1988			0.0%	2.2%	9.6%	15.6%	24.1%	32.1%	11.0%	3.3%	1.7%		0.1%	0.0%	0.1%					
Lab Highway	All	1989			0.1%	1.6%	10.5%	15.3%	26.4%	32.1%	9.1%	3.4%	1.2%	0.0%	0.0%	0.2%	0.1%					
Lab Highway	All	1990			0.2%	1.5%	11.1%	16.9%	26.1%	33.2%	7.3%	3.0%	0.5%	0.1%	0.2%	0.0%	0.0%					
Lab Highway	All	1991			0.0%	1.0%	9.2%	17.9%	29.2%	26.7%	10.9%	3.8%	0.6%	0.1%	0.4%	0.1%	0.0%					
Lab Highway	All	1992			0.0%	0.6%	12.5%	14.7%	30.3%	28.7%	7.2%	4.1%	1.1%	0.2%	0.3%	0.0%	0.1%					
Lab Highway	All	1993			0.0%	0.3%	11.0%	18.6%	25.3%	28.1%	11.0%	4.0%	1.1%	0.2%	0.3%	0.0%	0.1%					
Lab Highway	All	1994				1.1%	14.5%	18.4%	24.2%	26.6%	8.4%	5.3%	0.9%	0.1%	0.3%		0.1%					

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix D Fuel Economy Data Stratified by Vehicle Type

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG (Lab 55/45)	Cu-Ft -MPG (Lab 55/45)	Cu-Ft-Ton-MPG (Lab 55/45)	Drivetrain	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Car	Car	1975	7274	0.711	15.8	12.3	15.1	13.4	4071		293	137	14.1	0.506	0.0333	32.4			6.5%	
Car	Car	1976	8685	0.704	17.5	13.7	16.6	14.9	4044		288	134	14.4	0.500	0.0326	35.4			6.0%	
Car	Car	1977	10027	0.710	18.4	14.4	17.4	15.6	3936	106.9	281	134	13.9	0.516	0.0337	36.4	2031	3894	6.8%	
Car	Car	1978	10018	0.693	20.0	15.6	19.2	17.0	3572	106.0	252	124	13.6	0.537	0.0344	35.9	2193	3816	9.9%	
Car	Car	1979	9727	0.701	20.3	16.0	19.3	17.3	3468	105.9	239	120	13.7	0.546	0.0341	35.4	2210	3770	12.8%	
Car	Car	1980	8774	0.776	23.5	18.3	22.6	20.0	3092	102.4	188	101	14.2	0.584	0.0324	36.5	2462	3756	31.1%	0.6%
Car	Car	1981	7935	0.752	25.1	19.5	24.2	21.4	3079	104.5	184	99	14.3	0.589	0.0321	38.9	2689	4081	36.5%	0.4%
Car	Car	1982	7007	0.720	26.1	20.1	25.6	22.3	3039	103.4	175	99	14.3	0.610	0.0322	40.1	2779	4161	46.1%	0.4%
Car	Car	1983	7066	0.686	25.7	19.8	25.4	22.0	3121	106.7	185	105	13.9	0.613	0.0334	40.5	2835	4331	48.1%	0.5%
Car	Car	1984	9672	0.690	26.3	20.2	26.0	22.4	3091	105.1	180	106	13.7	0.636	0.0341	41.0	2843	4309	52.8%	0.4%
Car	Car	1985	9807	0.678	26.9	20.6	26.7	23.0	3091	106.0	179	112	13.2	0.670	0.0358	41.9	2928	4448	62.3%	0.1%
Car	Car	1986	10136	0.660	28.0	21.3	27.7	23.8	3026	105.0	168	111	13.1	0.702	0.0363	42.6	3006	4479	71.2%	0.3%
Car	Car	1987	9923	0.668	28.2	21.3	27.8	23.9	3013	104.4	162	113	13.0	0.732	0.0367	42.7	3001	4460	77.5%	0.3%
Car	Car	1988	10122	0.662	28.6	21.5	28.3	24.2	3035	105.4	160	116	12.7	0.759	0.0376	43.7	3083	4615	82.2%	0.4%
Car	Car	1989	9558	0.661	28.2	20.9	27.9	23.8	3088	106.4	162	121	12.4	0.784	0.0388	43.7	3052	4659	83.1%	0.6%
Car	Car	1990	8434	0.669	27.8	20.5	27.5	23.4	3167	105.8	163	129	12.1	0.830	0.0402	44.2	2987	4687	85.3%	0.4%
Car	Car	1991	8158	0.649	28.0	20.5	27.6	23.4	3147	105.6	163	133	11.8	0.852	0.0415	44.2	3007	4680	83.8%	0.9%
Car	Car	1992	7800	0.641	27.6	20.0	27.5	23.1	3234	107.3	170	141	11.5	0.868	0.0429	44.8	3011	4819	81.2%	0.7%
Car	Car	1993	7971	0.603	28.1	20.2	27.8	23.4	3210	107.1	167	140	11.5	0.868	0.0429	45.3	3059	4859	85.3%	0.6%
Car	Car	1994	8055	0.570	28.0	20.0	27.7	23.2	3251	107.2	168	143	11.4	0.885	0.0434	45.7	3049	4900	84.4%	0.2%
Car	Car	1995	9011	0.595	28.3	19.9	28.1	23.4	3266	107.8	168	154	10.8	0.948	0.0463	46.3	3098	4998	82.2%	0.6%
Car	Car	1996	7622	0.580	28.3	19.8	28.0	23.4	3276	108.2	166	154	10.8	0.958	0.0465	46.5	3106	5036	87.2%	0.6%
Car	Car	1997	8037	0.556	28.4	19.8	28.0	23.4	3274	108.0	164	157	10.7	0.975	0.0471	46.6	3104	5039	87.3%	0.6%
Car	Car	1998	7720	0.534	28.5	19.7	28.0	23.4	3304	108.0	164	159	10.6	0.991	0.0476	47.3	3122	5115	88.2%	0.8%
Car	Car	1999	8117	0.534	28.2	19.4	27.5	23.0	3362	108.4	166	164	10.5	1.007	0.0482	47.5	3088	5157	88.3%	0.9%
Car	Car	2000	8823	0.532	28.2	19.3	27.3	22.9	3366	108.9	166	168	10.3	1.030	0.0493	47.6	3103	5188	85.8%	0.9%
Car	Car	2001	7957	0.510	28.5	19.4	27.5	23.1	3366	108.3	165	169	10.3	1.039	0.0495	48.3	3142	5239	85.1%	1.6%
Car	Car	2002	7857	0.488	28.8	19.5	27.4	23.2	3379	109.1	166	173	10.1	1.063	0.0507	48.9	3190	5342	86.0%	2.3%
Car	Car	2003	7412	0.470	29.0	19.5	27.6	23.3	3416	108.8	167	178	10.0	1.081	0.0514	49.9	3212	5438	82.6%	2.0%
Car	Car	2004	6981	0.444	29.0	19.3	27.6	23.2	3444	108.8	170	182	9.8	1.095	0.0522	50.4	3227	5496	82.0%	3.2%
Car	Car	2005	7305	0.460	29.7	19.7	27.9	23.6	3444	109.6	167	181	9.8	1.104	0.0519	51.8	3353	5703	81.6%	3.5%
Car	Car	2006	7178	0.475	29.3	19.4	27.7	23.4	3526	109.5	174	195	9.5	1.137	0.0543	52.5	3311	5770	76.7%	3.9%
Car	Car	2007	7472	0.489	30.5	20.2	28.5	24.2	3503	109.1	167	190	9.6	1.152	0.0533	54.4	3454	5961	80.9%	4.5%
Car	Car	2008	6749	0.486	30.6	20.2	28.6	24.3	3530	109.0	167	195	9.5	1.175	0.0540	55.1	3471	6025	78.3%	5.7%
Car	Car	2009	5140	0.552	32.0	21.2	29.7	25.3	3478	109.3	157	187	9.7	1.188	0.0526	56.7	3623	6212	82.9%	5.3%
Car	Car	2010	5600	0.504	33.1	21.9	30.6	26.1	3490	109.9	159	190	9.5	1.196	0.0533	60.1	3845	6629	81.1%	5.6%
Car	Car	2011	5366	0.447	32.7	21.5	30.8	26.0	3579	110.9	162	201	9.4	1.248	0.0552	60.0	3778	6673	78.1%	7.7%
Car	Car	2012	7085	0.531	35.1	23.1	32.5	27.7	3450	109.2	150	194	9.4	1.287	0.0548	62.2	4010	6815	82.6%	5.5%
Car	Wagon	1975	963	0.094	16.1	12.5	15.6	13.8	3957		256	129	14.3	0.585	0.0322	32.2			6.6%	
Car	Wagon	1976	1037	0.084	17.3	13.6	16.4	14.7	4182		276	132	14.7	0.526	0.0312	36.2			4.1%	

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Midsize	Large
Car	Car	1975	18.9%	0.3%			5.5%		0.3%							56.2%	22.4%	21.4%
Car	Car	1976	17.0%				3.3%		0.3%							58.0%	22.6%	19.3%
Car	Car	1977	16.6%				4.3%		0.5%							54.7%	22.2%	23.1%
Car	Car	1978	19.8%	7.0%			5.3%		1.0%							46.2%	33.3%	20.4%
Car	Car	1979	21.3%	9.2%			5.1%		2.2%							45.3%	33.0%	21.7%
Car	Car	1980	30.7%	15.7%			6.5%	0.7%	4.1%							55.0%	34.0%	11.0%
Car	Car	1981	29.2%	33.9%			6.3%	2.9%	5.9%							51.4%	36.6%	12.1%
Car	Car	1982	29.4%	51.6%			7.5%	10.9%	4.7%							57.6%	30.5%	11.9%
Car	Car	1983	25.4%	58.7%			10.1%	19.7%	2.1%							52.6%	32.1%	15.3%
Car	Car	1984	24.4%	58.3%			15.9%	24.1%	1.6%							58.6%	28.6%	12.8%
Car	Car	1985	22.7%	58.7%			22.4%	33.0%	0.9%							56.3%	28.3%	15.4%
Car	Car	1986	25.1%	58.0%			37.3%	28.9%	0.3%	94.8%	3.4%	1.7%				61.2%	26.3%	12.5%
Car	Car	1987	25.5%	58.9%			42.0%	30.6%	0.2%	84.9%	9.6%	5.5%				65.0%	22.7%	12.3%
Car	Car	1988	24.7%	66.0%			54.0%	29.4%	0.0%	79.4%	10.0%	10.6%				66.3%	20.9%	12.9%
Car	Car	1989	21.4%	69.1%	0.1%		62.3%	28.1%	0.0%	75.1%	12.1%	12.8%				59.4%	27.1%	13.5%
Car	Car	1990	19.9%	72.7%	0.0%		77.5%	21.2%	0.0%	66.8%	5.6%	27.6%		0.6%		59.3%	27.8%	13.0%
Car	Car	1991	20.8%	73.3%	0.0%		77.9%	22.0%	0.1%	65.7%	6.4%	27.9%		2.5%		61.7%	25.9%	12.4%
Car	Car	1992	17.5%	76.3%	0.0%		89.6%	10.4%	0.1%	64.7%	4.6%	30.7%		4.7%		56.9%	27.2%	15.9%
Car	Car	1993	17.8%	76.8%	0.0%		91.4%	8.6%		62.3%	3.2%	34.5%		5.0%		56.9%	29.2%	13.8%
Car	Car	1994	16.8%	79.1%			94.7%	5.3%	0.0%	58.0%	1.9%	40.0%		8.2%		58.6%	25.5%	15.9%
Car	Car	1995	16.3%	81.9%			98.7%	1.2%	0.1%	47.2%	1.1%	51.7%	0.0%	10.0%		57.6%	27.9%	14.5%
Car	Car	1996	14.9%	83.5%	0.0%		98.8%	1.1%	0.1%	42.7%	1.0%	56.3%	0.0%	11.9%		55.1%	31.0%	14.0%
Car	Car	1997	13.4%	85.9%	0.1%		99.1%	0.8%	0.1%	41.2%	1.0%	57.6%	0.1%	11.6%		55.3%	29.8%	14.9%
Car	Car	1998	12.2%	87.4%	0.1%		99.7%	0.1%	0.2%	39.0%	1.5%	58.7%	0.8%	18.8%		49.8%	38.4%	11.8%
Car	Car	1999	10.8%	88.6%	0.0%		99.7%	0.1%	0.2%	35.7%	2.1%	60.7%	1.5%	17.2%		48.3%	38.7%	13.0%
Car	Car	2000	11.2%	87.7%	0.0%		99.7%	0.1%	0.2%	35.4%	1.8%	61.3%	1.6%	23.3%	0.1%	48.3%	32.8%	18.9%
Car	Car	2001	11.4%	87.5%	0.2%		99.7%		0.3%	34.2%	2.1%	60.9%	2.8%	28.7%	0.0%	51.0%	31.2%	17.8%
Car	Car	2002	11.0%	88.3%	0.4%		99.6%		0.4%	31.5%	2.0%	63.8%	2.7%	34.7%	0.3%	48.3%	35.7%	15.9%
Car	Car	2003	11.0%	88.0%	1.0%		99.7%		0.3%	27.7%	2.4%	67.0%	2.9%	41.2%	0.6%	49.5%	33.5%	17.0%
Car	Car	2004	10.1%	88.1%	1.5%		99.7%		0.3%	24.3%	1.9%	71.3%	2.4%	44.4%	1.0%	46.9%	36.1%	17.0%
Car	Car	2005	9.2%	87.8%	2.8%		99.6%		0.4%	22.2%	2.5%	74.2%	1.1%	52.7%	2.3%	43.6%	39.5%	16.9%
Car	Car	2006	9.5%	87.7%	2.7%		99.3%		0.7%	20.4%	1.8%	77.4%	0.3%	62.4%	1.7%	44.5%	33.6%	21.9%
Car	Car	2007	8.5%	80.3%	11.2%	0.3%	99.6%		0.0%	15.8%	1.1%	83.1%	0.0%	67.3%	3.7%	43.0%	41.3%	15.7%
Car	Car	2008	7.6%	79.6%	12.5%	3.2%	96.7%		0.1%	13.2%	0.7%	86.2%	0.0%	65.2%	3.7%	42.3%	36.8%	20.9%
Car	Car	2009	6.3%	81.8%	11.6%	4.7%	94.7%		0.6%	8.8%	0.4%	90.8%	0.0%	80.1%	3.2%	43.9%	37.5%	18.6%
Car	Car	2010	5.3%	78.5%	14.6%	6.9%	92.5%		0.7%	7.7%	0.4%	91.9%		90.4%	6.6%	44.8%	40.4%	14.9%
Car	Car	2011	4.9%	82.6%	11.8%	16.6%	82.6%		0.8%	6.9%	0.4%	92.7%		94.1%	4.3%	34.4%	46.2%	19.4%
Car	Car	2012	8.2%	74.7%	11.3%	30.1%	69.0%		0.9%	2.7%	0.5%	96.8%		97.9%	5.7%	47.3%	40.9%	11.7%
Car	Wagon	1975	25.3%				2.7%		0.1%							49.5%	30.0%	20.4%
Car	Wagon	1976	17.5%				2.6%		0.1%							33.3%	46.7%	20.0%

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG (Lab 55/45)	Cu-Ft -MPG (Lab 55/45)	Cu-Ft-Ton-MPG (Lab 55/45)	Drivetrain	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Car	Wagon	1977	1273	0.090	18.0	14.3	16.9	15.3	4005	138.1	266	127	14.6	0.523	0.0315	36.3	2559	5018	7.0%	
Car	Wagon	1978	1157	0.080	19.2	15.1	18.3	16.4	3723	135.7	243	123	14.1	0.548	0.0327	35.8	2642	4875	7.2%	
Car	Wagon	1979	1067	0.077	19.7	15.6	18.4	16.7	3637	135.6	234	117	14.5	0.535	0.0317	35.8	2694	4864	3.8%	3.5%
Car	Wagon	1980	669	0.059	23.6	18.5	22.5	20.1	3231	128.4	189	96	15.2	0.567	0.0297	38.4	3098	4956	11.3%	4.6%
Car	Wagon	1981	798	0.076	25.6	20.0	24.6	21.8	3040	126.2	165	94	14.6	0.644	0.0312	39.1	3287	4956	42.4%	4.2%
Car	Wagon	1982	812	0.083	25.3	19.6	24.6	21.6	3188	129.4	178	98	14.8	0.603	0.0305	40.4	3334	5245	42.0%	4.2%
Car	Wagon	1983	936	0.091	27.2	21.1	26.3	23.2	3047	123.9	161	94	14.8	0.636	0.0305	41.6	3420	5149	41.1%	22.3%
Car	Wagon	1984	1003	0.072	26.4	20.4	25.9	22.6	3175	131.5	166	100	14.6	0.645	0.0311	42.1	3546	5543	62.9%	7.2%
Car	Wagon	1985	983	0.068	27.5	21.2	26.9	23.4	3112	130.2	158	101	14.3	0.677	0.0320	42.7	3638	5580	54.4%	21.5%
Car	Wagon	1986	878	0.057	27.1	20.7	26.6	23.0	3215	133.3	162	106	14.1	0.690	0.0327	43.4	3642	5813	69.4%	9.2%
Car	Wagon	1987	808	0.054	27.2	20.6	26.7	23.0	3248	133.5	162	112	13.6	0.730	0.0342	44.1	3660	5911	71.5%	10.5%
Car	Wagon	1988	613	0.040	27.6	20.7	27.0	23.3	3242	133.6	163	114	13.3	0.745	0.0352	44.6	3708	5987	73.8%	8.5%
Car	Wagon	1989	461	0.032	26.9	20.0	26.5	22.6	3327	135.5	171	121	13.0	0.758	0.0363	44.6	3663	6068	71.2%	7.7%
Car	Wagon	1990	376	0.030	26.7	19.7	26.4	22.4	3367	135.0	165	127	12.6	0.815	0.0376	45.0	3624	6080	68.9%	13.7%
Car	Wagon	1991	366	0.029	28.0	20.5	27.6	23.4	3305	134.0	158	124	12.7	0.823	0.0372	46.3	3783	6218	71.8%	12.4%
Car	Wagon	1992	307	0.025	27.5	19.9	27.4	23.0	3391	136.2	171	137	12.1	0.867	0.0403	46.7	3772	6371	70.2%	12.2%
Car	Wagon	1993	486	0.037	29.6	21.3	29.1	24.6	3154	129.8	150	117	12.8	0.811	0.0368	46.8	3894	6087	81.3%	10.3%
Car	Wagon	1994	360	0.026	29.4	20.9	29.1	24.4	3217	130.5	154	128	12.4	0.848	0.0390	47.5	3896	6196	84.9%	6.2%
Car	Wagon	1995	385	0.025	29.6	21.0	29.0	24.4	3189	129.7	147	126	12.4	0.873	0.0390	47.3	3885	6132	77.5%	15.1%
Car	Wagon	1996	268	0.020	27.7	19.6	27.0	22.8	3453	131.8	155	144	11.8	0.945	0.0414	47.9	3677	6323	66.7%	28.3%
Car	Wagon	1997	298	0.021	28.9	20.4	27.9	23.7	3283	128.0	142	138	11.6	0.972	0.0419	47.5	3741	6086	65.7%	32.9%
Car	Wagon	1998	250	0.017	28.3	19.8	27.0	23.1	3359	128.1	143	149	11.1	1.043	0.0442	47.4	3650	6084	50.7%	46.3%
Car	Wagon	1999	259	0.017	27.7	19.2	26.6	22.6	3460	130.8	148	156	10.9	1.062	0.0449	47.9	3650	6280	52.9%	43.3%
Car	Wagon	2000	302	0.018	27.7	19.2	26.2	22.4	3468	130.8	147	158	10.9	1.076	0.0454	48.0	3649	6291	58.2%	37.6%
Car	Wagon	2001	447	0.029	26.9	18.7	25.1	21.7	3631	127.0	150	162	11.0	1.084	0.0446	49.0	3448	6233	66.2%	32.2%
Car	Wagon	2002	444	0.028	26.7	18.4	24.9	21.5	3610	125.4	149	163	10.9	1.109	0.0452	48.4	3378	6090	66.5%	31.5%
Car	Wagon	2003	509	0.032	29.1	20.0	26.5	23.2	3425	121.3	135	155	10.9	1.160	0.0453	50.4	3595	6117	73.0%	25.5%
Car	Wagon	2004	556	0.035	27.8	19.0	25.4	22.1	3683	130.9	151	187	10.1	1.248	0.0504	51.4	3687	6732	65.8%	33.3%
Car	Wagon	2005	722	0.045	28.0	19.0	25.5	22.2	3652	129.7	158	189	9.9	1.220	0.0511	51.4	3705	6678	61.4%	28.2%
Car	Wagon	2006	815	0.054	28.4	19.2	25.8	22.5	3603	128.8	154	188	10.0	1.228	0.0514	51.3	3701	6605	67.5%	22.5%
Car	Wagon	2007	610	0.040	29.0	19.5	26.5	23.0	3559	123.2	148	179	10.2	1.218	0.0497	51.9	3637	6401	75.5%	21.2%
Car	Wagon	2008	570	0.041	30.2	20.4	27.4	23.9	3495	120.8	142	172	10.3	1.216	0.0487	53.1	3715	6427	70.7%	26.1%
Car	Wagon	2009	496	0.053	32.7	22.2	28.9	25.5	3324	117.0	129	156	10.6	1.208	0.0465	54.6	3872	6388	79.1%	20.8%
Car	Wagon	2010	454	0.041	34.0	23.1	29.7	26.5	3277	117.9	125	151	10.7	1.204	0.0457	56.1	4078	6629	88.2%	10.5%
Car	Wagon	2011	362	0.030	34.7	23.8	30.0	27.0	3262	114.9	122	158	10.2	1.307	0.0481	57.2	4047	6542	79.8%	19.0%
Car	Wagon	2012	524	0.039	36.7	25.2	31.0	28.2	3174	118.4	117	150	10.2	1.289	0.0472	59.9	4480	7117	83.3%	15.2%
Car	Non-Truck SUV	1975	10	0.001	13.1	10.1	12.6	11.1	4000		262	113	15.6	0.430	0.0282	26.5				
Car	Non-Truck SUV	1976	11	0.001	12.4	9.4	12.5	10.6	3986		263	123	14.6	0.467	0.0309	25.9				
Car	Non-Truck SUV	1977	19	0.001	14.3	11.2	13.6	12.2	4000	105.1	261	124	14.4	0.477	0.0311	29.5	1562	3124		
Car	Non-Truck SUV	1978	16	0.001	13.6	10.4	13.5	11.6	4000	104.6	262	126	14.2	0.481	0.0315	27.9	1471	2943		

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Midsize	Large
Car	Wagon	1977	18.0%				3.4%		0.3%							30.2%	43.0%	26.8%
Car	Wagon	1978	19.5%	7.8%			3.4%		0.5%							31.2%	43.5%	25.3%
Car	Wagon	1979	19.0%	4.8%			1.4%		1.1%							29.0%	45.2%	25.8%
Car	Wagon	1980	33.8%	31.5%			2.2%		9.3%							46.4%	38.4%	15.2%
Car	Wagon	1981	36.8%	27.5%			4.4%	0.0%	6.5%							52.4%	34.1%	13.5%
Car	Wagon	1982	28.0%	49.0%			4.3%	0.3%	4.7%							47.0%	35.0%	18.0%
Car	Wagon	1983	30.7%	42.1%			4.4%	13.0%	1.5%							56.7%	29.5%	13.9%
Car	Wagon	1984	22.1%	58.4%			6.1%	26.7%	2.0%							46.0%	36.4%	17.6%
Car	Wagon	1985	23.6%	58.6%			12.1%	22.7%	1.0%							50.5%	34.7%	14.8%
Car	Wagon	1986	21.4%	58.3%			29.8%	22.7%	0.4%	100.0%						39.7%	46.6%	13.7%
Car	Wagon	1987	17.3%	66.4%			48.2%	29.2%	0.3%	90.5%	2.2%	7.3%				44.7%	44.4%	10.9%
Car	Wagon	1988	17.4%	67.1%			48.9%	39.8%		91.9%	0.3%	7.8%				41.3%	46.4%	12.3%
Car	Wagon	1989	12.9%	73.3%			64.1%	23.2%		85.6%	1.1%	13.3%				34.5%	51.9%	13.6%
Car	Wagon	1990	13.9%	76.5%			76.4%	18.0%		70.8%		29.2%				42.6%	49.1%	8.3%
Car	Wagon	1991	14.7%	80.4%			80.8%	19.2%		71.1%		28.9%				57.1%	33.5%	9.4%
Car	Wagon	1992	15.2%	80.2%			89.0%	11.0%		74.3%		25.7%		0.7%		46.6%	44.7%	8.7%
Car	Wagon	1993	18.6%	78.7%			93.5%	6.5%		79.6%		20.4%		0.3%		62.1%	34.1%	3.8%
Car	Wagon	1994	16.4%	81.7%			98.7%	1.3%		80.4%		19.6%		4.4%		57.3%	38.4%	4.4%
Car	Wagon	1995	16.9%	81.7%			100.0%			63.5%		36.5%		5.1%		51.5%	45.8%	2.7%
Car	Wagon	1996	15.1%	84.9%			99.5%		0.5%	42.9%		57.1%		5.8%		33.5%	63.0%	3.5%
Car	Wagon	1997	16.5%	83.5%			100.0%		0.0%	45.9%		54.1%		3.9%		50.0%	50.0%	
Car	Wagon	1998	15.7%	84.3%			100.0%			27.7%	1.9%	68.1%	2.3%	6.8%		39.0%	61.0%	
Car	Wagon	1999	14.5%	84.8%			100.0%			22.9%	2.3%	66.5%	8.4%	12.3%		30.0%	70.0%	
Car	Wagon	2000	11.1%	87.4%			100.0%			20.1%	1.8%	69.1%	9.0%	25.0%		22.4%	77.6%	
Car	Wagon	2001	11.6%	88.1%			100.0%			7.3%	1.3%	84.0%	7.5%	22.5%		47.3%	52.7%	
Car	Wagon	2002	14.6%	85.1%			99.5%		0.5%	5.9%	1.8%	86.1%	6.3%	18.4%		53.2%	46.8%	
Car	Wagon	2003	14.1%	85.9%			98.7%		1.3%	4.9%	0.9%	86.8%	7.4%	42.5%		66.4%	33.6%	
Car	Wagon	2004	10.5%	89.5%			99.2%		0.8%	2.8%	1.5%	90.6%	5.1%	41.6%		54.0%	28.4%	17.7%
Car	Wagon	2005	10.1%	89.9%			99.0%		1.0%	17.8%	0.6%	79.8%	1.8%	40.9%		50.6%	33.0%	16.4%
Car	Wagon	2006	8.5%	91.5%			100.0%			7.9%	2.6%	89.5%	0.0%	44.6%		60.5%	27.0%	12.5%
Car	Wagon	2007	8.4%	91.6%			99.8%		0.2%	7.4%	0.2%	92.3%	0.0%	39.9%		63.5%	24.6%	11.9%
Car	Wagon	2008	12.7%	87.3%		2.8%	97.0%		0.2%	0.7%		99.3%	0.0%	43.6%		72.2%	23.8%	4.0%
Car	Wagon	2009	12.1%	84.4%	3.5%	2.6%	95.2%		2.2%			100.0%		75.7%		86.5%	12.9%	0.6%
Car	Wagon	2010	10.2%	68.4%	16.2%	3.2%	91.4%		5.3%			100.0%		92.5%		98.3%	1.7%	
Car	Wagon	2011	12.9%	60.6%	26.5%	13.9%	79.3%		6.8%	0.1%		99.9%		91.0%		99.0%	1.0%	
Car	Wagon	2012	11.6%	55.7%	28.6%	18.4%	77.1%		4.5%	0.1%		99.9%		93.8%	7.1%	92.7%	7.3%	
Car	Non-Truck SUV	1975	68.3%													61.4%	38.6%	
Car	Non-Truck SUV	1976	69.1%													63.1%	36.9%	
Car	Non-Truck SUV	1977	82.5%													79.5%	20.5%	
Car	Non-Truck SUV	1978	84.2%													81.6%	18.4%	

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG (Lab 55/45)	Cu-Ft -MPG (Lab 55/45)	Cu-Ft-Ton-MPG (Lab 55/45)	Drivetrain	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Car	Non-Truck SUV	1979	16	0.001	16.8	13.9	14.8	14.3	3271	104.1	185	99	14.9	0.576	0.0300	27.8	1823	2890		
Car	Non-Truck SUV	1980	0	0.000	17.2	13.9	15.5	14.6	4000	125.0	280	122	15.1	0.436	0.0305	34.6	2162	4325		
Car	Non-Truck SUV	1981	0	0.000	17.3	13.7	16.1	14.7	4000	125.0	318	140	13.3	0.440	0.0350	34.5	2158	4315		
Car	Non-Truck SUV	1982	13	0.001	23.4	20.2	19.3	19.8	2630	103.4	159	88	13.7	0.557	0.0335	30.7	2425	3202		
Car	Non-Truck SUV	1983	34	0.003	24.3	19.5	22.4	20.7	3124	115.6	163	101	14.1	0.617	0.0325	38.4	2833	4523		
Car	Non-Truck SUV	1984	55	0.004	22.6	17.5	22.1	19.3	3487	123.6	179	109	14.5	0.615	0.0313	39.7	2829	4925		
Car	Non-Truck SUV	1985	88	0.006	23.5	17.6	24.2	20.1	3469	125.0	171	109	14.4	0.637	0.0314	40.8	2940	5100		
Car	Non-Truck SUV	1986	59	0.004	22.3	17.1	21.7	18.9	3479	125.0	170	121	13.3	0.713	0.0348	38.9	2795	4858		
Car	Non-Truck SUV	1987	95	0.006	22.9	17.1	23.1	19.4	3492	119.0	179	131	12.7	0.730	0.0374	40.0	2725	4756		
Car	Non-Truck SUV	1988	109	0.007	22.7	17.1	22.5	19.2	3495	116.2	199	142	11.9	0.719	0.0405	39.9	2650	4628		
Car	Non-Truck SUV	1989	108	0.007	22.7	17.1	22.1	19.1	3497	117.0	226	148	11.4	0.668	0.0422	39.8	2658	4647		
Car	Non-Truck SUV	1990	65	0.005	22.5	16.9	21.5	18.8	3518	114.7	209	146	11.7	0.714	0.0415	39.6	2580	4530		
Car	Non-Truck SUV	1991	224	0.018	21.8	16.4	20.5	18.2	3733	119.8	215	145	12.6	0.680	0.0385	40.7	2628	4896		
Car	Non-Truck SUV	1992	243	0.020	21.4	16.1	20.1	17.8	3713	120.0	210	153	12.0	0.734	0.0409	39.9	2594	4802		
Car	Non-Truck SUV	1993	473	0.036	20.4	15.0	19.6	17.0	3848	122.4	238	179	10.8	0.757	0.0462	39.5	2524	4847		
Car	Non-Truck SUV	1994	332	0.023	21.8	16.1	20.5	18.0	3735	120.3	209	163	11.3	0.791	0.0434	40.6	2632	4904	2.6%	
Car	Non-Truck SUV	1995	220	0.015	21.5	15.7	20.5	17.8	3763	122.1	214	165	11.4	0.783	0.0436	40.6	2648	4965	0.1%	
Car	Non-Truck SUV	1996	287	0.022	22.4	16.2	21.1	18.4	3710	121.4	215	167	11.0	0.802	0.0448	41.7	2736	5058	6.3%	
Car	Non-Truck SUV	1997	361	0.025	23.5	17.1	21.7	19.2	3549	114.7	190	159	11.0	0.875	0.0446	41.9	2716	4803	20.3%	
Car	Non-Truck SUV	1998	454	0.031	22.3	16.0	20.8	18.2	3824	120.4	218	168	11.1	0.802	0.0439	42.8	2703	5149	10.3%	
Car	Non-Truck SUV	1999	488	0.032	22.7	16.3	21.0	18.5	3831	121.8	211	170	11.1	0.846	0.0442	43.7	2788	5327	15.4%	
Car	Non-Truck SUV	2000	617	0.037	22.0	15.7	20.3	17.9	3870	119.8	211	174	11.0	0.857	0.0448	42.8	2661	5137	12.7%	
Car	Non-Truck SUV	2001	743	0.048	23.3	16.4	21.4	18.8	3765	121.8	194	180	10.5	0.961	0.0477	44.2	2860	5376	37.1%	
Car	Non-Truck SUV	2002	603	0.037	24.0	16.8	22.0	19.3	3747	122.0	183	179	10.4	1.003	0.0479	45.3	2965	5542	55.5%	
Car	Non-Truck SUV	2003	575	0.036	24.8	17.2	22.7	19.9	3716	124.1	181	181	10.3	1.014	0.0486	46.4	3114	5773	65.9%	
Car	Non-Truck SUV	2004	639	0.041	24.9	17.0	23.1	20.0	3854	126.9	191	198	9.9	1.039	0.0511	48.2	3184	6126	72.9%	3.4%
Car	Non-Truck SUV	2005	813	0.051	25.4	17.3	23.2	20.2	3848	132.8	186	192	10.1	1.040	0.0498	49.0	3388	6513	74.0%	14.5%
Car	Non-Truck SUV	2006	751	0.050	25.7	17.5	23.5	20.5	3876	133.6	184	192	10.2	1.051	0.0493	50.0	3457	6680	77.7%	8.6%
Car	Non-Truck SUV	2007	919	0.060	25.9	17.6	23.8	20.6	3935	133.3	185	208	9.7	1.127	0.0524	51.2	3479	6824	85.4%	4.7%
Car	Non-Truck SUV	2008	924	0.066	26.6	18.1	24.4	21.2	3902	131.8	179	204	9.8	1.141	0.0518	52.4	3547	6904	87.0%	5.3%
Car	Non-Truck SUV	2009	608	0.065	27.8	18.8	25.3	22.0	3846	131.2	175	206	9.6	1.174	0.0534	53.9	3682	7066	92.2%	2.8%
Car	Non-Truck SUV	2010	915	0.082	29.1	19.6	26.5	23.0	3949	132.8	172	213	9.5	1.240	0.0538	57.8	3896	7684	88.4%	8.9%
Car	Non-Truck SUV	2011	1207	0.101	29.9	20.0	27.4	23.6	3890	134.7	166	207	9.7	1.243	0.0530	58.5	4057	7897	88.8%	9.7%
Car	Non-Truck SUV	2012	914	0.068	30.6	20.4	28.0	24.1	3908	135.5	163	207	9.7	1.263	0.0527	60.3	4192	8192	86.9%	11.2%
Car	All	1975	8247	0.807	15.8	12.3	15.2	13.5	4057		288	136	14.2	0.515	0.0331	32.3			6.5%	
Car	All	1976	9734	0.789	17.5	13.7	16.6	14.9	4059		287	134	14.4	0.502	0.0324	35.5			5.8%	
Car	All	1977	11318	0.801	18.3	14.4	17.4	15.6	3944	110.4	279	133	14.0	0.516	0.0335	36.4	2090	4020	6.8%	
Car	All	1978	11191	0.775	19.9	15.5	19.1	16.9	3588	109.0	251	124	13.7	0.538	0.0342	35.9	2239	3924	9.6%	
Car	All	1979	10810	0.779	20.2	15.9	19.2	17.2	3485	108.9	238	119	13.8	0.545	0.0338	35.4	2257	3877	11.9%	0.3%
Car	All	1980	9444	0.835	23.5	18.3	22.6	20.0	3101	104.2	188	100	14.3	0.583	0.0322	36.6	2507	3841	29.7%	0.9%

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Midsize	Large
Car	Non-Truck SUV	1979	37.7%	3.9%												83.5%	16.5%	
Car	Non-Truck SUV	1980	3.9%	86.8%													100.0%	
Car	Non-Truck SUV	1981		100.0%													100.0%	
Car	Non-Truck SUV	1982	4.6%	8.9%												86.5%	13.5%	
Car	Non-Truck SUV	1983	19.3%	43.2%												37.6%	62.4%	
Car	Non-Truck SUV	1984	19.4%	64.8%												5.6%	94.4%	
Car	Non-Truck SUV	1985	15.9%	84.1%				5.3%									100.0%	
Car	Non-Truck SUV	1986	18.1%	81.9%			0.0%	86.8%	0.0%	100.0%						0.0%	100.0%	
Car	Non-Truck SUV	1987	14.3%	85.7%			32.8%	67.2%		100.0%						24.1%	75.9%	
Car	Non-Truck SUV	1988	24.6%	75.4%			48.2%	51.8%		100.0%						35.2%	64.8%	
Car	Non-Truck SUV	1989	27.4%	72.6%			44.7%	53.9%		100.0%						32.0%	68.0%	
Car	Non-Truck SUV	1990	35.1%	63.0%			63.3%	31.6%		100.0%						41.2%	58.8%	
Car	Non-Truck SUV	1991	22.2%	77.7%			49.3%	49.9%		100.0%						20.9%	79.1%	
Car	Non-Truck SUV	1992	24.6%	75.4%			68.4%	30.3%		100.0%						19.9%	80.1%	
Car	Non-Truck SUV	1993	10.9%	89.1%			90.6%	8.7%		100.0%						10.2%	89.8%	
Car	Non-Truck SUV	1994	21.5%	70.9%			92.1%	7.9%		88.5%		11.5%				18.7%	81.3%	
Car	Non-Truck SUV	1995	17.4%	82.6%			90.8%	9.2%		80.9%		19.1%				11.5%	88.5%	
Car	Non-Truck SUV	1996	15.4%	84.6%			100.0%			67.6%		32.4%				14.4%	85.6%	
Car	Non-Truck SUV	1997	23.2%	70.7%			100.0%			45.4%		54.6%				41.3%	58.7%	
Car	Non-Truck SUV	1998	11.1%	88.9%			100.0%			70.8%		29.2%				18.4%	81.6%	
Car	Non-Truck SUV	1999	8.4%	91.6%			100.0%			61.6%		38.4%		4.6%		13.5%	85.6%	0.9%
Car	Non-Truck SUV	2000	5.7%	94.3%			100.0%			66.0%		34.0%		5.0%		21.2%	78.1%	0.6%
Car	Non-Truck SUV	2001	6.2%	93.8%			100.0%			56.9%		43.1%		10.0%		18.7%	75.3%	6.0%
Car	Non-Truck SUV	2002	7.5%	92.3%	0.2%		100.0%			29.7%		70.3%		18.2%		18.3%	75.3%	6.4%
Car	Non-Truck SUV	2003	7.2%	84.3%	8.5%		100.0%			31.9%		68.1%		19.6%		10.0%	83.4%	6.6%
Car	Non-Truck SUV	2004	5.8%	87.9%	6.3%		100.0%			24.5%		75.5%		37.9%		7.0%	78.4%	14.6%
Car	Non-Truck SUV	2005	3.7%	91.9%	4.5%		100.0%			32.5%		67.5%		27.3%	0.5%	5.0%	58.8%	36.2%
Car	Non-Truck SUV	2006	3.1%	91.7%	5.2%		100.0%			13.2%		86.8%		33.4%	1.1%		65.8%	34.2%
Car	Non-Truck SUV	2007	1.6%	94.5%	3.9%		100.0%			17.3%		82.7%		46.8%	1.6%	0.2%	66.3%	33.4%
Car	Non-Truck SUV	2008	0.7%	93.6%	5.7%	2.2%	97.8%			10.4%		89.6%		56.4%	2.3%		72.8%	27.2%
Car	Non-Truck SUV	2009	0.6%	85.9%	13.5%	1.3%	98.7%			5.9%		94.1%		73.7%	2.7%		75.2%	24.8%
Car	Non-Truck SUV	2010	0.2%	91.5%	8.3%	26.2%	73.8%					100.0%		99.9%	1.4%		58.9%	41.1%
Car	Non-Truck SUV	2011	0.5%	91.5%	8.0%	27.6%	72.4%					100.0%		99.8%	0.6%		61.3%	38.7%
Car	Non-Truck SUV	2012	0.6%	92.4%	7.0%	39.7%	60.3%					100.0%		100.0%	0.8%		58.3%	41.7%
Car	All	1975	19.7%	0.3%			5.1%		0.2%							55.4%	23.3%	21.2%
Car	All	1976	17.2%				3.2%		0.3%							55.4%	25.2%	19.4%
Car	All	1977	16.9%				4.2%		0.5%							52.0%	24.5%	23.5%
Car	All	1978	19.9%	7.1%			5.1%		0.9%							44.7%	34.4%	20.9%
Car	All	1979	21.1%	8.8%			4.7%		2.1%							43.7%	34.2%	22.1%
Car	All	1980	30.9%	16.8%			6.2%	0.7%	4.4%							54.4%	34.4%	11.3%

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG (Lab 55/45)	Cu-Ft -MPG (Lab 55/45)	Cu-Ft-Ton-MPG (Lab 55/45)	Drivetrain	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Car	All	1981	8734	0.828	25.1	19.5	24.2	21.4	3076	106.5	182	99	14.4	0.594	0.0320	38.9	2743	4161	37.0%	0.7%
Car	All	1982	7832	0.805	26.0	20.1	25.5	22.2	3053	106.1	175	99	14.4	0.609	0.0320	40.1	2836	4272	45.6%	0.8%
Car	All	1983	8035	0.780	25.9	19.9	25.5	22.1	3112	108.7	182	104	14.0	0.615	0.0330	40.7	2903	4427	47.1%	3.1%
Car	All	1984	10730	0.765	26.3	20.2	25.9	22.4	3101	107.6	179	106	13.8	0.637	0.0338	41.1	2909	4428	53.5%	1.0%
Car	All	1985	10879	0.752	26.9	20.6	26.7	23.0	3096	108.4	177	111	13.3	0.671	0.0354	41.9	2992	4556	61.1%	2.1%
Car	All	1986	11074	0.721	27.9	21.2	27.6	23.7	3043	107.4	167	111	13.2	0.701	0.0360	42.6	3055	4586	70.7%	1.0%
Car	All	1987	10826	0.728	28.0	21.2	27.7	23.8	3035	106.7	162	113	13.0	0.732	0.0365	42.7	3048	4571	76.4%	1.1%
Car	All	1988	10845	0.709	28.5	21.4	28.1	24.1	3051	107.1	161	116	12.8	0.758	0.0375	43.7	3114	4693	80.9%	0.8%
Car	All	1989	10126	0.701	28.1	20.8	27.8	23.6	3104	107.8	163	121	12.4	0.782	0.0387	43.7	3076	4723	81.6%	1.0%
Car	All	1990	8875	0.704	27.7	20.4	27.4	23.3	3178	107.1	163	129	12.1	0.829	0.0401	44.2	3011	4745	84.0%	1.0%
Car	All	1991	8748	0.696	27.8	20.4	27.4	23.3	3168	107.1	164	133	11.9	0.847	0.0413	44.2	3030	4750	81.1%	1.3%
Car	All	1992	8350	0.686	27.4	19.8	27.2	22.9	3254	108.7	171	141	11.5	0.864	0.0427	44.7	3027	4875	78.4%	1.1%
Car	All	1993	8929	0.676	27.6	19.9	27.3	23.0	3241	109.2	170	140	11.5	0.859	0.0427	45.1	3076	4925	80.6%	1.1%
Car	All	1994	8747	0.619	27.7	19.8	27.4	23.0	3268	108.7	169	144	11.4	0.880	0.0432	45.5	3068	4953	81.3%	0.4%
Car	All	1995	9616	0.635	28.1	19.8	27.9	23.3	3274	109.0	168	153	10.9	0.941	0.0460	46.2	3119	5043	80.1%	1.1%
Car	All	1996	8177	0.622	28.0	19.7	27.6	23.1	3297	109.5	167	155	10.8	0.952	0.0463	46.4	3112	5079	83.7%	1.4%
Car	All	1997	8695	0.601	28.2	19.7	27.6	23.2	3285	108.9	165	156	10.7	0.970	0.0468	46.5	3110	5065	83.8%	1.7%
Car	All	1998	8425	0.583	28.1	19.5	27.5	23.0	3334	109.3	167	160	10.6	0.983	0.0473	47.1	3115	5145	82.9%	2.1%
Car	All	1999	8865	0.583	27.8	19.2	27.0	22.7	3390	109.8	168	164	10.5	1.000	0.0479	47.3	3088	5199	83.2%	2.1%
Car	All	2000	9742	0.588	27.7	19.0	26.7	22.5	3401	110.2	168	168	10.4	1.021	0.0489	47.3	3092	5219	80.4%	2.0%
Car	All	2001	9148	0.586	27.9	19.1	26.7	22.6	3411	110.3	167	169	10.3	1.035	0.0491	48.0	3134	5299	80.3%	3.0%
Car	All	2002	8904	0.553	28.3	19.2	26.8	22.8	3415	110.8	167	173	10.2	1.061	0.0502	48.6	3184	5393	82.9%	3.6%
Car	All	2003	8496	0.539	28.7	19.3	27.1	23.0	3437	110.6	166	176	10.0	1.082	0.0508	49.7	3229	5501	80.9%	3.2%
Car	All	2004	8176	0.520	28.5	19.1	27.0	22.9	3492	111.7	170	184	9.8	1.101	0.0520	50.3	3255	5629	80.2%	5.3%
Car	All	2005	8839	0.556	29.1	19.4	27.2	23.1	3498	113.4	168	183	9.9	1.108	0.0516	51.5	3385	5857	79.2%	6.6%
Car	All	2006	8744	0.579	28.9	19.2	27.1	23.0	3563	113.4	173	194	9.6	1.138	0.0536	52.2	3360	5926	75.9%	6.0%
Car	All	2007	9001	0.589	29.8	19.8	27.8	23.7	3551	112.5	167	191	9.6	1.154	0.0530	53.9	3469	6079	81.0%	5.6%
Car	All	2008	8243	0.593	30.1	20.0	28.0	23.9	3569	112.4	166	194	9.6	1.174	0.0534	54.6	3496	6151	78.8%	7.1%
Car	All	2009	6244	0.670	31.6	21.0	29.2	25.0	3502	112.1	157	186	9.8	1.189	0.0522	56.3	3649	6309	83.5%	6.3%
Car	All	2010	6969	0.627	32.6	21.7	29.9	25.7	3536	113.4	158	190	9.6	1.203	0.0528	59.6	3867	6767	82.5%	6.3%
Car	All	2011	6934	0.578	32.3	21.3	30.1	25.6	3617	115.2	161	200	9.5	1.250	0.0544	59.6	3840	6879	80.1%	8.6%
Car	All	2012	8524	0.639	34.6	22.9	31.8	27.3	3482	112.6	150	192	9.5	1.284	0.0541	61.9	4058	6981	83.1%	6.7%
Truck	Van	1975	457	0.045	13.1	10.6	11.9	11.1	4196		318	143	13.9	0.448	0.0341	28.1				
Truck	Van	1976	502	0.041	13.9	11.1	12.8	11.8	4200		324	146	13.7	0.447	0.0347	29.7				
Truck	Van	1977	514	0.036	14.7	11.9	13.3	12.5	4252		332	152	13.3	0.458	0.0359	31.7				
Truck	Van	1978	625	0.043	14.2	11.6	12.7	12.1	4250		329	149	13.4	0.453	0.0351	30.8				
Truck	Van	1979	481	0.035	13.5	11.1	12.1	11.5	4541		322	144	14.6	0.451	0.0317	31.3				
Truck	Van	1980	242	0.021	16.6	13.3	15.4	14.1	4353		288	131	15.2	0.459	0.0299	36.4				
Truck	Van	1981	245	0.023	17.5	14.0	16.0	14.8	4324		284	129	15.3	0.458	0.0298	38.0			0.3%	
Truck	Van	1982	311	0.032	17.3	13.9	15.9	14.7	4342		287	132	15.2	0.463	0.0303	38.0				

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Midsize	Large
Car	All	1981	29.9%	33.3%			6.1%	2.6%	5.9%							51.5%	36.4%	12.2%
Car	All	1982	29.2%	51.3%			7.2%	9.8%	4.7%							56.6%	30.9%	12.5%
Car	All	1983	26.0%	56.7%			9.4%	18.8%	2.1%							53.0%	31.9%	15.0%
Car	All	1984	24.1%	58.3%			14.9%	24.3%	1.7%							57.1%	29.7%	13.2%
Car	All	1985	22.8%	58.9%			21.3%	31.8%	0.9%							55.3%	29.5%	15.2%
Car	All	1986	24.7%	58.1%			36.5%	28.7%	0.3%	95.3%	3.2%	1.6%				59.2%	28.3%	12.5%
Car	All	1987	24.8%	59.7%			42.4%	30.8%	0.2%	85.4%	9.0%	5.6%				63.2%	24.8%	12.1%
Car	All	1988	24.3%	66.2%			53.7%	30.2%	0.0%	80.3%	9.4%	10.3%				64.5%	22.8%	12.7%
Car	All	1989	21.1%	69.3%	0.1%		62.2%	28.1%	0.0%	75.9%	11.5%	12.7%				58.0%	28.7%	13.4%
Car	All	1990	19.8%	72.8%	0.0%		77.4%	21.2%	0.0%	67.2%	5.3%	27.4%		0.6%		58.4%	28.9%	12.7%
Car	All	1991	20.6%	73.7%	0.0%		77.2%	22.6%	0.1%	66.8%	6.0%	27.2%		2.4%		60.4%	27.6%	12.0%
Car	All	1992	17.6%	76.4%	0.0%		88.9%	11.0%	0.1%	66.0%	4.3%	29.7%		4.4%		55.5%	29.4%	15.2%
Car	All	1993	17.5%	77.6%	0.0%		91.5%	8.5%		65.2%	2.8%	31.9%		4.5%		54.7%	32.7%	12.6%
Car	All	1994	16.9%	78.9%			94.8%	5.2%	0.0%	60.1%	1.8%	38.1%		7.7%		57.0%	28.2%	14.8%
Car	All	1995	16.3%	81.9%			98.6%	1.3%	0.1%	48.6%	1.1%	50.3%	0.0%	9.6%		56.3%	30.0%	13.7%
Car	All	1996	14.9%	83.6%	0.0%		98.8%	1.1%	0.1%	43.6%	0.9%	55.5%	0.0%	11.3%		52.9%	33.9%	13.2%
Car	All	1997	13.9%	85.2%	0.1%		99.2%	0.8%	0.1%	41.6%	1.0%	57.4%	0.1%	10.8%		54.5%	31.7%	13.7%
Car	All	1998	12.2%	87.4%	0.1%		99.7%	0.1%	0.2%	40.4%	1.4%	57.4%	0.8%	17.4%		47.7%	41.4%	10.8%
Car	All	1999	10.8%	88.6%	0.0%		99.8%	0.1%	0.2%	36.8%	2.0%	59.6%	1.6%	16.4%		45.8%	42.2%	12.0%
Car	All	2000	10.8%	88.1%	0.0%		99.7%	0.1%	0.2%	36.8%	1.7%	59.8%	1.7%	22.2%	0.1%	45.8%	37.1%	17.1%
Car	All	2001	11.0%	88.0%	0.2%		99.8%		0.2%	34.7%	1.9%	60.6%	2.8%	26.9%	0.0%	48.2%	35.8%	16.0%
Car	All	2002	10.9%	88.4%	0.4%		99.6%		0.4%	30.1%	1.9%	65.4%	2.7%	32.8%	0.3%	46.6%	39.0%	14.5%
Car	All	2003	10.9%	87.7%	1.4%		99.7%		0.3%	26.6%	2.2%	68.3%	3.0%	39.8%	0.6%	47.8%	36.9%	15.3%
Car	All	2004	9.8%	88.2%	1.7%		99.7%		0.3%	22.9%	1.8%	73.0%	2.4%	43.7%	0.9%	44.3%	38.9%	16.8%
Car	All	2005	8.8%	88.4%	2.8%		99.6%		0.4%	22.8%	2.1%	74.1%	1.1%	49.4%	1.9%	40.6%	40.7%	18.6%
Car	All	2006	8.8%	88.4%	2.7%		99.4%		0.6%	18.7%	1.7%	79.3%	0.2%	58.2%	1.5%	42.2%	35.8%	22.1%
Car	All	2007	7.8%	82.5%	9.7%	0.3%	99.7%		0.0%	15.4%	0.9%	83.7%	0.0%	63.3%	3.2%	40.0%	42.7%	17.3%
Car	All	2008	7.2%	81.7%	10.8%	3.1%	96.9%		0.1%	12.0%	0.5%	87.4%	0.0%	62.7%	3.3%	39.6%	40.0%	20.4%
Car	All	2009	6.2%	82.4%	11.1%	4.2%	95.2%		0.6%	7.8%	0.3%	91.9%	0.0%	79.1%	2.9%	43.0%	39.3%	17.8%
Car	All	2010	5.0%	79.5%	13.9%	9.2%	89.9%		0.9%	6.2%	0.3%	93.5%		91.8%	5.5%	42.4%	40.3%	17.3%
Car	All	2011	4.6%	83.0%	11.9%	18.4%	80.7%		0.9%	5.4%	0.3%	94.3%		94.9%	3.4%	31.8%	46.5%	21.7%
Car	All	2012	7.6%	75.4%	11.9%	30.4%	68.6%		1.1%	2.2%	0.4%	97.3%		97.9%	5.3%	45.0%	40.7%	14.2%
Truck	Van	1975	23.3%					0.2%								0.4%	66.1%	33.6%
Truck	Van	1976	20.5%					0.3%								0.3%	61.4%	38.3%
Truck	Van	1977	14.3%					0.4%								0.4%	61.0%	38.6%
Truck	Van	1978	13.0%					0.4%								0.4%	63.8%	35.8%
Truck	Van	1979	14.8%	6.8%				1.8%								1.8%	65.1%	33.1%
Truck	Van	1980	26.0%	39.0%				6.5%								6.5%	53.8%	39.7%
Truck	Van	1981	21.9%	46.6%				4.6%								4.6%	56.3%	39.2%
Truck	Van	1982	15.7%	45.8%				3.0%	1.8%							4.8%	58.0%	37.2%

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG (Lab 55/45)	Cu-Ft -MPG (Lab 55/45)	Cu-Ft-Ton-MPG (Lab 55/45)	Drivetrain	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Truck	Van	1983	383	0.037	17.7	14.1	16.5	15.1	4414		294	136	15.0	0.466	0.0307	39.7			0.2%	
Truck	Van	1984	676	0.048	18.9	15.0	17.7	16.1	4075		249	126	14.9	0.538	0.0307	39.3			22.3%	
Truck	Van	1985	855	0.059	19.5	15.5	18.1	16.5	3975		236	129	14.3	0.578	0.0322	39.3			30.4%	0.3%
Truck	Van	1986	1044	0.068	20.6	16.1	19.4	17.5	3998		228	127	14.5	0.588	0.0317	41.5			24.4%	1.3%
Truck	Van	1987	1114	0.075	20.9	16.2	19.8	17.7	3972		226	142	13.3	0.657	0.0356	41.7			27.5%	1.9%
Truck	Van	1988	1133	0.074	21.2	16.2	20.3	17.9	4053		229	147	13.0	0.671	0.0363	43.2			36.3%	0.8%
Truck	Van	1989	1278	0.088	21.1	16.1	20.2	17.8	4057		225	146	13.1	0.680	0.0360	43.2			34.4%	0.7%
Truck	Van	1990	1262	0.100	21.2	16.0	20.4	17.8	4095		225	149	13.0	0.682	0.0363	43.8			46.8%	6.6%
Truck	Van	1991	1034	0.082	21.4	16.0	20.5	17.9	4133		220	149	13.1	0.701	0.0359	44.5			38.2%	10.9%
Truck	Van	1992	1221	0.100	21.5	15.9	20.5	17.9	4151		222	152	12.9	0.705	0.0366	44.8			45.4%	5.5%
Truck	Van	1993	1441	0.109	21.9	16.0	21.0	18.2	4105		218	155	12.6	0.730	0.0378	45.0			49.8%	4.5%
Truck	Van	1994	1418	0.100	21.5	15.7	20.5	17.8	4156		226	159	12.4	0.721	0.0383	44.9			52.3%	6.4%
Truck	Van	1995	1662	0.110	21.8	15.8	21.0	18.1	4110		231	159	12.3	0.708	0.0387	45.0			61.3%	9.1%
Truck	Van	1996	1409	0.107	22.2	15.9	21.4	18.3	4195		220	171	11.8	0.790	0.0408	46.8			73.8%	2.3%
Truck	Van	1997	1265	0.088	22.1	15.7	21.2	18.2	4240		220	174	11.8	0.802	0.0410	46.9			64.8%	4.7%
Truck	Van	1998	1489	0.103	22.7	16.0	22.0	18.7	4183		217	180	11.3	0.840	0.0431	47.7			78.3%	3.2%
Truck	Van	1999	1463	0.096	22.3	15.6	21.5	18.3	4306		223	183	11.4	0.832	0.0424	48.1			76.0%	2.7%
Truck	Van	2000	1691	0.102	22.8	15.9	21.8	18.6	4276		217	183	11.4	0.858	0.0428	48.9			80.6%	2.7%
Truck	Van	2001	1232	0.079	22.1	15.3	21.1	18.0	4518		229	202	10.9	0.897	0.0447	50.3			69.3%	8.7%
Truck	Van	2002	1243	0.077	23.1	15.9	21.9	18.7	4394		218	199	10.8	0.929	0.0455	50.9			84.3%	3.0%
Truck	Van	2003	1232	0.078	23.5	16.0	22.2	19.0	4393		219	202	10.7	0.929	0.0459	51.7			83.5%	5.0%
Truck	Van	2004	953	0.061	23.7	16.0	22.7	19.2	4487		219	214	10.4	0.988	0.0477	53.4			86.6%	4.9%
Truck	Van	2005	1481	0.093	24.0	16.1	22.8	19.3	4430		216	209	10.5	0.976	0.0472	53.2			89.2%	5.5%
Truck	Van	2006	1166	0.077	24.3	16.2	23.1	19.5	4475		216	211	10.5	0.984	0.0472	54.4			89.8%	4.5%
Truck	Van	2007	847	0.055	24.2	16.1	23.1	19.5	4479		219	225	10.0	1.034	0.0503	54.3			93.8%	2.9%
Truck	Van	2008	790	0.057	24.6	16.4	23.5	19.8	4527		220	221	10.4	1.010	0.0488	55.9			92.9%	4.0%
Truck	Van	2009	368	0.040	25.0	16.7	23.7	20.1	4572		215	220	10.4	1.033	0.0482	57.2			94.1%	2.5%
Truck	Van	2010	559	0.050	25.0	16.7	23.7	20.1	4533		214	212	10.6	1.001	0.0467	56.8			96.3%	1.6%
Truck	Van	2011	521	0.043	26.3	17.5	24.7	21.0	4501		212	259	9.0	1.224	0.0574	59.2			91.5%	5.6%
Truck	Van	2012	685	0.051	26.3	17.5	24.9	21.1	4485		214	259	9.0	1.217	0.0576	59.1			92.5%	2.9%
Truck	Truck SUV	1975	177	0.017	13.0	10.6	11.5	11.0	4214		332	148	13.2	0.443	0.0361	27.2				88.9%
Truck	Truck SUV	1976	232	0.019	13.9	11.2	12.5	11.8	4328		339	142	14.0	0.415	0.0333	29.8				89.5%
Truck	Truck SUV	1977	264	0.019	15.1	12.2	13.7	12.8	4248		337	145	13.5	0.428	0.0345	32.0				88.4%
Truck	Truck SUV	1978	364	0.025	14.5	11.6	13.2	12.3	4282		342	150	13.2	0.435	0.0353	30.8				92.4%
Truck	Truck SUV	1979	385	0.028	12.4	10.3	10.8	10.5	4561		337	145	14.4	0.433	0.0323	28.3				72.2%
Truck	Truck SUV	1980	184	0.016	15.5	12.5	14.1	13.2	4237		295	131	14.7	0.453	0.0307	32.9				88.9%
Truck	Truck SUV	1981	136	0.013	16.8	13.4	15.5	14.3	4208		290	132	14.4	0.460	0.0315	35.4				90.5%
Truck	Truck SUV	1982	150	0.015	17.3	13.7	16.2	14.7	4494		305	133	15.1	0.444	0.0300	39.9				86.2%
Truck	Truck SUV	1983	256	0.025	18.5	14.5	17.7	15.8	4270		265	127	15.1	0.507	0.0300	40.3				91.3%
Truck	Truck SUV	1984	570	0.041	19.0	14.9	18.0	16.2	4049		231	122	15.0	0.554	0.0300	39.0				93.3%

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Midsize	Large
Truck	Van	1983	12.0%	59.3%				3.5%	4.5%							3.7%	60.1%	36.2%
Truck	Van	1984	15.5%	45.6%			6.6%	3.1%	1.2%							12.2%	62.1%	25.7%
Truck	Van	1985	10.0%	47.4%			6.3%	2.9%	0.3%							10.9%	70.1%	19.0%
Truck	Van	1986	8.5%	60.1%			21.8%	16.3%	0.4%							9.8%	74.9%	15.3%
Truck	Van	1987	6.4%	67.6%			45.8%	30.2%	0.1%							11.3%	76.2%	12.5%
Truck	Van	1988	3.7%	78.7%			56.9%	42.8%	0.1%							4.9%	83.0%	12.1%
Truck	Van	1989	2.9%	76.5%			58.1%	41.8%	0.1%							2.8%	86.1%	11.1%
Truck	Van	1990	1.8%	93.5%			58.1%	41.9%	0.1%							2.4%	89.1%	8.5%
Truck	Van	1991	1.4%	96.5%			63.3%	36.6%	0.1%							1.5%	91.2%	7.3%
Truck	Van	1992	1.6%	96.4%			71.9%	28.1%	0.1%							3.3%	89.1%	7.6%
Truck	Van	1993	1.2%	97.2%			79.0%	21.0%								0.8%	91.8%	7.4%
Truck	Van	1994	0.5%	97.4%			81.2%	18.8%		96.5%	2.1%	1.4%				0.8%	91.4%	7.9%
Truck	Van	1995	0.1%	98.2%			87.4%	12.6%		95.5%	1.0%	3.6%				0.4%	93.4%	6.3%
Truck	Van	1996	0.0%	98.4%			100.0%			94.3%	1.0%	4.7%				0.1%	92.1%	7.8%
Truck	Van	1997		99.6%			100.0%			93.7%	1.1%	5.3%					89.0%	11.0%
Truck	Van	1998		100.0%			100.0%			89.6%		10.4%					91.1%	8.9%
Truck	Van	1999		100.0%			100.0%			87.5%		12.5%		8.2%			88.3%	11.7%
Truck	Van	2000		100.0%			100.0%			78.4%		21.6%		15.0%			90.0%	10.0%
Truck	Van	2001		100.0%			100.0%			77.4%		22.6%		17.0%			76.2%	23.8%
Truck	Van	2002		100.0%			100.0%			71.6%		28.4%		20.9%			91.0%	9.0%
Truck	Van	2003		100.0%			100.0%			74.2%		25.8%		19.6%			91.0%	9.0%
Truck	Van	2004		100.0%			100.0%			47.7%		52.3%		46.1%			93.7%	6.3%
Truck	Van	2005		94.9%	5.1%		100.0%			62.0%		38.0%		25.0%			96.3%	3.7%
Truck	Van	2006		95.3%	4.7%		100.0%			53.2%		46.8%		36.4%			94.0%	6.0%
Truck	Van	2007		95.5%	4.5%		100.0%			46.9%		53.1%		48.7%			96.3%	3.7%
Truck	Van	2008	0.1%	99.9%			100.0%			47.2%		52.8%		48.1%		2.1%	94.5%	3.4%
Truck	Van	2009	0.3%	99.7%			100.0%			41.1%		58.9%		47.1%		6.0%	89.9%	4.1%
Truck	Van	2010	0.2%	99.8%			100.0%			48.2%		51.8%		37.7%		3.6%	93.7%	2.7%
Truck	Van	2011		96.9%	3.1%		100.0%			3.4%		96.6%		92.5%			96.6%	3.4%
Truck	Van	2012		91.8%	8.2%		100.0%			5.0%		95.0%		89.3%			95.8%	4.2%
Truck	Truck SUV	1975	39.8%													26.7%	67.3%	6.1%
Truck	Truck SUV	1976	32.2%													22.6%	70.5%	6.9%
Truck	Truck SUV	1977	32.6%													21.5%	71.9%	6.6%
Truck	Truck SUV	1978	32.1%													21.4%	73.3%	5.4%
Truck	Truck SUV	1979	33.1%	0.4%					0.2%							23.7%	48.0%	28.3%
Truck	Truck SUV	1980	43.6%	26.1%					2.3%							32.9%	54.3%	12.8%
Truck	Truck SUV	1981	41.0%	41.1%												31.4%	58.2%	10.4%
Truck	Truck SUV	1982	31.9%	45.0%					16.6%							21.1%	64.4%	14.5%
Truck	Truck SUV	1983	33.7%	52.3%					7.6%							16.7%	71.4%	11.9%
Truck	Truck SUV	1984	30.3%	40.8%					2.5%							24.9%	66.5%	8.6%

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG (Lab 55/45)	Cu-Ft -MPG (Lab 55/45)	Cu-Ft-Ton-MPG (Lab 55/45)	Drivetrain	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Truck	Truck SUV	1985	648	0.045	19.4	15.1	18.7	16.5	4092		222	123	15.1	0.583	0.0299	40.2				91.3%
Truck	Truck SUV	1986	714	0.046	20.1	15.6	19.1	17.0	3958		210	128	14.2	0.653	0.0323	40.0				93.3%
Truck	Truck SUV	1987	779	0.052	20.4	15.8	19.5	17.3	3882		212	137	13.4	0.680	0.0353	39.7				94.1%
Truck	Truck SUV	1988	859	0.056	20.2	15.5	19.2	17.0	3906		222	144	12.9	0.682	0.0369	39.4				94.3%
Truck	Truck SUV	1989	818	0.057	19.7	15.0	18.6	16.6	4086		244	156	12.5	0.665	0.0384	40.3				93.5%
Truck	Truck SUV	1990	643	0.051	19.6	14.8	18.6	16.4	4098		235	155	12.6	0.694	0.0381	40.1				92.5%
Truck	Truck SUV	1991	871	0.069	20.0	15.0	19.1	16.7	4157		233	162	12.3	0.709	0.0391	41.6				96.3%
Truck	Truck SUV	1992	761	0.062	19.4	14.5	18.5	16.2	4204		235	170	11.9	0.738	0.0408	40.8				95.4%
Truck	Truck SUV	1993	838	0.063	19.6	14.5	18.6	16.3	4331		244	179	11.7	0.753	0.0419	42.3				93.1%
Truck	Truck SUV	1994	1291	0.091	19.3	14.3	18.2	16.0	4331		245	180	11.6	0.756	0.0420	41.8				95.7%
Truck	Truck SUV	1995	1596	0.105	19.3	14.2	18.2	16.0	4323		245	177	11.7	0.751	0.0414	41.8				90.1%
Truck	Truck SUV	1996	1603	0.122	19.6	14.2	18.7	16.2	4386		259	189	11.3	0.744	0.0432	43.1				83.8%
Truck	Truck SUV	1997	2089	0.145	19.6	14.2	18.4	16.1	4463		255	190	11.4	0.765	0.0427	43.7				81.9%
Truck	Truck SUV	1998	2127	0.147	19.7	14.1	18.5	16.2	4450		252	192	11.3	0.786	0.0432	43.9				86.2%
Truck	Truck SUV	1999	2342	0.154	19.6	14.1	18.4	16.1	4518		253	204	10.9	0.837	0.0452	44.4				79.4%
Truck	Truck SUV	2000	2526	0.152	19.6	14.0	18.2	16.0	4602		253	206	10.9	0.839	0.0449	45.2				83.5%
Truck	Truck SUV	2001	2707	0.173	20.2	14.4	18.6	16.4	4546		239	213	10.6	0.920	0.0469	46.0			7.4%	76.5%
Truck	Truck SUV	2002	3588	0.223	20.1	14.1	18.7	16.3	4636		245	229	10.2	0.952	0.0493	46.6			1.7%	74.5%
Truck	Truck SUV	2003	3571	0.226	20.3	14.1	18.8	16.4	4754		247	233	10.2	0.967	0.0492	48.2			2.6%	73.7%
Truck	Truck SUV	2004	4075	0.259	20.4	14.1	19.0	16.5	4756		252	240	10.0	0.973	0.0505	48.5			2.8%	74.8%
Truck	Truck SUV	2005	3272	0.206	20.8	14.3	19.2	16.7	4756		244	244	9.8	1.018	0.0512	49.6			2.9%	77.2%
Truck	Truck SUV	2006	3006	0.199	21.4	14.7	19.7	17.2	4715		236	240	9.8	1.028	0.0507	50.9			5.1%	77.2%
Truck	Truck SUV	2007	3314	0.217	22.0	15.1	20.3	17.7	4797		240	252	9.7	1.068	0.0523	53.1			6.5%	75.3%
Truck	Truck SUV	2008	3072	0.221	22.7	15.5	20.9	18.2	4727		230	250	9.6	1.105	0.0525	54.0			10.1%	75.7%
Truck	Truck SUV	2009	1713	0.184	24.1	16.4	22.2	19.3	4547		211	244	9.5	1.170	0.0532	55.1			17.5%	75.0%
Truck	Truck SUV	2010	2305	0.208	24.7	16.8	22.6	19.7	4555		212	243	9.5	1.163	0.0531	56.6			14.2%	77.7%
Truck	Truck SUV	2011	3069	0.256	24.9	16.9	22.9	19.8	4665		217	257	9.4	1.203	0.0547	58.2			13.8%	77.3%
Truck	Truck SUV	2012	2797	0.210	25.4	17.2	23.3	20.2	4602		215	261	9.1	1.237	0.0564	58.6			15.4%	76.5%
Truck	Pickup	1975	1343	0.131	14.0	11.1	13.1	11.9	4012		306	141	13.5	0.491	0.0351	28.8				13.5%
Truck	Pickup	1976	1866	0.151	14.6	11.7	13.4	12.4	4122		316	139	13.9	0.466	0.0339	30.9				20.9%
Truck	Pickup	1977	2026	0.143	16.0	12.9	14.5	13.6	4092		313	146	13.3	0.496	0.0357	33.4				21.4%
Truck	Pickup	1978	2268	0.157	15.7	12.8	14.1	13.3	4104		306	144	13.4	0.496	0.0350	33.1				27.0%
Truck	Pickup	1979	2207	0.159	15.5	12.7	13.9	13.2	4142		287	136	14.2	0.502	0.0327	32.9				12.6%
Truck	Pickup	1980	1437	0.127	19.4	15.5	17.9	16.5	3740		236	118	14.4	0.549	0.0315	36.7			1.8%	21.1%
Truck	Pickup	1981	1440	0.136	21.0	16.7	19.5	17.9	3679		237	115	14.5	0.521	0.0313	39.3			2.3%	16.8%
Truck	Pickup	1982	1441	0.148	21.7	17.2	20.3	18.5	3629		228	117	14.3	0.545	0.0322	40.1			2.2%	17.7%
Truck	Pickup	1983	1628	0.158	22.2	17.5	20.9	18.9	3544		212	112	14.4	0.566	0.0317	40.0			1.9%	22.1%
Truck	Pickup	1984	2043	0.146	21.5	16.9	20.2	18.3	3619		215	114	14.5	0.563	0.0314	39.4			0.6%	24.7%
Truck	Pickup	1985	2078	0.144	21.4	16.9	20.1	18.2	3642		221	123	13.7	0.588	0.0336	39.6				25.4%
Truck	Pickup	1986	2532	0.165	22.2	17.5	20.8	18.9	3574		206	120	13.7	0.623	0.0336	40.1				25.2%

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Midsize	Large
Truck	Truck SUV	1985	29.5%	56.9%			4.4%	1.0%	1.7%							17.8%	73.3%	8.9%
Truck	Truck SUV	1986	38.9%	53.6%			25.9%	20.6%	1.7%							24.7%	67.1%	8.2%
Truck	Truck SUV	1987	39.6%	51.0%			33.1%	38.7%	0.5%							29.8%	62.9%	7.3%
Truck	Truck SUV	1988	34.5%	57.5%			47.3%	34.8%	0.3%							29.1%	62.9%	8.1%
Truck	Truck SUV	1989	26.0%	65.6%			46.3%	46.5%	0.3%							23.6%	67.3%	9.0%
Truck	Truck SUV	1990	29.1%	66.8%			56.7%	37.8%	0.3%							25.3%	63.5%	11.2%
Truck	Truck SUV	1991	21.8%	76.5%			62.2%	37.2%	0.2%							10.2%	83.5%	6.2%
Truck	Truck SUV	1992	21.7%	77.4%			74.5%	25.5%								10.6%	79.5%	9.8%
Truck	Truck SUV	1993	19.1%	79.9%			83.0%	17.0%								11.4%	73.2%	15.4%
Truck	Truck SUV	1994	15.2%	84.8%			84.7%	15.3%		86.6%	5.4%	8.0%				9.8%	77.1%	13.1%
Truck	Truck SUV	1995	15.0%	85.0%			84.9%	15.1%		84.9%		15.1%				10.3%	75.3%	14.4%
Truck	Truck SUV	1996	6.1%	93.9%			100.0%		0.0%	86.5%		13.5%				4.9%	80.0%	15.0%
Truck	Truck SUV	1997	9.7%	90.3%			100.0%		0.0%	80.9%		19.1%				16.3%	56.9%	26.8%
Truck	Truck SUV	1998	7.5%	92.5%			100.0%		0.0%	78.0%	1.9%	20.1%				10.9%	58.9%	30.2%
Truck	Truck SUV	1999	5.9%	94.1%			100.0%			73.6%	2.2%	24.2%		2.9%		10.6%	57.4%	32.0%
Truck	Truck SUV	2000	4.9%	95.1%			100.0%			77.3%	1.4%	21.3%		2.5%		10.6%	54.7%	34.7%
Truck	Truck SUV	2001	3.8%	96.2%			100.0%			60.4%	1.5%	38.1%		14.4%		9.3%	51.1%	39.6%
Truck	Truck SUV	2002	3.2%	96.7%	0.0%		100.0%			55.8%	1.2%	43.0%		25.0%		6.8%	37.6%	55.6%
Truck	Truck SUV	2003	2.2%	96.5%	1.3%		100.0%			48.4%	1.0%	50.6%		33.4%		5.8%	46.0%	48.2%
Truck	Truck SUV	2004	2.2%	96.7%	1.0%		100.0%		0.0%	46.8%	0.5%	52.3%	0.4%	38.4%		5.2%	49.1%	45.7%
Truck	Truck SUV	2005	2.2%	96.3%	1.5%		99.7%		0.3%	35.7%	4.2%	59.8%	0.2%	50.0%	0.2%	5.3%	49.0%	45.7%
Truck	Truck SUV	2006	2.4%	93.0%	4.6%		99.7%		0.3%	30.2%	6.6%	63.1%	0.1%	60.2%	3.1%	4.4%	54.0%	41.6%
Truck	Truck SUV	2007	2.1%	92.1%	5.8%		99.7%		0.3%	38.2%	1.9%	59.9%		54.3%	1.4%	4.3%	46.4%	49.2%
Truck	Truck SUV	2008	1.7%	91.6%	6.7%	2.0%	97.6%		0.4%	28.2%	1.7%	70.1%		60.5%	2.4%	4.9%	51.1%	44.0%
Truck	Truck SUV	2009	1.2%	88.2%	10.7%	7.6%	91.9%		0.5%	17.7%	0.7%	81.6%		69.1%	1.6%	3.3%	56.3%	40.4%
Truck	Truck SUV	2010	1.8%	86.8%	10.6%	12.2%	87.2%		0.6%	17.3%	2.0%	80.8%		83.0%	1.5%	4.3%	56.8%	38.9%
Truck	Truck SUV	2011	1.2%	87.4%	11.4%	15.1%	84.1%		0.8%	16.4%	1.7%	81.9%		92.6%	0.6%		54.5%	45.5%
Truck	Truck SUV	2012	2.0%	86.7%	11.4%	15.9%	83.3%		0.8%	13.1%	2.0%	84.9%		96.4%	1.6%		49.3%	50.7%
Truck	Pickup	1975	41.1%													11.9%	4.2%	83.9%
Truck	Pickup	1976	38.8%													9.3%	2.9%	87.8%
Truck	Pickup	1977	35.9%													11.7%	3.4%	84.9%
Truck	Pickup	1978	37.4%						1.2%							11.6%	3.3%	85.0%
Truck	Pickup	1979	39.9%	1.3%					2.5%							16.2%	4.6%	79.2%
Truck	Pickup	1980	58.8%	21.9%				1.0%	4.2%							31.5%	6.8%	61.7%
Truck	Pickup	1981	57.7%	27.5%				0.6%	7.1%							25.6%	9.1%	65.3%
Truck	Pickup	1982	53.9%	29.5%				0.2%	10.3%							24.0%	21.9%	54.1%
Truck	Pickup	1983	56.3%	28.0%				0.1%	4.4%							19.2%	38.2%	42.7%
Truck	Pickup	1984	54.9%	29.3%			1.0%		2.7%							20.7%	34.4%	44.9%
Truck	Pickup	1985	51.6%	33.7%			11.4%	4.5%	1.2%							23.9%	29.7%	46.4%
Truck	Pickup	1986	58.4%	30.4%			21.2%	17.6%	0.6%							29.4%	31.1%	39.5%

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG (Lab 55/45)	Cu-Ft -MPG (Lab 55/45)	Cu-Ft-Ton-MPG (Lab 55/45)	Drivetrain	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Truck	Pickup	1987	2147	0.144	22.5	17.5	21.2	19.0	3526		202	123	13.4	0.639	0.0347	40.1			0.0%	25.5%
Truck	Pickup	1988	2459	0.161	21.5	16.5	20.4	18.1	3737		229	138	12.9	0.627	0.0365	40.5			0.0%	28.4%
Truck	Pickup	1989	2232	0.154	21.2	16.2	20.0	17.8	3803		236	143	12.7	0.633	0.0373	40.5				28.9%
Truck	Pickup	1990	1835	0.145	20.7	15.7	19.7	17.4	3928		247	152	12.4	0.647	0.0384	41.1				27.9%
Truck	Pickup	1991	1920	0.153	21.7	16.3	20.7	18.2	3779		232	146	12.4	0.658	0.0385	41.4				24.8%
Truck	Pickup	1992	1840	0.151	20.9	15.5	20.0	17.5	3976		245	151	12.5	0.644	0.0379	41.8				26.3%
Truck	Pickup	1993	2002	0.152	21.1	15.6	20.2	17.6	3996		244	156	12.2	0.666	0.0390	42.4			0.0%	27.6%
Truck	Pickup	1994	2669	0.189	21.0	15.5	19.9	17.4	4056		248	163	12.0	0.687	0.0401	43.0				29.3%
Truck	Pickup	1995	2271	0.150	20.4	14.9	19.3	16.9	4182		257	167	12.0	0.687	0.0399	43.1				33.0%
Truck	Pickup	1996	1955	0.149	20.8	15.1	19.7	17.1	4190		251	178	11.5	0.737	0.0422	43.9				29.3%
Truck	Pickup	1997	2408	0.167	20.4	14.7	19.4	16.8	4415		264	196	11.1	0.756	0.0439	45.3				34.7%
Truck	Pickup	1998	2415	0.167	20.7	14.8	19.6	17.0	4282		252	190	11.2	0.773	0.0439	44.6				34.8%
Truck	Pickup	1999	2544	0.167	19.9	14.2	18.6	16.3	4486		267	205	10.9	0.776	0.0453	44.7				45.3%
Truck	Pickup	2000	2612	0.158	20.5	14.6	18.9	16.7	4340		255	203	10.8	0.803	0.0462	44.4				38.4%
Truck	Pickup	2001	2519	0.161	19.6	13.9	18.1	16.0	4551		269	216	10.6	0.812	0.0470	44.7				38.7%
Truck	Pickup	2002	2380	0.148	19.5	13.8	17.8	15.8	4690		271	226	10.4	0.838	0.0480	45.6				42.4%
Truck	Pickup	2003	2474	0.157	19.9	14.0	18.2	16.1	4642		264	223	10.5	0.847	0.0475	46.3				39.5%
Truck	Pickup	2004	2505	0.159	19.6	13.7	17.8	15.7	4939		281	249	10.1	0.885	0.0501	48.2				46.3%
Truck	Pickup	2005	2300	0.145	19.7	13.6	18.1	15.8	4988		284	260	9.8	0.917	0.0520	49.1				46.7%
Truck	Pickup	2006	2188	0.145	20.1	13.9	18.4	16.1	4968		278	256	9.9	0.925	0.0514	49.8				45.8%
Truck	Pickup	2007	2113	0.138	20.1	13.8	18.5	16.2	5144		286	269	9.8	0.938	0.0519	51.6				45.4%
Truck	Pickup	2008	1794	0.129	20.5	14.1	18.9	16.5	5161		286	276	9.7	0.962	0.0531	53.0				47.5%
Truck	Pickup	2009	989	0.106	21.0	14.4	19.5	16.9	5176		287	278	9.5	0.971	0.0534	54.3				50.6%
Truck	Pickup	2010	1276	0.115	20.9	14.3	19.4	16.9	5309		293	289	9.4	0.987	0.0542	55.5				57.0%
Truck	Pickup	2011	1479	0.123	21.4	14.6	19.9	17.2	5268		282	304	9.1	1.086	0.0571	56.3				60.3%
Truck	Pickup	2012	1337	0.100	21.5	14.7	20.0	17.3	5301		285	312	8.9	1.109	0.0585	57.1				53.5%
Truck	All	1975	1977	0.193	13.7	10.9	12.7	11.6	4073		311	142	13.6	0.476	0.0349	28.5				17.2%
Truck	All	1976	2600	0.211	14.4	11.6	13.2	12.2	4155		320	141	13.8	0.458	0.0340	30.5				23.0%
Truck	All	1977	2805	0.199	15.6	12.6	14.2	13.3	4136		318	147	13.3	0.482	0.0356	33.0				23.8%
Truck	All	1978	3257	0.225	15.3	12.4	13.7	12.9	4152		315	146	13.4	0.481	0.0351	32.4				29.1%
Truck	All	1979	3072	0.221	14.7	12.1	13.1	12.5	4257		299	138	14.3	0.485	0.0325	32.1				18.1%
Truck	All	1980	1863	0.165	18.6	14.8	17.1	15.8	3869		248	121	14.5	0.528	0.0313	36.3			1.4%	25.0%
Truck	All	1981	1821	0.172	20.1	16.0	18.6	17.1	3806		247	119	14.6	0.508	0.0311	38.8			1.9%	20.1%
Truck	All	1982	1901	0.195	20.5	16.3	19.0	17.4	3813		244	120	14.5	0.524	0.0317	39.7			1.7%	20.2%
Truck	All	1983	2267	0.220	20.8	16.5	19.6	17.7	3773		232	118	14.6	0.542	0.0313	39.9			1.4%	26.1%
Truck	All	1984	3289	0.235	20.4	16.1	19.3	17.4	3787		225	118	14.7	0.556	0.0310	39.3			5.0%	31.5%
Truck	All	1985	3581	0.248	20.5	16.2	19.3	17.5	3803		225	124	14.1	0.585	0.0326	39.6			7.3%	31.3%
Truck	All	1986	4291	0.279	21.4	16.8	20.1	18.2	3741		212	123	14.0	0.619	0.0330	40.4			5.9%	30.7%
Truck	All	1987	4039	0.272	21.6	16.8	20.4	18.3	3718		211	131	13.4	0.652	0.0351	40.5			7.6%	32.2%
Truck	All	1988	4450	0.291	21.1	16.2	20.1	17.8	3850		228	141	13.0	0.649	0.0365	40.9			9.2%	34.1%

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Midsize	Large
Truck	Pickup	1987	58.5%	28.9%			26.9%	32.0%	0.3%							20.5%	49.0%	30.5%
Truck	Pickup	1988	51.0%	38.8%			35.4%	48.3%	0.2%							13.8%	42.9%	43.3%
Truck	Pickup	1989	52.4%	41.5%			38.8%	51.1%	0.2%							15.9%	39.8%	44.4%
Truck	Pickup	1990	45.8%	49.8%			52.4%	41.4%	0.2%							15.8%	32.7%	51.5%
Truck	Pickup	1991	52.2%	46.4%			47.9%	48.7%	0.2%							16.1%	45.5%	38.4%
Truck	Pickup	1992	47.1%	52.1%			58.0%	38.6%	0.1%							13.7%	38.9%	47.4%
Truck	Pickup	1993	43.9%	55.3%			61.2%	36.7%								13.1%	37.1%	49.7%
Truck	Pickup	1994	40.0%	59.0%			69.5%	29.7%		97.8%	2.1%	0.1%				13.4%	39.0%	47.6%
Truck	Pickup	1995	39.6%	59.5%			69.5%	30.5%		94.5%		5.5%				13.1%	30.8%	56.0%
Truck	Pickup	1996	34.6%	64.0%			99.8%		0.2%	86.7%	4.5%	8.7%				11.3%	35.7%	53.0%
Truck	Pickup	1997	25.3%	74.7%			99.9%		0.1%	93.3%	5.4%	1.3%				5.4%	28.7%	65.9%
Truck	Pickup	1998	27.3%	71.1%			100.0%		0.0%	88.8%		11.2%				10.8%	34.3%	54.9%
Truck	Pickup	1999	17.5%	81.5%			100.0%		0.0%	92.3%		7.7%				8.4%	29.9%	61.7%
Truck	Pickup	2000	16.7%	82.5%			100.0%			87.3%		12.7%				3.9%	29.3%	66.8%
Truck	Pickup	2001	12.0%	87.1%			100.0%			87.2%		12.8%				3.2%	21.6%	75.1%
Truck	Pickup	2002	9.5%	89.6%			100.0%			82.2%		17.8%				8.3%	19.6%	72.1%
Truck	Pickup	2003	10.3%	88.8%			100.0%			85.5%		14.5%				7.9%	21.3%	70.8%
Truck	Pickup	2004	7.0%	92.1%			100.0%			67.6%	14.3%	18.1%		18.9%	0.0%	6.4%	15.1%	78.5%
Truck	Pickup	2005	5.7%	94.3%			100.0%			59.1%	14.0%	26.8%		39.1%	0.0%	0.4%	9.4%	90.2%
Truck	Pickup	2006	6.2%	93.8%			100.0%			51.0%	14.9%	34.2%		47.5%	0.1%	0.3%	12.5%	87.1%
Truck	Pickup	2007	4.4%	95.6%			100.0%			60.0%	12.5%	27.5%		40.0%	0.0%		12.5%	87.5%
Truck	Pickup	2008	4.0%	96.0%			100.0%			58.7%	11.0%	30.2%		37.8%			15.5%	84.5%
Truck	Pickup	2009	4.1%	95.7%	0.2%		100.0%			57.6%	16.4%	26.0%		36.8%	0.2%		18.6%	81.4%
Truck	Pickup	2010	2.4%	97.5%	0.1%		100.0%			40.1%	29.8%	30.1%		62.2%	0.1%		12.0%	88.0%
Truck	Pickup	2011	2.1%	97.8%	0.1%	7.6%	92.4%			49.9%		50.1%		86.1%	0.1%		1.4%	98.6%
Truck	Pickup	2012	2.7%	97.1%	0.2%	9.7%	90.3%			44.7%		55.3%		91.9%	0.2%		2.3%	97.7%
Truck	All	1975	36.9%					0.1%								10.6%	24.1%	65.3%
Truck	All	1976	34.7%					0.1%								8.7%	20.2%	71.0%
Truck	All	1977	31.6%					0.1%								10.6%	20.4%	69.0%
Truck	All	1978	32.1%					0.1%	0.8%							10.6%	22.7%	66.7%
Truck	All	1979	35.1%	2.1%				0.3%	1.8%							14.9%	19.5%	65.6%
Truck	All	1980	53.0%	24.5%				1.7%	3.5%							28.4%	17.6%	54.0%
Truck	All	1981	51.6%	31.1%				1.1%	5.6%							23.2%	19.1%	57.7%
Truck	All	1982	45.9%	33.4%				0.7%	9.4%							20.6%	31.1%	48.2%
Truck	All	1983	46.3%	36.0%				0.6%	4.8%							16.3%	45.6%	38.1%
Truck	All	1984	42.5%	34.6%			2.0%	0.6%	2.4%							19.7%	45.6%	34.7%
Truck	All	1985	37.6%	41.1%			8.9%	3.5%	1.1%							19.7%	47.2%	33.1%
Truck	All	1986	43.0%	41.5%			22.1%	17.8%	0.7%							23.8%	47.8%	28.4%
Truck	All	1987	40.5%	43.8%			33.3%	32.8%	0.3%							19.8%	59.2%	21.1%
Truck	All	1988	35.8%	52.5%			43.2%	44.3%	0.2%							14.5%	57.0%	28.5%

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG (Lab 55/45)	Cu-Ft -MPG (Lab 55/45)	Cu-Ft-Ton-MPG (Lab 55/45)	Drivetrain	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Truck	All	1989	4327	0.299	20.9	15.9	19.8	17.6	3932		234	146	12.8	0.653	0.0371	41.3			10.1%	32.8%
Truck	All	1990	3740	0.296	20.7	15.6	19.8	17.4	4014		237	151	12.6	0.667	0.0377	41.8			15.8%	31.8%
Truck	All	1991	3825	0.304	21.2	15.9	20.2	17.8	3961		229	150	12.5	0.681	0.0379	42.3			10.3%	37.3%
Truck	All	1992	3822	0.314	20.8	15.4	19.9	17.3	4078		236	155	12.5	0.682	0.0380	42.6			14.5%	33.4%
Truck	All	1993	4281	0.324	21.0	15.5	20.1	17.5	4098		235	160	12.2	0.705	0.0391	43.2			16.8%	32.7%
Truck	All	1994	5378	0.381	20.7	15.2	19.6	17.2	4149		241	166	12.0	0.713	0.0401	43.2			13.8%	39.2%
Truck	All	1995	5529	0.365	20.5	14.9	19.4	17.0	4201		245	168	12.0	0.712	0.0400	43.3			18.4%	42.3%
Truck	All	1996	4967	0.378	20.8	15.0	19.8	17.2	4255		245	179	11.6	0.755	0.0421	44.5			20.9%	39.2%
Truck	All	1997	5762	0.399	20.5	14.7	19.4	16.8	4394		251	189	11.4	0.769	0.0428	45.1			14.2%	45.2%
Truck	All	1998	6030	0.417	20.8	14.8	19.7	17.1	4317		244	188	11.2	0.794	0.0435	45.1			19.3%	45.1%
Truck	All	1999	6350	0.417	20.3	14.5	19.1	16.6	4457		252	199	11.0	0.811	0.0446	45.4			17.5%	48.1%
Truck	All	2000	6829	0.412	20.7	14.7	19.3	16.8	4421		245	199	11.0	0.830	0.0448	45.8			20.0%	46.3%
Truck	All	2001	6458	0.414	20.3	14.4	18.8	16.5	4543		249	212	10.6	0.873	0.0465	46.3			16.3%	48.8%
Truck	All	2002	7211	0.447	20.3	14.3	18.8	16.5	4612		249	223	10.3	0.911	0.0482	47.0			15.4%	51.6%
Truck	All	2003	7277	0.461	20.7	14.4	19.1	16.7	4655		248	224	10.4	0.920	0.0481	48.1			15.4%	50.4%
Truck	All	2004	7533	0.480	20.5	14.2	18.9	16.5	4783		258	240	10.1	0.946	0.0500	49.0			12.5%	56.5%
Truck	All	2005	7053	0.444	21.0	14.4	19.5	16.9	4763		251	242	10.0	0.976	0.0506	50.2			20.1%	52.2%
Truck	All	2006	6360	0.421	21.4	14.6	19.7	17.2	4758		247	240	10.0	0.985	0.0503	51.2			18.9%	53.1%
Truck	All	2007	6275	0.411	21.6	14.8	20.0	17.4	4871		253	254	9.8	1.020	0.0519	52.8			16.1%	55.5%
Truck	All	2008	5656	0.407	22.2	15.1	20.5	17.8	4837		246	254	9.7	1.046	0.0522	53.9			18.4%	56.8%
Truck	All	2009	3071	0.330	23.1	15.7	21.4	18.5	4753		236	252	9.7	1.089	0.0527	55.1			21.0%	58.4%
Truck	All	2010	4141	0.373	23.4	15.9	21.7	18.8	4784		237	253	9.7	1.087	0.0526	56.3			20.9%	61.0%
Truck	All	2011	5069	0.422	23.9	16.2	22.1	19.1	4824		236	271	9.2	1.171	0.0557	57.8			17.7%	65.0%
Truck	All	2012	4819	0.361	24.3	16.4	22.5	19.4	4779		234	275	9.0	1.198	0.0571	58.2			22.1%	59.6%
All	All	1975	10224	1.000	15.3	12.0	14.6	13.1	4060		293	137	14.1	0.507	0.0335	31.6			5.3%	3.3%
All	All	1976	12334	1.000	16.7	13.2	15.7	14.2	4079		294	135	14.3	0.493	0.0328	34.4			4.6%	4.8%
All	All	1977	14123	1.000	17.7	14.0	16.6	15.1	3982		287	136	13.8	0.510	0.0339	35.7			5.5%	4.7%
All	All	1978	14448	1.000	18.6	14.7	17.5	15.8	3715		266	129	13.6	0.525	0.0344	35.1			7.4%	6.6%
All	All	1979	13882	1.000	18.7	14.9	17.4	15.9	3655		252	124	13.9	0.532	0.0335	34.7			9.2%	4.3%
All	All	1980	11306	1.000	22.5	17.6	21.5	19.2	3228		198	104	14.3	0.574	0.0320	36.6			25.0%	4.9%
All	All	1981	10554	1.000	24.1	18.8	23.0	20.5	3202		193	102	14.4	0.580	0.0318	38.9			31.0%	4.0%
All	All	1982	9732	1.000	24.7	19.2	23.9	21.1	3202		188	103	14.4	0.593	0.0320	40.0			37.0%	4.6%
All	All	1983	10302	1.000	24.6	19.0	23.9	21.0	3257		193	107	14.1	0.599	0.0327	40.5			37.0%	8.1%
All	All	1984	14020	1.000	24.6	19.1	24.0	21.0	3262		190	109	14.0	0.618	0.0332	40.7			42.1%	8.2%
All	All	1985	14460	1.000	25.0	19.3	24.4	21.3	3271		189	114	13.5	0.650	0.0347	41.4			47.8%	9.3%
All	All	1986	15365	1.000	25.7	19.8	25.0	21.8	3238		180	114	13.4	0.678	0.0351	42.0			52.6%	9.3%
All	All	1987	14865	1.000	25.9	19.8	25.3	22.0	3221		175	118	13.1	0.710	0.0361	42.1			57.7%	9.6%
All	All	1988	15295	1.000	25.9	19.6	25.2	21.9	3283		180	123	12.8	0.726	0.0372	42.9			60.0%	10.5%
All	All	1989	14453	1.000	25.4	19.1	24.8	21.4	3351		185	129	12.5	0.743	0.0382	43.0			60.2%	10.5%
All	All	1990	12615	1.000	25.2	18.7	24.6	21.2	3426		185	135	12.2	0.781	0.0394	43.5			63.8%	10.1%

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Midsize	Large
Truck	All	1989	32.8%	56.4%			45.9%	47.5%	0.2%							13.5%	58.7%	27.9%
Truck	All	1990	28.1%	67.5%			55.0%	40.9%	0.2%							12.9%	57.0%	30.1%
Truck	All	1991	31.5%	66.8%			55.3%	42.8%	0.1%							10.8%	66.5%	22.7%
Truck	All	1992	27.5%	71.3%			65.7%	32.6%	0.1%							9.8%	63.0%	27.2%
Truck	All	1993	24.7%	74.2%			71.5%	27.5%								8.7%	62.6%	28.8%
Truck	All	1994	23.7%	75.3%			76.2%	23.4%		94.8%	2.9%	2.3%				9.2%	61.9%	28.9%
Truck	All	1995	20.7%	78.5%			79.4%	20.6%		92.0%	0.3%	7.7%				8.5%	62.5%	29.1%
Truck	All	1996	15.6%	83.4%			99.9%		0.1%	88.8%	2.1%	9.1%				6.1%	66.0%	27.9%
Truck	All	1997	14.1%	85.8%			100.0%		0.0%	88.9%	2.5%	8.6%				8.2%	52.2%	39.7%
Truck	All	1998	13.6%	85.8%			100.0%		0.0%	85.2%	0.7%	14.2%				8.2%	57.0%	34.8%
Truck	All	1999	9.2%	90.4%			100.0%		0.0%	84.3%	0.8%	14.9%		3.0%		7.3%	53.5%	39.2%
Truck	All	2000	8.2%	91.5%			100.0%			81.4%	0.5%	18.1%		4.6%		5.4%	53.7%	40.9%
Truck	All	2001	6.3%	93.4%			100.0%			74.1%	0.6%	25.2%		9.3%		5.2%	44.4%	50.4%
Truck	All	2002	4.7%	94.9%	0.0%		100.0%			67.2%	0.6%	32.1%		16.0%		6.1%	40.9%	53.0%
Truck	All	2003	4.6%	94.4%	0.6%		100.0%			65.4%	0.5%	34.1%		19.7%		5.5%	45.2%	49.3%
Truck	All	2004	3.5%	95.6%	0.6%		100.0%		0.0%	53.8%	5.0%	40.9%	0.2%	32.9%	0.0%	4.9%	43.4%	51.6%
Truck	All	2005	2.9%	95.3%	1.8%		99.9%		0.1%	48.9%	6.5%	44.5%	0.1%	41.2%	0.1%	2.6%	46.0%	51.4%
Truck	All	2006	3.3%	93.7%	3.1%		99.9%		0.1%	41.6%	8.2%	50.1%	0.1%	51.5%	1.5%	2.2%	47.1%	50.7%
Truck	All	2007	2.6%	93.8%	3.7%		99.9%		0.1%	46.7%	5.2%	48.1%		48.7%	0.8%	2.3%	41.7%	56.0%
Truck	All	2008	2.2%	94.1%	3.6%	1.1%	98.7%		0.2%	40.5%	4.4%	55.0%		51.6%	1.3%	3.0%	45.9%	51.2%
Truck	All	2009	2.0%	92.0%	6.0%	4.2%	95.5%		0.3%	33.4%	5.7%	61.0%		56.0%	0.9%	2.6%	48.2%	49.2%
Truck	All	2010	1.8%	91.9%	5.9%	6.8%	92.9%		0.4%	28.5%	10.3%	61.2%		70.5%	0.9%	2.9%	48.0%	49.2%
Truck	All	2011	1.3%	91.4%	7.3%	11.3%	88.1%		0.5%	24.8%	1.0%	74.1%		90.7%	0.4%		43.4%	56.6%
Truck	All	2012	1.9%	90.3%	7.8%	11.9%	87.6%		0.5%	20.7%	1.2%	78.2%		94.2%	1.0%		42.9%	57.1%
All	All	1975	23.0%	0.2%			4.1%	0.0%	0.2%							46.8%	23.5%	29.8%
All	All	1976	20.9%				2.5%	0.0%	0.2%							45.6%	24.2%	30.3%
All	All	1977	19.8%				3.4%	0.0%	0.4%							43.7%	23.7%	32.5%
All	All	1978	22.7%	5.5%			3.9%	0.0%	0.9%							37.0%	31.7%	31.2%
All	All	1979	24.2%	7.3%			3.7%	0.1%	2.0%							37.3%	30.9%	31.7%
All	All	1980	34.6%	18.1%			5.2%	0.8%	4.3%							50.1%	31.6%	18.3%
All	All	1981	33.6%	33.0%			5.1%	2.4%	5.9%							46.6%	33.4%	20.0%
All	All	1982	32.4%	47.8%			5.8%	8.0%	5.6%							49.6%	31.0%	19.5%
All	All	1983	30.5%	52.1%			7.3%	14.8%	2.7%							44.9%	34.9%	20.1%
All	All	1984	28.4%	52.8%			11.9%	18.7%	1.8%							48.4%	33.4%	18.2%
All	All	1985	26.5%	54.5%			18.2%	24.8%	0.9%							46.5%	33.9%	19.7%
All	All	1986	29.8%	53.5%			32.5%	25.7%	0.4%	68.7%	2.3%	1.1%				49.3%	33.7%	17.0%
All	All	1987	29.1%	55.4%			39.9%	31.4%	0.3%	62.2%	6.6%	4.0%				51.4%	34.1%	14.5%
All	All	1988	27.6%	62.2%			50.6%	34.3%	0.1%	57.0%	6.6%	7.3%				50.0%	32.7%	17.3%
All	All	1989	24.6%	65.5%	0.1%		57.3%	33.9%	0.1%	53.2%	8.0%	8.9%				44.7%	37.6%	17.7%
All	All	1990	22.2%	71.2%	0.0%		70.8%	27.0%	0.1%	47.3%	3.8%	19.3%		0.4%		44.9%	37.2%	17.8%

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton- MPG (Lab 55/45)	Cu-Ft -MPG (Lab 55/45)	Cu-Ft- Ton-MPG (Lab 55/45)	Drivetrain	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
All	All	1991	12573	1.000	25.4	18.8	24.7	21.3	3410		184	138	12.1	0.796	0.0402	43.6			59.6%	12.3%
All	All	1992	12172	1.000	24.9	18.2	24.4	20.8	3512		191	145	11.8	0.807	0.0413	44.1			58.4%	11.2%
All	All	1993	13211	1.000	25.1	18.2	24.4	20.9	3519		191	147	11.8	0.809	0.0416	44.5			59.9%	11.3%
All	All	1994	14125	1.000	24.6	17.8	23.8	20.4	3603		197	152	11.7	0.816	0.0420	44.6			55.6%	15.2%
All	All	1995	15145	1.000	24.7	17.7	24.1	20.5	3613		196	158	11.3	0.857	0.0438	45.2			57.6%	16.2%
All	All	1996	13144	1.000	24.8	17.6	24.0	20.4	3659		197	164	11.1	0.878	0.0447	45.6			60.0%	15.7%
All	All	1997	14458	1.000	24.5	17.4	23.6	20.2	3727		199	169	11.0	0.890	0.0452	45.9			56.1%	19.0%
All	All	1998	14456	1.000	24.5	17.2	23.6	20.1	3744		199	171	10.9	0.904	0.0457	46.3			56.4%	20.1%
All	All	1999	15215	1.000	24.1	16.9	23.0	19.7	3835		203	179	10.7	0.921	0.0465	46.5			55.8%	21.3%
All	All	2000	16571	1.000	24.3	16.9	23.0	19.8	3821		200	181	10.6	0.942	0.0472	46.7			55.5%	20.2%
All	All	2001	15605	1.000	24.2	16.8	22.8	19.6	3879		201	187	10.5	0.968	0.0480	47.3			53.8%	22.0%
All	All	2002	16115	1.000	24.1	16.6	22.5	19.5	3951		203	195	10.2	0.994	0.0493	47.9			52.7%	25.0%
All	All	2003	15773	1.000	24.3	16.7	22.7	19.6	3999		204	199	10.2	1.007	0.0496	49.0			50.7%	25.0%
All	All	2004	15709	1.000	24.0	16.3	22.4	19.3	4111		212	211	9.9	1.026	0.0511	49.7			47.7%	29.8%
All	All	2005	15892	1.000	24.8	16.8	23.1	19.9	4059		205	209	9.9	1.049	0.0512	50.9			53.0%	26.8%
All	All	2006	15104	1.000	25.2	17.0	23.4	20.1	4067		204	213	9.8	1.073	0.0522	51.7			51.9%	25.8%
All	All	2007	15276	1.000	25.8	17.4	24.0	20.6	4093		203	217	9.7	1.099	0.0525	53.4			54.3%	26.1%
All	All	2008	13898	1.000	26.3	17.7	24.4	21.0	4085		199	219	9.7	1.122	0.0529	54.4			54.2%	27.3%
All	All	2009	9315	1.000	28.2	18.9	26.0	22.4	3914		183	208	9.7	1.156	0.0523	55.9			62.9%	23.5%
All	All	2010	11110	1.000	28.4	19.1	26.2	22.6	4002		188	214	9.6	1.160	0.0527	58.3			59.5%	26.7%
All	All	2011	12003	1.000	28.1	18.8	26.1	22.4	4127		192	230	9.4	1.217	0.0550	58.8			53.8%	32.4%

2012 FE Trends Report
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Midsize	Large
All	All	1991	23.9%	71.6%	0.0%		70.6%	28.7%	0.1%	46.5%	4.2%	18.9%		1.7%		45.3%	39.4%	15.2%
All	All	1992	20.7%	74.8%	0.0%		81.6%	17.8%	0.1%	45.3%	3.0%	20.3%		3.0%		41.1%	39.9%	19.0%
All	All	1993	19.8%	76.5%	0.0%		85.0%	14.6%		44.1%	1.9%	21.6%		3.0%		39.8%	42.4%	17.8%
All	All	1994	19.5%	77.6%			87.7%	12.1%	0.0%	73.3%	2.2%	24.5%		4.8%		38.8%	41.0%	20.1%
All	All	1995	17.9%	80.7%			91.6%	8.4%	0.0%	64.4%	0.8%	34.8%	0.0%	6.1%		38.8%	41.9%	19.3%
All	All	1996	15.2%	83.5%	0.0%		99.3%	0.7%	0.1%	60.7%	1.3%	38.0%	0.0%	7.0%		35.2%	46.0%	18.7%
All	All	1997	14.0%	85.5%	0.0%		99.5%	0.5%	0.1%	60.4%	1.6%	37.9%	0.1%	6.5%		36.0%	39.9%	24.1%
All	All	1998	12.8%	86.7%	0.0%		99.8%	0.1%	0.1%	59.1%	1.1%	39.4%	0.5%	10.1%		31.2%	47.9%	20.8%
All	All	1999	10.1%	89.4%	0.0%		99.9%	0.1%	0.1%	56.6%	1.5%	41.0%	0.9%	10.8%		29.7%	46.9%	23.4%
All	All	2000	9.7%	89.5%	0.0%		99.8%	0.0%	0.1%	55.2%	1.2%	42.6%	1.0%	15.0%	0.0%	29.2%	43.9%	26.9%
All	All	2001	9.0%	90.3%	0.1%		99.9%		0.1%	51.0%	1.4%	46.0%	1.6%	19.6%	0.0%	30.4%	39.4%	30.2%
All	All	2002	8.2%	91.4%	0.2%		99.8%		0.2%	46.7%	1.3%	50.5%	1.5%	25.3%	0.2%	28.5%	39.8%	31.7%
All	All	2003	8.0%	90.8%	1.1%		99.8%		0.2%	44.5%	1.4%	52.5%	1.6%	30.6%	0.3%	28.3%	40.7%	31.0%
All	All	2004	6.8%	91.8%	1.2%		99.9%		0.1%	37.7%	3.3%	57.6%	1.4%	38.5%	0.5%	25.4%	41.1%	33.5%
All	All	2005	6.2%	91.5%	2.3%		99.7%		0.3%	34.4%	4.1%	60.9%	0.6%	45.8%	1.1%	23.7%	43.1%	33.2%
All	All	2006	6.5%	90.6%	2.8%		99.6%		0.4%	28.3%	4.5%	67.1%	0.2%	55.4%	1.5%	25.4%	40.5%	34.1%
All	All	2007	5.6%	87.1%	7.2%	0.2%	99.8%		0.1%	28.3%	2.7%	69.1%	0.0%	57.3%	2.2%	24.5%	42.3%	33.2%
All	All	2008	5.2%	86.8%	7.9%	2.3%	97.6%		0.1%	23.6%	2.1%	74.3%	0.0%	58.2%	2.5%	24.7%	42.4%	32.9%
All	All	2009	4.8%	85.5%	9.4%	4.2%	95.3%		0.5%	16.2%	2.1%	81.7%	0.0%	71.5%	2.3%	29.7%	42.2%	28.1%
All	All	2010	3.8%	84.1%	10.9%	8.3%	91.0%		0.7%	14.5%	4.0%	81.4%		83.8%	3.8%	27.6%	43.2%	29.2%
All	All	2011	3.2%	86.6%	10.0%	15.4%	83.8%		0.8%	13.6%	0.6%	85.8%		93.1%	2.2%	18.4%	45.2%	36.5%

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix E Fuel Economy Data Stratified by Vehicle Type and Size

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Small	Car	1975	4089	0.400	18.3	14.4	17.5	15.6	3440		224	113	14.5	0.554	0.0323	27.2		
Small	Car	1976	5041	0.409	19.9	15.7	18.8	17.0	3474		226	110	14.9	0.537	0.0313	29.6		
Small	Car	1977	5481	0.388	20.7	16.3	19.5	17.6	3486	95.4	224	114	14.3	0.567	0.0324	31.0	1769	2969
Small	Car	1978	4630	0.320	23.2	18.2	22.0	19.7	3029	90.9	177	100	14.2	0.625	0.0325	30.3	1901	2765
Small	Car	1979	4405	0.317	23.3	18.3	22.1	19.8	2936	89.2	166	98	14.2	0.642	0.0327	29.5	1862	2639
Small	Car	1980	4825	0.427	26.1	20.4	24.8	22.2	2717	90.0	137	86	14.5	0.658	0.0314	30.5	2077	2753
Small	Car	1981	4077	0.386	28.5	22.4	26.9	24.2	2648	91.6	130	85	14.4	0.681	0.0319	32.5	2311	2988
Small	Car	1982	4039	0.415	29.1	22.6	28.1	24.8	2684	92.2	131	87	14.4	0.682	0.0319	33.7	2374	3121
Small	Car	1983	3718	0.361	29.4	22.8	28.6	25.1	2734	95.1	137	91	14.1	0.693	0.0329	34.8	2494	3324
Small	Car	1984	5666	0.404	29.4	22.7	28.7	25.1	2776	95.2	141	96	13.8	0.706	0.0340	35.3	2479	3363
Small	Car	1985	5519	0.382	29.8	23.1	29.0	25.4	2771	95.8	138	100	13.3	0.746	0.0357	35.6	2528	3423
Small	Car	1986	6203	0.404	30.0	23.1	29.1	25.5	2791	96.7	138	101	13.3	0.754	0.0355	36.0	2553	3483
Small	Car	1987	6453	0.434	30.1	22.9	29.1	25.4	2803	96.9	134	102	13.3	0.777	0.0356	35.9	2534	3485
Small	Car	1988	6707	0.438	30.5	23.1	29.3	25.7	2818	98.5	133	105	13.1	0.806	0.0366	36.4	2597	3593
Small	Car	1989	5677	0.393	30.2	22.8	29.0	25.4	2841	98.3	131	108	12.8	0.844	0.0375	36.3	2559	3570
Small	Car	1990	4999	0.396	29.8	22.4	28.5	25.0	2897	97.6	131	116	12.2	0.906	0.0395	36.4	2487	3551
Small	Car	1991	5032	0.400	30.0	22.3	28.8	25.1	2886	97.6	131	117	12.1	0.919	0.0401	36.4	2507	3558
Small	Car	1992	4440	0.365	30.0	22.0	28.9	24.9	2921	97.9	134	123	11.8	0.943	0.0416	36.7	2505	3593
Small	Car	1993	4537	0.343	30.5	22.2	29.3	25.3	2903	98.3	133	122	11.8	0.933	0.0415	36.9	2542	3630
Small	Car	1994	4720	0.334	30.4	21.9	29.3	25.1	2965	98.7	137	126	11.7	0.943	0.0419	37.5	2538	3701
Small	Car	1995	5190	0.343	30.7	21.9	29.7	25.3	2988	99.6	137	134	11.2	1.002	0.0443	38.0	2576	3785
Small	Car	1996	4197	0.319	30.8	21.8	29.7	25.3	2977	99.9	136	134	11.1	1.008	0.0446	37.8	2574	3777
Small	Car	1997	4443	0.307	30.9	21.7	29.6	25.2	2977	99.2	133	133	11.2	1.016	0.0442	37.7	2544	3741
Small	Car	1998	3841	0.266	30.9	21.5	29.7	25.2	3013	98.8	137	138	11.0	1.028	0.0452	38.2	2541	3772
Small	Car	1999	3917	0.257	30.3	21.0	28.9	24.6	3085	98.9	141	144	10.9	1.036	0.0460	38.0	2478	3770
Small	Car	2000	4264	0.257	30.3	20.9	28.7	24.5	3079	99.4	139	144	10.9	1.052	0.0461	37.9	2483	3773
Small	Car	2001	4062	0.260	30.7	21.1	28.9	24.7	3101	99.2	140	150	10.6	1.080	0.0475	38.7	2520	3845
Small	Car	2002	3799	0.236	30.7	20.9	28.7	24.6	3125	99.9	141	153	10.6	1.098	0.0482	38.8	2526	3882
Small	Car	2003	3669	0.233	30.7	20.8	28.5	24.5	3169	99.4	143	159	10.3	1.124	0.0495	39.2	2511	3908
Small	Car	2004	3273	0.208	30.5	20.4	28.4	24.3	3192	99.0	146	165	10.1	1.146	0.0510	39.1	2480	3883
Small	Car	2005	3185	0.200	31.1	20.7	28.6	24.6	3163	99.1	144	165	10.0	1.166	0.0513	39.2	2518	3903
Small	Car	2006	3196	0.212	31.1	20.6	28.8	24.6	3255	98.8	151	176	9.8	1.181	0.0530	40.6	2521	4031
Small	Car	2007	3215	0.210	31.7	21.1	29.2	25.1	3238	99.3	146	173	9.8	1.203	0.0525	41.0	2572	4082
Small	Car	2008	2856	0.205	31.7	21.0	29.4	25.1	3284	98.3	148	179	9.8	1.220	0.0534	41.6	2550	4103
Small	Car	2009	2255	0.242	33.5	22.2	30.7	26.3	3254	99.8	140	172	10.0	1.228	0.0517	43.3	2718	4341
Small	Car	2010	2506	0.226	34.1	22.6	31.2	26.8	3268	101.6	145	177	9.8	1.230	0.0528	44.4	2813	4517

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Small	Car	1975	10.0%		33.3%	0.6%			9.4%		0.5%						
Small	Car	1976	8.8%		29.2%				5.0%		0.5%						
Small	Car	1977	11.0%		30.3%				7.5%		0.9%						
Small	Car	1978	19.9%		41.7%	6.1%			10.3%		1.5%						
Small	Car	1979	24.4%		45.6%	1.7%			9.4%		2.2%						
Small	Car	1980	37.8%	1.1%	51.0%	4.6%			11.1%		3.7%						
Small	Car	1981	48.1%	0.7%	52.8%	7.8%			12.2%		5.1%						
Small	Car	1982	56.2%	0.7%	49.9%	26.7%			13.0%	6.6%	4.0%						
Small	Car	1983	61.6%	1.0%	47.6%	33.7%			18.9%	16.1%	2.4%						
Small	Car	1984	63.2%	0.6%	41.1%	37.6%			25.4%	20.2%	2.2%						
Small	Car	1985	70.9%	0.2%	39.8%	37.8%			28.0%	27.6%	1.4%						
Small	Car	1986	74.5%	0.5%	40.0%	41.7%			36.7%	25.9%	0.4%	91.7%	5.6%	2.7%			
Small	Car	1987	80.7%	0.4%	38.6%	44.7%			37.2%	29.1%	0.2%	77.0%	14.8%	8.2%			
Small	Car	1988	85.2%	0.5%	36.0%	51.6%			45.5%	33.1%	0.0%	71.2%	13.1%	15.7%			
Small	Car	1989	86.3%	1.0%	33.8%	51.8%	0.2%		52.1%	32.6%	0.1%	60.9%	18.1%	21.0%			
Small	Car	1990	89.0%	0.6%	31.7%	56.9%	0.1%		69.9%	28.3%	0.1%	48.5%	7.5%	44.0%			
Small	Car	1991	87.1%	1.4%	32.1%	59.0%	0.1%		72.2%	27.5%	0.2%	48.9%	8.4%	42.7%		3.0%	
Small	Car	1992	88.6%	1.2%	29.4%	60.3%	0.0%		87.2%	12.7%	0.1%	49.4%	7.3%	43.2%		6.4%	
Small	Car	1993	90.2%	1.0%	30.0%	61.2%	0.0%		89.7%	10.3%		49.7%	5.6%	44.7%		6.5%	
Small	Car	1994	88.4%	0.3%	27.7%	65.7%			92.7%	7.3%		46.9%	3.3%	49.8%		12.1%	
Small	Car	1995	86.1%	1.0%	26.8%	70.4%			98.3%	1.6%	0.1%	32.8%	2.0%	65.2%	0.0%	12.9%	
Small	Car	1996	89.6%	1.0%	24.5%	73.1%	0.0%		97.9%	2.1%		32.4%	1.8%	65.8%	0.0%	15.1%	
Small	Car	1997	89.6%	1.0%	22.7%	76.0%	0.1%		98.5%	1.5%	0.0%	30.2%	1.9%	67.7%	0.2%	15.0%	
Small	Car	1998	86.1%	1.2%	22.1%	77.0%	0.1%		99.4%	0.3%	0.3%	29.7%	2.1%	67.5%	0.7%	20.1%	
Small	Car	1999	87.0%	1.3%	19.7%	79.3%	0.1%		99.6%	0.2%	0.2%	31.7%	3.2%	64.3%	0.8%	18.5%	
Small	Car	2000	83.4%	1.1%	20.8%	77.5%	0.0%		99.4%	0.1%	0.5%	32.7%	2.3%	63.4%	1.6%	25.4%	0.1%
Small	Car	2001	82.3%	2.4%	20.4%	77.9%	0.5%		99.4%		0.6%	27.4%	2.3%	66.9%	3.4%	37.5%	0.1%
Small	Car	2002	79.7%	4.1%	20.8%	78.0%	0.9%		99.2%		0.8%	28.6%	2.8%	65.2%	3.4%	36.3%	0.7%
Small	Car	2003	78.4%	3.5%	20.2%	77.9%	1.9%		99.4%		0.6%	16.1%	2.7%	77.8%	3.4%	42.8%	1.3%
Small	Car	2004	76.4%	5.6%	19.1%	79.1%	1.6%		99.5%		0.5%	15.5%	2.4%	78.9%	3.1%	48.7%	0.7%
Small	Car	2005	77.7%	4.9%	18.2%	80.3%	1.5%		99.5%		0.5%	13.6%	4.3%	80.3%	1.8%	55.4%	0.9%
Small	Car	2006	74.0%	4.6%	18.4%	79.7%	1.8%		98.6%		1.4%	12.6%	3.5%	83.4%	0.4%	66.5%	1.0%
Small	Car	2007	77.1%	5.3%	17.1%	76.1%	6.7%	0.8%	99.2%			10.5%	2.4%	87.0%	0.1%	63.9%	1.1%
Small	Car	2008	75.0%	6.4%	15.4%	79.1%	4.6%	3.8%	96.2%			7.2%	1.6%	91.2%	0.0%	61.9%	1.1%
Small	Car	2009	78.4%	7.1%	12.2%	83.5%	3.4%	7.6%	91.1%		1.3%	6.0%	0.9%	93.1%	0.0%	71.1%	0.9%
Small	Car	2010	77.9%	4.7%	10.5%	81.2%	5.2%	9.1%	89.4%		1.5%	8.3%	0.9%	90.8%		86.2%	2.8%

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Small	Car	2011	1844	0.154	33.0	22.0	30.7	26.2	3381	100.5	153	196	9.4	1.275	0.0563	44.8	2724	4512
Small	Car	2012	3352	0.251	36.9	24.5	33.3	28.8	3207	101.3	133	176	9.7	1.311	0.0534	46.9	3026	4763
Midsize	Car	1975	1631	0.160	13.6	10.5	13.1	11.6	4630		353	158	13.9	0.447	0.0341	27.2		
Midsize	Car	1976	1964	0.159	15.7	12.2	15.1	13.4	4558		343	156	13.8	0.454	0.0340	30.7		
Midsize	Car	1977	2226	0.158	16.4	12.9	15.7	14.0	4474	112.9	332	151	13.9	0.454	0.0337	31.6	1601	3565
Midsize	Car	1978	3339	0.231	18.6	14.4	17.9	15.8	3820	113.0	292	135	13.4	0.464	0.0353	30.3	1823	3422
Midsize	Car	1979	3211	0.231	19.1	15.0	18.1	16.3	3710	113.1	272	128	13.6	0.474	0.0345	30.3	1870	3425
Midsize	Car	1980	2987	0.264	21.6	16.8	21.0	18.4	3362	113.2	229	113	13.8	0.512	0.0336	31.1	2113	3523
Midsize	Car	1981	2902	0.275	22.9	17.8	22.3	19.6	3346	113.9	220	107	14.2	0.509	0.0322	32.9	2255	3746
Midsize	Car	1982	2136	0.219	24.0	18.4	23.8	20.5	3321	113.9	211	107	14.2	0.529	0.0324	34.3	2377	3906
Midsize	Car	1983	2269	0.220	23.9	18.4	23.6	20.4	3316	113.8	212	111	13.8	0.544	0.0336	34.0	2363	3876
Midsize	Car	1984	2770	0.198	24.1	18.5	23.9	20.6	3318	113.7	210	113	13.6	0.563	0.0342	34.3	2373	3896
Midsize	Car	1985	2777	0.192	24.9	19.0	24.9	21.3	3319	113.6	205	117	13.3	0.606	0.0354	35.4	2453	4025
Midsize	Car	1986	2666	0.174	25.9	19.6	25.9	22.0	3241	113.8	194	119	13.0	0.640	0.0364	35.8	2535	4075
Midsize	Car	1987	2253	0.152	26.0	19.5	26.0	22.1	3247	113.7	189	123	12.7	0.684	0.0379	35.9	2540	4088
Midsize	Car	1988	2113	0.138	26.7	19.7	27.1	22.6	3293	113.4	183	129	12.3	0.718	0.0389	37.3	2589	4231
Midsize	Car	1989	2591	0.179	26.6	19.5	27.1	22.5	3314	113.6	181	131	12.2	0.735	0.0396	37.4	2575	4246
Midsize	Car	1990	2342	0.186	26.2	19.0	26.8	22.1	3450	113.7	187	141	12.0	0.758	0.0407	38.2	2529	4343
Midsize	Car	1991	2114	0.168	26.0	18.8	26.5	21.9	3412	113.5	191	147	11.5	0.773	0.0428	37.4	2497	4243
Midsize	Car	1992	2120	0.174	25.8	18.4	26.3	21.6	3515	113.9	191	151	11.5	0.801	0.0427	38.0	2472	4334
Midsize	Car	1993	2330	0.176	26.1	18.6	26.4	21.8	3515	113.9	192	153	11.4	0.812	0.0434	38.4	2497	4377
Midsize	Car	1994	2057	0.146	25.9	18.3	26.0	21.5	3529	113.5	190	155	11.4	0.827	0.0437	38.0	2457	4321
Midsize	Car	1995	2515	0.166	26.1	18.2	26.5	21.7	3546	114.3	189	166	10.7	0.889	0.0465	38.5	2491	4403
Midsize	Car	1996	2359	0.179	26.5	18.5	26.5	21.9	3527	114.1	181	162	10.9	0.906	0.0459	38.7	2506	4409
Midsize	Car	1997	2399	0.166	26.5	18.4	26.7	21.9	3551	114.5	184	170	10.6	0.933	0.0476	39.0	2523	4465
Midsize	Car	1998	2967	0.205	27.1	18.7	26.9	22.3	3534	114.0	177	169	10.5	0.965	0.0477	39.5	2553	4502
Midsize	Car	1999	3141	0.206	27.1	18.5	26.8	22.2	3540	114.0	175	171	10.5	0.984	0.0480	39.4	2538	4486
Midsize	Car	2000	2894	0.175	27.0	18.4	26.5	22.0	3550	113.6	174	178	10.2	1.027	0.0499	39.2	2513	4448
Midsize	Car	2001	2480	0.159	27.2	18.5	26.5	22.1	3566	113.7	175	180	10.1	1.034	0.0503	39.6	2530	4501
Midsize	Car	2002	2807	0.174	27.7	18.8	26.5	22.4	3549	114.8	177	185	9.8	1.055	0.0519	39.8	2582	4572
Midsize	Car	2003	2483	0.157	28.3	18.9	27.3	22.8	3567	114.6	174	189	9.7	1.096	0.0529	40.8	2629	4676
Midsize	Car	2004	2522	0.161	28.7	19.0	27.5	23.0	3577	114.0	174	190	9.7	1.100	0.0528	41.6	2667	4738
Midsize	Car	2005	2886	0.182	29.8	19.7	28.2	23.8	3545	114.5	168	185	9.8	1.096	0.0515	42.8	2793	4900
Midsize	Car	2006	2413	0.160	29.6	19.6	28.0	23.6	3568	114.0	169	191	9.6	1.137	0.0531	42.8	2759	4874
Midsize	Car	2007	3083	0.202	31.2	20.7	29.1	24.8	3581	113.8	165	191	9.6	1.143	0.0524	45.3	2913	5149
Midsize	Car	2008	2486	0.179	31.4	20.9	29.0	24.8	3564	113.3	163	191	9.5	1.161	0.0525	45.4	2937	5142

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Small	Car	2011	64.2%	10.7%	12.1%	81.6%	5.3%	13.3%	84.6%		2.0%	5.1%	1.2%	93.6%		88.2%	2.6%
Small	Car	2012	80.4%	4.2%	13.6%	66.1%	9.4%	39.6%	59.2%		1.2%	3.5%	1.0%	95.5%		96.9%	4.5%
Midsize	Car	1975	2.7%		0.6%				0.7%								
Midsize	Car	1976	2.5%		0.4%				0.6%								
Midsize	Car	1977	2.1%		0.3%				0.7%								
Midsize	Car	1978	1.4%		1.7%	11.1%			1.4%								
Midsize	Car	1979	5.2%		1.9%	21.4%			2.3%		1.4%						
Midsize	Car	1980	30.2%		7.8%	25.3%			1.0%	1.5%	2.5%						
Midsize	Car	1981	32.3%		5.6%	52.2%			0.1%	2.3%	4.0%						
Midsize	Car	1982	44.7%		2.0%	82.6%			0.2%	15.4%	3.8%						
Midsize	Car	1983	48.9%		1.2%	80.0%			0.5%	17.2%	1.7%						
Midsize	Car	1984	55.1%		0.9%	82.0%			3.8%	25.6%	1.0%						
Midsize	Car	1985	61.9%		1.3%	77.6%			13.0%	37.1%	0.3%						
Midsize	Car	1986	71.0%	0.1%	1.8%	76.4%			25.4%	42.3%	0.2%	100.0%					
Midsize	Car	1987	77.3%	0.2%	1.5%	77.6%			40.7%	43.4%	0.4%	100.0%					
Midsize	Car	1988	87.0%	0.1%	3.8%	91.1%			66.9%	28.0%		93.4%	6.5%	0.1%			
Midsize	Car	1989	86.5%	0.1%	4.7%	91.7%			78.3%	21.0%		94.3%	4.9%	0.8%			
Midsize	Car	1990	85.2%	0.2%	3.9%	93.9%			86.6%	13.3%	0.0%	90.6%	4.3%	5.1%		2.3%	
Midsize	Car	1991	87.2%	0.1%	3.6%	94.5%			88.7%	11.2%	0.1%	89.7%	4.9%	5.3%		2.7%	
Midsize	Car	1992	79.1%	0.1%	2.7%	96.6%			94.7%	5.3%		77.0%	1.6%	21.4%		3.6%	
Midsize	Car	1993	85.4%	0.2%	2.3%	97.2%			95.6%	4.4%		72.7%		27.3%		4.0%	
Midsize	Car	1994	84.7%		2.0%	97.7%			96.0%	4.0%		68.1%		31.9%		3.9%	
Midsize	Car	1995	79.6%		2.7%	97.2%			98.9%	1.1%		61.5%		38.5%		8.9%	
Midsize	Car	1996	91.9%		4.3%	94.9%			99.7%		0.3%	52.6%		47.4%		11.0%	
Midsize	Car	1997	90.6%	0.1%	2.5%	97.5%			99.8%		0.2%	50.1%		49.9%		10.1%	
Midsize	Car	1998	95.2%	0.5%	3.0%	97.0%			99.9%		0.1%	44.5%	1.2%	53.1%	1.3%	22.0%	
Midsize	Car	1999	95.2%	0.7%	3.3%	96.3%			99.8%		0.2%	36.1%	1.4%	59.7%	2.7%	20.9%	
Midsize	Car	2000	92.3%	0.9%	3.5%	95.7%			100.0%			25.1%	1.4%	71.1%	2.4%	29.4%	
Midsize	Car	2001	93.0%	1.2%	3.1%	96.1%			100.0%			28.2%	1.8%	66.6%	3.4%	25.3%	
Midsize	Car	2002	94.2%	0.8%	2.6%	97.1%	0.1%		100.0%			21.4%	0.9%	74.7%	3.0%	45.0%	
Midsize	Car	2003	91.7%	0.6%	2.9%	97.0%	0.1%		100.0%			21.9%	2.5%	72.1%	3.6%	55.3%	
Midsize	Car	2004	91.7%	1.0%	3.2%	94.2%	1.9%		99.9%		0.1%	16.2%	1.6%	80.0%	2.2%	54.7%	1.9%
Midsize	Car	2005	91.4%	1.9%	3.2%	92.4%	4.2%		99.6%		0.4%	13.6%	1.1%	84.6%	0.7%	68.5%	4.9%
Midsize	Car	2006	89.4%	3.0%	3.7%	92.5%	3.7%		99.8%		0.2%	12.5%	0.2%	87.2%	0.2%	78.5%	3.8%
Midsize	Car	2007	89.0%	3.8%	2.7%	77.6%	19.8%		99.9%		0.1%	7.3%		92.7%		79.0%	7.8%
Midsize	Car	2008	85.3%	6.5%	2.5%	68.9%	28.6%	3.8%	96.0%		0.1%	6.5%		93.5%		73.1%	8.7%

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Midsize	Car	2009	1930	0.207	32.5	21.5	29.8	25.5	3539	113.9	156	184	9.8	1.162	0.0511	46.0	2993	5234
Midsize	Car	2010	2261	0.204	34.1	22.7	31.1	26.8	3577	114.3	158	188	9.5	1.170	0.0518	50.4	3252	5763
Midsize	Car	2011	2480	0.207	33.7	22.1	31.5	26.6	3605	113.8	154	191	9.6	1.235	0.0522	49.3	3146	5615
Midsize	Car	2012	2901	0.217	34.8	22.9	32.4	27.5	3603	114.4	156	194	9.5	1.250	0.0532	51.0	3269	5833
Large	Car	1975	1555	0.152	13.1	10.2	12.6	11.2	5142		410	180	13.5	0.439	0.0348	28.9		
Large	Car	1976	1679	0.136	14.2	11.1	13.5	12.1	5156		410	180	13.4	0.440	0.0349	31.1		
Large	Car	1977	2319	0.164	15.9	12.4	15.2	13.5	4482	128.1	366	166	12.8	0.453	0.0370	30.4	1759	3895
Large	Car	1978	2048	0.142	16.8	13.0	16.3	14.3	4394	128.5	357	162	12.8	0.457	0.0370	31.7	1869	4071
Large	Car	1979	2111	0.152	17.4	13.7	16.5	14.8	4210	130.0	339	154	12.9	0.454	0.0365	31.3	1940	4073
Large	Car	1980	963	0.085	19.1	14.7	18.8	16.3	4130	130.9	314	137	14.0	0.440	0.0331	34.0	2156	4448
Large	Car	1981	956	0.091	20.4	15.4	20.8	17.4	4108	131.0	304	133	14.3	0.444	0.0325	36.4	2318	4762
Large	Car	1982	832	0.085	20.7	15.6	21.0	17.7	4034	131.0	292	135	13.9	0.468	0.0337	36.0	2333	4715
Large	Car	1983	1079	0.105	20.2	15.2	20.6	17.3	4041	131.3	293	140	13.4	0.481	0.0347	35.0	2272	4590
Large	Car	1984	1236	0.088	20.5	15.5	21.0	17.5	4022	130.9	294	140	13.4	0.478	0.0349	35.3	2298	4622
Large	Car	1985	1512	0.105	22.3	16.6	23.3	19.1	3841	129.3	279	143	12.7	0.512	0.0371	36.7	2470	4743
Large	Car	1986	1267	0.082	23.9	17.6	25.4	20.4	3719	127.4	260	147	12.1	0.577	0.0396	38.0	2610	4846
Large	Car	1987	1218	0.082	23.9	17.4	25.4	20.3	3696	127.0	260	149	11.8	0.587	0.0405	37.6	2588	4774
Large	Car	1988	1303	0.085	24.2	17.6	25.6	20.6	3730	128.1	262	150	11.9	0.587	0.0405	38.4	2644	4924
Large	Car	1989	1289	0.089	24.0	17.3	25.3	20.4	3721	127.4	262	158	11.4	0.619	0.0427	37.9	2598	4830
Large	Car	1990	1092	0.087	23.7	16.9	25.1	20.0	3799	126.7	258	161	11.4	0.639	0.0427	38.1	2543	4820
Large	Car	1991	1012	0.080	23.6	16.8	24.8	19.9	3893	129.0	264	178	10.7	0.685	0.0459	38.8	2575	5012
Large	Car	1992	1241	0.102	23.8	16.8	25.0	20.0	3872	129.6	262	186	10.4	0.715	0.0480	38.8	2602	5033
Large	Car	1993	1104	0.084	24.2	17.0	25.2	20.3	3831	128.9	256	181	10.5	0.720	0.0473	38.9	2628	5025
Large	Car	1994	1277	0.090	24.1	16.8	24.9	20.1	3859	128.3	249	188	10.2	0.766	0.0487	38.8	2587	4987
Large	Car	1995	1305	0.086	24.4	16.9	25.4	20.4	3830	127.9	248	207	9.4	0.845	0.0539	39.1	2619	5004
Large	Car	1996	1066	0.081	24.3	16.7	25.3	20.3	3894	128.1	250	217	9.2	0.879	0.0557	39.5	2602	5058
Large	Car	1997	1195	0.083	24.5	16.8	25.4	20.4	3821	127.4	242	217	9.1	0.903	0.0567	39.0	2607	4968
Large	Car	1998	912	0.063	24.6	16.8	25.2	20.4	3784	127.4	240	218	8.9	0.922	0.0575	38.5	2602	4910
Large	Car	1999	1059	0.070	24.8	16.8	25.3	20.5	3854	127.0	235	222	8.9	0.971	0.0576	39.5	2609	5015
Large	Car	2000	1665	0.100	25.6	17.3	25.7	21.0	3782	124.9	221	215	9.2	0.980	0.0565	39.7	2628	4959
Large	Car	2001	1416	0.091	25.5	17.1	25.5	20.8	3774	124.8	221	204	9.5	0.932	0.0538	39.4	2607	4912
Large	Car	2002	1252	0.078	26.0	17.4	25.7	21.2	3767	124.3	218	209	9.3	0.975	0.0554	39.9	2641	4962
Large	Car	2003	1260	0.080	26.0	17.3	25.7	21.1	3841	124.8	224	208	9.5	0.929	0.0538	40.6	2648	5069
Large	Car	2004	1185	0.075	26.0	17.2	25.6	21.1	3858	124.7	225	211	9.4	0.944	0.0546	40.6	2643	5073
Large	Car	2005	1234	0.078	26.4	17.4	25.5	21.2	3933	125.0	225	216	9.5	0.964	0.0545	41.8	2670	5230
Large	Car	2006	1570	0.104	26.0	17.1	25.2	20.9	4014	124.7	230	238	8.9	1.045	0.0589	42.2	2630	5263

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Midsize	Car	2009	90.5%	4.5%	2.1%	71.2%	26.8%	3.1%	96.8%		0.1%	1.2%		98.8%		89.3%	7.6%
Midsize	Car	2010	88.5%	6.8%	1.4%	67.6%	30.5%	5.8%	94.2%			0.1%		99.9%		99.6%	13.2%
Midsize	Car	2011	87.5%	7.0%	1.5%	76.2%	21.7%	12.5%	87.3%		0.1%	0.2%		99.8%		99.8%	7.4%
Midsize	Car	2012	87.3%	7.0%	4.0%	77.7%	16.8%	15.4%	83.7%		0.9%	0.9%		99.1%		98.7%	8.7%
Large	Car	1975	1.5%		0.0%												
Large	Car	1976	1.5%		0.0%				1.2%								
Large	Car	1977	1.5%						0.5%								
Large	Car	1978	1.1%			2.5%			0.2%		1.4%						
Large	Car	1979				6.5%			0.2%		3.5%						
Large	Car	1980				41.6%				2.0%	10.4%						
Large	Car	1981				89.8%				17.1%	15.2%						
Large	Car	1982				93.1%				20.1%	10.0%						
Large	Car	1983				99.9%				37.3%	2.4%						
Large	Car	1984				99.9%				39.0%	0.8%						
Large	Car	1985	31.9%			100.0%			19.1%	44.9%	0.3%						
Large	Car	1986	55.9%		0.7%	99.2%			65.4%	15.8%		99.3%		0.7%			
Large	Car	1987	60.9%		0.5%	99.5%			69.9%	15.2%		98.9%		1.1%			
Large	Car	1988	58.7%		0.4%	99.6%			76.9%	12.6%		98.9%		1.1%			
Large	Car	1989	61.9%		0.3%	99.7%			74.8%	22.2%		99.2%		0.8%			
Large	Car	1990	69.0%		0.2%	99.8%			92.9%	6.0%		99.5%		0.5%			
Large	Car	1991	59.8%		0.4%	99.6%			83.3%	16.7%		99.1%		0.9%			
Large	Car	1992	58.5%		0.3%	98.5%			89.2%	10.7%	0.1%	98.1%		1.9%		0.7%	
Large	Car	1993	64.8%		0.4%	98.2%			89.7%	10.3%		92.0%		8.0%		0.9%	
Large	Car	1994	69.2%		0.2%	99.0%			99.9%		0.1%	82.9%		17.1%		0.5%	
Large	Car	1995	71.3%		0.2%	98.3%			100.0%		0.0%	76.5%		23.5%		0.7%	
Large	Car	1996	67.8%		0.1%	99.3%			100.0%			61.6%		38.4%		1.2%	
Large	Car	1997	72.4%		0.4%	99.6%			100.0%			64.4%		35.6%		1.8%	
Large	Car	1998	74.3%		0.1%	99.9%			100.0%			60.1%		39.9%		2.5%	
Large	Car	1999	72.5%			100.0%			100.0%			49.7%		50.3%		1.8%	
Large	Car	2000	80.9%	0.0%		100.0%			100.0%			60.2%	1.2%	38.6%	0.0%	7.2%	
Large	Car	2001	79.4%	0.1%		100.0%			100.0%			64.0%	2.3%	33.6%	0.1%	9.1%	
Large	Car	2002	86.7%	0.0%		100.0%			100.0%			62.7%	2.2%	35.1%	0.0%	6.9%	
Large	Car	2003	77.1%	0.3%		100.0%			100.0%			72.7%	1.7%	25.5%	0.0%	8.9%	
Large	Car	2004	77.1%	1.3%		100.0%			100.0%			65.9%	1.4%	31.9%	0.8%	10.6%	
Large	Car	2005	68.6%	3.8%		96.7%	3.2%		100.0%			64.4%	0.9%	34.4%	0.4%	8.8%	
Large	Car	2006	62.7%	3.8%	0.1%	96.8%	3.0%		100.0%			48.6%	0.9%	50.2%	0.3%	29.2%	

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Large	Car	2007	1174	0.077	26.0	17.1	25.3	21.0	4026	123.8	229	236	9.0	1.036	0.0581	42.5	2623	5256
Large	Car	2008	1407	0.101	27.3	17.8	26.8	22.0	3966	123.2	213	232	9.0	1.106	0.0581	43.9	2745	5406
Large	Car	2009	955	0.103	28.4	18.6	27.6	22.8	3883	122.6	200	225	9.0	1.146	0.0576	44.6	2833	5461
Large	Car	2010	832	0.075	28.3	18.5	27.4	22.7	3923	122.8	202	232	8.9	1.166	0.0587	44.8	2827	5501
Large	Car	2011	1041	0.087	29.9	19.5	29.6	24.2	3868	122.1	196	235	8.7	1.231	0.0603	47.0	2999	5738
Large	Car	2012	832	0.062	30.0	19.4	29.6	24.2	3889	122.9	200	260	8.2	1.316	0.0658	47.2	3016	5797
Small	Wagon	1975	477	0.047	22.4	17.4	21.6	19.1	2834		128	87	14.8	0.713	0.0307	27.3		
Small	Wagon	1976	345	0.028	23.9	18.7	22.9	20.4	2902		136	86	15.2	0.668	0.0297	29.8		
Small	Wagon	1977	385	0.027	25.5	20.2	23.8	21.7	2801	108.0	134	85	14.9	0.685	0.0305	30.8	2404	3317
Small	Wagon	1978	361	0.025	24.3	19.2	22.9	20.7	2805	108.0	134	90	14.3	0.709	0.0319	29.5	2291	3176
Small	Wagon	1979	310	0.022	25.7	20.3	24.3	21.9	2711	105.1	123	81	15.1	0.684	0.0295	29.8	2335	3135
Small	Wagon	1980	310	0.027	28.6	22.6	27.0	24.4	2591	108.2	113	75	15.4	0.685	0.0289	32.0	2702	3463
Small	Wagon	1981	418	0.040	30.0	23.6	28.5	25.6	2531	110.6	108	79	14.4	0.755	0.0313	32.6	2858	3601
Small	Wagon	1982	382	0.039	30.6	23.9	29.4	26.1	2580	112.2	109	75	15.3	0.698	0.0289	33.8	2951	3789
Small	Wagon	1983	531	0.052	32.2	25.3	30.5	27.4	2565	108.2	105	74	15.3	0.713	0.0289	35.3	2986	3817
Small	Wagon	1984	461	0.033	31.9	24.9	30.7	27.2	2620	116.5	107	77	15.2	0.719	0.0294	35.9	3206	4180
Small	Wagon	1985	496	0.034	32.5	25.4	30.9	27.7	2579	117.7	107	78	15.0	0.727	0.0300	35.9	3296	4227
Small	Wagon	1986	349	0.023	31.0	24.2	29.2	26.3	2648	118.4	113	82	14.7	0.730	0.0308	35.1	3162	4151
Small	Wagon	1987	361	0.024	30.7	23.8	28.9	25.9	2795	120.0	116	91	14.2	0.788	0.0324	36.5	3153	4379
Small	Wagon	1988	253	0.017	31.3	24.3	29.0	26.3	2757	118.7	113	93	13.7	0.829	0.0336	36.4	3149	4318
Small	Wagon	1989	159	0.011	31.5	24.2	29.4	26.4	2766	118.6	112	96	13.5	0.862	0.0344	36.6	3155	4341
Small	Wagon	1990	160	0.013	29.6	22.4	27.7	24.7	3026	122.2	120	110	12.9	0.920	0.0361	37.5	3048	4579
Small	Wagon	1991	209	0.017	30.6	22.8	28.9	25.4	3005	123.3	120	106	13.3	0.880	0.0350	38.3	3176	4728
Small	Wagon	1992	143	0.012	30.2	22.3	28.6	25.0	3076	123.7	122	123	12.4	1.017	0.0399	38.6	3135	4777
Small	Wagon	1993	302	0.023	32.5	23.7	31.0	26.9	2882	123.0	118	99	13.5	0.842	0.0343	38.9	3343	4787
Small	Wagon	1994	206	0.015	32.9	23.6	31.7	27.1	2908	122.9	121	103	13.3	0.848	0.0352	39.6	3383	4874
Small	Wagon	1995	198	0.013	33.3	23.9	31.8	27.3	2859	122.1	118	100	13.4	0.844	0.0348	39.2	3374	4785
Small	Wagon	1996	90	0.007	31.6	22.5	30.0	25.8	2952	118.0	122	114	12.5	0.928	0.0382	38.2	3081	4509
Small	Wagon	1997	149	0.010	32.2	22.7	30.8	26.3	2901	119.5	125	118	11.8	0.943	0.0404	38.2	3174	4564
Small	Wagon	1998	98	0.007	32.1	22.3	30.7	26.1	2874	116.9	124	119	11.7	0.959	0.0412	37.6	3080	4395
Small	Wagon	1999	78	0.005	31.5	21.8	30.1	25.6	2923	117.9	125	126	11.3	1.004	0.0428	37.4	3047	4415
Small	Wagon	2000	68	0.004	29.2	20.0	28.2	23.7	3107	119.7	127	143	10.7	1.129	0.0459	36.9	2861	4415
Small	Wagon	2001	212	0.014	27.3	19.0	25.4	22.0	3470	119.6	145	148	11.3	1.022	0.0426	38.2	2640	4571
Small	Wagon	2002	236	0.015	26.1	18.0	24.4	21.1	3504	118.2	145	156	11.0	1.085	0.0445	37.1	2505	4385
Small	Wagon	2003	338	0.021	30.2	20.8	27.1	23.9	3262	115.2	127	146	11.0	1.162	0.0448	39.6	2813	4558
Small	Wagon	2004	300	0.019	31.4	21.6	27.7	24.7	3235	117.5	126	166	10.1	1.298	0.0506	40.1	2943	4719

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Large	Car	2007	70.1%	3.9%	0.1%	98.7%	1.1%		100.0%			52.5%	0.2%	47.2%		45.5%	
Large	Car	2008	72.7%	3.0%	0.6%	99.3%		0.9%	99.1%			37.0%	0.0%	63.0%		57.9%	
Large	Car	2009	78.4%	2.8%	0.8%	99.2%		1.0%	99.0%			30.4%	0.1%	69.5%		82.4%	
Large	Car	2010	70.5%	5.0%	0.5%	99.5%		3.1%	96.9%			26.8%	0.0%	73.2%		77.8%	0.2%
Large	Car	2011	80.6%	3.8%	0.5%	99.5%		32.2%	67.8%			26.0%	0.0%	73.9%		90.9%	0.1%
Large	Car	2012	74.8%	5.2%	1.3%	98.7%		42.7%	57.1%		0.1%	5.7%	0.0%	94.3%		99.4%	0.5%
Small	Wagon	1975	13.3%		48.6%				0.8%								
Small	Wagon	1976	12.2%		42.8%				3.2%								
Small	Wagon	1977	23.3%		52.9%				6.4%		0.6%						
Small	Wagon	1978	23.0%		55.1%	1.2%			6.9%								
Small	Wagon	1979	13.3%	12.1%	57.0%	2.3%			1.0%								
Small	Wagon	1980	24.4%	9.8%	64.5%	7.4%			1.1%		6.3%						
Small	Wagon	1981	57.9%	8.0%	62.0%	8.1%			4.0%		2.2%						
Small	Wagon	1982	68.3%	8.9%	54.0%	19.4%			4.8%	0.7%	1.2%						
Small	Wagon	1983	55.4%	39.3%	51.0%	23.7%			3.7%	17.0%	0.3%						
Small	Wagon	1984	81.4%	15.6%	43.7%	39.2%			5.1%	32.2%	1.6%						
Small	Wagon	1985	60.0%	39.6%	42.7%	42.2%			6.2%	15.4%	0.5%						
Small	Wagon	1986	78.4%	20.7%	43.3%	29.0%			6.8%	24.3%	0.8%	100.0%					
Small	Wagon	1987	76.6%	23.4%	34.4%	41.0%			29.2%	42.6%		78.8%	4.9%	16.3%			
Small	Wagon	1988	80.2%	19.8%	37.8%	34.6%			30.6%	62.8%		80.5%	0.6%	18.9%			
Small	Wagon	1989	89.9%	10.1%	26.6%	51.8%			41.0%	48.8%		59.8%	3.2%	36.9%			
Small	Wagon	1990	68.3%	31.7%	30.6%	58.8%			59.4%	40.6%		35.5%		64.5%			
Small	Wagon	1991	79.1%	20.9%	24.4%	74.1%			80.0%	20.0%		51.4%		48.6%			
Small	Wagon	1992	73.0%	25.5%	30.9%	68.2%			95.3%	4.7%		54.7%		45.3%		1.4%	
Small	Wagon	1993	83.2%	16.2%	28.9%	70.6%			95.8%	4.2%		73.5%		26.5%		0.5%	
Small	Wagon	1994	88.6%	10.6%	27.6%	72.1%			97.8%	2.2%		79.2%		20.8%		3.5%	
Small	Wagon	1995	92.8%	4.6%	23.8%	76.2%			100.0%			74.3%		25.7%		4.5%	
Small	Wagon	1996	84.5%	11.2%	20.8%	79.2%			100.0%			48.9%		51.1%		4.5%	
Small	Wagon	1997	82.9%	14.4%	19.6%	80.4%			100.0%			59.3%		40.7%		3.0%	
Small	Wagon	1998	78.9%	18.3%	18.8%	81.2%			100.0%			50.9%		45.6%	3.5%	3.5%	
Small	Wagon	1999	71.8%	22.8%	20.1%	77.6%			100.0%			36.8%		58.7%	4.4%	16.3%	
Small	Wagon	2000	71.5%	17.9%	15.2%	78.0%			100.0%			0.8%		95.8%	3.4%	43.1%	
Small	Wagon	2001	92.6%	5.1%	14.9%	84.5%			100.0%			2.6%		95.2%	2.2%	4.1%	
Small	Wagon	2002	82.0%	14.9%	19.6%	79.8%			99.1%		0.9%	4.7%	1.6%	91.5%	2.2%	2.2%	
Small	Wagon	2003	86.2%	11.7%	16.6%	83.4%			98.0%		2.0%	3.8%	1.1%	93.2%	1.9%	48.3%	
Small	Wagon	2004	85.7%	13.4%	15.7%	84.3%			98.8%		1.2%	2.5%	0.9%	95.0%	1.6%	51.5%	

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Small	Wagon	2005	365	0.023	32.4	22.2	28.4	25.3	3160	115.9	122	156	10.4	1.268	0.0487	40.3	2984	4671
Small	Wagon	2006	493	0.033	31.4	21.3	27.8	24.6	3255	118.4	127	160	10.5	1.244	0.0486	40.1	2940	4755
Small	Wagon	2007	387	0.025	31.7	21.5	28.2	24.9	3263	111.7	127	160	10.4	1.248	0.0485	40.7	2834	4566
Small	Wagon	2008	411	0.030	32.3	21.9	28.7	25.3	3295	114.0	129	160	10.5	1.231	0.0480	41.9	2935	4797
Small	Wagon	2009	429	0.046	33.6	22.8	29.5	26.2	3260	114.2	125	150	10.7	1.208	0.0459	42.9	3026	4904
Small	Wagon	2010	447	0.040	34.1	23.2	29.7	26.5	3268	117.6	125	150	10.7	1.200	0.0455	43.6	3168	5141
Small	Wagon	2011	359	0.030	34.9	23.9	30.1	27.1	3251	114.7	121	157	10.2	1.308	0.0480	44.3	3139	5063
Small	Wagon	2012	486	0.036	35.7	24.4	30.4	27.5	3146	117.4	117	154	10.2	1.319	0.0486	43.6	3256	5103
Midsize	Wagon	1975	289	0.028	13.2	10.2	12.9	11.3	4791		361	162	13.8	0.473	0.0338	27.4		
Midsize	Wagon	1976	485	0.039	16.0	12.6	15.1	13.6	4555		315	142	14.8	0.458	0.0311	31.2		
Midsize	Wagon	1977	548	0.039	16.3	12.9	15.3	13.9	4410	143.6	297	135	15.1	0.459	0.0305	30.7	2015	4417
Midsize	Wagon	1978	503	0.035	18.6	14.6	17.6	15.8	3836	140.0	258	123	14.4	0.484	0.0320	30.5	2240	4266
Midsize	Wagon	1979	482	0.035	19.1	15.2	17.9	16.3	3758	139.7	249	118	14.7	0.480	0.0313	30.7	2295	4293
Midsize	Wagon	1980	257	0.023	21.1	16.5	20.1	18.0	3535	139.7	228	107	15.0	0.482	0.0304	31.9	2542	4455
Midsize	Wagon	1981	272	0.026	23.1	18.1	21.8	19.6	3285	136.2	193	103	14.5	0.562	0.0316	32.4	2714	4417
Midsize	Wagon	1982	284	0.029	23.7	18.5	22.6	20.2	3384	136.1	205	108	14.3	0.551	0.0320	34.3	2781	4669
Midsize	Wagon	1983	276	0.027	24.4	19.1	23.3	20.8	3348	136.2	200	109	14.1	0.568	0.0325	35.0	2869	4759
Midsize	Wagon	1984	365	0.026	25.0	19.4	24.2	21.3	3298	135.9	172	107	14.1	0.633	0.0324	35.3	2922	4793
Midsize	Wagon	1985	342	0.024	25.2	19.4	24.6	21.5	3356	134.8	170	112	13.9	0.679	0.0334	36.2	2909	4876
Midsize	Wagon	1986	409	0.027	26.0	19.8	25.7	22.1	3355	137.8	162	115	13.6	0.718	0.0342	37.1	3056	5116
Midsize	Wagon	1987	359	0.024	25.6	19.3	25.6	21.8	3434	140.2	173	125	13.0	0.735	0.0363	37.4	3060	5246
Midsize	Wagon	1988	285	0.019	26.2	19.4	26.5	22.2	3378	139.4	171	126	12.7	0.743	0.0372	37.7	3114	5250
Midsize	Wagon	1989	239	0.017	25.6	18.8	25.9	21.7	3436	139.9	176	132	12.4	0.765	0.0383	37.3	3038	5218
Midsize	Wagon	1990	184	0.015	25.3	18.3	25.9	21.3	3499	141.6	181	139	12.0	0.782	0.0397	37.4	3031	5299
Midsize	Wagon	1991	122	0.010	25.9	18.6	26.4	21.8	3506	142.3	181	140	12.0	0.794	0.0401	38.3	3112	5452
Midsize	Wagon	1992	137	0.011	26.2	18.6	26.9	21.9	3504	142.6	188	143	11.8	0.777	0.0408	38.6	3143	5503
Midsize	Wagon	1993	166	0.013	26.2	18.7	26.6	21.9	3498	137.7	188	144	11.7	0.790	0.0411	38.5	3029	5297
Midsize	Wagon	1994	138	0.010	26.0	18.4	26.4	21.7	3533	137.4	180	151	11.4	0.863	0.0428	38.4	2988	5275
Midsize	Wagon	1995	176	0.012	26.6	18.8	26.6	22.1	3482	135.9	167	149	11.4	0.915	0.0426	38.5	3008	5236
Midsize	Wagon	1996	169	0.013	26.3	18.5	25.8	21.7	3661	136.9	161	154	11.6	0.965	0.0422	39.8	2983	5459
Midsize	Wagon	1997	149	0.010	26.3	18.5	25.5	21.6	3666	136.5	160	158	11.3	1.001	0.0434	39.6	2949	5405
Midsize	Wagon	1998	153	0.011	26.2	18.5	25.0	21.5	3669	135.3	155	169	10.7	1.097	0.0461	39.4	2910	5329
Midsize	Wagon	1999	181	0.012	26.3	18.3	25.4	21.5	3691	136.4	157	169	10.8	1.087	0.0457	39.7	2941	5421
Midsize	Wagon	2000	234	0.014	27.3	18.9	25.7	22.1	3572	134.0	153	162	11.0	1.060	0.0452	39.5	2983	5295
Midsize	Wagon	2001	236	0.015	26.6	18.5	24.8	21.5	3775	133.6	155	176	10.7	1.139	0.0463	40.7	2905	5435
Midsize	Wagon	2002	208	0.013	27.4	18.9	25.4	22.0	3732	133.6	153	172	10.7	1.136	0.0460	41.0	2954	5478

2012 FE Trends Report
Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Small	Wagon	2005	89.0%	10.7%	15.5%	84.5%			98.9%		1.1%	20.9%	0.6%	77.9%	0.6%	60.4%	
Small	Wagon	2006	90.8%	8.8%	11.9%	88.1%			100.0%			10.4%		89.6%	0.1%	55.5%	
Small	Wagon	2007	90.1%	9.5%	11.1%	88.9%			100.0%			8.4%		91.5%	0.1%	49.4%	
Small	Wagon	2008	86.9%	12.9%	15.8%	84.2%		2.0%	98.0%					99.9%	0.1%	51.5%	
Small	Wagon	2009	86.6%	13.3%	13.0%	82.9%	4.0%	2.3%	95.3%		2.4%			100.0%		84.9%	
Small	Wagon	2010	88.4%	10.3%	10.3%	68.5%	16.5%	2.2%	92.3%		5.4%			100.0%		92.4%	
Small	Wagon	2011	80.6%	18.3%	13.0%	60.2%	26.8%	13.9%	79.2%		6.9%	0.1%		99.9%		90.9%	
Small	Wagon	2012	82.2%	16.2%	12.5%	59.9%	23.2%	19.7%	75.5%		4.8%	0.1%		99.9%		93.3%	
Midsized	Wagon	1975			4.0%				7.6%		0.2%						
Midsized	Wagon	1976			7.1%				3.4%		0.1%						
Midsized	Wagon	1977			4.6%				3.5%		0.3%						
Midsized	Wagon	1978			5.3%	17.2%			3.0%		0.3%						
Midsized	Wagon	1979			5.3%	9.1%			2.5%		2.5%						
Midsized	Wagon	1980			9.9%	43.8%			4.3%		5.9%						
Midsized	Wagon	1981	35.6%		12.8%	28.5%			6.9%		5.9%						
Midsized	Wagon	1982	28.2%		7.4%	62.6%			5.7%		6.3%						
Midsized	Wagon	1983	32.8%		6.2%	50.2%			7.9%		2.3%						
Midsized	Wagon	1984	69.9%		5.4%	62.5%			10.4%	20.3%	2.5%						
Midsized	Wagon	1985	69.5%	4.5%	5.9%	64.7%			25.7%	30.5%	1.8%						
Midsized	Wagon	1986	82.2%	2.1%	9.1%	71.0%			51.3%	28.0%	0.2%	100.0%					
Midsized	Wagon	1987	83.9%	0.1%	4.4%	83.6%			71.7%	22.8%	0.8%	100.0%					
Midsized	Wagon	1988	87.7%	0.7%	3.8%	87.2%			70.2%	29.8%		100.0%					
Midsized	Wagon	1989	77.5%	8.2%	7.1%	80.7%			87.7%	12.3%		99.0%		1.0%			
Midsized	Wagon	1990	81.1%	0.4%	1.7%	87.9%			98.5%	1.5%		96.6%		3.4%			
Midsized	Wagon	1991	79.6%	1.3%	2.4%	85.6%			99.3%	0.7%		96.4%		3.6%			
Midsized	Wagon	1992	80.8%	0.6%	1.7%	88.9%			99.7%	0.3%		89.7%		10.3%			
Midsized	Wagon	1993	87.0%	0.6%	1.8%	91.2%			100.0%			88.4%		11.6%			
Midsized	Wagon	1994	89.0%	0.4%	1.6%	94.0%			100.0%			79.9%		20.1%		6.2%	
Midsized	Wagon	1995	64.8%	27.8%	10.1%	86.7%			100.0%			49.2%		50.8%		6.1%	
Midsized	Wagon	1996	61.0%	39.0%	12.9%	87.1%			99.2%		0.8%	36.5%		63.5%		6.8%	
Midsized	Wagon	1997	48.5%	51.5%	13.4%	86.6%			99.9%		0.1%	32.4%		67.6%		4.8%	
Midsized	Wagon	1998	32.7%	64.2%	13.7%	86.3%			100.0%			12.9%	3.1%	82.4%	1.6%	8.9%	
Midsized	Wagon	1999	44.8%	52.0%	12.1%	87.9%			100.0%			16.9%	3.2%	69.8%	10.1%	10.6%	
Midsized	Wagon	2000	54.4%	43.3%	9.9%	90.1%			100.0%			25.7%	2.3%	61.3%	10.6%	19.8%	
Midsized	Wagon	2001	42.4%	56.5%	8.5%	91.5%			100.0%			11.4%	2.4%	74.0%	12.2%	39.1%	
Midsized	Wagon	2002	49.0%	50.3%	8.9%	91.1%			100.0%			7.2%	1.9%	80.0%	10.9%	36.7%	

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Midsize	Wagon	2003	171	0.011	27.2	18.6	25.4	21.9	3745	133.5	151	174	10.7	1.157	0.0463	40.9	2937	5462
Midsize	Wagon	2004	158	0.010	26.4	17.9	24.7	21.2	3860	135.0	158	189	10.3	1.208	0.0489	41.0	2878	5531
Midsize	Wagon	2005	238	0.015	26.0	17.4	24.4	20.8	3839	133.3	183	213	9.3	1.195	0.0547	40.0	2810	5338
Midsize	Wagon	2006	220	0.015	26.4	17.7	24.7	21.1	3827	135.6	183	221	9.1	1.221	0.0570	40.4	2884	5481
Midsize	Wagon	2007	150	0.010	27.3	18.4	25.4	21.8	3727	135.4	161	195	9.8	1.223	0.0518	40.7	2976	5511
Midsize	Wagon	2008	136	0.010	26.7	17.9	25.0	21.4	3845	134.6	165	195	10.0	1.185	0.0504	41.1	2895	5531
Midsize	Wagon	2009	64	0.007	28.1	19.0	25.5	22.3	3653	133.7	153	186	9.9	1.211	0.0505	40.6	2989	5433
Midsize	Wagon	2010	8	0.001	28.6	18.9	27.1	22.8	3814	135.1	154	223	8.9	1.467	0.0580	43.6	3113	5881
Midsize	Wagon	2011	3	0.000	24.7	16.6	23.4	19.9	4469	135.6	208	268	8.6	1.296	0.0600	44.5	2701	6028
Midsize	Wagon	2012	38	0.003	56.6	41.6	39.5	40.4	3529	131.6	113	105	10.2	0.907	0.0293	72.0	5386	9469
Large	Wagon	1975	197	0.019	11.9	9.3	11.6	10.2	5453		410	181	14.0	0.441	0.0333	27.9		
Large	Wagon	1976	207	0.017	13.5	10.6	12.9	11.5	5444		416	185	13.7	0.445	0.0340	31.4		
Large	Wagon	1977	341	0.024	15.5	12.2	14.6	13.2	4713	163.1	365	161	13.6	0.442	0.0342	31.4	2185	5113
Large	Wagon	1978	293	0.020	15.9	12.4	15.4	13.6	4664	162.4	354	162	13.4	0.460	0.0348	31.8	2216	5161
Large	Wagon	1979	275	0.020	16.1	12.8	15.1	13.7	4467	162.5	333	155	13.4	0.465	0.0346	30.7	2240	4996
Large	Wagon	1980	102	0.009	19.1	14.7	18.9	16.3	4423	161.5	324	134	15.2	0.418	0.0304	36.9	2690	5953
Large	Wagon	1981	108	0.010	19.9	15.0	20.3	17.0	4394	161.4	313	131	15.3	0.424	0.0299	38.2	2797	6154
Large	Wagon	1982	146	0.015	19.2	14.4	19.8	16.4	4396	161.3	306	139	14.6	0.456	0.0316	36.5	2677	5877
Large	Wagon	1983	130	0.013	19.6	14.7	20.2	16.7	4380	161.6	307	142	14.1	0.465	0.0325	36.8	2714	5940
Large	Wagon	1984	176	0.013	19.9	14.9	20.5	17.0	4371	161.7	305	144	13.9	0.472	0.0330	37.3	2760	6028
Large	Wagon	1985	146	0.010	20.9	15.6	21.8	17.9	4354	161.7	305	154	13.2	0.504	0.0354	39.0	2894	6299
Large	Wagon	1986	120	0.008	22.0	16.2	23.3	18.8	4381	161.4	304	146	13.9	0.479	0.0334	41.3	3040	6656
Large	Wagon	1987	88	0.006	22.1	16.3	23.1	18.9	4348	161.8	304	143	14.0	0.470	0.0330	41.0	3052	6634
Large	Wagon	1988	75	0.005	22.8	16.8	23.4	19.4	4349	161.7	304	143	14.0	0.470	0.0330	42.1	3132	6808
Large	Wagon	1989	63	0.004	22.5	16.5	23.0	19.0	4334	161.8	304	143	13.9	0.471	0.0332	41.3	3082	6672
Large	Wagon	1990	31	0.002	22.7	16.5	23.1	19.1	4337	161.6	304	143	13.9	0.471	0.0332	41.5	3092	6702
Large	Wagon	1991	34	0.003	22.9	16.3	24.2	19.4	4403	169.1	304	177	11.9	0.581	0.0404	42.6	3274	7208
Large	Wagon	1992	27	0.002	22.7	15.9	24.3	19.1	4500	170.3	338	177	12.1	0.526	0.0394	43.1	3261	7338
Large	Wagon	1993	19	0.001	22.5	15.6	24.3	19.0	4500	169.3	340	174	12.2	0.513	0.0386	42.7	3214	7232
Large	Wagon	1994	16	0.001	22.9	15.9	24.1	19.2	4500	169.2	350	250	9.1	0.714	0.0556	43.3	3254	7322
Large	Wagon	1995	10	0.001	22.8	15.8	23.9	19.1	4500	169.3	350	250	9.1	0.714	0.0556	43.0	3233	7275
Large	Wagon	1996	9	0.001	23.2	15.9	24.5	19.4	4500	170.2	350	260	8.9	0.743	0.0578	43.6	3299	7422
Large	Wagon	1997																
Large	Wagon	1998																
Large	Wagon	1999																
Large	Wagon	2000																

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Midsize	Wagon	2003	46.9%	52.7%	9.2%	90.8%			100.0%			7.0%	0.7%	74.1%	18.2%	30.9%	
Midsize	Wagon	2004	40.3%	58.2%	7.3%	92.7%			99.4%		0.6%	5.0%	3.7%	76.5%	14.9%	48.6%	
Midsize	Wagon	2005	19.9%	49.3%	6.8%	93.2%			98.6%		1.4%	14.8%	1.0%	79.8%	4.4%	31.3%	
Midsize	Wagon	2006	19.7%	44.1%	4.8%	95.2%			100.0%			5.9%	0.8%	93.2%		34.1%	
Midsize	Wagon	2007	45.4%	42.4%	5.5%	94.5%			100.0%			2.6%		97.4%		28.1%	
Midsize	Wagon	2008	28.2%	60.7%	5.5%	94.5%		5.8%	94.2%			3.0%		97.0%		20.0%	
Midsize	Wagon	2009	32.9%	67.0%	6.8%	93.2%		4.8%	95.2%					100.0%		13.6%	
Midsize	Wagon	2010	78.1%	21.9%	1.3%	61.3%		59.4%	40.6%					100.0%		100.0%	
Midsize	Wagon	2011	3.1%	96.9%		100.0%		10.5%	89.5%					100.0%		100.0%	
Midsize	Wagon	2012	97.2%	2.6%		3.3%	96.7%	2.8%	97.2%					100.0%		100.0%	96.7%
Large	Wagon	1975															
Large	Wagon	1976															
Large	Wagon	1977															
Large	Wagon	1978									1.4%						
Large	Wagon	1979															
Large	Wagon	1980				74.0%					26.7%						
Large	Wagon	1981				100.0%				0.2%	25.2%						
Large	Wagon	1982				100.0%					11.0%						
Large	Wagon	1983				100.0%				24.1%	4.6%						
Large	Wagon	1984				100.0%				25.8%	1.5%						
Large	Wagon	1985				100.0%				29.2%	0.4%						
Large	Wagon	1986				100.0%			23.7%			100.0%					
Large	Wagon	1987				100.0%			30.3%			100.0%					
Large	Wagon	1988				100.0%			30.2%			100.0%					
Large	Wagon	1989				100.0%			33.1%			100.0%					
Large	Wagon	1990				100.0%			32.7%			100.0%					
Large	Wagon	1991				100.0%			19.5%	80.5%		100.0%					
Large	Wagon	1992				100.0%				100.0%		100.0%					
Large	Wagon	1993				100.0%				100.0%		100.0%					
Large	Wagon	1994				100.0%			100.0%			100.0%					
Large	Wagon	1995				100.0%			100.0%			100.0%					
Large	Wagon	1996				100.0%			100.0%			100.0%					
Large	Wagon	1997															
Large	Wagon	1998															
Large	Wagon	1999															
Large	Wagon	2000															

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Large	Wagon	2001																
Large	Wagon	2002																
Large	Wagon	2003																
Large	Wagon	2004	98	0.006	22.0	14.9	20.9	17.8	4769	165.0	215	249	9.6	1.158	0.0524	42.4	2936	6996
Large	Wagon	2005	118	0.007	22.2	14.9	21.1	17.9	4791	165.0	217	244	9.8	1.125	0.0510	42.9	2958	7078
Large	Wagon	2006	102	0.007	21.9	14.8	20.7	17.7	4806	164.4	219	254	9.5	1.165	0.0531	42.4	2911	6969
Large	Wagon	2007	73	0.005	21.9	14.5	21.6	17.9	4785	159.2	237	247	9.7	1.048	0.0519	42.8	2849	6811
Large	Wagon	2008	23	0.002	21.8	14.6	21.0	17.7	5017	160.1	227	256	9.6	1.135	0.0512	44.4	2837	7108
Large	Wagon	2009	3	0.000	21.4	14.8	19.5	17.2	5500	161.7	209	261	10.0	1.246	0.0475	47.4	2787	7664
Large	Wagon	2010																
Large	Wagon	2011																
Large	Wagon	2012																
Small	Non-Truck SUV	1975	6	0.001	12.0	9.0	12.2	10.2	4000		257	110	15.7	0.428	0.0275	20.5		
Small	Non-Truck SUV	1976	7	0.001	10.7	8.0	11.3	9.2	4000		258	125	14.2	0.484	0.0313	18.4		
Small	Non-Truck SUV	1977	15	0.001	13.7	10.7	13.1	11.7	4000	100.0	258	125	14.2	0.484	0.0313	24.0	1202	2403
Small	Non-Truck SUV	1978	13	0.001	13.0	9.8	13.1	11.1	4000	100.0	258	125	14.2	0.484	0.0313	22.6	1128	2256
Small	Non-Truck SUV	1979	13	0.001	18.0	14.8	15.8	15.3	3127	100.0	162	94	15.0	0.608	0.0297	24.0	1581	2395
Small	Non-Truck SUV	1980																
Small	Non-Truck SUV	1981																
Small	Non-Truck SUV	1982	11	0.001	23.6	20.7	19.1	19.9	2500	100.0	151	84	13.7	0.556	0.0336	24.9	1993	2492
Small	Non-Truck SUV	1983	13	0.001	23.2	20.4	18.7	19.6	2500	100.0	151	87	13.3	0.580	0.0350	24.5	1957	2447
Small	Non-Truck SUV	1984	3	0.000	22.6	19.7	18.3	19.1	2500	100.0	150	93	12.6	0.620	0.0372	23.8	1906	2383
Small	Non-Truck SUV	1985																
Small	Non-Truck SUV	1986	0	0.000	23.5	18.0	23.0	20.0	3500	100.0	179	139	11.9	0.777	0.0397	35.0	1998	3497
Small	Non-Truck SUV	1987	23	0.002	23.3	17.5	23.3	19.8	3500	100.0	179	139	11.9	0.777	0.0397	34.6	1980	3464
Small	Non-Truck SUV	1988	38	0.003	23.0	17.5	22.1	19.4	3500	100.0	179	139	11.9	0.777	0.0397	34.0	1945	3404
Small	Non-Truck SUV	1989	34	0.002	23.0	17.5	22.1	19.4	3500	100.0	175	135	12.2	0.772	0.0387	34.0	1940	3395
Small	Non-Truck SUV	1990	27	0.002	23.4	17.7	22.1	19.6	3444	100.0	166	128	12.6	0.772	0.0372	33.8	1974	3380
Small	Non-Truck SUV	1991	47	0.004	22.8	18.5	19.1	18.8	3241	100.0	136	90	15.9	0.676	0.0279	30.6	1939	3065
Small	Non-Truck SUV	1992	48	0.004	23.3	18.7	19.6	19.2	3076	100.0	126	96	14.5	0.772	0.0312	29.8	1996	2979
Small	Non-Truck SUV	1993	48	0.004	23.0	18.4	19.1	18.8	3088	100.0	127	95	14.5	0.760	0.0309	29.2	1953	2924
Small	Non-Truck SUV	1994	62	0.004	25.0	19.4	21.5	20.4	3018	100.0	117	100	13.8	0.857	0.0331	30.7	2077	3067
Small	Non-Truck SUV	1995	25	0.002	29.2	22.3	25.1	23.7	2617	100.0	95	82	14.4	0.858	0.0314	31.0	2370	3095
Small	Non-Truck SUV	1996	41	0.003	29.3	21.8	25.9	23.8	2857	100.0	108	106	12.7	0.981	0.0370	34.1	2383	3406
Small	Non-Truck SUV	1997	149	0.010	27.8	20.5	24.8	22.6	3002	100.0	130	127	11.4	0.978	0.0423	33.9	2263	3393
Small	Non-Truck SUV	1998	83	0.006	25.5	18.6	22.9	20.7	3380	100.0	144	148	11.3	1.023	0.0432	35.0	2112	3501

2012 FE Trends Report
Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Large	Wagon	2001															
Large	Wagon	2002															
Large	Wagon	2003															
Large	Wagon	2004	46.1%	53.9%		100.0%			100.0%					100.0%			
Large	Wagon	2005	60.1%	39.9%		100.0%			100.0%			14.5%		85.5%			
Large	Wagon	2006	57.8%	42.2%		100.0%			100.0%			0.0%	19.0%	81.0%		14.5%	
Large	Wagon	2007	60.0%	40.0%		100.0%			97.9%		2.1%	12.2%	1.6%	86.3%		13.3%	
Large	Wagon	2008	31.7%	57.6%		100.0%			95.2%		4.8%			100.0%		41.0%	
Large	Wagon	2009		100.0%		100.0%			88.5%		11.5%			100.0%		88.5%	
Large	Wagon	2010															
Large	Wagon	2011															
Large	Wagon	2012															
Small	Non-Truck SUV	1975			100.0%												
Small	Non-Truck SUV	1976			100.0%												
Small	Non-Truck SUV	1977			100.0%												
Small	Non-Truck SUV	1978			100.0%												
Small	Non-Truck SUV	1979			30.2%												
Small	Non-Truck SUV	1980															
Small	Non-Truck SUV	1981															
Small	Non-Truck SUV	1982															
Small	Non-Truck SUV	1983															
Small	Non-Truck SUV	1984															
Small	Non-Truck SUV	1985															
Small	Non-Truck SUV	1986			60.0%	40.0%			100.0%			100.0%					
Small	Non-Truck SUV	1987			14.8%	85.2%			100.0%			100.0%					
Small	Non-Truck SUV	1988			48.3%	51.7%			100.0%			100.0%					
Small	Non-Truck SUV	1989			62.2%	37.8%			95.6%			100.0%					
Small	Non-Truck SUV	1990			69.6%	30.4%			82.0%	5.6%		100.0%					
Small	Non-Truck SUV	1991			34.2%	65.8%			4.4%	91.7%		100.0%					
Small	Non-Truck SUV	1992			44.9%	55.1%			17.5%	76.3%		100.0%					
Small	Non-Truck SUV	1993			38.7%	61.3%			12.2%	81.0%		100.0%					
Small	Non-Truck SUV	1994			37.2%	22.1%			60.6%	39.4%		90.8%		9.2%			
Small	Non-Truck SUV	1995			64.8%	35.2%			20.6%	79.4%		100.0%					
Small	Non-Truck SUV	1996	43.3%		39.9%	60.1%			100.0%					100.0%			
Small	Non-Truck SUV	1997	49.2%		39.6%	45.7%			100.0%					100.0%			
Small	Non-Truck SUV	1998	33.3%		34.3%	65.7%			100.0%					100.0%			

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Small	Non-Truck SUV	1999	66	0.004	27.1	19.8	23.9	21.8	3214	100.0	130	135	11.5	1.037	0.0419	35.1	2208	3514
Small	Non-Truck SUV	2000	131	0.008	23.3	17.0	20.5	18.7	3563	100.0	154	147	11.7	0.974	0.0411	33.5	1916	3353
Small	Non-Truck SUV	2001	139	0.009	26.9	19.5	23.1	21.4	3271	100.0	126	137	11.5	1.094	0.0423	35.1	2164	3514
Small	Non-Truck SUV	2002	110	0.007	26.9	19.2	23.5	21.3	3235	100.0	129	146	10.9	1.138	0.0453	34.9	2179	3485
Small	Non-Truck SUV	2003	58	0.004	29.3	20.6	25.6	23.1	3035	100.0	124	144	10.4	1.162	0.0474	35.2	2324	3518
Small	Non-Truck SUV	2004	45	0.003	29.9	20.9	25.9	23.4	3054	100.0	148	161	9.5	1.094	0.0530	35.9	2360	3590
Small	Non-Truck SUV	2005	41	0.003	30.9	21.3	26.7	24.1	3000	100.0	144	161	9.4	1.118	0.0537	36.1	2407	3611
Small	Non-Truck SUV	2006																
Small	Non-Truck SUV	2007	2	0.000	22.4	15.5	20.2	17.9	4000	100.0	232	190	10.3	0.819	0.0475	35.7	1787	3575
Small	Non-Truck SUV	2008																
Small	Non-Truck SUV	2009																
Small	Non-Truck SUV	2010																
Small	Non-Truck SUV	2011																
Small	Non-Truck SUV	2012																
Midsize	Non-Truck SUV	1975	4	0.000	15.2	12.5	13.4	12.9	4000		269	117	15.5	0.434	0.0293	26.0		
Midsize	Non-Truck SUV	1976	4	0.000	16.8	13.4	15.5	14.2	3963		272	120	15.2	0.437	0.0304	28.4		
Midsize	Non-Truck SUV	1977	4	0.000	17.1	13.6	15.8	14.5	4000	125.0	273	122	15.1	0.447	0.0306	29.3	1829	3657
Midsize	Non-Truck SUV	1978	3	0.000	17.0	13.6	15.8	14.5	4000	125.0	282	131	14.1	0.465	0.0327	29.1	1819	3637
Midsize	Non-Truck SUV	1979	3	0.000	12.6	10.4	11.0	10.7	4000	125.0	301	125	14.4	0.415	0.0312	21.8	1363	2725
Midsize	Non-Truck SUV	1980	0	0.000	17.2	13.9	15.5	14.6	4000	125.0	280	122	15.1	0.436	0.0305	29.4	1836	3672
Midsize	Non-Truck SUV	1981	0	0.000	17.3	13.7	16.1	14.7	4000	125.0	318	140	13.3	0.440	0.0350	29.4	1835	3670
Midsize	Non-Truck SUV	1982	2	0.000	22.0	17.3	20.9	18.8	3461	125.0	207	112	14.0	0.558	0.0330	32.6	2406	4080
Midsize	Non-Truck SUV	1983	21	0.002	25.1	19.0	25.4	21.4	3500	125.0	170	109	14.5	0.640	0.0311	37.6	2685	4698
Midsize	Non-Truck SUV	1984	52	0.004	22.6	17.4	22.4	19.3	3545	125.0	181	110	14.6	0.615	0.0310	34.5	2445	4312
Midsize	Non-Truck SUV	1985	88	0.006	23.5	17.6	24.2	20.1	3469	125.0	171	109	14.4	0.637	0.0314	34.9	2514	4360
Midsize	Non-Truck SUV	1986	59	0.004	22.3	17.1	21.7	18.9	3479	125.0	170	121	13.3	0.713	0.0348	33.0	2376	4129
Midsize	Non-Truck SUV	1987	72	0.005	22.7	17.0	23.0	19.3	3489	125.0	179	128	12.9	0.715	0.0366	33.8	2422	4224
Midsize	Non-Truck SUV	1988	71	0.005	22.6	16.8	22.8	19.2	3492	125.0	210	143	11.9	0.687	0.0409	33.6	2403	4195
Midsize	Non-Truck SUV	1989	73	0.005	22.5	16.9	22.1	19.0	3496	125.0	250	153	11.1	0.619	0.0439	33.3	2380	4160
Midsize	Non-Truck SUV	1990	38	0.003	21.8	16.3	21.1	18.3	3570	125.0	239	158	11.1	0.674	0.0444	32.8	2299	4097
Midsize	Non-Truck SUV	1991	177	0.014	21.5	16.0	21.0	18.0	3863	125.0	236	159	11.7	0.680	0.0413	34.9	2264	4366
Midsize	Non-Truck SUV	1992	194	0.016	21.0	15.5	20.3	17.5	3870	125.0	231	167	11.3	0.724	0.0433	34.1	2201	4256
Midsize	Non-Truck SUV	1993	424	0.032	20.2	14.7	19.7	16.9	3934	125.0	251	188	10.4	0.756	0.0479	33.3	2120	4166
Midsize	Non-Truck SUV	1994	270	0.019	21.2	15.5	20.3	17.6	3900	125.0	230	178	10.8	0.776	0.0457	34.3	2202	4291
Midsize	Non-Truck SUV	1995	195	0.013	20.8	15.1	20.0	17.3	3913	125.0	229	176	11.0	0.773	0.0452	33.9	2165	4238
Midsize	Non-Truck SUV	1996	246	0.019	21.5	15.5	20.5	17.8	3854	125.0	233	177	10.7	0.772	0.0461	34.3	2229	4293

2012 FE Trends Report
Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Small	Non-Truck SUV	1999	41.5%		23.0%	77.0%			100.0%			14.8%		85.2%			
Small	Non-Truck SUV	2000	16.3%		16.3%	83.7%			100.0%			48.3%		51.7%			
Small	Non-Truck SUV	2001	29.2%		13.5%	86.5%			100.0%			48.6%		51.4%		29.2%	
Small	Non-Truck SUV	2002	64.8%		10.8%	88.8%	0.3%		100.0%			17.8%		82.2%		47.0%	
Small	Non-Truck SUV	2003	93.5%		8.4%	91.4%	0.1%		100.0%			28.8%		71.2%		70.7%	
Small	Non-Truck SUV	2004	89.3%		4.9%	95.1%			100.0%					100.0%		89.3%	
Small	Non-Truck SUV	2005	100.0%		5.3%	94.7%			100.0%					100.0%		100.0%	
Small	Non-Truck SUV	2006															
Small	Non-Truck SUV	2007			100.0%				100.0%			100.0%					
Small	Non-Truck SUV	2008															
Small	Non-Truck SUV	2009															
Small	Non-Truck SUV	2010															
Small	Non-Truck SUV	2011															
Small	Non-Truck SUV	2012															
Midsized	Non-Truck SUV	1975			18.0%												
Midsized	Non-Truck SUV	1976			16.3%												
Midsized	Non-Truck SUV	1977			14.8%												
Midsized	Non-Truck SUV	1978			14.0%												
Midsized	Non-Truck SUV	1979			76.1%	23.9%											
Midsized	Non-Truck SUV	1980			3.9%	86.8%											
Midsized	Non-Truck SUV	1981				100.0%											
Midsized	Non-Truck SUV	1982			33.9%	66.1%											
Midsized	Non-Truck SUV	1983			30.8%	69.2%											
Midsized	Non-Truck SUV	1984			20.6%	68.6%											
Midsized	Non-Truck SUV	1985			15.9%	84.1%				5.3%							
Midsized	Non-Truck SUV	1986			18.0%	82.0%				86.8%	0.0%	100.0%					
Midsized	Non-Truck SUV	1987			14.1%	85.9%			11.4%	88.6%		100.0%					
Midsized	Non-Truck SUV	1988			11.7%	88.3%			20.1%	79.9%		100.0%					
Midsized	Non-Truck SUV	1989			11.1%	88.9%			20.8%	79.2%		100.0%					
Midsized	Non-Truck SUV	1990			11.0%	85.9%			50.1%	49.9%		100.0%					
Midsized	Non-Truck SUV	1991			19.0%	80.9%			61.1%	38.9%		100.0%					
Midsized	Non-Truck SUV	1992			19.5%	80.5%			81.1%	18.9%		100.0%					
Midsized	Non-Truck SUV	1993			7.7%	92.3%			99.5%	0.5%		100.0%					
Midsized	Non-Truck SUV	1994	3.2%		17.9%	82.1%			99.4%	0.6%		88.0%		12.0%			
Midsized	Non-Truck SUV	1995	0.2%		11.3%	88.7%			100.0%			78.4%		21.6%			
Midsized	Non-Truck SUV	1996			11.3%	88.7%			100.0%			79.0%		21.0%			

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Midsize	Non-Truck SUV	1997	212	0.015	21.2	15.3	20.0	17.4	3935	125.0	231	182	10.7	0.802	0.0463	34.4	2187	4302
Midsize	Non-Truck SUV	1998	371	0.026	21.7	15.5	20.4	17.8	3924	125.0	235	173	11.1	0.752	0.0441	35.0	2231	4369
Midsize	Non-Truck SUV	1999	418	0.027	22.2	15.8	20.6	18.1	3927	125.0	223	175	11.0	0.818	0.0446	35.6	2271	4450
Midsize	Non-Truck SUV	2000	482	0.029	21.7	15.4	20.2	17.7	3952	125.0	227	181	10.8	0.826	0.0458	35.1	2221	4382
Midsize	Non-Truck SUV	2001	560	0.036	22.8	16.0	21.2	18.4	3869	125.0	207	188	10.3	0.934	0.0487	35.9	2326	4489
Midsize	Non-Truck SUV	2002	454	0.028	23.2	16.2	21.5	18.8	3850	125.0	195	187	10.3	0.978	0.0486	36.4	2374	4549
Midsize	Non-Truck SUV	2003	479	0.030	24.4	16.9	22.5	19.6	3776	125.0	186	181	10.4	0.987	0.0479	37.3	2479	4659
Midsize	Non-Truck SUV	2004	501	0.032	24.9	17.0	23.0	19.9	3858	125.0	190	195	10.0	1.035	0.0506	38.7	2513	4834
Midsize	Non-Truck SUV	2005	478	0.030	25.7	17.6	23.1	20.4	3776	125.0	177	189	10.1	1.073	0.0498	38.6	2567	4826
Midsize	Non-Truck SUV	2006	494	0.033	26.4	18.1	23.8	21.0	3765	125.0	171	185	10.2	1.089	0.0490	39.7	2650	4961
Midsize	Non-Truck SUV	2007	610	0.040	26.8	18.3	24.2	21.2	3799	125.0	172	198	9.9	1.155	0.0516	40.5	2683	5066
Midsize	Non-Truck SUV	2008	673	0.048	27.6	18.8	24.8	21.8	3758	125.0	166	192	9.9	1.156	0.0509	41.3	2759	5163
Midsize	Non-Truck SUV	2009	457	0.049	28.8	19.5	26.0	22.7	3729	125.0	166	197	9.7	1.184	0.0526	42.7	2871	5338
Midsize	Non-Truck SUV	2010	539	0.048	29.8	20.2	26.8	23.5	3748	125.1	167	203	9.4	1.208	0.0539	44.2	2962	5531
Midsize	Non-Truck SUV	2011	740	0.062	30.6	20.6	27.6	24.1	3698	125.1	160	193	9.8	1.199	0.0519	44.7	3030	5588
Midsize	Non-Truck SUV	2012	533	0.040	30.9	20.8	27.9	24.3	3736	125.1	162	200	9.6	1.230	0.0533	45.6	3063	5703
Large	Non-Truck SUV	1975																
Large	Non-Truck SUV	1976																
Large	Non-Truck SUV	1977																
Large	Non-Truck SUV	1978																
Large	Non-Truck SUV	1979																
Large	Non-Truck SUV	1980																
Large	Non-Truck SUV	1981																
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Large	Non-Truck SUV	1988																
Large	Non-Truck SUV	1989																
Large	Non-Truck SUV	1990																
Large	Non-Truck SUV	1991																
Large	Non-Truck SUV	1992																
Large	Non-Truck SUV	1993																
Large	Non-Truck SUV	1994																

2012 FE Trends Report
Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Midsize	Non-Truck SUV	1997			11.6%	88.4%			100.0%			77.4%		22.6%			
Midsize	Non-Truck SUV	1998	5.2%		5.9%	94.1%			100.0%			86.8%		13.2%			
Midsize	Non-Truck SUV	1999	11.4%		6.2%	93.8%			100.0%			68.5%		31.5%		5.3%	
Midsize	Non-Truck SUV	2000	11.9%		2.9%	97.1%			100.0%			70.5%		29.5%		6.4%	
Midsize	Non-Truck SUV	2001	42.0%		4.7%	95.3%			100.0%			56.8%		43.2%		6.0%	
Midsize	Non-Truck SUV	2002	49.5%		7.3%	92.6%	0.2%		100.0%			26.7%		73.3%		12.8%	
Midsize	Non-Truck SUV	2003	62.9%		7.5%	87.2%	5.3%		100.0%			34.8%		65.2%		8.9%	
Midsize	Non-Truck SUV	2004	76.2%		6.9%	85.1%	8.0%		100.0%			22.4%		77.6%		32.5%	
Midsize	Non-Truck SUV	2005	86.5%		5.8%	93.4%	0.9%		100.0%			9.6%		90.4%		23.7%	0.9%
Midsize	Non-Truck SUV	2006	83.4%		4.7%	93.6%	1.6%		100.0%			12.9%		87.1%		38.0%	1.6%
Midsize	Non-Truck SUV	2007	87.0%		2.1%	96.7%	1.2%		100.0%			3.4%		96.6%		61.0%	2.4%
Midsize	Non-Truck SUV	2008	91.6%		1.0%	91.2%	7.8%	3.0%	97.0%					100.0%		69.9%	3.2%
Midsize	Non-Truck SUV	2009	97.0%		0.8%	89.7%	9.6%	1.7%	98.3%					100.0%		80.9%	3.6%
Midsize	Non-Truck SUV	2010	95.9%		0.4%	89.5%	10.1%	0.9%	99.1%					100.0%		99.9%	2.3%
Midsize	Non-Truck SUV	2011	97.2%	0.7%	0.8%	88.8%	10.3%	0.4%	99.6%					100.0%		99.7%	0.9%
Midsize	Non-Truck SUV	2012	97.5%		1.0%	89.1%	9.9%	9.7%	90.3%					100.0%		100.0%	1.3%
Large	Non-Truck SUV	1975															
Large	Non-Truck SUV	1976															
Large	Non-Truck SUV	1977															
Large	Non-Truck SUV	1978															
Large	Non-Truck SUV	1979															
Large	Non-Truck SUV	1980															
Large	Non-Truck SUV	1981															
Large	Non-Truck SUV	1982															
Large	Non-Truck SUV	1983															
Large	Non-Truck SUV	1984															
Large	Non-Truck SUV	1985															
Large	Non-Truck SUV	1986															
Large	Non-Truck SUV	1987															
Large	Non-Truck SUV	1988															
Large	Non-Truck SUV	1989															
Large	Non-Truck SUV	1990															
Large	Non-Truck SUV	1991															
Large	Non-Truck SUV	1992															
Large	Non-Truck SUV	1993															
Large	Non-Truck SUV	1994															

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Large	Non-Truck SUV	1995																
Large	Non-Truck SUV	1996																
Large	Non-Truck SUV	1997																
Large	Non-Truck SUV	1998																
Large	Non-Truck SUV	1999	4	0.000	22.3	16.0	20.6	18.2	4000	150.0	244	160	11.9	0.656	0.0400	36.3	2724	5447
Large	Non-Truck SUV	2000	4	0.000	21.3	15.0	19.9	17.3	4000	150.0	244	160	11.9	0.656	0.0400	34.7	2602	5203
Large	Non-Truck SUV	2001	44	0.003	21.0	14.9	19.2	17.0	4000	150.0	233	204	9.8	0.884	0.0510	34.0	2547	5093
Large	Non-Truck SUV	2002	38	0.002	25.6	17.2	25.2	20.9	4000	150.0	204	185	10.6	0.907	0.0463	41.8	3131	6263
Large	Non-Truck SUV	2003	38	0.002	24.3	17.1	21.7	19.4	4000	150.0	210	239	8.8	1.129	0.0596	39.1	2931	5862
Large	Non-Truck SUV	2004	93	0.006	23.1	15.5	22.4	18.8	4210	150.0	216	225	9.7	1.034	0.0531	39.7	2840	5949
Large	Non-Truck SUV	2005	294	0.019	24.4	16.4	22.9	19.6	4080	150.0	207	202	10.1	0.974	0.0494	39.9	2944	5988
Large	Non-Truck SUV	2006	257	0.017	24.3	16.4	22.9	19.5	4089	150.0	209	205	10.0	0.978	0.0499	40.0	2939	5993
Large	Non-Truck SUV	2007	307	0.020	24.3	16.3	23.0	19.6	4205	150.0	212	228	9.4	1.074	0.0541	41.1	2939	6169
Large	Non-Truck SUV	2008	251	0.018	24.4	16.3	23.3	19.7	4289	150.0	212	234	9.4	1.101	0.0543	42.2	2958	6328
Large	Non-Truck SUV	2009	151	0.016	25.2	17.0	23.4	20.2	4200	150.0	205	235	9.3	1.147	0.0558	42.3	3033	6350
Large	Non-Truck SUV	2010	376	0.034	28.1	18.8	26.2	22.4	4238	143.8	178	229	9.5	1.287	0.0537	47.9	3248	6860
Large	Non-Truck SUV	2011	466	0.039	28.8	19.1	27.1	22.9	4195	150.0	175	231	9.4	1.314	0.0547	48.6	3488	7287
Large	Non-Truck SUV	2012	381	0.029	30.2	19.9	28.2	23.9	4148	149.9	165	217	9.8	1.309	0.0519	50.1	3639	7507
Small	Van	1975	2	0.000	20.6	16.2	19.6	17.5	3498		118	78	19.1	0.656	0.0224	30.7		
Small	Van	1976	2	0.000	19.9	15.1	20.1	17.0	3500		120	67	20.9	0.558	0.0191	29.8		
Small	Van	1977	2	0.000	22.2	17.2	21.5	18.9	3500		120	67	20.8	0.558	0.0191	33.1		
Small	Van	1978	3	0.000	20.0	15.7	19.1	17.0	3500		120	67	20.9	0.558	0.0191	29.8		
Small	Van	1979	8	0.001	18.7	14.8	17.6	16.0	3500		120	67	20.9	0.558	0.0191	28.0		
Small	Van	1980	16	0.001	19.0	14.7	18.6	16.2	3619		120	67	21.4	0.558	0.0186	29.4		
Small	Van	1981	11	0.001	18.5	14.6	17.4	15.8	3644		120	67	21.6	0.558	0.0185	28.7		
Small	Van	1982	15	0.002	21.7	17.7	19.4	18.4	3668		111	61	23.4	0.550	0.0168	35.6		
Small	Van	1983	14	0.001	19.7	15.6	18.4	16.8	3567		118	69	20.9	0.583	0.0194	30.3		
Small	Van	1984	83	0.006	25.6	20.8	23.0	21.7	3314		120	87	16.6	0.721	0.0265	36.4		
Small	Van	1985	93	0.006	25.5	20.7	23.1	21.7	3270		121	88	16.2	0.727	0.0272	35.6		
Small	Van	1986	102	0.007	25.7	20.6	23.1	21.7	3298		131	95	15.3	0.728	0.0291	36.0		
Small	Van	1987	126	0.008	24.3	19.4	21.9	20.5	3299		134	98	15.0	0.736	0.0301	34.0		
Small	Van	1988	56	0.004	24.5	19.2	22.3	20.6	3402		134	101	15.1	0.751	0.0297	35.2		
Small	Van	1989	36	0.002	25.0	19.8	22.4	20.9	3390		130	98	15.3	0.755	0.0293	35.5		
Small	Van	1990	31	0.002	23.9	18.5	21.8	20.0	3554		140	120	14.0	0.855	0.0344	35.6		
Small	Van	1991	15	0.001	24.0	18.6	21.5	19.9	3402		124	95	15.8	0.761	0.0284	33.8		
Small	Van	1992	40	0.003	27.0	20.2	25.3	22.4	3217		129	115	13.0	0.901	0.0358	36.1		

2012 FE Trends Report
Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Large	Non-Truck SUV	1995															
Large	Non-Truck SUV	1996															
Large	Non-Truck SUV	1997															
Large	Non-Truck SUV	1998															
Large	Non-Truck SUV	1999				100.0%			100.0%			100.0%					
Large	Non-Truck SUV	2000				100.0%			100.0%			100.0%					
Large	Non-Truck SUV	2001			1.0%	99.0%			100.0%			85.2%		14.8%			
Large	Non-Truck SUV	2002	100.0%			100.0%			100.0%			100.0%					
Large	Non-Truck SUV	2003	61.8%		0.4%	37.8%	61.8%		100.0%					100.0%		76.5%	
Large	Non-Truck SUV	2004	47.6%	23.1%	0.3%	99.7%			100.0%			47.6%		52.4%		42.0%	
Large	Non-Truck SUV	2005	50.2%	40.1%	0.0%	89.1%	10.9%		100.0%			74.1%		25.9%		23.1%	
Large	Non-Truck SUV	2006	66.8%	25.0%	0.0%	88.0%	12.0%		100.0%			13.8%		86.2%		24.6%	
Large	Non-Truck SUV	2007	82.7%	13.9%		90.6%	9.4%		100.0%			44.5%		55.5%		19.0%	
Large	Non-Truck SUV	2008	74.9%	19.6%		100.0%			100.0%			38.3%		61.7%		20.4%	
Large	Non-Truck SUV	2009	77.9%	11.1%		74.6%	25.4%		100.0%			23.6%		76.4%		52.0%	
Large	Non-Truck SUV	2010	77.6%	21.6%		94.2%	5.8%	62.4%	37.6%					100.0%		100.0%	
Large	Non-Truck SUV	2011	75.4%	23.9%		95.7%	4.3%	70.9%	29.1%					100.0%		100.0%	
Large	Non-Truck SUV	2012	72.2%	26.9%		97.0%	3.0%	81.6%	18.4%					100.0%		100.0%	
Small	Van	1975			43.3%					61.1%							
Small	Van	1976			84.8%					100.0%							
Small	Van	1977			89.9%					100.0%							
Small	Van	1978			85.0%					100.0%							
Small	Van	1979			81.2%					100.0%							
Small	Van	1980			82.9%					100.0%							
Small	Van	1981			81.2%					100.0%							
Small	Van	1982			89.0%					61.7%	38.3%						
Small	Van	1983	4.2%		76.9%					93.6%	6.4%						
Small	Van	1984	20.0%		41.9%	50.1%			54.4%	25.6%	2.4%						
Small	Van	1985	18.7%	3.2%	40.8%	53.3%			57.7%	20.5%							
Small	Van	1986	22.4%	13.1%	36.4%	60.8%			64.5%								
Small	Van	1987	20.5%	17.0%	28.6%	66.8%			65.1%	18.1%							
Small	Van	1988	21.1%	16.0%	28.4%	68.6%			81.6%	18.4%							
Small	Van	1989	27.6%	21.3%	29.5%	65.4%			99.7%	0.3%							
Small	Van	1990	55.8%	22.8%	31.4%	55.9%			99.0%	1.0%							
Small	Van	1991	42.3%	28.4%	46.0%	36.5%			100.0%								
Small	Van	1992	84.4%	15.6%	26.8%	73.2%			100.0%								

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Small	Van	1993	12	0.001	28.2	20.9	26.4	23.3	3032		122	120	12.0	0.991	0.0396	35.4		
Small	Van	1994	11	0.001	27.0	19.7	25.7	22.3	3248		135	130	11.9	0.966	0.0402	36.4		
Small	Van	1995	6	0.000	26.5	19.3	24.8	21.8	3163		135	130	11.7	0.967	0.0411	34.6		
Small	Van	1996	2	0.000	26.2	18.8	24.9	21.5	3416		142	135	12.1	0.949	0.0394	36.8		
Small	Van	1997																
Small	Van	1998																
Small	Van	1999																
Small	Van	2000																
Small	Van	2001																
Small	Van	2002																
Small	Van	2003																
Small	Van	2004																
Small	Van	2005																
Small	Van	2006																
Small	Van	2007																
Small	Van	2008	16	0.001	30.7	20.9	27.3	24.1	3500		140	153	11.1	1.093	0.0437	42.2		
Small	Van	2009	22	0.002	30.3	20.7	26.8	23.8	3500		140	153	11.1	1.093	0.0437	41.6		
Small	Van	2010	20	0.002	30.7	20.9	27.3	24.1	3500		140	153	11.1	1.093	0.0437	42.2		
Small	Van	2011																
Small	Van	2012																
Midsize	Van	1975	302	0.030	13.3	10.8	11.9	11.3	4230		310	141	13.9	0.454	0.0334	24.5		
Midsize	Van	1976	308	0.025	14.1	11.3	12.9	12.0	4278		317	143	14.0	0.449	0.0334	26.1		
Midsize	Van	1977	314	0.022	14.3	11.6	12.8	12.1	4348		326	149	13.6	0.456	0.0343	26.6		
Midsize	Van	1978	399	0.028	13.8	11.3	12.2	11.7	4345		327	152	13.3	0.465	0.0351	25.9		
Midsize	Van	1979	313	0.023	14.3	11.8	12.5	12.1	4506		320	137	15.0	0.433	0.0305	27.6		
Midsize	Van	1980	130	0.011	16.9	13.5	15.6	14.3	4230		288	136	14.3	0.475	0.0321	30.5		
Midsize	Van	1981	138	0.013	17.9	14.3	16.5	15.2	4248		279	134	14.6	0.480	0.0315	32.4		
Midsize	Van	1982	180	0.019	17.9	14.3	16.5	15.2	4266		284	139	14.3	0.485	0.0324	32.5		
Midsize	Van	1983	230	0.022	18.7	14.8	17.4	15.9	4396		294	141	14.5	0.480	0.0320	35.3		
Midsize	Van	1984	420	0.030	19.2	15.1	18.1	16.3	4081		248	127	14.8	0.538	0.0309	33.8		
Midsize	Van	1985	600	0.041	19.8	15.8	18.5	16.9	3945		233	131	14.1	0.586	0.0330	33.7		
Midsize	Van	1986	782	0.051	20.8	16.2	19.7	17.6	3964		224	129	14.3	0.595	0.0323	35.2		
Midsize	Van	1987	848	0.057	21.2	16.3	20.3	18.0	3959		226	146	12.9	0.671	0.0368	35.8		
Midsize	Van	1988	941	0.062	21.8	16.6	21.0	18.4	3974		223	148	12.7	0.691	0.0373	36.8		
Midsize	Van	1989	1100	0.076	21.8	16.5	20.9	18.3	3980		218	146	12.9	0.700	0.0367	36.7		
Midsize	Van	1990	1124	0.089	21.8	16.3	21.0	18.3	4033		219	148	12.9	0.693	0.0367	37.1		

2012 FE Trends Report
Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Small	Van	1993	98.5%	1.5%	14.5%	85.5%			100.0%								
Small	Van	1994	66.1%	33.9%	14.1%	85.9%			100.0%			42.9%	33.9%	23.3%			
Small	Van	1995	27.3%	72.7%	18.8%	81.2%			100.0%					100.0%			
Small	Van	1996	92.3%	7.7%	3.8%	96.2%			100.0%					100.0%			
Small	Van	1997															
Small	Van	1998															
Small	Van	1999															
Small	Van	2000															
Small	Van	2001															
Small	Van	2002															
Small	Van	2003															
Small	Van	2004															
Small	Van	2005															
Small	Van	2006															
Small	Van	2007															
Small	Van	2008	100.0%		4.9%	95.1%			100.0%					100.0%		100.0%	
Small	Van	2009	100.0%		4.8%	95.2%			100.0%					100.0%		100.0%	
Small	Van	2010	100.0%		6.7%	93.3%			100.0%					100.0%		100.0%	
Small	Van	2011															
Small	Van	2012															
Midsized	Van	1975			19.1%												
Midsized	Van	1976			17.6%												
Midsized	Van	1977			11.8%												
Midsized	Van	1978			10.6%												
Midsized	Van	1979			13.5%	10.4%											
Midsized	Van	1980			21.9%	71.3%											
Midsized	Van	1981	0.6%		16.0%	81.1%											
Midsized	Van	1982			10.5%	78.7%											
Midsized	Van	1983			9.1%	77.2%					7.1%						
Midsized	Van	1984	32.0%		12.0%	48.7%					1.5%						
Midsized	Van	1985	40.4%		6.1%	45.9%			0.1%	1.0%	0.4%						
Midsized	Van	1986	29.7%		5.7%	61.5%			10.9%	21.7%	0.2%						
Midsized	Van	1987	33.1%		3.9%	70.6%			36.9%	36.8%	0.1%						
Midsized	Van	1988	42.4%		2.6%	83.1%			49.9%	49.8%	0.1%						
Midsized	Van	1989	39.0%	0.1%	2.3%	80.2%			52.0%	47.9%	0.1%						
Midsized	Van	1990	51.0%	6.8%	1.2%	96.2%			53.5%	46.4%	0.1%						

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Midsize	Van	1991	943	0.075	21.9	16.3	20.9	18.3	4079		214	148	13.0	0.714	0.0363	37.5		
Midsize	Van	1992	1088	0.089	21.8	16.2	20.9	18.2	4102		218	152	12.8	0.713	0.0369	37.5		
Midsize	Van	1993	1323	0.100	22.3	16.4	21.5	18.6	4033		211	154	12.5	0.741	0.0380	37.6		
Midsize	Van	1994	1295	0.092	22.0	16.1	21.0	18.2	4078		219	158	12.4	0.732	0.0386	37.3		
Midsize	Van	1995	1552	0.102	22.2	16.0	21.4	18.4	4041		226	158	12.3	0.717	0.0390	37.3		
Midsize	Van	1996	1298	0.099	22.8	16.3	22.0	18.8	4116		212	168	11.8	0.806	0.0410	38.8		
Midsize	Van	1997	1126	0.078	22.6	16.1	21.7	18.6	4132		210	168	11.8	0.810	0.0407	38.5		
Midsize	Van	1998	1357	0.094	23.3	16.4	22.5	19.1	4090		209	176	11.3	0.849	0.0431	39.2		
Midsize	Van	1999	1293	0.085	23.0	16.1	22.3	18.9	4199		213	177	11.4	0.842	0.0422	39.7		
Midsize	Van	2000	1522	0.092	23.5	16.3	22.6	19.2	4197		208	179	11.4	0.869	0.0426	40.3		
Midsize	Van	2001	939	0.060	24.0	16.5	22.9	19.5	4267		206	190	11.0	0.930	0.0446	41.7		
Midsize	Van	2002	1132	0.070	23.7	16.3	22.6	19.2	4332		210	197	10.8	0.945	0.0456	41.8		
Midsize	Van	2003	1121	0.071	24.1	16.4	22.9	19.5	4313		212	198	10.7	0.940	0.0461	42.1		
Midsize	Van	2004	893	0.057	24.1	16.2	23.1	19.5	4431		214	212	10.4	0.999	0.0479	43.2		
Midsize	Van	2005	1426	0.090	24.2	16.2	23.0	19.5	4398		213	208	10.5	0.983	0.0473	42.9		
Midsize	Van	2006	1096	0.073	24.7	16.4	23.6	19.9	4431		212	210	10.5	0.995	0.0474	44.0		
Midsize	Van	2007	816	0.053	24.4	16.3	23.4	19.7	4450		216	225	10.0	1.043	0.0505	43.8		
Midsize	Van	2008	746	0.054	24.7	16.5	23.7	19.9	4524		219	222	10.4	1.016	0.0491	45.1		
Midsize	Van	2009	331	0.036	24.9	16.6	23.9	20.1	4612		217	224	10.4	1.039	0.0487	46.4		
Midsize	Van	2010	524	0.047	25.0	16.7	23.8	20.1	4550		215	214	10.6	1.003	0.0469	45.8		
Midsize	Van	2011	503	0.042	26.6	17.7	25.1	21.3	4464		209	259	8.9	1.238	0.0578	47.5		
Midsize	Van	2012	656	0.049	26.7	17.7	25.4	21.4	4439		210	260	8.9	1.234	0.0582	47.6		
Large	Van	1975	153	0.015	12.6	10.0	11.7	10.7	4135		334	148	13.7	0.434	0.0356	22.5		
Large	Van	1976	192	0.016	13.4	10.6	12.7	11.4	4081		336	151	13.3	0.444	0.0370	23.8		
Large	Van	1977	199	0.014	15.5	12.5	14.1	13.2	4110		343	158	12.6	0.459	0.0385	27.4		
Large	Van	1978	224	0.015	15.0	12.2	13.6	12.8	4088		335	145	13.3	0.430	0.0354	26.5		
Large	Van	1979	159	0.011	12.1	9.7	11.1	10.3	4665		336	163	13.5	0.480	0.0348	24.3		
Large	Van	1980	96	0.008	16.0	12.8	14.7	13.6	4639		315	133	15.5	0.421	0.0287	31.9		
Large	Van	1981	96	0.009	16.8	13.5	15.3	14.3	4513		310	129	15.6	0.414	0.0285	32.5		
Large	Van	1982	115	0.012	16.1	13.0	14.7	13.7	4548		314	131	15.5	0.418	0.0289	31.5		
Large	Van	1983	138	0.013	16.2	12.9	15.0	13.8	4532		314	135	15.1	0.429	0.0297	31.5		
Large	Van	1984	174	0.012	16.4	13.0	15.4	14.0	4421		314	143	14.4	0.452	0.0322	31.2		
Large	Van	1985	162	0.011	16.1	12.7	15.1	13.7	4491		312	146	14.3	0.464	0.0325	30.9		
Large	Van	1986	160	0.010	17.6	13.8	16.5	14.9	4611		306	142	14.9	0.464	0.0308	34.6		
Large	Van	1987	140	0.009	17.0	13.2	16.1	14.4	4660		309	155	13.9	0.500	0.0332	33.7		
Large	Van	1988	137	0.009	16.9	13.0	16.0	14.3	4858		309	156	14.3	0.502	0.0321	34.8		

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Midsize	Van	1991	41.2%	11.5%	0.7%	99.0%			60.2%	39.7%	0.1%						
Midsize	Van	1992	47.8%	5.6%	0.8%	98.3%			68.6%	31.3%	0.1%						
Midsize	Van	1993	53.4%	4.9%	1.1%	98.6%			77.4%	22.6%							
Midsize	Van	1994	56.7%	6.8%	0.4%	98.7%			79.6%	20.4%		96.6%	2.0%	1.3%			
Midsize	Van	1995	65.5%	9.4%		99.5%			86.9%	13.1%		95.5%	1.1%	3.4%			
Midsize	Van	1996	80.0%	2.5%		99.5%			100.0%			93.9%	1.1%	5.0%			
Midsize	Van	1997	72.6%	5.3%		99.5%			100.0%			92.9%	1.2%	5.9%			
Midsize	Van	1998	86.0%	3.5%		100.0%			100.0%			88.6%		11.4%			
Midsize	Van	1999	86.0%	3.1%		100.0%			100.0%			85.9%		14.1%		9.3%	
Midsize	Van	2000	89.5%	3.0%		100.0%			100.0%			76.0%		24.0%		16.7%	
Midsize	Van	2001	91.0%	3.3%		100.0%			100.0%			70.4%		29.6%		22.3%	
Midsize	Van	2002	92.6%	3.3%		100.0%			100.0%			68.9%		31.1%		22.9%	
Midsize	Van	2003	91.4%	4.9%		100.0%			100.0%			72.0%		28.0%		21.5%	
Midsize	Van	2004	92.4%	4.8%		100.0%			100.0%			44.2%		55.8%		49.2%	
Midsize	Van	2005	92.6%	5.4%		94.7%	5.3%		100.0%			60.6%		39.4%		26.0%	
Midsize	Van	2006	95.5%	4.5%		95.0%	5.0%		100.0%			50.2%		49.8%		38.8%	
Midsize	Van	2007	97.4%	2.6%		95.3%	4.7%		100.0%			44.9%		55.1%		50.6%	
Midsize	Van	2008	96.1%	3.7%		100.0%			100.0%			46.3%		53.7%		48.7%	
Midsize	Van	2009	98.0%	2.0%		100.0%			100.0%			41.2%		58.8%		45.7%	
Midsize	Van	2010	98.9%	1.1%		100.0%			100.0%			48.6%		51.4%		35.1%	
Midsize	Van	2011	94.7%	5.2%		96.8%	3.2%		100.0%					100.0%		94.3%	
Midsize	Van	2012	96.7%	2.6%		91.4%	8.6%		100.0%			0.8%		99.2%		91.9%	
Large	Van	1975			31.4%												
Large	Van	1976			24.8%												
Large	Van	1977			17.4%												
Large	Van	1978			16.5%												
Large	Van	1979			13.9%												
Large	Van	1980			22.2%	1.6%											
Large	Van	1981			23.5%	2.6%											
Large	Van	1982			14.4%	0.4%											
Large	Van	1983			10.3%	35.6%											
Large	Van	1984			11.2%	35.8%											
Large	Van	1985			6.5%	49.5%											
Large	Van	1986			4.8%	52.8%			47.7%		1.2%						
Large	Van	1987			2.0%	50.4%			82.8%	1.4%							
Large	Van	1988			1.5%	52.5%			94.7%	4.5%							

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Large	Van	1989	142	0.010	16.8	12.9	15.7	14.1	4821		309	155	14.3	0.501	0.0323	34.2		
Large	Van	1990	107	0.009	16.5	12.6	15.7	13.9	4901		314	162	14.0	0.514	0.0331	34.2		
Large	Van	1991	76	0.006	16.7	12.6	15.8	14.0	4943		312	163	14.1	0.518	0.0329	34.7		
Large	Van	1992	93	0.008	16.9	12.6	16.2	14.2	5132		315	167	14.2	0.527	0.0326	36.5		
Large	Van	1993	107	0.008	17.0	12.6	16.1	14.2	5132		315	178	13.5	0.565	0.0348	36.5		
Large	Van	1994	112	0.008	17.0	12.5	16.3	14.2	5156		318	184	13.3	0.577	0.0357	36.5		
Large	Van	1995	104	0.007	17.1	12.5	16.3	14.2	5185		314	178	13.7	0.567	0.0345	36.8		
Large	Van	1996	110	0.008	17.1	12.4	16.3	14.2	5153		325	197	12.7	0.604	0.0384	36.5		
Large	Van	1997	139	0.010	18.6	13.3	17.8	15.4	5119		300	221	11.3	0.740	0.0432	39.4		
Large	Van	1998	132	0.009	18.3	13.1	17.6	15.1	5136		297	220	11.3	0.745	0.0430	38.9		
Large	Van	1999	171	0.011	17.9	12.7	17.1	14.7	5123		297	223	11.2	0.756	0.0436	37.7		
Large	Van	2000	169	0.010	18.0	12.8	16.8	14.7	4986		296	221	11.0	0.751	0.0445	36.7		
Large	Van	2001	294	0.019	17.8	12.5	16.9	14.5	5322		303	239	10.9	0.791	0.0450	38.7		
Large	Van	2002	112	0.007	17.9	12.7	16.5	14.6	5024		293	223	11.0	0.766	0.0444	36.7		
Large	Van	2003	111	0.007	18.7	13.2	17.0	15.1	5203		289	233	11.0	0.811	0.0447	39.5		
Large	Van	2004	60	0.004	19.4	13.5	17.9	15.7	5314		292	240	10.9	0.817	0.0450	41.7		
Large	Van	2005	55	0.003	19.4	13.4	17.7	15.6	5241		288	234	11.0	0.808	0.0445	40.8		
Large	Van	2006	70	0.005	19.4	13.4	17.7	15.6	5171		283	229	11.1	0.806	0.0443	40.3		
Large	Van	2007	32	0.002	19.8	13.7	18.2	15.9	5229		283	229	11.3	0.800	0.0435	41.6		
Large	Van	2008	27	0.002	20.1	14.0	18.1	16.1	5232		282	230	11.3	0.806	0.0436	42.1		
Large	Van	2009	15	0.002	20.0	13.9	18.1	16.0	5271		285	233	11.2	0.809	0.0438	42.2		
Large	Van	2010	15	0.001	20.1	13.9	18.4	16.2	5342		289	241	11.1	0.826	0.0447	43.2		
Large	Van	2011	18	0.001	19.1	13.3	17.5	15.4	5562		296	246	11.2	0.825	0.0441	42.8		
Large	Van	2012	29	0.002	19.1	13.2	17.5	15.3	5541		299	247	11.1	0.819	0.0444	42.6		
Small	Truck SUV	1975	47	0.005	16.8	13.5	15.5	14.3	2750		276	120	11.4	0.429	0.0435	19.8		
Small	Truck SUV	1976	53	0.004	17.1	14.0	15.1	14.5	2841		275	106	12.5	0.385	0.0374	20.6		
Small	Truck SUV	1977	57	0.004	18.2	14.8	16.2	15.4	2806		279	107	12.3	0.384	0.0382	21.7		
Small	Truck SUV	1978	78	0.005	17.8	14.5	15.9	15.1	2814		279	107	12.3	0.383	0.0380	21.2		
Small	Truck SUV	1979	91	0.007	16.5	13.8	14.3	14.0	3201		275	120	12.4	0.442	0.0377	22.4		
Small	Truck SUV	1980	61	0.005	18.8	15.3	17.0	16.0	3083		227	95	14.6	0.454	0.0306	24.9		
Small	Truck SUV	1981	43	0.004	20.4	16.3	18.7	17.3	3054		225	103	13.6	0.475	0.0335	26.7		
Small	Truck SUV	1982	32	0.003	19.6	15.6	18.4	16.7	3069		227	101	13.9	0.474	0.0329	25.7		
Small	Truck SUV	1983	43	0.004	20.9	16.7	19.3	17.7	2928		228	103	13.3	0.483	0.0349	26.0		
Small	Truck SUV	1984	142	0.010	21.6	17.3	19.8	18.3	3320		187	102	14.8	0.562	0.0307	30.4		
Small	Truck SUV	1985	115	0.008	22.1	17.2	21.3	18.8	3438		167	99	15.5	0.596	0.0285	32.3		
Small	Truck SUV	1986	177	0.012	23.7	18.5	22.3	20.1	3232		167	119	13.0	0.734	0.0361	32.4		

2012 FE Trends Report
Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Large	Van	1989			1.2%	51.1%			95.0%	5.0%							
Large	Van	1990				75.3%			94.5%	5.5%							
Large	Van	1991				77.6%			95.0%	5.0%							
Large	Van	1992				83.7%			97.2%	2.8%							
Large	Van	1993		0.2%		80.9%			97.3%	2.7%							
Large	Van	1994				83.7%			98.1%	1.9%		100.0%					
Large	Van	1995	1.7%		0.8%	80.2%			94.5%	5.5%		100.0%					
Large	Van	1996				85.1%			100.0%			100.0%					
Large	Van	1997	1.2%			100.0%			100.0%			100.0%					
Large	Van	1998				100.0%			100.0%			100.0%					
Large	Van	1999	0.6%			100.0%			100.0%			100.0%					
Large	Van	2000	1.0%			100.0%			100.0%			100.0%					
Large	Van	2001		25.8%		100.0%			100.0%			100.0%					
Large	Van	2002	0.7%			100.0%			100.0%			99.3%		0.7%			
Large	Van	2003	3.9%	6.5%		100.0%			100.0%			96.1%		3.9%			
Large	Van	2004		7.3%		100.0%			100.0%			100.0%					
Large	Van	2005		7.0%		100.0%			100.0%			100.0%					
Large	Van	2006		5.7%		100.0%			100.0%			100.0%					
Large	Van	2007		12.5%		100.0%			100.0%			100.0%					
Large	Van	2008		14.8%		100.0%			100.0%			100.0%					
Large	Van	2009		16.4%		100.0%			100.0%			100.0%					
Large	Van	2010		20.5%		100.0%			100.0%			100.0%				43.6%	
Large	Van	2011		17.2%		100.0%			100.0%			100.0%				39.8%	
Large	Van	2012		10.0%		100.0%			100.0%			100.0%				30.8%	
Small	Truck SUV	1975		100.0%	100.0%												
Small	Truck SUV	1976		97.7%	82.5%												
Small	Truck SUV	1977		100.0%	87.5%												
Small	Truck SUV	1978		100.0%	84.7%												
Small	Truck SUV	1979		100.0%	84.5%												
Small	Truck SUV	1980		100.0%	88.6%												
Small	Truck SUV	1981		100.0%	90.5%	8.8%											
Small	Truck SUV	1982		100.0%	90.9%	9.1%											
Small	Truck SUV	1983		100.0%	91.4%	8.6%											
Small	Truck SUV	1984		100.0%	43.1%	3.2%											
Small	Truck SUV	1985		100.0%	55.1%	44.0%					0.0%						
Small	Truck SUV	1986		100.0%	60.2%	37.4%			62.3%								

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Small	Truck SUV	1987	232	0.016	24.3	19.0	22.5	20.5	3137		159	109	13.5	0.718	0.0342	32.1		
Small	Truck SUV	1988	250	0.016	24.4	19.1	22.4	20.5	3070		154	108	13.5	0.733	0.0344	31.5		
Small	Truck SUV	1989	193	0.013	22.8	17.8	20.8	19.1	3433		171	117	13.5	0.724	0.0340	32.9		
Small	Truck SUV	1990	163	0.013	23.4	18.2	21.2	19.5	3310		162	113	13.5	0.745	0.0340	32.4		
Small	Truck SUV	1991	89	0.007	24.1	18.9	21.2	20.0	3170		150	120	13.0	0.817	0.0371	31.9		
Small	Truck SUV	1992	81	0.007	23.5	18.3	20.7	19.4	3093		158	130	12.1	0.835	0.0410	30.5		
Small	Truck SUV	1993	96	0.007	23.4	18.1	20.6	19.2	3125		162	134	11.9	0.842	0.0420	30.4		
Small	Truck SUV	1994	126	0.009	23.7	18.3	20.7	19.4	3065		150	123	12.5	0.834	0.0393	30.1		
Small	Truck SUV	1995	164	0.011	23.6	18.1	20.3	19.2	3019		145	123	12.0	0.866	0.0403	29.3		
Small	Truck SUV	1996	79	0.006	28.1	21.1	24.7	22.8	2917		107	106	12.9	0.992	0.0363	33.3		
Small	Truck SUV	1997	340	0.024	21.1	15.4	19.3	17.3	3680		204	163	11.2	0.810	0.0439	31.8		
Small	Truck SUV	1998	232	0.016	23.2	17.1	20.7	18.8	3508		169	157	11.2	0.951	0.0443	33.6		
Small	Truck SUV	1999	249	0.016	23.4	17.2	20.7	18.9	3604		165	151	11.6	0.951	0.0418	34.5		
Small	Truck SUV	2000	269	0.016	22.2	16.2	19.6	17.9	3830		179	157	11.7	0.907	0.0411	34.6		
Small	Truck SUV	2001	252	0.016	23.9	17.3	20.8	19.1	3600		168	160	10.9	0.988	0.0444	34.9		
Small	Truck SUV	2002	244	0.015	23.9	17.2	20.9	19.0	3661		169	163	10.9	1.007	0.0444	35.6		
Small	Truck SUV	2003	207	0.013	24.2	17.1	21.5	19.3	3627		171	165	10.8	1.006	0.0454	35.5		
Small	Truck SUV	2004	211	0.013	23.8	16.5	21.5	19.0	3700		188	177	10.3	0.979	0.0479	35.5		
Small	Truck SUV	2005	174	0.011	23.2	16.1	20.6	18.4	3642		186	175	10.3	0.983	0.0482	34.5		
Small	Truck SUV	2006	132	0.009	21.5	15.0	19.2	17.2	3774		200	183	10.2	0.955	0.0485	33.5		
Small	Truck SUV	2007	143	0.009	22.4	15.7	19.7	17.8	4054		207	186	10.6	0.928	0.0461	36.3		
Small	Truck SUV	2008	151	0.011	22.8	15.8	20.5	18.1	4142		215	187	10.8	0.892	0.0454	37.7		
Small	Truck SUV	2009	57	0.006	20.7	14.3	18.8	16.6	4332		231	199	10.7	0.860	0.0460	35.9		
Small	Truck SUV	2010	98	0.009	21.8	15.0	19.9	17.4	4298		232	200	10.5	0.862	0.0467	37.5		
Small	Truck SUV	2011																
Small	Truck SUV	2012																
Midsize	Truck SUV	1975	119	0.012	12.0	9.9	10.5	10.2	4748		352	157	13.9	0.446	0.0332	24.2		
Midsize	Truck SUV	1976	164	0.013	13.2	10.7	12.0	11.2	4750		356	151	14.5	0.422	0.0319	26.7		
Midsize	Truck SUV	1977	190	0.013	14.5	11.7	13.2	12.4	4622		351	154	13.9	0.439	0.0334	28.7		
Midsize	Truck SUV	1978	267	0.018	13.8	11.1	12.7	11.7	4660		359	161	13.4	0.448	0.0346	27.4		
Midsize	Truck SUV	1979	185	0.013	11.8	9.7	10.5	10.0	4818		344	154	14.5	0.446	0.0318	24.3		
Midsize	Truck SUV	1980	100	0.009	14.3	11.5	13.0	12.1	4711		324	145	14.8	0.448	0.0308	28.9		
Midsize	Truck SUV	1981	79	0.007	15.6	12.4	14.5	13.3	4666		317	140	15.0	0.445	0.0301	31.3		
Midsize	Truck SUV	1982	96	0.010	16.3	13.0	15.1	13.9	4755		322	140	15.2	0.439	0.0296	34.2		
Midsize	Truck SUV	1983	183	0.018	18.2	14.2	17.5	15.5	4406		259	128	15.4	0.525	0.0290	35.1		
Midsize	Truck SUV	1984	379	0.027	18.5	14.5	17.6	15.8	4168		233	125	15.1	0.565	0.0298	33.6		

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Small	Truck SUV	1987		100.0%	70.2%	19.4%			38.4%	4.6%							
Small	Truck SUV	1988		100.0%	70.2%	23.6%			44.2%	2.7%							
Small	Truck SUV	1989		100.0%	60.0%	29.9%			46.5%	30.6%							
Small	Truck SUV	1990		100.0%	63.7%	31.8%			42.6%	41.1%							
Small	Truck SUV	1991		100.0%	75.1%	17.1%			57.6%	42.4%							
Small	Truck SUV	1992		100.0%	79.4%	13.0%			69.0%	31.0%							
Small	Truck SUV	1993		100.0%	76.0%	15.7%			80.1%	19.9%							
Small	Truck SUV	1994		100.0%	70.7%	29.3%			65.5%	34.5%		90.5%		9.5%			
Small	Truck SUV	1995		100.0%	71.3%	28.7%			87.9%	12.1%		100.0%					
Small	Truck SUV	1996		100.0%	39.6%	60.4%			100.0%					100.0%			
Small	Truck SUV	1997		100.0%	42.5%	57.5%			100.0%			75.8%		24.2%			
Small	Truck SUV	1998		100.0%	45.6%	54.4%			100.0%			38.9%		61.1%			
Small	Truck SUV	1999		100.0%	38.7%	61.3%			100.0%			44.3%		55.7%			
Small	Truck SUV	2000		100.0%	32.3%	67.7%			100.0%			70.0%		30.0%			
Small	Truck SUV	2001		97.6%	24.5%	75.5%			100.0%			45.7%		54.3%		18.5%	
Small	Truck SUV	2002		97.8%	24.7%	75.3%			100.0%			42.3%		57.7%		18.1%	
Small	Truck SUV	2003		98.7%	26.4%	73.6%			100.0%			43.6%		56.4%		17.6%	
Small	Truck SUV	2004		97.8%	27.3%	72.7%			100.0%			40.2%		59.8%		17.9%	
Small	Truck SUV	2005		97.2%	27.7%	72.3%			100.0%			40.7%		59.3%		23.8%	
Small	Truck SUV	2006		100.0%	35.1%	64.9%			100.0%			54.7%		45.3%		2.4%	
Small	Truck SUV	2007		93.8%	24.1%	75.9%			100.0%			69.2%		30.8%		1.6%	
Small	Truck SUV	2008		96.2%	22.8%	77.2%			100.0%			79.9%		20.1%		0.8%	
Small	Truck SUV	2009		95.6%	9.1%	90.9%			100.0%			100.0%					
Small	Truck SUV	2010		97.1%	21.7%	78.3%			100.0%			100.0%					
Small	Truck SUV	2011															
Small	Truck SUV	2012															
Midsized	Truck SUV	1975		91.3%	18.3%												
Midsized	Truck SUV	1976		93.5%	17.7%												
Midsized	Truck SUV	1977		91.4%	17.9%												
Midsized	Truck SUV	1978		95.0%	17.7%												
Midsized	Truck SUV	1979		91.6%	18.3%	0.9%											
Midsized	Truck SUV	1980		96.1%	22.5%	29.5%					2.9%						
Midsized	Truck SUV	1981		97.0%	21.1%	48.5%											
Midsized	Truck SUV	1982		94.6%	19.5%	44.6%					13.7%						
Midsized	Truck SUV	1983		99.4%	25.8%	54.6%					4.8%						
Midsized	Truck SUV	1984		98.9%	29.3%	47.4%					1.3%						

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Midsize	Truck SUV	1985	475	0.033	19.2	15.0	18.5	16.3	4111		219	125	15.0	0.595	0.0302	34.2		
Midsize	Truck SUV	1986	479	0.031	19.4	15.2	18.4	16.5	4071		209	127	14.5	0.646	0.0311	34.0		
Midsize	Truck SUV	1987	490	0.033	19.4	14.9	18.6	16.4	4046		221	143	13.4	0.673	0.0356	33.6		
Midsize	Truck SUV	1988	540	0.035	19.2	14.7	18.4	16.2	4085		237	154	12.7	0.673	0.0381	33.3		
Midsize	Truck SUV	1989	551	0.038	19.2	14.7	18.2	16.2	4097		255	162	12.1	0.654	0.0402	33.4		
Midsize	Truck SUV	1990	408	0.032	18.9	14.2	18.2	15.9	4127		244	162	12.2	0.691	0.0400	32.9		
Midsize	Truck SUV	1991	728	0.058	19.9	14.9	19.1	16.7	4172		236	164	12.1	0.704	0.0396	35.0		
Midsize	Truck SUV	1992	605	0.050	19.5	14.5	18.7	16.3	4182		234	171	11.8	0.738	0.0413	34.2		
Midsize	Truck SUV	1993	613	0.046	19.9	14.7	19.0	16.6	4241		236	179	11.5	0.769	0.0428	35.3		
Midsize	Truck SUV	1994	996	0.070	19.4	14.3	18.5	16.1	4271		240	183	11.4	0.770	0.0431	34.6		
Midsize	Truck SUV	1995	1202	0.079	19.5	14.2	18.5	16.1	4262		239	179	11.5	0.765	0.0425	34.6		
Midsize	Truck SUV	1996	1283	0.098	19.8	14.3	18.9	16.3	4261		252	183	11.3	0.734	0.0433	35.0		
Midsize	Truck SUV	1997	1189	0.082	20.3	14.8	19.0	16.7	4271		236	178	11.6	0.775	0.0418	35.8		
Midsize	Truck SUV	1998	1252	0.087	20.5	14.7	19.3	16.8	4219		237	180	11.4	0.781	0.0428	35.6		
Midsize	Truck SUV	1999	1344	0.088	20.7	14.9	19.1	16.9	4253		230	193	10.8	0.867	0.0456	35.9		
Midsize	Truck SUV	2000	1381	0.083	20.7	14.8	19.1	16.8	4246		230	190	10.9	0.852	0.0450	35.8		
Midsize	Truck SUV	2001	1384	0.089	21.2	15.0	19.6	17.2	4207		216	197	10.6	0.936	0.0470	36.4		
Midsize	Truck SUV	2002	1348	0.084	21.3	15.1	19.4	17.2	4171		207	202	10.3	0.993	0.0487	36.0		
Midsize	Truck SUV	2003	1643	0.104	21.9	15.2	20.1	17.6	4242		213	208	10.2	0.996	0.0490	37.4		
Midsize	Truck SUV	2004	2001	0.127	22.0	15.1	20.2	17.7	4259		221	213	10.0	0.984	0.0500	37.7		
Midsize	Truck SUV	2005	1602	0.101	22.3	15.3	20.4	17.8	4310		213	216	10.0	1.033	0.0500	38.6		
Midsize	Truck SUV	2006	1623	0.107	22.9	15.7	20.8	18.3	4379		214	216	10.0	1.027	0.0493	40.4		
Midsize	Truck SUV	2007	1539	0.101	24.0	16.5	21.5	19.1	4294		203	219	9.9	1.100	0.0509	41.3		
Midsize	Truck SUV	2008	1571	0.113	24.7	17.1	22.1	19.6	4299		198	220	9.8	1.126	0.0510	42.5		
Midsize	Truck SUV	2009	965	0.104	25.9	17.7	23.4	20.6	4183		185	217	9.8	1.182	0.0515	43.3		
Midsize	Truck SUV	2010	1309	0.118	26.8	18.4	23.9	21.2	4186		186	219	9.7	1.188	0.0520	44.6		
Midsize	Truck SUV	2011	1673	0.139	26.8	18.4	24.1	21.2	4169		185	215	9.9	1.172	0.0512	44.6		
Midsize	Truck SUV	2012	1380	0.103	27.7	18.9	24.8	21.9	4113		182	220	9.6	1.222	0.0532	45.3		
Large	Truck SUV	1975	11	0.001	12.2	10.0	10.7	10.3	4728		364	171	13.0	0.467	0.0361	24.5		
Large	Truck SUV	1976	16	0.001	12.7	10.1	11.6	10.8	4904		373	166	13.9	0.440	0.0338	26.6		
Large	Truck SUV	1977	17	0.001	13.6	11.1	12.2	11.6	4870		371	170	13.6	0.453	0.0348	28.6		
Large	Truck SUV	1978	20	0.001	13.2	10.8	11.7	11.2	4953		373	168	13.5	0.455	0.0342	27.9		
Large	Truck SUV	1979	109	0.008	11.1	9.3	9.4	9.4	5260		375	152	15.8	0.403	0.0288	24.8		
Large	Truck SUV	1980	24	0.002	14.3	11.3	13.4	12.2	5188		341	160	14.7	0.471	0.0309	31.8		
Large	Truck SUV	1981	14	0.001	15.3	12.3	14.1	13.0	5127		338	170	13.9	0.502	0.0331	33.4		
Large	Truck SUV	1982	22	0.002	18.9	14.4	18.9	16.1	5410		344	146	16.5	0.427	0.0273	45.0		

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Midsize	Truck SUV	1985		96.5%	26.8%	54.9%			5.9%	1.4%	0.9%						
Midsize	Truck SUV	1986		98.2%	35.7%	54.0%			15.6%	30.7%	1.4%						
Midsize	Truck SUV	1987		98.1%	29.6%	60.3%			34.4%	48.2%	0.2%						
Midsize	Truck SUV	1988		98.5%	22.3%	67.8%			54.8%	41.7%	0.1%						
Midsize	Truck SUV	1989		97.9%	17.4%	73.6%			52.4%	45.2%	0.1%						
Midsize	Truck SUV	1990		98.2%	20.4%	75.0%			72.3%	26.0%	0.1%						
Midsize	Truck SUV	1991		99.0%	16.9%	82.0%			65.8%	33.6%	0.0%						
Midsize	Truck SUV	1992		98.3%	16.7%	83.3%			83.1%	16.9%							
Midsize	Truck SUV	1993		98.0%	14.2%	85.8%			99.4%	0.6%							
Midsize	Truck SUV	1994		100.0%	10.7%	89.3%			99.8%	0.2%		85.5%	7.0%	7.6%			
Midsize	Truck SUV	1995		92.3%	10.2%	89.8%			100.0%			80.6%		19.4%			
Midsize	Truck SUV	1996		84.3%	5.1%	94.9%			100.0%			90.7%		9.3%			
Midsize	Truck SUV	1997		80.7%	4.8%	95.2%			100.0%			75.5%		24.5%			
Midsize	Truck SUV	1998		92.8%	4.3%	95.7%			100.0%			78.4%		21.6%			
Midsize	Truck SUV	1999		90.1%	3.1%	96.9%			100.0%			69.8%	2.6%	27.5%		5.1%	
Midsize	Truck SUV	2000		93.2%	2.7%	97.3%			100.0%			69.5%		30.5%		4.2%	
Midsize	Truck SUV	2001	11.9%	81.1%	2.6%	97.4%			100.0%			53.1%		46.9%		15.8%	
Midsize	Truck SUV	2002	4.5%	83.1%	3.9%	96.0%	0.1%		100.0%			39.2%		60.8%		28.5%	
Midsize	Truck SUV	2003	5.7%	82.1%	1.5%	97.6%	0.9%		100.0%			38.6%	0.0%	61.4%		38.4%	
Midsize	Truck SUV	2004	5.2%	82.1%	1.7%	96.2%	2.1%		100.0%			43.0%		57.0%		40.7%	
Midsize	Truck SUV	2005	5.5%	83.6%	1.6%	97.9%	0.5%		99.5%		0.5%	30.8%		69.2%		49.8%	0.4%
Midsize	Truck SUV	2006	8.9%	78.9%	1.4%	92.9%	5.7%		99.6%		0.4%	32.1%	1.9%	66.0%		55.8%	5.7%
Midsize	Truck SUV	2007	10.1%	81.8%	2.1%	89.6%	8.3%		99.8%		0.2%	21.3%		78.7%		68.3%	3.0%
Midsize	Truck SUV	2008	10.9%	82.6%	1.1%	86.4%	12.5%	0.8%	99.0%		0.1%	17.5%		82.5%		67.5%	4.1%
Midsize	Truck SUV	2009	13.8%	83.4%	1.5%	87.4%	11.1%	2.5%	97.5%			9.8%		90.2%		74.0%	2.0%
Midsize	Truck SUV	2010	8.7%	87.6%	1.6%	81.5%	15.6%	2.7%	97.3%			9.1%		90.9%		91.0%	2.4%
Midsize	Truck SUV	2011	9.5%	87.4%	2.2%	79.2%	18.6%	2.8%	97.2%			11.2%		88.8%		87.7%	0.9%
Midsize	Truck SUV	2012	10.9%	86.7%	3.2%	77.4%	19.4%	5.2%	94.8%			5.9%		94.1%		94.1%	1.8%
Large	Truck SUV	1975		13.5%	13.4%												
Large	Truck SUV	1976		22.8%	14.6%												
Large	Truck SUV	1977		18.4%	13.9%												
Large	Truck SUV	1978		26.9%	19.3%												
Large	Truck SUV	1979		16.1%	15.3%						0.7%						
Large	Truck SUV	1980		30.0%	17.8%	78.6%					5.9%						
Large	Truck SUV	1981		25.4%	3.1%	96.9%											
Large	Truck SUV	1982		28.7%	1.1%	98.9%					53.2%						

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Large	Truck SUV	1983	31	0.003	17.6	13.6	17.1	15.0	5327		355	153	15.8	0.435	0.0290	41.5		
Large	Truck SUV	1984	49	0.003	16.9	13.0	16.5	14.4	5247		351	157	15.1	0.450	0.0302	38.6		
Large	Truck SUV	1985	57	0.004	16.9	12.9	16.8	14.4	5248		350	161	14.9	0.460	0.0308	38.4		
Large	Truck SUV	1986	58	0.004	16.8	12.8	16.7	14.3	5227		350	162	14.7	0.464	0.0311	37.9		
Large	Truck SUV	1987	57	0.004	17.0	12.9	16.6	14.4	5501		350	205	12.7	0.587	0.0373	39.8		
Large	Truck SUV	1988	69	0.005	16.6	12.6	16.2	14.0	5518		351	199	13.0	0.568	0.0361	38.9		
Large	Truck SUV	1989	74	0.005	16.7	12.4	16.6	14.1	5716		351	208	12.9	0.594	0.0365	40.5		
Large	Truck SUV	1990	72	0.006	16.7	12.4	16.6	14.1	5720		351	208	12.9	0.595	0.0365	40.4		
Large	Truck SUV	1991	54	0.004	16.2	12.1	15.7	13.6	5571		328	197	13.3	0.603	0.0353	38.1		
Large	Truck SUV	1992	75	0.006	15.7	11.6	15.2	13.1	5578		331	204	12.9	0.629	0.0365	36.7		
Large	Truck SUV	1993	129	0.010	16.3	12.1	15.7	13.7	5652		345	210	12.6	0.612	0.0373	38.6		
Large	Truck SUV	1994	170	0.012	16.4	12.2	15.5	13.6	5628		343	210	12.6	0.616	0.0374	38.4		
Large	Truck SUV	1995	230	0.015	16.6	12.2	15.7	13.8	5576		347	206	12.7	0.594	0.0370	38.4		
Large	Truck SUV	1996	241	0.018	17.3	12.6	16.5	14.3	5534		344	247	10.9	0.719	0.0447	39.6		
Large	Truck SUV	1997	560	0.039	17.5	12.6	16.8	14.5	5349		328	234	11.1	0.714	0.0438	38.8		
Large	Truck SUV	1998	642	0.044	17.4	12.4	16.7	14.3	5243		313	227	11.2	0.736	0.0434	37.6		
Large	Truck SUV	1999	749	0.049	17.2	12.2	16.6	14.2	5298		324	240	10.8	0.743	0.0455	37.6		
Large	Truck SUV	2000	876	0.053	17.6	12.5	16.6	14.4	5401		312	247	10.7	0.798	0.0459	39.0		
Large	Truck SUV	2001	1071	0.069	18.5	13.1	17.0	15.0	5206		285	246	10.4	0.882	0.0474	39.1		
Large	Truck SUV	2002	1996	0.124	19.0	13.3	17.9	15.5	5070		279	254	10.0	0.919	0.0503	39.2		
Large	Truck SUV	2003	1722	0.109	18.7	13.0	17.5	15.2	5377		290	266	10.1	0.935	0.0499	40.8		
Large	Truck SUV	2004	1862	0.119	18.7	12.9	17.5	15.2	5409		293	277	9.8	0.961	0.0515	41.0		
Large	Truck SUV	2005	1496	0.094	19.2	13.2	17.9	15.5	5363		285	282	9.6	1.006	0.0528	41.7		
Large	Truck SUV	2006	1250	0.083	19.7	13.5	18.4	15.9	5252		270	275	9.6	1.038	0.0526	41.8		
Large	Truck SUV	2007	1632	0.107	20.5	13.9	19.4	16.5	5337		279	288	9.4	1.051	0.0541	44.2		
Large	Truck SUV	2008	1350	0.097	20.7	14.0	19.7	16.8	5291		268	291	9.3	1.104	0.0551	44.5		
Large	Truck SUV	2009	691	0.074	22.3	15.0	21.0	17.9	5073		246	285	9.1	1.178	0.0563	45.6		
Large	Truck SUV	2010	898	0.081	22.4	15.1	21.2	18.1	5122		249	283	9.2	1.159	0.0554	46.4		
Large	Truck SUV	2011	1396	0.116	22.9	15.4	21.6	18.4	5260		256	308	8.7	1.241	0.0588	48.4		
Large	Truck SUV	2012	1417	0.106	23.4	15.7	22.0	18.8	5077		247	301	8.7	1.251	0.0595	47.8		
Small	Pickup	1975	160	0.016	22.5	17.3	22.2	19.2	2756		118	96	13.3	0.814	0.0347	26.6		
Small	Pickup	1976	173	0.014	23.8	18.3	23.4	20.3	2775		119	98	13.2	0.828	0.0353	28.3		
Small	Pickup	1977	238	0.017	25.5	19.9	24.5	21.7	2768		121	97	13.2	0.807	0.0349	30.2		
Small	Pickup	1978	264	0.018	25.6	20.4	23.6	21.7	2800		120	92	13.8	0.774	0.0331	30.5		
Small	Pickup	1979	358	0.026	22.8	17.9	21.6	19.4	2793		120	86	14.5	0.715	0.0308	27.5		
Small	Pickup	1980	452	0.040	24.3	19.4	22.5	20.7	2790		122	88	14.2	0.724	0.0317	29.3		

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Large	Truck SUV	1983		30.5%	0.9%	99.1%					35.0%						
Large	Truck SUV	1984		30.2%	1.0%	99.0%					19.3%						
Large	Truck SUV	1985		31.3%	0.9%	99.1%					11.5%						
Large	Truck SUV	1986		32.8%	0.6%	99.4%					8.3%						
Large	Truck SUV	1987		36.2%	0.6%	99.4%				95.6%	4.4%						
Large	Truck SUV	1988		41.0%	0.5%	99.5%				96.9%	3.1%						
Large	Truck SUV	1989		43.4%	0.5%	99.5%				97.6%	2.4%						
Large	Truck SUV	1990		42.8%	0.3%	99.7%				97.8%	2.2%						
Large	Truck SUV	1991		54.1%		100.0%			21.2%	76.3%	2.5%						
Large	Truck SUV	1992		67.5%	0.6%	99.4%			11.2%	88.8%							
Large	Truck SUV	1993		64.6%	0.5%	99.5%			6.8%	93.2%							
Large	Truck SUV	1994		67.0%	0.4%	99.6%			10.3%	89.7%		90.5%		9.5%			
Large	Truck SUV	1995		71.9%	0.2%	99.8%			4.1%	95.9%		96.1%		3.9%			
Large	Truck SUV	1996		75.7%		100.0%			99.9%		0.1%	92.3%		7.7%			
Large	Truck SUV	1997		73.4%		100.0%			100.0%		0.0%	95.6%		4.4%			
Large	Truck SUV	1998		68.4%		100.0%			100.0%		0.0%	91.4%	6.2%	2.4%			
Large	Truck SUV	1999		53.4%		100.0%			100.0%			90.1%	2.2%	7.7%			
Large	Truck SUV	2000		63.2%		100.0%			100.0%			91.9%	4.1%	4.0%		0.6%	
Large	Truck SUV	2001	3.3%	65.7%	0.4%	99.6%			100.0%			73.3%	3.8%	22.9%		11.6%	
Large	Truck SUV	2002		65.8%	0.1%	99.9%			100.0%			68.7%	2.2%	29.1%		23.5%	
Large	Truck SUV	2003	0.0%	62.6%	0.0%	98.1%	1.8%		100.0%			58.4%	2.0%	39.6%		30.5%	
Large	Truck SUV	2004	0.5%	64.3%	0.0%	100.0%			100.0%		0.0%	51.7%	1.1%	46.3%	1.0%	38.3%	
Large	Truck SUV	2005	0.6%	68.0%	0.0%	97.3%	2.7%		100.0%			40.4%	9.2%	49.8%	0.5%	53.2%	
Large	Truck SUV	2006	0.8%	72.5%	0.3%	96.0%	3.8%		99.9%		0.1%	25.0%	13.4%	61.2%	0.3%	72.1%	
Large	Truck SUV	2007	3.6%	67.7%	0.1%	96.0%	3.9%		99.6%		0.4%	51.5%	3.9%	44.7%		45.8%	
Large	Truck SUV	2008	10.3%	65.4%	0.1%	99.3%	0.6%	3.5%	95.6%		0.9%	34.8%	3.9%	61.3%		59.0%	0.6%
Large	Truck SUV	2009	24.0%	61.5%	0.1%	89.0%	10.9%	15.3%	83.5%		1.2%	22.0%	1.7%	76.3%		67.9%	1.2%
Large	Truck SUV	2010	23.7%	61.2%	0.0%	95.6%	4.4%	27.3%	71.0%		1.6%	20.1%	5.1%	74.9%		80.5%	0.2%
Large	Truck SUV	2011	18.9%	65.3%	0.0%	97.2%	2.8%	29.7%	68.5%		1.9%	22.6%	3.8%	73.6%		98.6%	0.3%
Large	Truck SUV	2012	19.7%	66.5%	0.8%	95.7%	3.5%	26.3%	72.1%		1.6%	20.1%	3.9%	76.0%		98.8%	1.5%
Small	Pickup	1975			88.4%												
Small	Pickup	1976			80.1%												
Small	Pickup	1977			79.6%												
Small	Pickup	1978		8.8%	88.5%												
Small	Pickup	1979		26.3%	90.3%												
Small	Pickup	1980	5.8%	24.5%	91.2%					3.3%	2.5%						

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Small	Pickup	1981	369	0.035	28.2	22.5	26.0	23.9	2819		130	85	15.0	0.655	0.0302	34.4		
Small	Pickup	1982	346	0.036	27.3	21.9	25.1	23.2	2899		137	89	14.8	0.651	0.0309	34.4		
Small	Pickup	1983	312	0.030	26.9	21.6	24.8	22.9	2976		142	96	14.0	0.679	0.0324	34.5		
Small	Pickup	1984	423	0.030	26.1	20.9	24.0	22.2	3035		142	97	14.1	0.684	0.0321	34.1		
Small	Pickup	1985	497	0.034	26.7	21.4	24.5	22.7	3099		143	103	13.6	0.718	0.0334	35.4		
Small	Pickup	1986	744	0.048	25.9	20.5	24.0	22.0	3142		145	105	13.5	0.726	0.0338	34.7		
Small	Pickup	1987	441	0.030	26.0	20.3	24.1	21.9	3135		147	107	13.3	0.732	0.0345	34.5		
Small	Pickup	1988	340	0.022	25.0	19.6	22.8	21.0	3200		148	113	13.0	0.758	0.0354	33.7		
Small	Pickup	1989	355	0.025	23.9	18.6	21.8	20.0	3328		153	119	12.9	0.774	0.0360	33.5		
Small	Pickup	1990	289	0.023	24.8	19.2	22.6	20.7	3293		153	129	12.0	0.844	0.0396	34.4		
Small	Pickup	1991	309	0.025	25.0	19.2	22.8	20.8	3324		152	128	12.1	0.845	0.0389	34.8		
Small	Pickup	1992	252	0.021	24.6	18.7	22.4	20.4	3321		152	126	12.3	0.828	0.0383	34.1		
Small	Pickup	1993	263	0.020	26.3	19.8	23.8	21.6	3232		147	123	12.3	0.835	0.0383	35.2		
Small	Pickup	1994	358	0.025	24.9	18.7	22.6	20.5	3355		151	125	12.4	0.829	0.0377	34.5		
Small	Pickup	1995	298	0.020	24.4	18.3	22.0	20.0	3385		157	138	11.6	0.879	0.0411	34.0		
Small	Pickup	1996	221	0.017	24.6	18.3	22.0	20.1	3362		159	147	11.0	0.926	0.0439	33.8		
Small	Pickup	1997	131	0.009	24.9	18.5	22.1	20.2	3350		146	134	11.7	0.918	0.0405	33.8		
Small	Pickup	1998	260	0.018	24.5	18.0	21.8	19.8	3462		160	151	11.0	0.947	0.0439	34.4		
Small	Pickup	1999	213	0.014	23.2	17.0	20.5	18.7	3600		173	160	10.9	0.928	0.0445	33.8		
Small	Pickup	2000	101	0.006	26.3	19.1	23.0	21.0	3307		148	143	11.1	0.966	0.0435	34.8		
Small	Pickup	2001	81	0.005	26.5	19.2	22.9	21.1	3357		147	143	11.3	0.967	0.0427	35.4		
Small	Pickup	2002	197	0.012	23.2	16.8	20.0	18.5	3735		177	164	11.0	0.934	0.0440	34.6		
Small	Pickup	2003	194	0.012	23.2	16.6	20.4	18.5	3769		178	167	11.0	0.945	0.0443	35.0		
Small	Pickup	2004	162	0.010	22.6	16.0	19.7	17.9	3796		184	171	10.8	0.933	0.0452	34.1		
Small	Pickup	2005	8	0.001	25.8	17.6	23.5	20.5	4000		150	184	10.7	1.229	0.0461	41.3		
Small	Pickup	2006	7	0.000	26.9	18.3	24.3	21.3	3921		150	178	10.8	1.187	0.0455	42.0		
Small	Pickup	2007																
Small	Pickup	2008																
Small	Pickup	2009																
Small	Pickup	2010																
Small	Pickup	2011																
Small	Pickup	2012																
Midsize	Pickup	1975	56	0.005	21.1	16.8	19.6	17.9	3000		109	67	18.6	0.615	0.0223	26.9		
Midsize	Pickup	1976	55	0.004	22.9	18.1	21.6	19.5	3000		109	65	18.9	0.596	0.0217	29.7		
Midsize	Pickup	1977	69	0.005	29.6	23.3	28.1	25.2	3000		124	72	17.5	0.581	0.0240	38.0		
Midsize	Pickup	1978	75	0.005	29.3	23.4	27.1	24.9	3000		124	72	17.6	0.581	0.0239	37.7		

2012 FE Trends Report
Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Small	Pickup	1981	9.1%	31.6%	94.8%	0.1%				2.5%	22.0%						
Small	Pickup	1982	9.3%	30.7%	92.3%	0.3%				1.0%	19.7%						
Small	Pickup	1983	9.8%	30.9%	90.4%	1.6%				0.4%	6.0%						
Small	Pickup	1984	2.9%	32.5%	88.7%	3.2%			4.6%		4.6%						
Small	Pickup	1985		31.7%	85.0%	6.9%			13.8%		1.9%						
Small	Pickup	1986		29.9%	85.1%	7.9%			10.5%	28.1%	1.0%						
Small	Pickup	1987		29.6%	81.3%	9.9%			9.0%	39.2%							
Small	Pickup	1988		38.4%	83.2%	8.5%			40.4%	31.4%							
Small	Pickup	1989		38.0%	79.9%	14.1%			51.1%	34.9%							
Small	Pickup	1990		31.5%	81.5%	14.3%			88.4%								
Small	Pickup	1991		34.7%	79.6%	14.9%			100.0%								
Small	Pickup	1992		36.8%	80.8%	13.3%			100.0%								
Small	Pickup	1993		27.1%	81.8%	12.2%			100.0%								
Small	Pickup	1994		39.5%	81.4%	11.5%			100.0%			87.3%	12.7%				
Small	Pickup	1995		37.8%	73.2%	20.0%			100.0%			69.9%		30.1%			
Small	Pickup	1996		36.6%	69.2%	18.7%			100.0%				40.2%	59.8%			
Small	Pickup	1997		20.8%	79.6%	20.4%			100.0%				100.0%				
Small	Pickup	1998		39.7%	62.9%	22.9%			100.0%					100.0%			
Small	Pickup	1999		45.3%	46.4%	42.4%			100.0%			7.9%		92.1%			
Small	Pickup	2000		0.7%	48.5%	30.9%			100.0%					100.0%			
Small	Pickup	2001			49.2%	24.6%			100.0%					100.0%			
Small	Pickup	2002		32.9%	30.5%	58.9%			100.0%					100.0%			
Small	Pickup	2003		39.3%	28.7%	59.9%			100.0%					100.0%			
Small	Pickup	2004		40.5%	24.7%	60.7%			100.0%					100.0%			
Small	Pickup	2005		100.0%	20.6%	79.4%			100.0%					100.0%			
Small	Pickup	2006		100.0%	21.4%	78.6%			100.0%					100.0%			
Small	Pickup	2007															
Small	Pickup	2008															
Small	Pickup	2009															
Small	Pickup	2010															
Small	Pickup	2011															
Small	Pickup	2012															
Midsized	Pickup	1975			68.8%												
Midsized	Pickup	1976			85.5%												
Midsized	Pickup	1977			91.8%												
Midsized	Pickup	1978			86.9%												

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Midsize	Pickup	1979	101	0.007	25.9	20.6	24.1	22.0	2971		131	80	16.2	0.609	0.0270	33.3		
Midsize	Pickup	1980	98	0.009	25.9	20.5	24.1	22.0	2944		133	82	15.7	0.621	0.0282	32.9		
Midsize	Pickup	1981	131	0.012	26.4	20.8	24.8	22.5	2909		131	84	15.2	0.641	0.0290	33.2		
Midsize	Pickup	1982	315	0.032	26.7	20.8	25.7	22.7	2936		152	98	13.8	0.648	0.0333	33.6		
Midsize	Pickup	1983	621	0.060	26.5	20.7	25.4	22.6	3016		146	91	14.8	0.626	0.0303	34.3		
Midsize	Pickup	1984	703	0.050	25.7	19.9	24.8	21.9	3093		148	92	14.9	0.626	0.0299	34.1		
Midsize	Pickup	1985	617	0.043	25.7	19.9	25.1	21.9	3064		154	98	14.2	0.637	0.0319	33.9		
Midsize	Pickup	1986	788	0.051	26.1	20.2	24.9	22.1	3081		147	102	14.0	0.687	0.0329	34.3		
Midsize	Pickup	1987	1052	0.071	25.4	19.5	24.3	21.5	3163		159	106	13.8	0.672	0.0334	34.2		
Midsize	Pickup	1988	1055	0.069	25.3	19.3	24.1	21.3	3205		166	110	13.6	0.670	0.0343	34.4		
Midsize	Pickup	1989	887	0.061	24.8	18.9	23.5	20.8	3278		177	116	13.2	0.671	0.0353	34.4		
Midsize	Pickup	1990	600	0.048	24.7	18.7	23.3	20.7	3338		175	120	13.0	0.697	0.0358	34.7		
Midsize	Pickup	1991	873	0.069	24.6	18.4	23.4	20.5	3352		190	126	12.7	0.674	0.0372	34.6		
Midsize	Pickup	1992	716	0.059	23.8	17.6	22.8	19.8	3493		195	131	12.7	0.685	0.0373	34.9		
Midsize	Pickup	1993	743	0.056	23.7	17.4	22.6	19.7	3521		198	135	12.5	0.694	0.0383	34.9		
Midsize	Pickup	1994	1040	0.074	24.0	17.7	22.6	19.9	3618		197	145	12.1	0.744	0.0398	36.3		
Midsize	Pickup	1995	700	0.046	24.7	18.0	23.3	20.4	3631		190	141	12.3	0.768	0.0387	37.5		
Midsize	Pickup	1996	698	0.053	24.8	17.9	23.4	20.4	3668		187	141	12.4	0.775	0.0381	37.8		
Midsize	Pickup	1997	690	0.048	24.2	17.4	22.7	19.8	3728		196	147	12.3	0.769	0.0390	37.5		
Midsize	Pickup	1998	829	0.057	23.9	17.1	22.4	19.5	3714		192	146	12.2	0.780	0.0390	36.8		
Midsize	Pickup	1999	761	0.050	22.5	16.0	21.0	18.4	3761		200	149	12.1	0.762	0.0393	35.0		
Midsize	Pickup	2000	766	0.046	22.8	16.2	21.2	18.6	3740		192	148	12.2	0.788	0.0395	35.0		
Midsize	Pickup	2001	545	0.035	21.8	15.4	20.2	17.7	3835		207	165	11.5	0.804	0.0427	34.1		
Midsize	Pickup	2002	466	0.029	21.1	14.8	19.4	17.0	4019		226	180	11.0	0.808	0.0447	34.5		
Midsize	Pickup	2003	527	0.033	22.8	15.9	21.0	18.4	3850		197	157	11.9	0.818	0.0407	35.6		
Midsize	Pickup	2004	378	0.024	21.8	15.1	20.0	17.5	4070		219	192	10.6	0.884	0.0470	35.8		
Midsize	Pickup	2005	216	0.014	23.6	16.2	21.5	18.8	3789		192	178	10.6	0.934	0.0469	35.9		
Midsize	Pickup	2006	274	0.018	24.1	16.5	21.8	19.2	3820		197	188	10.3	0.959	0.0491	36.8		
Midsize	Pickup	2007	264	0.017	23.5	16.2	21.1	18.7	3926		202	193	10.3	0.958	0.0490	36.9		
Midsize	Pickup	2008	277	0.020	24.0	16.6	21.4	19.0	3902		201	192	10.3	0.961	0.0490	37.3		
Midsize	Pickup	2009	184	0.020	24.6	17.1	21.9	19.5	3985		202	198	10.2	0.983	0.0493	39.0		
Midsize	Pickup	2010	153	0.014	24.9	17.2	22.1	19.7	4006		199	197	10.3	0.991	0.0487	39.5		
Midsize	Pickup	2011	21	0.002	27.1	18.6	24.2	21.4	3676		171	171	10.6	0.997	0.0469	39.4		
Midsize	Pickup	2012	31	0.002	27.0	18.3	23.8	21.1	3755		174	177	10.5	1.012	0.0471	39.6		
Large	Pickup	1975	1126	0.110	13.1	10.4	12.2	11.1	4241		343	151	13.3	0.438	0.0358	24.1		
Large	Pickup	1976	1639	0.133	13.9	11.2	12.7	11.8	4301		344	146	13.8	0.423	0.0341	25.9		

2012 FE Trends Report
Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Midsize	Pickup	1979			80.2%												
Midsize	Pickup	1980			83.7%												
Midsize	Pickup	1981			88.1%												
Midsize	Pickup	1982		4.1%	68.7%	28.8%					2.1%						
Midsize	Pickup	1983		17.3%	72.6%	14.2%					3.5%						
Midsize	Pickup	1984		19.6%	71.1%	16.8%					2.0%						
Midsize	Pickup	1985		19.8%	65.1%	32.7%			13.2%	14.2%	0.7%						
Midsize	Pickup	1986		16.8%	73.0%	23.7%			30.7%	26.7%	0.2%						
Midsize	Pickup	1987		20.5%	67.2%	28.9%			24.4%	26.5%	0.3%						
Midsize	Pickup	1988		19.8%	65.0%	32.6%			32.7%	39.2%							
Midsize	Pickup	1989		18.7%	62.9%	35.6%			33.8%	46.7%							
Midsize	Pickup	1990		16.7%	61.6%	38.4%			59.3%	27.9%							
Midsize	Pickup	1991		14.8%	63.5%	36.5%			36.6%	56.4%							
Midsize	Pickup	1992		15.5%	59.9%	40.1%			59.0%	32.7%							
Midsize	Pickup	1993		18.0%	59.4%	40.6%			65.5%	28.9%							
Midsize	Pickup	1994		16.9%	55.3%	44.7%			86.1%	11.9%		100.0%					
Midsize	Pickup	1995		15.6%	59.8%	40.2%			82.8%	17.2%		100.0%					
Midsize	Pickup	1996		14.3%	52.9%	47.1%			100.0%			99.9%		0.1%			
Midsize	Pickup	1997		17.4%	48.9%	51.1%			100.0%			100.0%					
Midsize	Pickup	1998		19.9%	44.1%	55.9%			100.0%			100.0%					
Midsize	Pickup	1999		28.2%	32.7%	67.3%			100.0%			100.0%					
Midsize	Pickup	2000		28.8%	27.5%	72.5%			100.0%			99.4%		0.6%			
Midsize	Pickup	2001		30.5%	21.8%	78.2%			100.0%			95.2%		4.8%			
Midsize	Pickup	2002		41.8%	15.8%	84.2%			100.0%			88.5%		11.5%			
Midsize	Pickup	2003		28.5%	21.3%	78.7%			100.0%			90.5%		9.5%			
Midsize	Pickup	2004		42.1%	17.1%	82.9%			100.0%			73.5%		26.5%		17.7%	
Midsize	Pickup	2005		29.3%	22.7%	77.3%			100.0%			39.4%		60.6%		49.4%	
Midsize	Pickup	2006		14.8%	19.7%	80.3%			100.0%			22.6%		77.4%		67.9%	
Midsize	Pickup	2007		28.8%	15.8%	84.2%			100.0%			24.1%		75.9%		45.2%	
Midsize	Pickup	2008		32.5%	16.4%	83.6%			100.0%			22.2%		77.8%		48.8%	
Midsize	Pickup	2009		39.0%	19.5%	80.5%			100.0%			9.3%		90.7%		50.1%	
Midsize	Pickup	2010		39.2%	16.8%	83.2%			100.0%					100.0%		76.8%	
Midsize	Pickup	2011		34.2%	12.6%	87.4%			100.0%					100.0%		100.0%	
Midsize	Pickup	2012		27.8%	35.6%	64.4%			100.0%					100.0%		100.0%	
Large	Pickup	1975		16.1%	33.0%												
Large	Pickup	1976		23.8%	32.9%												

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab	Adj	Adj	Adj			CID	HP						
					55/45	City	Hwy	Comp										
Large	Pickup	1977	1719	0.122	14.9	12.1	13.4	12.7	4319		347	156	13.1	0.449	0.0363	27.8		
Large	Pickup	1978	1928	0.133	14.7	12.0	13.1	12.4	4326		339	154	13.2	0.454	0.0357	27.4		
Large	Pickup	1979	1748	0.126	14.3	11.8	12.6	12.1	4486		330	149	14.1	0.452	0.0334	27.8		
Large	Pickup	1980	887	0.078	17.2	13.7	15.8	14.6	4312		305	137	14.3	0.452	0.0318	32.0		
Large	Pickup	1981	940	0.089	18.6	14.8	17.3	15.9	4124		293	132	14.2	0.452	0.0320	33.0		
Large	Pickup	1982	780	0.080	18.6	14.8	17.3	15.9	4233		299	136	14.2	0.457	0.0323	34.1		
Large	Pickup	1983	695	0.067	18.1	14.3	16.9	15.4	4270		302	139	14.2	0.461	0.0325	33.5		
Large	Pickup	1984	917	0.065	17.8	14.0	16.7	15.1	4291		301	139	14.3	0.459	0.0323	32.9		
Large	Pickup	1985	965	0.067	17.7	14.0	16.5	15.0	4292		305	149	13.4	0.490	0.0348	32.7		
Large	Pickup	1986	1001	0.065	18.2	14.4	17.0	15.5	4284		298	146	13.6	0.495	0.0341	33.3		
Large	Pickup	1987	654	0.044	17.7	13.9	16.5	15.0	4375		309	162	12.8	0.523	0.0370	32.9		
Large	Pickup	1988	1064	0.070	18.0	13.9	17.2	15.2	4436		318	173	12.2	0.542	0.0390	33.9		
Large	Pickup	1989	990	0.068	18.1	13.8	17.2	15.2	4444		318	175	12.2	0.548	0.0395	34.0		
Large	Pickup	1990	945	0.075	18.0	13.6	17.4	15.2	4497		320	178	12.1	0.555	0.0398	34.3		
Large	Pickup	1991	738	0.059	18.2	13.6	17.6	15.3	4476		315	178	12.1	0.562	0.0397	34.4		
Large	Pickup	1992	872	0.072	18.3	13.6	17.8	15.4	4562		312	174	12.5	0.556	0.0382	35.2		
Large	Pickup	1993	996	0.075	18.7	13.7	18.0	15.6	4552		303	180	12.1	0.600	0.0396	35.6		
Large	Pickup	1994	1271	0.090	18.4	13.5	17.6	15.3	4612		316	189	11.7	0.601	0.0411	35.3		
Large	Pickup	1995	1273	0.084	18.0	13.1	17.2	14.9	4672		317	188	11.9	0.598	0.0403	35.0		
Large	Pickup	1996	1036	0.079	18.2	13.2	17.4	15.1	4718		315	210	11.1	0.671	0.0446	35.7		
Large	Pickup	1997	1587	0.110	18.9	13.6	18.1	15.6	4801		303	222	10.6	0.737	0.0464	37.5		
Large	Pickup	1998	1325	0.092	18.6	13.2	17.8	15.3	4799		308	225	10.5	0.735	0.0470	36.8		
Large	Pickup	1999	1571	0.103	18.5	13.2	17.5	15.2	4958		313	238	10.3	0.762	0.0483	37.6		
Large	Pickup	2000	1745	0.105	19.3	13.8	17.9	15.8	4663		289	230	10.2	0.800	0.0492	36.7		
Large	Pickup	2001	1892	0.121	18.9	13.4	17.5	15.4	4809		292	234	10.3	0.807	0.0485	37.0		
Large	Pickup	2002	1717	0.107	18.7	13.2	17.2	15.2	4982		294	246	10.1	0.836	0.0493	37.8		
Large	Pickup	2003	1752	0.111	18.9	13.3	17.3	15.3	4977		294	249	10.1	0.845	0.0499	38.0		
Large	Pickup	2004	1966	0.125	19.0	13.3	17.3	15.3	5200		302	266	9.9	0.881	0.0511	39.7		
Large	Pickup	2005	2076	0.131	19.4	13.4	17.8	15.6	5117		294	269	9.7	0.914	0.0526	39.8		
Large	Pickup	2006	1906	0.126	19.6	13.6	18.0	15.8	5137		290	266	9.8	0.919	0.0517	40.4		
Large	Pickup	2007	1850	0.121	19.7	13.6	18.2	15.9	5318		298	279	9.7	0.935	0.0524	42.2		
Large	Pickup	2008	1517	0.109	20.0	13.7	18.5	16.1	5391		302	292	9.6	0.962	0.0538	43.5		
Large	Pickup	2009	805	0.086	20.3	13.9	19.0	16.4	5449		306	296	9.4	0.968	0.0543	44.7		
Large	Pickup	2010	1123	0.101	20.5	14.0	19.1	16.5	5486		305	301	9.3	0.987	0.0549	45.4		
Large	Pickup	2011	1458	0.121	21.3	14.5	19.8	17.1	5291		284	306	9.0	1.087	0.0573	45.4		
Large	Pickup	2012	1305	0.098	21.4	14.6	19.9	17.2	5338		288	315	8.9	1.111	0.0588	46.0		

2012 FE Trends Report

Appendix E: Fuel Economy Data Stratified by Vehicle Type and Size

Vehicle Size	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Large	Pickup	1977		25.2%	27.7%												
Large	Pickup	1978		30.5%	28.5%						1.4%						
Large	Pickup	1979		10.5%	27.3%	1.7%					3.1%						
Large	Pickup	1980		21.6%	39.5%	35.5%					5.5%						
Large	Pickup	1981		13.4%	38.9%	42.1%					2.3%						
Large	Pickup	1982		17.3%	30.9%	42.8%					9.4%						
Large	Pickup	1983		22.3%	26.4%	52.2%					4.5%						
Large	Pickup	1984		25.1%	26.7%	50.9%					2.4%						
Large	Pickup	1985		25.8%	25.7%	48.1%			9.1%	0.7%	1.2%						
Large	Pickup	1986		28.3%	27.0%	52.5%			21.7%	2.6%	0.7%						
Large	Pickup	1987	0.0%	30.8%	29.1%	41.6%			43.1%	36.0%	0.4%						
Large	Pickup	1988	0.0%	33.8%	26.8%	54.5%			36.5%	62.6%	0.5%						
Large	Pickup	1989		34.8%	33.2%	56.6%			38.8%	60.8%	0.4%						
Large	Pickup	1990		33.9%	24.9%	68.0%			37.0%	62.6%	0.4%						
Large	Pickup	1991		32.5%	27.3%	71.3%			39.5%	60.1%	0.4%						
Large	Pickup	1992		32.1%	26.8%	73.1%			45.0%	54.7%	0.3%						
Large	Pickup	1993	0.0%	35.0%	22.4%	77.6%			47.9%	52.1%							
Large	Pickup	1994		36.6%	16.0%	84.0%			47.3%	52.7%		98.9%	0.9%	0.1%			
Large	Pickup	1995		41.5%	20.7%	79.3%			55.1%	44.9%		97.2%		2.8%			
Large	Pickup	1996		37.9%	15.0%	85.0%			99.7%		0.3%	96.3%		3.7%			
Large	Pickup	1997		43.3%	10.5%	89.5%			99.9%		0.1%	98.1%		1.9%			
Large	Pickup	1998		43.2%	9.8%	90.2%			99.9%		0.1%	99.2%		0.8%			
Large	Pickup	1999		53.6%	6.3%	93.7%			100.0%		0.0%	100.0%					
Large	Pickup	2000		44.8%	10.1%	89.9%			100.0%			87.0%		13.0%			
Large	Pickup	2001		42.7%	7.6%	92.4%			100.0%			88.7%		11.3%			
Large	Pickup	2002		43.6%	5.4%	94.6%			100.0%			89.9%		10.1%			
Large	Pickup	2003		42.8%	5.0%	95.0%			100.0%			93.5%		6.5%			
Large	Pickup	2004		47.6%	3.6%	96.4%			100.0%			72.0%	18.2%	9.8%		20.6%	0.0%
Large	Pickup	2005		48.3%	3.9%	96.1%			100.0%			61.4%	15.5%	23.0%		38.2%	0.1%
Large	Pickup	2006		50.1%	4.2%	95.8%			100.0%			55.2%	17.1%	27.7%		44.8%	0.1%
Large	Pickup	2007		47.8%	2.8%	97.2%			100.0%			65.1%	14.3%	20.6%		39.2%	0.0%
Large	Pickup	2008		50.2%	1.8%	98.2%			100.0%			65.4%	13.0%	21.5%		35.8%	
Large	Pickup	2009		53.3%	0.6%	99.1%	0.3%		100.0%			68.7%	20.2%	11.2%		33.8%	0.3%
Large	Pickup	2010		59.4%	0.5%	99.4%	0.1%		100.0%			45.6%	33.8%	20.6%		60.3%	0.1%
Large	Pickup	2011		60.7%	1.9%	98.0%	0.1%	7.8%	92.2%			50.7%		49.3%		85.9%	0.1%
Large	Pickup	2012		54.1%	1.9%	97.8%	0.2%	9.9%	90.1%			45.7%		54.3%		91.7%	0.2%

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix F Car Fuel Economy Data Stratified by EPA Car Class

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Two-seater	1975	244	0.030	19.7	15.1	19.5	16.8	3016		173	125	12.6	0.764	0.0406	25.2		
Two-seater	1976	203	0.021	19.4	14.9	19.2	16.5	3032		187	136	12.1	0.752	0.0429	25.1		
Two-seater	1977	221	0.020	20.0	15.5	19.5	17.1	3062	50.0	183	134	12.4	0.755	0.0421	26.2	880	1308
Two-seater	1978	191	0.017	19.4	15.0	19.1	16.6	3079	50.0	187	143	11.8	0.795	0.0446	25.5	855	1276
Two-seater	1979	256	0.024	20.1	15.3	20.0	17.1	3026	50.0	180	128	12.2	0.735	0.0411	26.1	887	1305
Two-seater	1980	200	0.021	20.6	15.6	20.8	17.6	2954	50.0	180	121	12.3	0.702	0.0400	26.3	904	1315
Two-seater	1981	162	0.019	21.9	17.1	21.1	18.7	3005	50.0	202	142	10.6	0.758	0.0469	28.3	959	1415
Two-seater	1982	263	0.034	25.7	19.7	25.5	21.9	2726	50.0	147	106	13.0	0.734	0.0377	30.5	1141	1523
Two-seater	1983	137	0.017	23.9	18.4	23.4	20.3	2756	50.0	146	115	11.8	0.778	0.0411	28.3	1038	1416
Two-seater	1984	348	0.032	26.7	20.3	27.0	22.8	2886	50.0	174	121	12.1	0.717	0.0410	33.9	1215	1694
Two-seater	1985	335	0.031	26.9	20.5	26.9	23.0	2826	50.1	158	123	11.6	0.806	0.0425	33.4	1234	1672
Two-seater	1986	304	0.027	28.1	21.3	28.2	24.0	2916	50.0	166	130	11.7	0.818	0.0430	35.7	1278	1784
Two-seater	1987	282	0.026	27.5	20.5	27.7	23.3	2920	50.0	167	134	11.5	0.830	0.0442	35.2	1260	1758
Two-seater	1988	203	0.019	27.4	20.3	27.5	23.2	2940	50.0	171	138	11.2	0.845	0.0455	35.3	1269	1765
Two-seater	1989	113	0.011	26.9	19.9	26.9	22.7	3031	50.0	199	160	10.2	0.891	0.0509	35.7	1265	1783
Two-seater	1990	177	0.020	27.7	20.5	27.1	23.2	2979	50.0	164	160	10.3	1.019	0.0511	35.2	1240	1760
Two-seater	1991	178	0.020	29.0	21.4	27.9	24.2	2890	50.0	149	150	10.8	1.040	0.0491	35.7	1305	1785
Two-seater	1992	81	0.010	26.7	19.4	26.1	22.3	3022	50.0	187	183	10.0	1.018	0.0565	33.8	1190	1691
Two-seater	1993	118	0.013	28.4	20.6	27.6	23.6	2975	50.0	169	178	9.6	1.138	0.0572	35.8	1255	1792
Two-seater	1994	84	0.010	26.0	18.7	25.5	21.6	3134	50.0	207	198	8.8	1.073	0.0613	34.4	1133	1719
Two-seater	1995	79	0.008	26.3	18.7	25.9	21.8	3177	50.0	204	199	8.9	1.077	0.0606	35.1	1145	1753
Two-seater	1996	65	0.008	26.0	18.2	25.8	21.5	3168	50.0	216	205	8.6	1.050	0.0632	34.1	1101	1706
Two-seater	1997	72	0.008	26.7	18.7	26.1	21.9	3057	50.0	178	198	8.7	1.157	0.0628	33.9	1132	1694
Two-seater	1998	78	0.009	24.4	17.0	24.0	20.1	3458	50.0	244	255	7.7	1.108	0.0732	35.1	1022	1753
Two-seater	1999	118	0.013	25.8	17.9	25.0	21.1	3179	50.0	208	225	7.9	1.152	0.0695	33.6	1077	1682
Two-seater	2000	122	0.013	25.9	17.9	25.0	21.1	3124	50.0	208	232	7.7	1.192	0.0723	33.8	1125	1689
Two-seater	2001	143	0.016	26.2	18.0	25.1	21.3	3207	50.0	200	239	7.6	1.292	0.0732	34.6	1101	1732
Two-seater	2002	132	0.015	24.9	16.9	24.1	20.2	3397	50.0	224	251	7.6	1.212	0.0732	34.6	1040	1732
Two-seater	2003	180	0.021	25.0	16.9	24.1	20.3	3440	50.0	229	266	7.3	1.223	0.0765	35.0	1031	1749
Two-seater	2004	168	0.021	24.5	16.4	23.5	19.8	3540	50.0	235	271	7.4	1.203	0.0762	35.3	1005	1763
Two-seater	2005	163	0.018	24.6	16.3	23.6	19.8	3502	50.0	241	291	7.1	1.243	0.0828	34.9	1004	1745
Two-seater	2006	168	0.019	25.3	16.8	24.3	20.4	3378	50.0	226	282	7.1	1.288	0.0824	34.6	1037	1731
Two-seater	2007	154	0.017	25.6	16.9	24.7	20.6	3398	50.0	227	290	7.0	1.344	0.0843	35.2	1044	1759
Two-seater	2008	148	0.018	27.5	18.3	26.0	22.0	3187	50.4	207	270	7.7	1.359	0.0806	35.5	1173	1790
Two-seater	2009	79	0.013	27.1	17.9	25.8	21.7	3272	50.0	222	290	7.6	1.330	0.0836	35.9	1168	1797
Two-seater	2010	41	0.006	26.4	17.5	25.2	21.2	3309	50.0	240	320	6.8	1.353	0.0933	35.5	1107	1775

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
		Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Two-seater	1975			74.2%	0.3%			42.4%								
Two-seater	1976			70.5%				37.1%								
Two-seater	1977			70.5%				40.2%								
Two-seater	1978			71.8%				46.9%								
Two-seater	1979			72.8%				31.5%								
Two-seater	1980			74.0%	13.6%			34.4%								
Two-seater	1981			61.3%	20.1%			55.4%								
Two-seater	1982	47.8%		69.2%	9.5%			23.3%	9.5%							
Two-seater	1983	17.1%		81.0%	4.5%			40.3%								
Two-seater	1984	17.9%		60.4%	33.7%			20.5%	53.1%							
Two-seater	1985	25.0%		67.4%	26.3%			53.3%	11.6%							
Two-seater	1986	29.8%		62.4%	30.8%			70.0%	11.7%		81.2%	7.3%	11.5%			
Two-seater	1987	32.7%		64.0%	28.5%			71.3%	14.6%		70.4%	22.2%	7.4%			
Two-seater	1988	41.9%		62.1%	27.4%			73.9%	26.1%		76.2%		23.8%			
Two-seater	1989	32.6%	16.5%	51.5%	36.6%			85.8%	14.2%		61.5%		38.5%			
Two-seater	1990	31.3%		66.9%	27.2%			88.5%	11.5%		33.0%		67.0%			
Two-seater	1991	34.9%		68.5%	21.1%			81.4%	18.6%		33.1%		66.9%		1.8%	
Two-seater	1992	16.1%	0.1%	55.3%	26.8%			86.3%	13.7%		49.7%		50.3%		8.7%	
Two-seater	1993	42.3%	0.0%	59.8%	35.5%			94.4%	5.6%		51.4%		48.6%		22.1%	
Two-seater	1994	24.1%	0.1%	57.5%	35.6%			100.0%			34.4%		65.6%		22.0%	
Two-seater	1995	23.5%	0.1%	57.9%	31.4%			100.0%			33.9%		65.4%	0.7%	31.2%	
Two-seater	1996	4.7%	0.0%	55.6%	40.8%			100.0%			35.3%		64.3%	0.4%	27.1%	
Two-seater	1997	10.8%	0.1%	64.0%	34.3%			100.0%			14.8%		84.3%	0.9%	51.8%	
Two-seater	1998		0.1%	36.6%	61.2%			100.0%			38.2%		61.1%	0.7%	45.3%	
Two-seater	1999	28.5%	0.1%	54.1%	42.6%			100.0%			26.1%	7.7%	65.2%	0.9%	22.6%	
Two-seater	2000	4.6%		63.0%	34.6%			100.0%			26.9%		72.7%	0.5%	49.1%	4.6%
Two-seater	2001	5.0%	7.1%	60.9%	36.1%	1.1%		100.0%			24.4%	9.6%	56.8%	9.2%	42.4%	2.4%
Two-seater	2002	3.0%	2.9%	47.3%	49.8%	1.0%		100.0%			26.5%	5.6%	63.3%	4.6%	30.6%	1.5%
Two-seater	2003	1.5%	0.8%	45.8%	53.8%	0.4%		100.0%			19.3%	13.6%	64.9%	2.2%	50.6%	0.6%
Two-seater	2004	1.0%	9.5%	38.9%	60.2%	0.2%		100.0%			20.0%	18.6%	58.7%	2.8%	51.4%	0.3%
Two-seater	2005	0.7%	0.8%	38.2%	60.8%	0.2%		100.0%			21.7%	22.6%	54.7%	1.0%	50.5%	0.4%
Two-seater	2006	0.8%	0.5%	50.7%	47.5%	0.2%		100.0%			19.8%	8.5%	70.7%	0.3%	75.1%	0.5%
Two-seater	2007		0.5%	43.9%	56.1%		3.0%	97.0%			24.5%	3.1%	72.4%		64.2%	
Two-seater	2008	1.3%	2.2%	35.8%	49.6%		2.7%	97.3%			23.1%	1.8%	75.1%	0.0%	69.5%	
Two-seater	2009	0.4%	2.5%	29.5%	51.5%		8.5%	91.5%			20.7%	2.6%	76.7%	0.0%	67.7%	
Two-seater	2010		3.5%	40.6%	45.5%		7.3%	92.7%			29.0%	0.0%	70.9%		71.9%	

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Two-seater	2011	62	0.009	29.2	19.5	27.7	23.4	3317	50.0	209	281	7.3	1.359	0.0812	40.8	1275	2041
Two-seater	2012	97	0.011	28.5	18.9	27.2	22.8	3358	50.0	222	312	6.8	1.427	0.0899	39.7	1213	1985
Mini-compact	1975	941	0.114	23.0	17.6	22.8	19.6	2721		128	82	15.2	0.669	0.0298	27.4		
Mini-compact	1976	913	0.094	26.0	20.2	25.2	22.2	2688		125	80	15.1	0.673	0.0297	30.1		
Mini-compact	1977	916	0.081	27.9	21.7	26.8	23.8	2544	78.8	116	83	14.0	0.756	0.0326	30.7	1957	2420
Mini-compact	1978	901	0.081	27.4	21.7	25.6	23.3	2584	79.1	120	83	14.1	0.730	0.0322	30.6	1920	2422
Mini-compact	1979	436	0.040	27.6	21.7	26.3	23.5	2450	79.7	113	77	14.4	0.689	0.0312	29.0	1906	2315
Mini-compact	1980	383	0.041	28.1	22.1	26.8	24.0	2459	82.8	116	78	14.4	0.675	0.0314	29.6	2031	2449
Mini-compact	1981	227	0.026	34.3	27.6	31.3	29.1	2164	82.6	92	67	14.5	0.723	0.0307	31.9	2472	2639
Mini-compact	1982	178	0.023	35.5	28.5	32.3	30.1	2193	82.7	95	70	14.6	0.727	0.0311	33.7	2604	2792
Mini-compact	1983	156	0.019	35.7	28.4	33.3	30.4	2273	82.0	100	77	14.2	0.754	0.0327	35.3	2630	2901
Mini-compact	1984	42	0.004	25.6	19.5	25.7	21.8	2855	75.9	151	141	10.5	0.927	0.0484	31.6	1721	2400
Mini-compact	1985	73	0.007	36.0	28.0	34.9	30.7	2300	79.2	114	95	13.1	0.818	0.0380	37.6	2896	2994
Mini-compact	1986	176	0.016	30.7	23.3	30.4	26.1	2408	80.5	113	105	12.8	0.881	0.0403	33.4	2459	2693
Mini-compact	1987	71	0.007	30.7	23.3	30.0	26.0	2636	77.2	128	131	11.3	0.985	0.0469	35.8	2295	2786
Mini-compact	1988	43	0.004	31.1	23.7	29.8	26.2	2619	77.9	128	129	11.7	0.954	0.0462	36.4	2409	2863
Mini-compact	1989	28	0.003	26.9	20.2	25.9	22.6	2866	77.2	146	148	10.7	0.985	0.0504	33.0	1810	2562
Mini-compact	1990	76	0.009	26.3	19.6	25.6	22.1	3019	80.7	148	145	10.5	0.969	0.0475	33.4	1799	2697
Mini-compact	1991	95	0.011	28.6	21.3	27.3	23.9	2912	75.5	127	137	10.8	1.076	0.0464	34.9	1821	2640
Mini-compact	1992	118	0.014	31.4	23.2	29.7	26.0	2691	81.0	110	118	11.2	1.073	0.0435	35.0	2141	2836
Mini-compact	1993	74	0.008	30.0	22.1	28.3	24.8	2819	79.5	119	130	10.9	1.089	0.0454	35.0	2013	2779
Mini-compact	1994	39	0.004	28.1	20.2	27.3	23.3	3146	81.0	132	163	10.3	1.202	0.0501	36.5	1935	2959
Mini-compact	1995	56	0.006	27.3	19.6	26.3	22.6	3218	79.9	147	166	9.9	1.122	0.0513	36.3	1823	2907
Mini-compact	1996	44	0.005	26.9	19.0	26.1	22.1	3270	76.8	158	179	9.8	1.127	0.0538	36.5	1764	2821
Mini-compact	1997	44	0.005	26.6	18.7	25.9	21.9	3338	76.6	154	185	9.7	1.194	0.0547	36.8	1713	2834
Mini-compact	1998	37	0.004	25.8	17.9	25.4	21.2	3522	78.9	169	195	9.6	1.146	0.0548	37.5	1689	2961
Mini-compact	1999	51	0.006	25.2	17.3	25.1	20.7	3602	79.3	181	220	9.0	1.199	0.0609	37.6	1658	2984
Mini-compact	2000	40	0.004	24.2	16.6	23.9	19.9	3729	79.6	193	244	8.3	1.300	0.0656	37.3	1599	2971
Mini-compact	2001	80	0.009	24.9	16.9	24.4	20.3	3711	80.5	178	228	8.8	1.293	0.0615	37.9	1650	3059
Mini-compact	2002	96	0.011	25.6	17.4	24.5	20.7	3649	81.5	188	238	8.5	1.301	0.0646	38.0	1728	3103
Mini-compact	2003	92	0.011	27.8	18.7	26.4	22.3	3408	82.1	152	199	9.8	1.309	0.0571	38.4	1895	3157
Mini-compact	2004	132	0.016	27.6	18.4	26.2	22.1	3491	82.3	149	185	10.2	1.241	0.0522	38.8	1860	3196
Mini-compact	2005	107	0.012	28.5	19.0	26.8	22.7	3368	81.7	143	187	9.9	1.328	0.0544	38.4	1901	3144
Mini-compact	2006	111	0.013	28.7	19.1	27.0	22.9	3354	81.4	150	197	9.4	1.338	0.0578	38.5	1903	3136
Mini-compact	2007	89	0.010	29.6	19.7	27.7	23.6	3380	80.8	159	215	9.0	1.375	0.0625	40.3	1971	3258
Mini-compact	2008	69	0.008	30.9	20.5	28.7	24.5	3342	81.0	147	203	9.4	1.389	0.0595	41.4	2049	3357

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
		Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Two-seater	2011	26.6%	2.9%	32.6%	38.6%	17.5%	10.0%	90.0%			20.0%	0.0%	79.9%		79.9%	26.6%
Two-seater	2012	17.2%	2.7%	35.9%	48.1%	7.9%	27.6%	72.4%			22.1%		77.9%		77.8%	12.0%
Mini-compact	1975	19.6%		65.5%	2.3%			11.5%								
Mini-compact	1976	22.1%		63.5%				4.5%								
Mini-compact	1977	25.4%		70.6%				1.9%								
Mini-compact	1978	22.3%		61.0%	2.0%			1.5%								
Mini-compact	1979	44.8%		67.8%	5.5%			3.4%								
Mini-compact	1980	47.2%		54.1%	5.9%			1.6%								
Mini-compact	1981	83.2%		81.2%				1.0%								
Mini-compact	1982	80.4%		80.8%				6.4%								
Mini-compact	1983	81.8%		80.9%	0.2%			20.6%								
Mini-compact	1984	30.6%		84.3%	0.2%			92.6%								
Mini-compact	1985	67.7%		86.1%	0.1%			46.9%								
Mini-compact	1986	54.6%		82.7%	5.1%			52.2%			94.2%		5.8%			
Mini-compact	1987	54.9%		81.9%	3.9%			85.9%			81.4%		18.6%			
Mini-compact	1988	62.4%		76.6%	8.3%			77.0%			76.5%		23.5%			
Mini-compact	1989	62.4%	3.5%	65.3%	16.1%			100.0%			63.1%		36.9%			
Mini-compact	1990	11.4%		61.6%	32.9%			100.0%			17.4%	79.4%	3.2%			
Mini-compact	1991	50.9%		59.8%	37.8%			100.0%			9.4%		90.6%		4.0%	
Mini-compact	1992	71.5%		55.3%	41.7%			100.0%			8.2%		91.8%		4.9%	
Mini-compact	1993	64.9%		52.5%	45.7%			100.0%			18.0%		82.0%		6.6%	
Mini-compact	1994	44.5%		43.2%	51.4%			100.0%			5.4%		94.6%		29.5%	
Mini-compact	1995	17.3%		40.8%	50.6%			100.0%			5.3%		94.7%		23.1%	
Mini-compact	1996	37.7%	6.7%	48.0%	50.2%			100.0%			19.2%		80.8%		45.3%	
Mini-compact	1997	48.1%	4.7%	47.8%	50.2%			100.0%			17.7%		82.3%		40.3%	
Mini-compact	1998	38.5%	1.1%	34.4%	64.6%			100.0%			8.9%		91.1%		54.4%	
Mini-compact	1999	25.7%	3.2%	38.4%	55.9%			100.0%				11.8%	88.2%		62.5%	
Mini-compact	2000	8.3%	13.5%	46.9%	48.4%			100.0%				22.8%	59.1%	18.1%	54.2%	
Mini-compact	2001	33.7%	16.0%	37.2%	59.2%			100.0%				7.6%	81.8%	10.7%	47.0%	
Mini-compact	2002	29.0%	10.7%	38.8%	55.4%	3.3%		100.0%					94.0%	6.0%	64.1%	
Mini-compact	2003	58.3%	7.0%	44.4%	46.0%	9.7%		100.0%			16.6%		76.4%	6.9%	39.4%	
Mini-compact	2004	65.0%	5.4%	28.8%	62.9%	7.2%		100.0%			11.1%		79.7%	9.2%	34.3%	
Mini-compact	2005	67.0%	2.3%	39.1%	49.1%	11.8%		100.0%			12.9%		79.7%	7.5%	32.5%	
Mini-compact	2006	64.5%	5.2%	37.7%	51.6%	10.6%		100.0%					98.2%	1.8%	35.4%	
Mini-compact	2007	71.4%	7.2%	34.7%	63.6%	1.7%	23.6%	76.4%					100.0%		78.3%	
Mini-compact	2008	77.3%	8.0%	30.6%	67.2%	2.3%	23.4%	76.6%				0.4%	99.6%		68.8%	

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Mini-compact	2009	49	0.008	33.1	22.0	30.3	26.1	3260	80.5	140	200	9.5	1.433	0.0600	43.0	2171	3464
Mini-compact	2010	45	0.006	33.4	22.3	30.4	26.2	3168	81.1	131	191	9.6	1.453	0.0583	42.1	2198	3419
Mini-compact	2011	41	0.006	35.3	23.6	31.8	27.7	3110	80.6	132	205	9.0	1.536	0.0631	43.6	2317	3516
Mini-compact	2012	187	0.022	39.8	26.9	33.7	30.4	2773	81.8	99	133	11.4	1.285	0.0459	42.3	2531	3459
Subcompact	1975	1011	0.123	19.2	15.0	18.6	16.4	3243		207	107	14.2	0.585	0.0329	26.8		
Subcompact	1976	1368	0.141	22.2	17.4	21.1	18.9	3033		181	97	14.7	0.607	0.0316	28.8		
Subcompact	1977	1577	0.139	23.9	18.8	22.6	20.3	2966	90.7	174	98	14.2	0.633	0.0325	30.7	1983	2783
Subcompact	1978	2056	0.184	24.6	19.4	23.4	21.0	2842	89.7	159	94	14.4	0.649	0.0321	30.4	2032	2726
Subcompact	1979	3044	0.282	24.1	19.0	22.8	20.5	2847	90.4	155	94	14.2	0.659	0.0323	29.6	1955	2674
Subcompact	1980	3552	0.376	27.1	21.3	25.7	23.1	2640	89.9	128	82	14.7	0.669	0.0308	30.8	2148	2768
Subcompact	1981	2712	0.311	29.3	23.3	27.3	24.9	2604	90.3	124	81	14.7	0.676	0.0308	32.9	2334	2971
Subcompact	1982	2329	0.297	29.1	22.8	27.7	24.8	2657	91.8	133	86	14.5	0.666	0.0317	33.6	2377	3077
Subcompact	1983	1968	0.245	30.0	23.4	29.0	25.6	2688	93.3	136	91	14.0	0.693	0.0330	34.9	2505	3262
Subcompact	1984	2545	0.237	29.6	22.9	28.8	25.2	2737	93.3	140	97	13.5	0.722	0.0348	35.0	2457	3265
Subcompact	1985	2181	0.201	30.1	23.3	29.2	25.6	2734	93.9	136	100	13.2	0.760	0.0358	35.4	2506	3325
Subcompact	1986	2376	0.215	30.6	23.6	29.5	25.9	2764	94.7	136	100	13.4	0.765	0.0354	36.2	2560	3435
Subcompact	1987	2088	0.193	31.1	23.9	29.7	26.3	2728	92.7	128	99	13.7	0.795	0.0350	36.1	2528	3349
Subcompact	1988	2143	0.198	32.0	24.6	30.1	26.9	2668	93.2	122	99	13.5	0.823	0.0358	36.2	2616	3376
Subcompact	1989	1950	0.193	31.2	23.6	29.6	26.1	2748	93.1	129	104	13.0	0.852	0.0369	36.2	2546	3378
Subcompact	1990	1975	0.222	31.5	23.9	29.5	26.3	2762	94.5	117	108	12.5	0.962	0.0385	36.6	2558	3458
Subcompact	1991	2303	0.263	31.5	23.4	29.9	26.2	2779	94.8	124	111	12.3	0.938	0.0392	36.7	2563	3476
Subcompact	1992	2021	0.242	31.8	23.5	30.3	26.4	2806	93.8	122	117	12.0	0.987	0.0408	37.4	2572	3511
Subcompact	1993	1872	0.210	32.0	23.3	30.4	26.4	2797	94.4	124	120	11.8	0.977	0.0418	37.3	2587	3524
Subcompact	1994	1995	0.228	31.6	22.7	30.4	26.0	2879	94.4	134	125	11.7	0.973	0.0423	37.8	2548	3569
Subcompact	1995	1623	0.169	31.5	22.5	30.4	25.9	2949	93.6	141	134	11.3	1.015	0.0443	38.6	2532	3612
Subcompact	1996	1108	0.135	32.9	23.3	31.4	26.9	2875	94.9	136	132	11.2	1.024	0.0446	38.9	2650	3693
Subcompact	1997	1488	0.171	32.5	23.1	30.5	26.5	2909	95.5	126	128	11.5	1.058	0.0431	38.7	2589	3695
Subcompact	1998	1600	0.190	31.6	22.1	30.0	25.7	2984	96.4	139	135	11.1	1.022	0.0447	38.5	2530	3716
Subcompact	1999	1380	0.156	31.3	21.8	29.5	25.3	2973	96.4	138	137	11.0	1.032	0.0454	37.8	2491	3648
Subcompact	2000	1490	0.153	30.7	21.3	28.7	24.7	3026	96.5	145	144	10.7	1.040	0.0469	37.6	2434	3630
Subcompact	2001	642	0.070	28.3	19.4	27.1	22.9	3225	93.5	173	173	9.9	1.036	0.0528	37.2	2195	3478
Subcompact	2002	573	0.064	28.2	19.1	27.0	22.8	3292	95.5	183	187	9.5	1.075	0.0557	37.7	2221	3599
Subcompact	2003	585	0.069	27.2	18.4	25.7	21.9	3438	94.9	176	185	9.8	1.079	0.0535	37.8	2105	3584
Subcompact	2004	453	0.055	27.3	18.3	25.7	21.9	3365	95.9	174	192	9.5	1.144	0.0559	37.1	2154	3555
Subcompact	2005	573	0.065	28.0	18.7	26.2	22.4	3352	97.3	171	189	9.4	1.170	0.0555	37.7	2226	3667
Subcompact	2006	1098	0.126	31.2	20.7	29.1	24.8	3224	98.0	149	171	9.9	1.178	0.0521	40.5	2508	3973

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
		Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Mini-compact	2009	78.6%	6.8%	40.1%	51.9%		31.8%	68.2%					100.0%		85.9%	
Mini-compact	2010	83.3%	2.4%	30.2%	64.2%		48.1%	51.9%					100.0%		99.5%	
Mini-compact	2011	80.0%	2.3%	31.7%	67.1%		52.8%	47.2%					100.0%		99.5%	
Mini-compact	2012	92.5%	1.2%	18.9%	67.5%	12.4%	15.6%	84.4%					100.0%		99.6%	
Subcompact	1975	17.6%		40.9%				8.9%								
Subcompact	1976	13.1%		42.8%				3.1%								
Subcompact	1977	19.4%		46.5%				12.5%		1.2%						
Subcompact	1978	22.3%		53.3%	1.1%			11.7%		1.8%						
Subcompact	1979	25.9%		48.2%	1.6%			7.3%		1.5%						
Subcompact	1980	35.3%	0.4%	56.5%	3.5%			10.9%		3.4%						
Subcompact	1981	36.0%	0.3%	57.0%	8.5%			12.1%		5.5%						
Subcompact	1982	39.8%	0.2%	53.6%	23.6%			14.8%	3.2%	4.1%						
Subcompact	1983	53.4%	0.2%	53.9%	32.0%			21.5%	2.7%	1.2%						
Subcompact	1984	49.8%	0.5%	51.5%	35.1%			28.9%	3.0%	1.7%						
Subcompact	1985	58.7%	0.3%	49.4%	34.1%			28.8%	5.1%	0.2%						
Subcompact	1986	64.5%	1.1%	50.3%	34.0%			36.5%	4.9%	0.1%	82.5%	13.8%	3.7%			
Subcompact	1987	69.1%	0.5%	51.3%	39.4%			40.3%	6.8%	0.1%	59.7%	26.9%	13.4%			
Subcompact	1988	77.7%	1.2%	53.6%	40.0%			35.7%	15.2%	0.0%	53.6%	21.8%	24.6%			
Subcompact	1989	72.3%	1.1%	46.5%	45.3%	0.6%		44.5%	20.6%	0.0%	58.1%	12.6%	29.3%			
Subcompact	1990	87.9%	0.5%	44.9%	51.1%	0.2%		71.5%	24.0%		35.0%	8.2%	56.8%			
Subcompact	1991	84.3%	1.4%	39.1%	56.2%	0.2%		59.6%	40.3%		45.1%	11.8%	43.1%		5.7%	
Subcompact	1992	84.2%	1.6%	38.0%	56.4%	0.0%		84.5%	15.5%		41.6%	11.0%	47.4%		12.3%	
Subcompact	1993	84.6%	1.7%	42.6%	51.9%	0.0%		91.7%	8.3%		43.3%	11.5%	45.2%		13.4%	
Subcompact	1994	81.8%	0.2%	37.7%	58.0%			93.6%	6.4%		45.2%	7.8%	47.0%		17.6%	
Subcompact	1995	72.1%	1.4%	40.4%	55.4%			95.0%	5.0%		34.9%	3.1%	62.0%		18.0%	
Subcompact	1996	75.8%	1.1%	41.4%	52.1%	0.1%		92.2%	7.8%		32.4%	2.6%	64.9%		26.0%	
Subcompact	1997	83.3%	0.6%	31.4%	64.9%	0.4%		95.5%	4.5%		21.3%		78.7%		26.9%	
Subcompact	1998	81.2%	0.6%	30.1%	68.3%	0.3%		99.1%	0.7%	0.2%	39.1%	2.4%	58.4%		28.3%	
Subcompact	1999	83.2%	0.5%	27.5%	71.0%	0.1%		99.2%	0.6%	0.2%	41.3%	6.8%	51.7%	0.2%	24.7%	
Subcompact	2000	76.7%	0.5%	26.2%	71.9%	0.1%		99.2%	0.3%	0.5%	45.3%	1.6%	51.4%	1.8%	22.6%	
Subcompact	2001	57.5%	0.8%	32.2%	64.6%	0.2%		98.9%		1.1%	47.3%	1.4%	47.7%	3.7%	27.8%	
Subcompact	2002	50.9%	5.9%	34.3%	65.6%	0.1%		98.6%		1.4%	47.4%	4.8%	44.1%	3.7%	23.9%	
Subcompact	2003	65.4%	2.2%	27.5%	71.4%	1.1%		99.3%		0.7%	26.7%	5.3%	64.6%	3.5%	15.8%	
Subcompact	2004	44.3%	6.6%	34.2%	64.5%	1.2%		99.5%		0.5%	38.8%	4.4%	53.9%	2.9%	21.1%	
Subcompact	2005	59.1%	4.8%	25.5%	73.7%	0.9%		99.5%		0.5%	21.8%	12.8%	63.6%	1.8%	36.7%	
Subcompact	2006	75.3%	3.8%	21.2%	78.3%	0.5%		99.5%		0.5%	13.3%	6.9%	79.0%	0.7%	60.9%	

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Subcompact	2007	1251	0.139	31.8	21.1	29.4	25.2	3190	98.2	147	172	9.8	1.195	0.0526	40.6	2556	3983
Subcompact	2008	1217	0.148	32.2	21.4	29.8	25.5	3261	97.7	147	177	9.8	1.212	0.0530	41.9	2574	4099
Subcompact	2009	813	0.130	33.8	22.3	31.1	26.6	3182	97.7	138	169	9.9	1.235	0.0520	42.7	2672	4169
Subcompact	2010	633	0.091	33.6	22.2	31.0	26.5	3262	97.0	145	180	9.7	1.252	0.0536	43.6	2658	4228
Subcompact	2011	534	0.077	33.1	21.9	30.9	26.2	3385	96.8	155	209	9.2	1.322	0.0594	44.7	2641	4333
Subcompact	2012	377	0.044	30.8	20.4	29.2	24.6	3637	95.3	178	248	8.4	1.393	0.0666	45.1	2417	4292
Compact	1975	1893	0.230	16.2	12.9	15.0	13.8	3958		288	129	14.6	0.454	0.0322	27.6		
Compact	1976	2557	0.263	17.5	13.9	16.4	14.9	4025		289	125	15.2	0.434	0.0307	30.2		
Compact	1977	2767	0.245	17.9	14.2	16.7	15.2	4129	107.3	291	131	14.6	0.452	0.0315	31.6	1655	3391
Compact	1978	1482	0.132	20.2	15.8	19.3	17.2	3552	105.1	236	113	14.5	0.506	0.0318	30.6	1842	3221
Compact	1979	668	0.062	19.5	15.4	18.3	16.6	3624	105.3	246	117	14.4	0.495	0.0321	30.4	1783	3201
Compact	1980	690	0.073	22.4	17.4	21.6	19.1	3185	106.2	186	102	14.4	0.577	0.0324	30.7	2078	3265
Compact	1981	976	0.112	26.7	20.7	26.1	22.8	2825	104.3	142	91	14.2	0.671	0.0325	32.4	2433	3377
Compact	1982	1268	0.162	29.0	22.2	28.8	24.8	2794	102.9	128	87	14.6	0.695	0.0310	34.8	2591	3579
Compact	1983	1456	0.181	28.8	22.2	28.2	24.5	2844	103.2	141	91	14.4	0.677	0.0318	35.2	2602	3633
Compact	1984	2732	0.255	29.7	23.0	28.8	25.3	2798	103.1	137	91	14.3	0.687	0.0321	35.7	2672	3682
Compact	1985	2929	0.269	29.8	23.1	29.0	25.5	2804	102.9	138	98	13.5	0.727	0.0347	36.0	2684	3706
Compact	1986	3348	0.302	29.8	23.0	28.9	25.3	2819	103.2	137	98	13.5	0.735	0.0346	36.0	2669	3713
Compact	1987	4012	0.371	29.7	22.7	28.9	25.2	2836	102.8	135	101	13.3	0.759	0.0351	35.9	2631	3689
Compact	1988	4317	0.398	29.9	22.6	28.9	25.2	2889	103.6	136	107	13.0	0.794	0.0365	36.6	2653	3794
Compact	1989	3585	0.354	29.9	22.5	28.8	25.1	2886	102.8	130	108	12.7	0.837	0.0372	36.4	2612	3739
Compact	1990	2771	0.312	29.0	21.6	28.1	24.3	2985	103.3	138	118	12.3	0.857	0.0393	36.4	2535	3756
Compact	1991	2455	0.281	29.0	21.4	27.9	24.2	2984	104.5	136	120	12.1	0.887	0.0400	36.3	2569	3799
Compact	1992	2221	0.266	28.6	20.9	27.8	23.8	3034	104.3	143	127	11.8	0.893	0.0416	36.2	2510	3777
Compact	1993	2473	0.277	29.6	21.5	28.6	24.6	2982	104.1	139	121	12.0	0.886	0.0405	36.7	2585	3823
Compact	1994	2602	0.297	29.8	21.5	28.7	24.6	3023	103.9	138	124	11.9	0.912	0.0408	37.3	2585	3876
Compact	1995	3432	0.357	30.6	21.8	29.5	25.2	2998	103.9	134	133	11.2	0.992	0.0439	37.8	2643	3929
Compact	1996	2981	0.365	30.3	21.4	29.3	24.9	3007	103.1	134	133	11.1	0.999	0.0441	37.5	2590	3866
Compact	1997	2840	0.327	30.3	21.2	29.3	24.8	3004	102.6	135	134	11.1	0.988	0.0442	37.3	2569	3830
Compact	1998	2126	0.252	30.9	21.4	29.7	25.2	3010	102.7	131	134	11.0	1.028	0.0444	38.0	2620	3903
Compact	1999	2368	0.267	30.1	20.8	28.8	24.4	3135	103.2	139	141	11.0	1.028	0.0448	38.4	2558	3963
Compact	2000	2612	0.268	30.5	21.0	28.9	24.6	3097	103.6	132	138	11.1	1.049	0.0441	38.3	2588	3965
Compact	2001	3196	0.349	31.7	21.8	29.6	25.5	3056	103.0	130	139	11.0	1.074	0.0449	39.2	2671	4033
Compact	2002	2998	0.337	31.8	21.6	29.5	25.4	3065	103.6	128	140	11.0	1.091	0.0451	39.2	2676	4055
Compact	2003	2811	0.331	32.1	21.7	29.6	25.5	3088	104.0	131	146	10.6	1.121	0.0467	39.8	2710	4139
Compact	2004	2520	0.308	31.9	21.3	29.5	25.3	3122	103.6	135	153	10.4	1.137	0.0483	39.8	2670	4119

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
		Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Subcompact	2007	73.6%	4.3%	20.1%	79.6%	0.2%		100.0%			10.8%	5.7%	83.4%	0.0%	64.4%	
Subcompact	2008	76.3%	2.9%	17.3%	78.2%	4.3%	3.2%	96.8%			4.9%	3.4%	91.7%	0.0%	72.7%	
Subcompact	2009	78.8%	4.7%	13.7%	83.1%	3.0%	9.7%	90.1%		0.1%	3.4%	2.2%	94.5%	0.0%	75.3%	
Subcompact	2010	68.5%	4.9%	10.8%	84.4%	3.5%	10.8%	89.2%			7.6%	3.6%	88.8%		91.6%	
Subcompact	2011	55.4%	10.1%	12.1%	82.4%	3.7%	13.5%	86.5%			0.1%	4.3%	95.6%		99.0%	0.8%
Subcompact	2012	35.3%	9.6%	15.5%	76.9%	4.1%	31.0%	69.0%				9.0%	91.0%		99.9%	
Compact	1975	2.4%		8.1%	0.0%			4.4%		1.0%						
Compact	1976	2.5%		6.3%				3.6%		0.9%						
Compact	1977	2.3%		4.4%				3.8%		1.1%						
Compact	1978	17.8%		10.0%	16.3%			9.1%		2.2%						
Compact	1979	13.6%		9.0%				14.8%		8.0%						
Compact	1980	56.8%	5.8%	14.5%	6.7%			10.8%		8.4%						
Compact	1981	81.4%	2.1%	32.9%	5.8%			8.0%		6.0%						
Compact	1982	84.8%	1.9%	34.8%	39.7%			8.3%	13.1%	5.3%						
Compact	1983	74.7%	2.2%	32.3%	42.4%			13.2%	37.4%	4.4%						
Compact	1984	82.0%	0.8%	28.4%	41.0%			21.6%	32.4%	2.8%						
Compact	1985	85.3%	0.2%	28.3%	42.8%			24.0%	46.9%	2.4%						
Compact	1986	86.6%	0.2%	28.5%	50.0%			33.0%	43.4%	0.7%	99.0%		1.0%			
Compact	1987	90.5%	0.4%	29.5%	49.3%			32.4%	42.2%	0.3%	86.4%	8.3%	5.3%			
Compact	1988	91.2%	0.2%	25.6%	59.0%			48.7%	42.7%		79.6%	9.5%	10.9%			
Compact	1989	95.8%	0.5%	26.0%	56.2%			54.9%	40.0%	0.1%	62.4%	21.8%	15.8%			
Compact	1990	95.5%	0.8%	19.3%	63.6%			66.7%	33.2%	0.1%	60.0%	5.5%	34.5%			
Compact	1991	95.0%	1.6%	21.7%	65.3%			82.3%	17.3%	0.4%	55.1%	6.1%	38.8%		0.5%	
Compact	1992	96.1%	0.9%	19.2%	66.2%			89.0%	10.8%	0.2%	58.8%	4.7%	36.6%		1.0%	
Compact	1993	97.5%	0.5%	18.3%	69.9%			87.7%	12.3%		55.5%	1.5%	43.0%		0.6%	
Compact	1994	96.2%	0.4%	18.8%	72.8%			91.7%	8.3%		49.3%		50.7%		7.4%	
Compact	1995	95.4%	0.8%	19.5%	78.7%			99.8%		0.2%	32.3%	1.5%	66.2%		9.9%	
Compact	1996	97.3%	0.9%	17.2%	81.9%			100.0%			32.5%	1.5%	65.9%		10.3%	
Compact	1997	95.5%	1.1%	16.8%	83.2%			100.0%		0.0%	35.5%	2.9%	61.3%	0.3%	7.4%	
Compact	1998	93.8%	1.8%	15.3%	84.4%			99.6%		0.4%	22.6%	1.9%	74.2%	1.2%	12.5%	
Compact	1999	93.5%	1.7%	13.1%	86.4%			99.7%		0.3%	27.0%	0.7%	71.1%	1.2%	13.7%	
Compact	2000	92.0%	1.4%	15.3%	83.2%			99.5%		0.5%	26.2%	2.5%	69.9%	1.3%	25.5%	
Compact	2001	92.0%	2.2%	15.8%	82.8%	0.5%		99.5%		0.5%	24.2%	2.0%	70.9%	2.9%	39.0%	
Compact	2002	90.2%	3.5%	16.5%	82.3%	0.9%		99.2%		0.8%	26.0%	2.4%	68.4%	3.2%	38.1%	0.8%
Compact	2003	86.6%	3.8%	16.2%	81.8%	2.0%		99.3%		0.7%	13.7%	1.5%	81.4%	3.3%	48.0%	1.7%
Compact	2004	87.7%	5.2%	14.6%	83.9%	1.5%		99.5%		0.5%	11.3%	1.1%	84.7%	2.8%	54.2%	0.9%

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Compact	2005	2341	0.265	32.7	21.8	29.8	25.7	3084	103.8	131	150	10.4	1.152	0.0479	40.0	2723	4146
Compact	2006	1819	0.208	31.8	21.2	29.3	25.1	3256	104.8	145	167	10.0	1.164	0.0506	41.3	2704	4333
Compact	2007	1722	0.191	32.4	21.6	29.7	25.6	3251	105.4	137	162	10.2	1.188	0.0491	41.8	2752	4404
Compact	2008	1421	0.172	31.8	21.1	29.5	25.2	3311	104.6	142	170	10.0	1.204	0.0506	41.9	2698	4384
Compact	2009	1315	0.211	33.7	22.5	30.7	26.5	3297	104.9	137	166	10.2	1.211	0.0493	44.2	2859	4632
Compact	2010	1788	0.256	34.6	23.0	31.5	27.2	3272	104.9	143	173	9.9	1.214	0.0515	44.9	2924	4710
Compact	2011	1208	0.174	33.1	22.1	30.7	26.3	3392	105.4	150	186	9.7	1.241	0.0534	45.1	2848	4751
Compact	2012	2692	0.316	38.1	25.3	34.2	29.7	3172	105.3	126	165	9.9	1.297	0.0507	47.7	3211	5020
Midsize Sedan	1975	1631	0.198	13.6	10.5	13.1	11.6	4630		353	158	13.9	0.447	0.0341	27.2		
Midsize Sedan	1976	1964	0.202	15.7	12.2	15.1	13.4	4558		343	156	13.8	0.454	0.0340	30.7		
Midsize Sedan	1977	2226	0.197	16.4	12.9	15.7	14.0	4474	112.9	332	151	13.9	0.454	0.0337	31.6	1601	3565
Midsize Sedan	1978	3339	0.298	18.6	14.4	17.9	15.8	3820	113.0	292	135	13.4	0.464	0.0353	30.3	1823	3422
Midsize Sedan	1979	3211	0.297	19.1	15.0	18.1	16.3	3710	113.1	272	128	13.6	0.474	0.0345	30.3	1870	3425
Midsize Sedan	1980	2987	0.316	21.6	16.8	21.0	18.4	3362	113.2	229	113	13.8	0.512	0.0336	31.1	2113	3523
Midsize Sedan	1981	2902	0.332	22.9	17.8	22.3	19.6	3346	113.9	220	107	14.2	0.509	0.0322	32.9	2255	3746
Midsize Sedan	1982	2136	0.273	24.0	18.4	23.8	20.5	3321	113.9	211	107	14.2	0.529	0.0324	34.3	2377	3906
Midsize Sedan	1983	2269	0.282	23.9	18.4	23.6	20.4	3316	113.8	212	111	13.8	0.544	0.0336	34.0	2363	3876
Midsize Sedan	1984	2770	0.258	24.1	18.5	23.9	20.6	3318	113.7	210	113	13.6	0.563	0.0342	34.3	2373	3896
Midsize Sedan	1985	2777	0.255	24.9	19.0	24.9	21.3	3319	113.6	205	117	13.3	0.606	0.0354	35.4	2453	4025
Midsize Sedan	1986	2666	0.241	25.9	19.6	25.9	22.0	3241	113.8	194	119	13.0	0.640	0.0364	35.8	2535	4075
Midsize Sedan	1987	2253	0.208	26.0	19.5	26.0	22.1	3247	113.7	189	123	12.7	0.684	0.0379	35.9	2540	4088
Midsize Sedan	1988	2113	0.195	26.7	19.7	27.1	22.6	3293	113.4	183	129	12.3	0.718	0.0389	37.3	2589	4231
Midsize Sedan	1989	2591	0.256	26.6	19.5	27.1	22.5	3314	113.6	181	131	12.2	0.735	0.0396	37.4	2575	4246
Midsize Sedan	1990	2342	0.264	26.2	19.0	26.8	22.1	3450	113.7	187	141	12.0	0.758	0.0407	38.2	2529	4343
Midsize Sedan	1991	2114	0.242	26.0	18.8	26.5	21.9	3412	113.5	191	147	11.5	0.773	0.0428	37.4	2497	4243
Midsize Sedan	1992	2120	0.254	25.8	18.4	26.3	21.6	3515	113.9	191	151	11.5	0.801	0.0427	38.0	2472	4334
Midsize Sedan	1993	2330	0.261	26.1	18.6	26.4	21.8	3515	113.9	192	153	11.4	0.812	0.0434	38.4	2497	4377
Midsize Sedan	1994	2057	0.235	25.9	18.3	26.0	21.5	3529	113.5	190	155	11.4	0.827	0.0437	38.0	2457	4321
Midsize Sedan	1995	2515	0.262	26.1	18.2	26.5	21.7	3546	114.3	189	166	10.7	0.889	0.0465	38.5	2491	4403
Midsize Sedan	1996	2359	0.289	26.5	18.5	26.5	21.9	3527	114.1	181	162	10.9	0.906	0.0459	38.7	2506	4409
Midsize Sedan	1997	2399	0.276	26.5	18.4	26.7	21.9	3551	114.5	184	170	10.6	0.933	0.0476	39.0	2523	4465
Midsize Sedan	1998	2967	0.352	27.1	18.7	26.9	22.3	3534	114.0	177	169	10.5	0.965	0.0477	39.5	2553	4502
Midsize Sedan	1999	3141	0.354	27.1	18.5	26.8	22.2	3540	114.0	175	171	10.5	0.984	0.0480	39.4	2538	4486
Midsize Sedan	2000	2894	0.297	27.0	18.4	26.5	22.0	3550	113.6	174	178	10.2	1.027	0.0499	39.2	2513	4448
Midsize Sedan	2001	2480	0.271	27.2	18.5	26.5	22.1	3566	113.7	175	180	10.1	1.034	0.0503	39.6	2530	4501
Midsize Sedan	2002	2807	0.315	27.7	18.8	26.5	22.4	3549	114.8	177	185	9.8	1.055	0.0519	39.8	2582	4572

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
		Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Compact	2005	88.1%	5.3%	14.1%	84.6%	1.2%		99.5%		0.5%	11.1%	1.2%	86.2%	1.6%	61.3%	1.2%
Compact	2006	80.6%	5.4%	12.5%	85.2%	2.2%		97.8%		2.2%	12.3%	1.3%	86.3%	0.1%	71.0%	1.7%
Compact	2007	86.7%	6.3%	11.7%	76.0%	12.3%		100.0%			9.6%	0.0%	90.3%	0.1%	62.8%	2.1%
Compact	2008	81.5%	9.7%	11.0%	83.6%	5.4%	3.5%	96.5%			8.0%	0.0%	92.0%	0.0%	51.6%	2.3%
Compact	2009	82.8%	9.0%	9.1%	86.9%	4.0%	5.4%	92.5%		2.1%	7.1%	0.0%	92.9%		68.2%	1.5%
Compact	2010	82.9%	4.6%	9.2%	81.4%	6.0%	7.5%	90.4%		2.1%	8.3%	0.0%	91.7%		84.2%	3.9%
Compact	2011	69.4%	11.7%	10.4%	84.0%	5.5%	12.1%	84.8%		3.1%	6.8%	0.0%	93.2%		83.5%	2.3%
Compact	2012	88.2%	3.7%	12.2%	65.2%	10.0%	42.8%	55.6%		1.5%	3.6%	0.0%	96.4%		97.0%	5.2%
Midsize Sedan	1975	2.7%		0.6%				0.7%								
Midsize Sedan	1976	2.5%		0.4%				0.6%								
Midsize Sedan	1977	2.1%		0.3%				0.7%								
Midsize Sedan	1978	1.4%		1.7%	11.1%			1.4%								
Midsize Sedan	1979	5.2%		1.9%	21.4%			2.3%		1.4%						
Midsize Sedan	1980	30.2%		7.8%	25.3%			1.0%	1.5%	2.5%						
Midsize Sedan	1981	32.3%		5.6%	52.2%			0.1%	2.3%	4.0%						
Midsize Sedan	1982	44.7%		2.0%	82.6%			0.2%	15.4%	3.8%						
Midsize Sedan	1983	48.9%		1.2%	80.0%			0.5%	17.2%	1.7%						
Midsize Sedan	1984	55.1%		0.9%	82.0%			3.8%	25.6%	1.0%						
Midsize Sedan	1985	61.9%		1.3%	77.6%			13.0%	37.1%	0.3%						
Midsize Sedan	1986	71.0%	0.1%	1.8%	76.4%			25.4%	42.3%	0.2%	100.0%					
Midsize Sedan	1987	77.3%	0.2%	1.5%	77.6%			40.7%	43.4%	0.4%	100.0%					
Midsize Sedan	1988	87.0%	0.1%	3.8%	91.1%			66.9%	28.0%		93.4%	6.5%	0.1%			
Midsize Sedan	1989	86.5%	0.1%	4.7%	91.7%			78.3%	21.0%		94.3%	4.9%	0.8%			
Midsize Sedan	1990	85.2%	0.2%	3.9%	93.9%			86.6%	13.3%	0.0%	90.6%	4.3%	5.1%		2.3%	
Midsize Sedan	1991	87.2%	0.1%	3.6%	94.5%			88.7%	11.2%	0.1%	89.7%	4.9%	5.3%		2.7%	
Midsize Sedan	1992	79.1%	0.1%	2.7%	96.6%			94.7%	5.3%		77.0%	1.6%	21.4%		3.6%	
Midsize Sedan	1993	85.4%	0.2%	2.3%	97.2%			95.6%	4.4%		72.7%		27.3%		4.0%	
Midsize Sedan	1994	84.7%		2.0%	97.7%			96.0%	4.0%		68.1%		31.9%		3.9%	
Midsize Sedan	1995	79.6%		2.7%	97.2%			98.9%	1.1%		61.5%		38.5%		8.9%	
Midsize Sedan	1996	91.9%		4.3%	94.9%			99.7%		0.3%	52.6%		47.4%		11.0%	
Midsize Sedan	1997	90.6%	0.1%	2.5%	97.5%			99.8%		0.2%	50.1%		49.9%		10.1%	
Midsize Sedan	1998	95.2%	0.5%	3.0%	97.0%			99.9%		0.1%	44.5%	1.2%	53.1%	1.3%	22.0%	
Midsize Sedan	1999	95.2%	0.7%	3.3%	96.3%			99.8%		0.2%	36.1%	1.4%	59.7%	2.7%	20.9%	
Midsize Sedan	2000	92.3%	0.9%	3.5%	95.7%			100.0%			25.1%	1.4%	71.1%	2.4%	29.4%	
Midsize Sedan	2001	93.0%	1.2%	3.1%	96.1%			100.0%			28.2%	1.8%	66.6%	3.4%	25.3%	
Midsize Sedan	2002	94.2%	0.8%	2.6%	97.1%	0.1%		100.0%			21.4%	0.9%	74.7%	3.0%	45.0%	

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Midsized Sedan	2003	2483	0.292	28.3	18.9	27.3	22.8	3567	114.6	174	189	9.7	1.096	0.0529	40.8	2629	4676
Midsized Sedan	2004	2522	0.308	28.7	19.0	27.5	23.0	3577	114.0	174	190	9.7	1.100	0.0528	41.6	2667	4738
Midsized Sedan	2005	2886	0.326	29.8	19.7	28.2	23.8	3545	114.5	168	185	9.8	1.096	0.0515	42.8	2793	4900
Midsized Sedan	2006	2413	0.276	29.6	19.6	28.0	23.6	3568	114.0	169	191	9.6	1.137	0.0531	42.8	2759	4874
Midsized Sedan	2007	3083	0.343	31.2	20.7	29.1	24.8	3581	113.8	165	191	9.6	1.143	0.0524	45.3	2913	5149
Midsized Sedan	2008	2486	0.302	31.4	20.9	29.0	24.8	3564	113.3	163	191	9.5	1.161	0.0525	45.4	2937	5142
Midsized Sedan	2009	1930	0.309	32.5	21.5	29.8	25.5	3539	113.9	156	184	9.8	1.162	0.0511	46.0	2993	5234
Midsized Sedan	2010	2261	0.324	34.1	22.7	31.1	26.8	3577	114.3	158	188	9.5	1.170	0.0518	50.4	3252	5763
Midsized Sedan	2011	2480	0.358	33.7	22.1	31.5	26.6	3605	113.8	154	191	9.6	1.235	0.0522	49.3	3146	5615
Midsized Sedan	2012	2901	0.340	34.8	22.9	32.4	27.5	3603	114.4	156	194	9.5	1.250	0.0532	51.0	3269	5833
Large Sedan	1975	1555	0.189	13.1	10.2	12.6	11.2	5142		410	180	13.5	0.439	0.0348	28.9		
Large Sedan	1976	1679	0.173	14.2	11.1	13.5	12.1	5156		410	180	13.4	0.440	0.0349	31.1		
Large Sedan	1977	2319	0.205	15.9	12.4	15.2	13.5	4482	128.1	366	166	12.8	0.453	0.0370	30.4	1759	3895
Large Sedan	1978	2048	0.183	16.8	13.0	16.3	14.3	4394	128.5	357	162	12.8	0.457	0.0370	31.7	1869	4071
Large Sedan	1979	2111	0.195	17.4	13.7	16.5	14.8	4210	130.0	339	154	12.9	0.454	0.0365	31.3	1940	4073
Large Sedan	1980	963	0.102	19.1	14.7	18.8	16.3	4130	130.9	314	137	14.0	0.440	0.0331	34.0	2156	4448
Large Sedan	1981	956	0.109	20.4	15.4	20.8	17.4	4108	131.0	304	133	14.3	0.444	0.0325	36.4	2318	4762
Large Sedan	1982	832	0.106	20.7	15.6	21.0	17.7	4034	131.0	292	135	13.9	0.468	0.0337	36.0	2333	4715
Large Sedan	1983	1079	0.134	20.2	15.2	20.6	17.3	4041	131.3	293	140	13.4	0.481	0.0347	35.0	2272	4590
Large Sedan	1984	1236	0.115	20.5	15.5	21.0	17.5	4022	130.9	294	140	13.4	0.478	0.0349	35.3	2298	4622
Large Sedan	1985	1512	0.139	22.3	16.6	23.3	19.1	3841	129.3	279	143	12.7	0.512	0.0371	36.7	2470	4743
Large Sedan	1986	1267	0.114	23.9	17.6	25.4	20.4	3719	127.4	260	147	12.1	0.577	0.0396	38.0	2610	4846
Large Sedan	1987	1218	0.112	23.9	17.4	25.4	20.3	3696	127.0	260	149	11.8	0.587	0.0405	37.6	2588	4774
Large Sedan	1988	1303	0.120	24.2	17.6	25.6	20.6	3730	128.1	262	150	11.9	0.587	0.0405	38.4	2644	4924
Large Sedan	1989	1289	0.127	24.0	17.3	25.3	20.4	3721	127.4	262	158	11.4	0.619	0.0427	37.9	2598	4830
Large Sedan	1990	1092	0.123	23.7	16.9	25.1	20.0	3799	126.7	258	161	11.4	0.639	0.0427	38.1	2543	4820
Large Sedan	1991	1012	0.116	23.6	16.8	24.8	19.9	3893	129.0	264	178	10.7	0.685	0.0459	38.8	2575	5012
Large Sedan	1992	1241	0.149	23.8	16.8	25.0	20.0	3872	129.6	262	186	10.4	0.715	0.0480	38.8	2602	5033
Large Sedan	1993	1104	0.124	24.2	17.0	25.2	20.3	3831	128.9	256	181	10.5	0.720	0.0473	38.9	2628	5025
Large Sedan	1994	1277	0.146	24.1	16.8	24.9	20.1	3859	128.3	249	188	10.2	0.766	0.0487	38.8	2587	4987
Large Sedan	1995	1305	0.136	24.4	16.9	25.4	20.4	3830	127.9	248	207	9.4	0.845	0.0539	39.1	2619	5004
Large Sedan	1996	1066	0.130	24.3	16.7	25.3	20.3	3894	128.1	250	217	9.2	0.879	0.0557	39.5	2602	5058
Large Sedan	1997	1195	0.137	24.5	16.8	25.4	20.4	3821	127.4	242	217	9.1	0.903	0.0567	39.0	2607	4968
Large Sedan	1998	912	0.108	24.6	16.8	25.2	20.4	3784	127.4	240	218	8.9	0.922	0.0575	38.5	2602	4910
Large Sedan	1999	1059	0.119	24.8	16.8	25.3	20.5	3854	127.0	235	222	8.9	0.971	0.0576	39.5	2609	5015
Large Sedan	2000	1665	0.171	25.6	17.3	25.7	21.0	3782	124.9	221	215	9.2	0.980	0.0565	39.7	2628	4959

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
		Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Midsized Sedan	2003	91.7%	0.6%	2.9%	97.0%	0.1%		100.0%			21.9%	2.5%	72.1%	3.6%	55.3%	
Midsized Sedan	2004	91.7%	1.0%	3.2%	94.2%	1.9%		99.9%		0.1%	16.2%	1.6%	80.0%	2.2%	54.7%	1.9%
Midsized Sedan	2005	91.4%	1.9%	3.2%	92.4%	4.2%		99.6%		0.4%	13.6%	1.1%	84.6%	0.7%	68.5%	4.9%
Midsized Sedan	2006	89.4%	3.0%	3.7%	92.5%	3.7%		99.8%		0.2%	12.5%	0.2%	87.2%	0.2%	78.5%	3.8%
Midsized Sedan	2007	89.0%	3.8%	2.7%	77.6%	19.8%		99.9%		0.1%	7.3%		92.7%		79.0%	7.8%
Midsized Sedan	2008	85.3%	6.5%	2.5%	68.9%	28.6%	3.8%	96.0%		0.1%	6.5%		93.5%		73.1%	8.7%
Midsized Sedan	2009	90.5%	4.5%	2.1%	71.2%	26.8%	3.1%	96.8%		0.1%	1.2%		98.8%		89.3%	7.6%
Midsized Sedan	2010	88.5%	6.8%	1.4%	67.6%	30.5%	5.8%	94.2%			0.1%		99.9%		99.6%	13.2%
Midsized Sedan	2011	87.5%	7.0%	1.5%	76.2%	21.7%	12.5%	87.3%		0.1%	0.2%		99.8%		99.8%	7.4%
Midsized Sedan	2012	87.3%	7.0%	4.0%	77.7%	16.8%	15.4%	83.7%		0.9%	0.9%		99.1%		98.7%	8.7%
Large Sedan	1975	1.5%		0.0%												
Large Sedan	1976	1.5%		0.0%				1.2%								
Large Sedan	1977	1.5%						0.5%								
Large Sedan	1978	1.1%			2.5%			0.2%		1.4%						
Large Sedan	1979				6.5%			0.2%		3.5%						
Large Sedan	1980				41.6%				2.0%	10.4%						
Large Sedan	1981				89.8%				17.1%	15.2%						
Large Sedan	1982				93.1%				20.1%	10.0%						
Large Sedan	1983				99.9%				37.3%	2.4%						
Large Sedan	1984				99.9%				39.0%	0.8%						
Large Sedan	1985	31.9%			100.0%			19.1%	44.9%	0.3%						
Large Sedan	1986	55.9%		0.7%	99.2%			65.4%	15.8%		99.3%		0.7%			
Large Sedan	1987	60.9%		0.5%	99.5%			69.9%	15.2%		98.9%		1.1%			
Large Sedan	1988	58.7%		0.4%	99.6%			76.9%	12.6%		98.9%		1.1%			
Large Sedan	1989	61.9%		0.3%	99.7%			74.8%	22.2%		99.2%		0.8%			
Large Sedan	1990	69.0%		0.2%	99.8%			92.9%	6.0%		99.5%		0.5%			
Large Sedan	1991	59.8%		0.4%	99.6%			83.3%	16.7%		99.1%		0.9%			
Large Sedan	1992	58.5%		0.3%	98.5%			89.2%	10.7%	0.1%	98.1%		1.9%		0.7%	
Large Sedan	1993	64.8%		0.4%	98.2%			89.7%	10.3%		92.0%		8.0%		0.9%	
Large Sedan	1994	69.2%		0.2%	99.0%			99.9%		0.1%	82.9%		17.1%		0.5%	
Large Sedan	1995	71.3%		0.2%	98.3%			100.0%		0.0%	76.5%		23.5%		0.7%	
Large Sedan	1996	67.8%		0.1%	99.3%			100.0%			61.6%		38.4%		1.2%	
Large Sedan	1997	72.4%		0.4%	99.6%			100.0%			64.4%		35.6%		1.8%	
Large Sedan	1998	74.3%		0.1%	99.9%			100.0%			60.1%		39.9%		2.5%	
Large Sedan	1999	72.5%			100.0%			100.0%			49.7%		50.3%		1.8%	
Large Sedan	2000	80.9%	0.0%		100.0%			100.0%			60.2%	1.2%	38.6%	0.0%	7.2%	

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Large Sedan	2001	1416	0.155	25.5	17.1	25.5	20.8	3774	124.8	221	204	9.5	0.932	0.0538	39.4	2607	4912
Large Sedan	2002	1252	0.141	26.0	17.4	25.7	21.2	3767	124.3	218	209	9.3	0.975	0.0554	39.9	2641	4962
Large Sedan	2003	1260	0.148	26.0	17.3	25.7	21.1	3841	124.8	224	208	9.5	0.929	0.0538	40.6	2648	5069
Large Sedan	2004	1185	0.145	26.0	17.2	25.6	21.1	3858	124.7	225	211	9.4	0.944	0.0546	40.6	2643	5073
Large Sedan	2005	1234	0.140	26.4	17.4	25.5	21.2	3933	125.0	225	216	9.5	0.964	0.0545	41.8	2670	5230
Large Sedan	2006	1570	0.180	26.0	17.1	25.2	20.9	4014	124.7	230	238	8.9	1.045	0.0589	42.2	2630	5263
Large Sedan	2007	1174	0.130	26.0	17.1	25.3	21.0	4026	123.8	229	236	9.0	1.036	0.0581	42.5	2623	5256
Large Sedan	2008	1407	0.171	27.3	17.8	26.8	22.0	3966	123.2	213	232	9.0	1.106	0.0581	43.9	2745	5406
Large Sedan	2009	955	0.153	28.4	18.6	27.6	22.8	3883	122.6	200	225	9.0	1.146	0.0576	44.6	2833	5461
Large Sedan	2010	832	0.119	28.3	18.5	27.4	22.7	3923	122.8	202	232	8.9	1.166	0.0587	44.8	2827	5501
Large Sedan	2011	1041	0.150	29.9	19.5	29.6	24.2	3868	122.1	196	235	8.7	1.231	0.0603	47.0	2999	5738
Large Sedan	2012	832	0.098	30.0	19.4	29.6	24.2	3889	122.9	200	260	8.2	1.316	0.0658	47.2	3016	5797
Small Wagon	1975	477	0.058	22.4	17.4	21.6	19.1	2834		128	87	14.8	0.713	0.0307	27.3		
Small Wagon	1976	345	0.035	23.9	18.7	22.9	20.4	2902		136	86	15.2	0.668	0.0297	29.8		
Small Wagon	1977	385	0.034	25.5	20.2	23.8	21.7	2801	108.0	134	85	14.9	0.685	0.0305	30.8	2404	3317
Small Wagon	1978	361	0.032	24.3	19.2	22.9	20.7	2805	108.0	134	90	14.3	0.709	0.0319	29.5	2291	3176
Small Wagon	1979	310	0.029	25.7	20.3	24.3	21.9	2711	105.1	123	81	15.1	0.684	0.0295	29.8	2335	3135
Small Wagon	1980	310	0.033	28.6	22.6	27.0	24.4	2591	108.2	113	75	15.4	0.685	0.0289	32.0	2702	3463
Small Wagon	1981	418	0.048	30.0	23.6	28.5	25.6	2531	110.6	108	79	14.4	0.755	0.0313	32.6	2858	3601
Small Wagon	1982	382	0.049	30.6	23.9	29.4	26.1	2580	112.2	109	75	15.3	0.698	0.0289	33.8	2951	3789
Small Wagon	1983	531	0.066	32.2	25.3	30.5	27.4	2565	108.2	105	74	15.3	0.713	0.0289	35.3	2986	3817
Small Wagon	1984	461	0.043	31.9	24.9	30.7	27.2	2620	116.5	107	77	15.2	0.719	0.0294	35.9	3206	4180
Small Wagon	1985	496	0.046	32.5	25.4	30.9	27.7	2579	117.7	107	78	15.0	0.727	0.0300	35.9	3296	4227
Small Wagon	1986	349	0.031	31.0	24.2	29.2	26.3	2648	118.4	113	82	14.7	0.730	0.0308	35.1	3162	4151
Small Wagon	1987	361	0.033	30.7	23.8	28.9	25.9	2795	120.0	116	91	14.2	0.788	0.0324	36.5	3153	4379
Small Wagon	1988	253	0.023	31.3	24.3	29.0	26.3	2757	118.7	113	93	13.7	0.829	0.0336	36.4	3149	4318
Small Wagon	1989	159	0.016	31.5	24.2	29.4	26.4	2766	118.6	112	96	13.5	0.862	0.0344	36.6	3155	4341
Small Wagon	1990	160	0.018	29.6	22.4	27.7	24.7	3026	122.2	120	110	12.9	0.920	0.0361	37.5	3048	4579
Small Wagon	1991	209	0.024	30.6	22.8	28.9	25.4	3005	123.3	120	106	13.3	0.880	0.0350	38.3	3176	4728
Small Wagon	1992	143	0.017	30.2	22.3	28.6	25.0	3076	123.7	122	123	12.4	1.017	0.0399	38.6	3135	4777
Small Wagon	1993	302	0.034	32.5	23.7	31.0	26.9	2882	123.0	118	99	13.5	0.842	0.0343	38.9	3343	4787
Small Wagon	1994	206	0.024	32.9	23.6	31.7	27.1	2908	122.9	121	103	13.3	0.848	0.0352	39.6	3383	4874
Small Wagon	1995	198	0.021	33.3	23.9	31.8	27.3	2859	122.1	118	100	13.4	0.844	0.0348	39.2	3374	4785
Small Wagon	1996	90	0.011	31.6	22.5	30.0	25.8	2952	118.0	122	114	12.5	0.928	0.0382	38.2	3081	4509
Small Wagon	1997	149	0.017	32.2	22.7	30.8	26.3	2901	119.5	125	118	11.8	0.943	0.0404	38.2	3174	4564
Small Wagon	1998	98	0.012	32.1	22.3	30.7	26.1	2874	116.9	124	119	11.7	0.959	0.0412	37.6	3080	4395

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
		Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Large Sedan	2001	79.4%	0.1%		100.0%			100.0%			64.0%	2.3%	33.6%	0.1%	9.1%	
Large Sedan	2002	86.7%	0.0%		100.0%			100.0%			62.7%	2.2%	35.1%	0.0%	6.9%	
Large Sedan	2003	77.1%	0.3%		100.0%			100.0%			72.7%	1.7%	25.5%	0.0%	8.9%	
Large Sedan	2004	77.1%	1.3%		100.0%			100.0%			65.9%	1.4%	31.9%	0.8%	10.6%	
Large Sedan	2005	68.6%	3.8%		96.7%	3.2%		100.0%			64.4%	0.9%	34.4%	0.4%	8.8%	
Large Sedan	2006	62.7%	3.8%	0.1%	96.8%	3.0%		100.0%			48.6%	0.9%	50.2%	0.3%	29.2%	
Large Sedan	2007	70.1%	3.9%	0.1%	98.7%	1.1%		100.0%			52.5%	0.2%	47.2%		45.5%	
Large Sedan	2008	72.7%	3.0%	0.6%	99.3%		0.9%	99.1%			37.0%	0.0%	63.0%		57.9%	
Large Sedan	2009	78.4%	2.8%	0.8%	99.2%		1.0%	99.0%			30.4%	0.1%	69.5%		82.4%	
Large Sedan	2010	70.5%	5.0%	0.5%	99.5%		3.1%	96.9%			26.8%	0.0%	73.2%		77.8%	0.2%
Large Sedan	2011	80.6%	3.8%	0.5%	99.5%		32.2%	67.8%			26.0%	0.0%	73.9%		90.9%	0.1%
Large Sedan	2012	74.8%	5.2%	1.3%	98.7%		42.7%	57.1%		0.1%	5.7%	0.0%	94.3%		99.4%	0.5%
Small Wagon	1975	13.3%		48.6%				0.8%								
Small Wagon	1976	12.2%		42.8%				3.2%								
Small Wagon	1977	23.3%		52.9%				6.4%		0.6%						
Small Wagon	1978	23.0%		55.1%	1.2%			6.9%								
Small Wagon	1979	13.3%	12.1%	57.0%	2.3%			1.0%								
Small Wagon	1980	24.4%	9.8%	64.5%	7.4%			1.1%		6.3%						
Small Wagon	1981	57.9%	8.0%	62.0%	8.1%			4.0%		2.2%						
Small Wagon	1982	68.3%	8.9%	54.0%	19.4%			4.8%	0.7%	1.2%						
Small Wagon	1983	55.4%	39.3%	51.0%	23.7%			3.7%	17.0%	0.3%						
Small Wagon	1984	81.4%	15.6%	43.7%	39.2%			5.1%	32.2%	1.6%						
Small Wagon	1985	60.0%	39.6%	42.7%	42.2%			6.2%	15.4%	0.5%						
Small Wagon	1986	78.4%	20.7%	43.3%	29.0%			6.8%	24.3%	0.8%	100.0%					
Small Wagon	1987	76.6%	23.4%	34.4%	41.0%			29.2%	42.6%		78.8%	4.9%	16.3%			
Small Wagon	1988	80.2%	19.8%	37.8%	34.6%			30.6%	62.8%		80.5%	0.6%	18.9%			
Small Wagon	1989	89.9%	10.1%	26.6%	51.8%			41.0%	48.8%		59.8%	3.2%	36.9%			
Small Wagon	1990	68.3%	31.7%	30.6%	58.8%			59.4%	40.6%		35.5%		64.5%			
Small Wagon	1991	79.1%	20.9%	24.4%	74.1%			80.0%	20.0%		51.4%		48.6%			
Small Wagon	1992	73.0%	25.5%	30.9%	68.2%			95.3%	4.7%		54.7%		45.3%		1.4%	
Small Wagon	1993	83.2%	16.2%	28.9%	70.6%			95.8%	4.2%		73.5%		26.5%		0.5%	
Small Wagon	1994	88.6%	10.6%	27.6%	72.1%			97.8%	2.2%		79.2%		20.8%		3.5%	
Small Wagon	1995	92.8%	4.6%	23.8%	76.2%			100.0%			74.3%		25.7%		4.5%	
Small Wagon	1996	84.5%	11.2%	20.8%	79.2%			100.0%			48.9%		51.1%		4.5%	
Small Wagon	1997	82.9%	14.4%	19.6%	80.4%			100.0%			59.3%		40.7%		3.0%	
Small Wagon	1998	78.9%	18.3%	18.8%	81.2%			100.0%			50.9%		45.6%	3.5%	3.5%	

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Small Wagon	1999	78	0.009	31.5	21.8	30.1	25.6	2923	117.9	125	126	11.3	1.004	0.0428	37.4	3047	4415
Small Wagon	2000	68	0.007	29.2	20.0	28.2	23.7	3107	119.7	127	143	10.7	1.129	0.0459	36.9	2861	4415
Small Wagon	2001	212	0.023	27.3	19.0	25.4	22.0	3470	119.6	145	148	11.3	1.022	0.0426	38.2	2640	4571
Small Wagon	2002	236	0.026	26.1	18.0	24.4	21.1	3504	118.2	145	156	11.0	1.085	0.0445	37.1	2505	4385
Small Wagon	2003	338	0.040	30.2	20.8	27.1	23.9	3262	115.2	127	146	11.0	1.162	0.0448	39.6	2813	4558
Small Wagon	2004	300	0.037	31.4	21.6	27.7	24.7	3235	117.5	126	166	10.1	1.298	0.0506	40.1	2943	4719
Small Wagon	2005	365	0.041	32.4	22.2	28.4	25.3	3160	115.9	122	156	10.4	1.268	0.0487	40.3	2984	4671
Small Wagon	2006	493	0.056	31.4	21.3	27.8	24.6	3255	118.4	127	160	10.5	1.244	0.0486	40.1	2940	4755
Small Wagon	2007	387	0.043	31.7	21.5	28.2	24.9	3263	111.7	127	160	10.4	1.248	0.0485	40.7	2834	4566
Small Wagon	2008	411	0.050	32.3	21.9	28.7	25.3	3295	114.0	129	160	10.5	1.231	0.0480	41.9	2935	4797
Small Wagon	2009	429	0.069	33.6	22.8	29.5	26.2	3260	114.2	125	150	10.7	1.208	0.0459	42.9	3026	4904
Small Wagon	2010	447	0.064	34.1	23.2	29.7	26.5	3268	117.6	125	150	10.7	1.200	0.0455	43.6	3168	5141
Small Wagon	2011	359	0.052	34.9	23.9	30.1	27.1	3251	114.7	121	157	10.2	1.308	0.0480	44.3	3139	5063
Small Wagon	2012	486	0.057	35.7	24.4	30.4	27.5	3146	117.4	117	154	10.2	1.319	0.0486	43.6	3256	5103
Midsized Wagon	1975	289	0.035	13.2	10.2	12.9	11.3	4791		361	162	13.8	0.473	0.0338	27.4		
Midsized Wagon	1976	485	0.050	16.0	12.6	15.1	13.6	4555		315	142	14.8	0.458	0.0311	31.2		
Midsized Wagon	1977	548	0.048	16.3	12.9	15.3	13.9	4410	143.6	297	135	15.1	0.459	0.0305	30.7	2015	4417
Midsized Wagon	1978	503	0.045	18.6	14.6	17.6	15.8	3836	140.0	258	123	14.4	0.484	0.0320	30.5	2240	4266
Midsized Wagon	1979	482	0.045	19.1	15.2	17.9	16.3	3758	139.7	249	118	14.7	0.480	0.0313	30.7	2295	4293
Midsized Wagon	1980	257	0.027	21.1	16.5	20.1	18.0	3535	139.7	228	107	15.0	0.482	0.0304	31.9	2542	4455
Midsized Wagon	1981	272	0.031	23.1	18.1	21.8	19.6	3285	136.2	193	103	14.5	0.562	0.0316	32.4	2714	4417
Midsized Wagon	1982	284	0.036	23.7	18.5	22.6	20.2	3384	136.1	205	108	14.3	0.551	0.0320	34.3	2781	4669
Midsized Wagon	1983	276	0.034	24.4	19.1	23.3	20.8	3348	136.2	200	109	14.1	0.568	0.0325	35.0	2869	4759
Midsized Wagon	1984	365	0.034	25.0	19.4	24.2	21.3	3298	135.9	172	107	14.1	0.633	0.0324	35.3	2922	4793
Midsized Wagon	1985	342	0.031	25.2	19.4	24.6	21.5	3356	134.8	170	112	13.9	0.679	0.0334	36.2	2909	4876
Midsized Wagon	1986	409	0.037	26.0	19.8	25.7	22.1	3355	137.8	162	115	13.6	0.718	0.0342	37.1	3056	5116
Midsized Wagon	1987	359	0.033	25.6	19.3	25.6	21.8	3434	140.2	173	125	13.0	0.735	0.0363	37.4	3060	5246
Midsized Wagon	1988	285	0.026	26.2	19.4	26.5	22.2	3378	139.4	171	126	12.7	0.743	0.0372	37.7	3114	5250
Midsized Wagon	1989	239	0.024	25.6	18.8	25.9	21.7	3436	139.9	176	132	12.4	0.765	0.0383	37.3	3038	5218
Midsized Wagon	1990	184	0.021	25.3	18.3	25.9	21.3	3499	141.6	181	139	12.0	0.782	0.0397	37.4	3031	5299
Midsized Wagon	1991	122	0.014	25.9	18.6	26.4	21.8	3506	142.3	181	140	12.0	0.794	0.0401	38.3	3112	5452
Midsized Wagon	1992	137	0.016	26.2	18.6	26.9	21.9	3504	142.6	188	143	11.8	0.777	0.0408	38.6	3143	5503
Midsized Wagon	1993	166	0.019	26.2	18.7	26.6	21.9	3498	137.7	188	144	11.7	0.790	0.0411	38.5	3029	5297
Midsized Wagon	1994	138	0.016	26.0	18.4	26.4	21.7	3533	137.4	180	151	11.4	0.863	0.0428	38.4	2988	5275
Midsized Wagon	1995	176	0.018	26.6	18.8	26.6	22.1	3482	135.9	167	149	11.4	0.915	0.0426	38.5	3008	5236
Midsized Wagon	1996	169	0.021	26.3	18.5	25.8	21.7	3661	136.9	161	154	11.6	0.965	0.0422	39.8	2983	5459

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
		Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Small Wagon	1999	71.8%	22.8%	20.1%	77.6%			100.0%			36.8%		58.7%	4.4%	16.3%	
Small Wagon	2000	71.5%	17.9%	15.2%	78.0%			100.0%			0.8%		95.8%	3.4%	43.1%	
Small Wagon	2001	92.6%	5.1%	14.9%	84.5%			100.0%			2.6%		95.2%	2.2%	4.1%	
Small Wagon	2002	82.0%	14.9%	19.6%	79.8%			99.1%		0.9%	4.7%	1.6%	91.5%	2.2%	2.2%	
Small Wagon	2003	86.2%	11.7%	16.6%	83.4%			98.0%		2.0%	3.8%	1.1%	93.2%	1.9%	48.3%	
Small Wagon	2004	85.7%	13.4%	15.7%	84.3%			98.8%		1.2%	2.5%	0.9%	95.0%	1.6%	51.5%	
Small Wagon	2005	89.0%	10.7%	15.5%	84.5%			98.9%		1.1%	20.9%	0.6%	77.9%	0.6%	60.4%	
Small Wagon	2006	90.8%	8.8%	11.9%	88.1%			100.0%			10.4%		89.6%	0.1%	55.5%	
Small Wagon	2007	90.1%	9.5%	11.1%	88.9%			100.0%			8.4%		91.5%	0.1%	49.4%	
Small Wagon	2008	86.9%	12.9%	15.8%	84.2%		2.0%	98.0%					99.9%	0.1%	51.5%	
Small Wagon	2009	86.6%	13.3%	13.0%	82.9%	4.0%	2.3%	95.3%		2.4%			100.0%		84.9%	
Small Wagon	2010	88.4%	10.3%	10.3%	68.5%	16.5%	2.2%	92.3%		5.4%			100.0%		92.4%	
Small Wagon	2011	80.6%	18.3%	13.0%	60.2%	26.8%	13.9%	79.2%		6.9%	0.1%		99.9%		90.9%	
Small Wagon	2012	82.2%	16.2%	12.5%	59.9%	23.2%	19.7%	75.5%		4.8%	0.1%		99.9%		93.3%	
Midsize Wagon	1975			4.0%				7.6%		0.2%						
Midsize Wagon	1976			7.1%				3.4%		0.1%						
Midsize Wagon	1977			4.6%				3.5%		0.3%						
Midsize Wagon	1978			5.3%	17.2%			3.0%		0.3%						
Midsize Wagon	1979			5.3%	9.1%			2.5%		2.5%						
Midsize Wagon	1980			9.9%	43.8%			4.3%		5.9%						
Midsize Wagon	1981	35.6%		12.8%	28.5%			6.9%		5.9%						
Midsize Wagon	1982	28.2%		7.4%	62.6%			5.7%		6.3%						
Midsize Wagon	1983	32.8%		6.2%	50.2%			7.9%		2.3%						
Midsize Wagon	1984	69.9%		5.4%	62.5%			10.4%	20.3%	2.5%						
Midsize Wagon	1985	69.5%	4.5%	5.9%	64.7%			25.7%	30.5%	1.8%						
Midsize Wagon	1986	82.2%	2.1%	9.1%	71.0%			51.3%	28.0%	0.2%	100.0%					
Midsize Wagon	1987	83.9%	0.1%	4.4%	83.6%			71.7%	22.8%	0.8%	100.0%					
Midsize Wagon	1988	87.7%	0.7%	3.8%	87.2%			70.2%	29.8%		100.0%					
Midsize Wagon	1989	77.5%	8.2%	7.1%	80.7%			87.7%	12.3%		99.0%		1.0%			
Midsize Wagon	1990	81.1%	0.4%	1.7%	87.9%			98.5%	1.5%		96.6%		3.4%			
Midsize Wagon	1991	79.6%	1.3%	2.4%	85.6%			99.3%	0.7%		96.4%		3.6%			
Midsize Wagon	1992	80.8%	0.6%	1.7%	88.9%			99.7%	0.3%		89.7%		10.3%			
Midsize Wagon	1993	87.0%	0.6%	1.8%	91.2%			100.0%			88.4%		11.6%			
Midsize Wagon	1994	89.0%	0.4%	1.6%	94.0%			100.0%			79.9%		20.1%		6.2%	
Midsize Wagon	1995	64.8%	27.8%	10.1%	86.7%			100.0%			49.2%		50.8%		6.1%	
Midsize Wagon	1996	61.0%	39.0%	12.9%	87.1%			99.2%		0.8%	36.5%		63.5%		6.8%	

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Midsize Wagon	1997	149	0.017	26.3	18.5	25.5	21.6	3666	136.5	160	158	11.3	1.001	0.0434	39.6	2949	5405
Midsize Wagon	1998	153	0.018	26.2	18.5	25.0	21.5	3669	135.3	155	169	10.7	1.097	0.0461	39.4	2910	5329
Midsize Wagon	1999	181	0.020	26.3	18.3	25.4	21.5	3691	136.4	157	169	10.8	1.087	0.0457	39.7	2941	5421
Midsize Wagon	2000	234	0.024	27.3	18.9	25.7	22.1	3572	134.0	153	162	11.0	1.060	0.0452	39.5	2983	5295
Midsize Wagon	2001	236	0.026	26.6	18.5	24.8	21.5	3775	133.6	155	176	10.7	1.139	0.0463	40.7	2905	5435
Midsize Wagon	2002	208	0.023	27.4	18.9	25.4	22.0	3732	133.6	153	172	10.7	1.136	0.0460	41.0	2954	5478
Midsize Wagon	2003	171	0.020	27.2	18.6	25.4	21.9	3745	133.5	151	174	10.7	1.157	0.0463	40.9	2937	5462
Midsize Wagon	2004	158	0.019	26.4	17.9	24.7	21.2	3860	135.0	158	189	10.3	1.208	0.0489	41.0	2878	5531
Midsize Wagon	2005	238	0.027	26.0	17.4	24.4	20.8	3839	133.3	183	213	9.3	1.195	0.0547	40.0	2810	5338
Midsize Wagon	2006	220	0.025	26.4	17.7	24.7	21.1	3827	135.6	183	221	9.1	1.221	0.0570	40.4	2884	5481
Midsize Wagon	2007	150	0.017	27.3	18.4	25.4	21.8	3727	135.4	161	195	9.8	1.223	0.0518	40.7	2976	5511
Midsize Wagon	2008	136	0.016	26.7	17.9	25.0	21.4	3845	134.6	165	195	10.0	1.185	0.0504	41.1	2895	5531
Midsize Wagon	2009	64	0.010	28.1	19.0	25.5	22.3	3653	133.7	153	186	9.9	1.211	0.0505	40.6	2989	5433
Midsize Wagon	2010	8	0.001	28.6	18.9	27.1	22.8	3814	135.1	154	223	8.9	1.467	0.0580	43.6	3113	5881
Midsize Wagon	2011	3	0.001	24.7	16.6	23.4	19.9	4469	135.6	208	268	8.6	1.296	0.0600	44.5	2701	6028
Midsize Wagon	2012	38	0.004	56.6	41.6	39.5	40.4	3529	131.6	113	105	10.2	0.907	0.0293	72.0	5386	9469
Large Wagon	1975	197	0.024	11.9	9.3	11.6	10.2	5453		410	181	14.0	0.441	0.0333	27.9		
Large Wagon	1976	207	0.021	13.5	10.6	12.9	11.5	5444		416	185	13.7	0.445	0.0340	31.4		
Large Wagon	1977	341	0.030	15.5	12.2	14.6	13.2	4713	163.1	365	161	13.6	0.442	0.0342	31.4	2185	5113
Large Wagon	1978	293	0.026	15.9	12.4	15.4	13.6	4664	162.4	354	162	13.4	0.460	0.0348	31.8	2216	5161
Large Wagon	1979	275	0.025	16.1	12.8	15.1	13.7	4467	162.5	333	155	13.4	0.465	0.0346	30.7	2240	4996
Large Wagon	1980	102	0.011	19.1	14.7	18.9	16.3	4423	161.5	324	134	15.2	0.418	0.0304	36.9	2690	5953
Large Wagon	1981	108	0.012	19.9	15.0	20.3	17.0	4394	161.4	313	131	15.3	0.424	0.0299	38.2	2797	6154
Large Wagon	1982	146	0.019	19.2	14.4	19.8	16.4	4396	161.3	306	139	14.6	0.456	0.0316	36.5	2677	5877
Large Wagon	1983	130	0.016	19.6	14.7	20.2	16.7	4380	161.6	307	142	14.1	0.465	0.0325	36.8	2714	5940
Large Wagon	1984	176	0.016	19.9	14.9	20.5	17.0	4371	161.7	305	144	13.9	0.472	0.0330	37.3	2760	6028
Large Wagon	1985	146	0.013	20.9	15.6	21.8	17.9	4354	161.7	305	154	13.2	0.504	0.0354	39.0	2894	6299
Large Wagon	1986	120	0.011	22.0	16.2	23.3	18.8	4381	161.4	304	146	13.9	0.479	0.0334	41.3	3040	6656
Large Wagon	1987	88	0.008	22.1	16.3	23.1	18.9	4348	161.8	304	143	14.0	0.470	0.0330	41.0	3052	6634
Large Wagon	1988	75	0.007	22.8	16.8	23.4	19.4	4349	161.7	304	143	14.0	0.470	0.0330	42.1	3132	6808
Large Wagon	1989	63	0.006	22.5	16.5	23.0	19.0	4334	161.8	304	143	13.9	0.471	0.0332	41.3	3082	6672
Large Wagon	1990	31	0.004	22.7	16.5	23.1	19.1	4337	161.6	304	143	13.9	0.471	0.0332	41.5	3092	6702
Large Wagon	1991	34	0.004	22.9	16.3	24.2	19.4	4403	169.1	304	177	11.9	0.581	0.0404	42.6	3274	7208
Large Wagon	1992	27	0.003	22.7	15.9	24.3	19.1	4500	170.3	338	177	12.1	0.526	0.0394	43.1	3261	7338
Large Wagon	1993	19	0.002	22.5	15.6	24.3	19.0	4500	169.3	340	174	12.2	0.513	0.0386	42.7	3214	7232
Large Wagon	1994	16	0.002	22.9	15.9	24.1	19.2	4500	169.2	350	250	9.1	0.714	0.0556	43.3	3254	7322

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
		Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Midsized Wagon	1997	48.5%	51.5%	13.4%	86.6%			99.9%		0.1%	32.4%		67.6%		4.8%	
Midsized Wagon	1998	32.7%	64.2%	13.7%	86.3%			100.0%			12.9%	3.1%	82.4%	1.6%	8.9%	
Midsized Wagon	1999	44.8%	52.0%	12.1%	87.9%			100.0%			16.9%	3.2%	69.8%	10.1%	10.6%	
Midsized Wagon	2000	54.4%	43.3%	9.9%	90.1%			100.0%			25.7%	2.3%	61.3%	10.6%	19.8%	
Midsized Wagon	2001	42.4%	56.5%	8.5%	91.5%			100.0%			11.4%	2.4%	74.0%	12.2%	39.1%	
Midsized Wagon	2002	49.0%	50.3%	8.9%	91.1%			100.0%			7.2%	1.9%	80.0%	10.9%	36.7%	
Midsized Wagon	2003	46.9%	52.7%	9.2%	90.8%			100.0%			7.0%	0.7%	74.1%	18.2%	30.9%	
Midsized Wagon	2004	40.3%	58.2%	7.3%	92.7%			99.4%		0.6%	5.0%	3.7%	76.5%	14.9%	48.6%	
Midsized Wagon	2005	19.9%	49.3%	6.8%	93.2%			98.6%		1.4%	14.8%	1.0%	79.8%	4.4%	31.3%	
Midsized Wagon	2006	19.7%	44.1%	4.8%	95.2%			100.0%			5.9%	0.8%	93.2%		34.1%	
Midsized Wagon	2007	45.4%	42.4%	5.5%	94.5%			100.0%			2.6%		97.4%		28.1%	
Midsized Wagon	2008	28.2%	60.7%	5.5%	94.5%		5.8%	94.2%			3.0%		97.0%		20.0%	
Midsized Wagon	2009	32.9%	67.0%	6.8%	93.2%		4.8%	95.2%					100.0%		13.6%	
Midsized Wagon	2010	78.1%	21.9%	1.3%	61.3%		59.4%	40.6%					100.0%		100.0%	
Midsized Wagon	2011	3.1%	96.9%		100.0%		10.5%	89.5%					100.0%		100.0%	
Midsized Wagon	2012	97.2%	2.6%		3.3%	96.7%	2.8%	97.2%					100.0%		100.0%	96.7%
Large Wagon	1975															
Large Wagon	1976															
Large Wagon	1977															
Large Wagon	1978									1.4%						
Large Wagon	1979															
Large Wagon	1980				74.0%					26.7%						
Large Wagon	1981				100.0%				0.2%	25.2%						
Large Wagon	1982				100.0%					11.0%						
Large Wagon	1983				100.0%				24.1%	4.6%						
Large Wagon	1984				100.0%				25.8%	1.5%						
Large Wagon	1985				100.0%				29.2%	0.4%						
Large Wagon	1986				100.0%			23.7%			100.0%					
Large Wagon	1987				100.0%			30.3%			100.0%					
Large Wagon	1988				100.0%			30.2%			100.0%					
Large Wagon	1989				100.0%			33.1%			100.0%					
Large Wagon	1990				100.0%			32.7%			100.0%					
Large Wagon	1991				100.0%			19.5%	80.5%		100.0%					
Large Wagon	1992				100.0%				100.0%		100.0%					
Large Wagon	1993				100.0%				100.0%		100.0%					
Large Wagon	1994				100.0%			100.0%			100.0%					

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Large Wagon	1995	10	0.001	22.8	15.8	23.9	19.1	4500	169.3	350	250	9.1	0.714	0.0556	43.0	3233	7275
Large Wagon	1996	9	0.001	23.2	15.9	24.5	19.4	4500	170.2	350	260	8.9	0.743	0.0578	43.6	3299	7422
Large Wagon	1997																
Large Wagon	1998																
Large Wagon	1999																
Large Wagon	2000																
Large Wagon	2001																
Large Wagon	2002																
Large Wagon	2003																
Large Wagon	2004	98	0.012	22.0	14.9	20.9	17.8	4769	165.0	215	249	9.6	1.158	0.0524	42.4	2936	6996
Large Wagon	2005	118	0.013	22.2	14.9	21.1	17.9	4791	165.0	217	244	9.8	1.125	0.0510	42.9	2958	7078
Large Wagon	2006	102	0.012	21.9	14.8	20.7	17.7	4806	164.4	219	254	9.5	1.165	0.0531	42.4	2911	6969
Large Wagon	2007	73	0.008	21.9	14.5	21.6	17.9	4785	159.2	237	247	9.7	1.048	0.0519	42.8	2849	6811
Large Wagon	2008	23	0.003	21.8	14.6	21.0	17.7	5017	160.1	227	256	9.6	1.135	0.0512	44.4	2837	7108
Large Wagon	2009	3	0.000	21.4	14.8	19.5	17.2	5500	161.7	209	261	10.0	1.246	0.0475	47.4	2787	7664
Large Wagon	2010																
Large Wagon	2011																
Large Wagon	2012																
Small Non-Truck SUV	1975	6	0.001	12.0	9.0	12.2	10.2	4000		257	110	15.7	0.428	0.0275	20.5		
Small Non-Truck SUV	1976	7	0.001	10.7	8.0	11.3	9.2	4000		258	125	14.2	0.484	0.0313	18.4		
Small Non-Truck SUV	1977	15	0.001	13.7	10.7	13.1	11.7	4000	100.0	258	125	14.2	0.484	0.0313	24.0	1202	2403
Small Non-Truck SUV	1978	13	0.001	13.0	9.8	13.1	11.1	4000	100.0	258	125	14.2	0.484	0.0313	22.6	1128	2256
Small Non-Truck SUV	1979	13	0.001	18.0	14.8	15.8	15.3	3127	100.0	162	94	15.0	0.608	0.0297	24.0	1581	2395
Small Non-Truck SUV	1980																
Small Non-Truck SUV	1981																
Small Non-Truck SUV	1982	11	0.001	23.6	20.7	19.1	19.9	2500	100.0	151	84	13.7	0.556	0.0336	24.9	1993	2492
Small Non-Truck SUV	1983	13	0.002	23.2	20.4	18.7	19.6	2500	100.0	151	87	13.3	0.580	0.0350	24.5	1957	2447
Small Non-Truck SUV	1984	3	0.000	22.6	19.7	18.3	19.1	2500	100.0	150	93	12.6	0.620	0.0372	23.8	1906	2383
Small Non-Truck SUV	1985																
Small Non-Truck SUV	1986	0	0.000	23.5	18.0	23.0	20.0	3500	100.0	179	139	11.9	0.777	0.0397	35.0	1998	3497
Small Non-Truck SUV	1987	23	0.002	23.3	17.5	23.3	19.8	3500	100.0	179	139	11.9	0.777	0.0397	34.6	1980	3464
Small Non-Truck SUV	1988	38	0.004	23.0	17.5	22.1	19.4	3500	100.0	179	139	11.9	0.777	0.0397	34.0	1945	3404
Small Non-Truck SUV	1989	34	0.003	23.0	17.5	22.1	19.4	3500	100.0	175	135	12.2	0.772	0.0387	34.0	1940	3395
Small Non-Truck SUV	1990	27	0.003	23.4	17.7	22.1	19.6	3444	100.0	166	128	12.6	0.772	0.0372	33.8	1974	3380
Small Non-Truck SUV	1991	47	0.005	22.8	18.5	19.1	18.8	3241	100.0	136	90	15.9	0.676	0.0279	30.6	1939	3065
Small Non-Truck SUV	1992	48	0.006	23.3	18.7	19.6	19.2	3076	100.0	126	96	14.5	0.772	0.0312	29.8	1996	2979

2012 FE Trends Report
Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
		Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Large Wagon	1995				100.0%			100.0%			100.0%					
Large Wagon	1996				100.0%			100.0%			100.0%					
Large Wagon	1997															
Large Wagon	1998															
Large Wagon	1999															
Large Wagon	2000															
Large Wagon	2001															
Large Wagon	2002															
Large Wagon	2003															
Large Wagon	2004	46.1%	53.9%		100.0%			100.0%					100.0%			
Large Wagon	2005	60.1%	39.9%		100.0%			100.0%			14.5%		85.5%			
Large Wagon	2006	57.8%	42.2%		100.0%			100.0%			0.0%	19.0%	81.0%		14.5%	
Large Wagon	2007	60.0%	40.0%		100.0%			97.9%		2.1%	12.2%	1.6%	86.3%		13.3%	
Large Wagon	2008	31.7%	57.6%		100.0%			95.2%		4.8%			100.0%		41.0%	
Large Wagon	2009		100.0%		100.0%			88.5%		11.5%			100.0%		88.5%	
Large Wagon	2010															
Large Wagon	2011															
Large Wagon	2012															
Small Non-Truck SUV	1975			100.0%												
Small Non-Truck SUV	1976			100.0%												
Small Non-Truck SUV	1977			100.0%												
Small Non-Truck SUV	1978			100.0%												
Small Non-Truck SUV	1979			30.2%												
Small Non-Truck SUV	1980															
Small Non-Truck SUV	1981															
Small Non-Truck SUV	1982															
Small Non-Truck SUV	1983															
Small Non-Truck SUV	1984															
Small Non-Truck SUV	1985															
Small Non-Truck SUV	1986			60.0%	40.0%			100.0%			100.0%					
Small Non-Truck SUV	1987			14.8%	85.2%			100.0%			100.0%					
Small Non-Truck SUV	1988			48.3%	51.7%			100.0%			100.0%					
Small Non-Truck SUV	1989			62.2%	37.8%			95.6%			100.0%					
Small Non-Truck SUV	1990			69.6%	30.4%			82.0%	5.6%		100.0%					
Small Non-Truck SUV	1991			34.2%	65.8%			4.4%	91.7%		100.0%					
Small Non-Truck SUV	1992			44.9%	55.1%			17.5%	76.3%		100.0%					

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Small Non-Truck SUV	1993	48	0.005	23.0	18.4	19.1	18.8	3088	100.0	127	95	14.5	0.760	0.0309	29.2	1953	2924
Small Non-Truck SUV	1994	62	0.007	25.0	19.4	21.5	20.4	3018	100.0	117	100	13.8	0.857	0.0331	30.7	2077	3067
Small Non-Truck SUV	1995	25	0.003	29.2	22.3	25.1	23.7	2617	100.0	95	82	14.4	0.858	0.0314	31.0	2370	3095
Small Non-Truck SUV	1996	41	0.005	29.3	21.8	25.9	23.8	2857	100.0	108	106	12.7	0.981	0.0370	34.1	2383	3406
Small Non-Truck SUV	1997	149	0.017	27.8	20.5	24.8	22.6	3002	100.0	130	127	11.4	0.978	0.0423	33.9	2263	3393
Small Non-Truck SUV	1998	83	0.010	25.5	18.6	22.9	20.7	3380	100.0	144	148	11.3	1.023	0.0432	35.0	2112	3501
Small Non-Truck SUV	1999	66	0.007	27.1	19.8	23.9	21.8	3214	100.0	130	135	11.5	1.037	0.0419	35.1	2208	3514
Small Non-Truck SUV	2000	131	0.013	23.3	17.0	20.5	18.7	3563	100.0	154	147	11.7	0.974	0.0411	33.5	1916	3353
Small Non-Truck SUV	2001	139	0.015	26.9	19.5	23.1	21.4	3271	100.0	126	137	11.5	1.094	0.0423	35.1	2164	3514
Small Non-Truck SUV	2002	110	0.012	26.9	19.2	23.5	21.3	3235	100.0	129	146	10.9	1.138	0.0453	34.9	2179	3485
Small Non-Truck SUV	2003	58	0.007	29.3	20.6	25.6	23.1	3035	100.0	124	144	10.4	1.162	0.0474	35.2	2324	3518
Small Non-Truck SUV	2004	45	0.005	29.9	20.9	25.9	23.4	3054	100.0	148	161	9.5	1.094	0.0530	35.9	2360	3590
Small Non-Truck SUV	2005	41	0.005	30.9	21.3	26.7	24.1	3000	100.0	144	161	9.4	1.118	0.0537	36.1	2407	3611
Small Non-Truck SUV	2006																
Small Non-Truck SUV	2007	2	0.000	22.4	15.5	20.2	17.9	4000	100.0	232	190	10.3	0.819	0.0475	35.7	1787	3575
Small Non-Truck SUV	2008																
Small Non-Truck SUV	2009																
Small Non-Truck SUV	2010																
Small Non-Truck SUV	2011																
Small Non-Truck SUV	2012																
Midsize Non-Truck SUV	1975	4	0.000	15.2	12.5	13.4	12.9	4000		269	117	15.5	0.434	0.0293	26.0		
Midsize Non-Truck SUV	1976	4	0.000	16.8	13.4	15.5	14.2	3963		272	120	15.2	0.437	0.0304	28.4		
Midsize Non-Truck SUV	1977	4	0.000	17.1	13.6	15.8	14.5	4000	125.0	273	122	15.1	0.447	0.0306	29.3	1829	3657
Midsize Non-Truck SUV	1978	3	0.000	17.0	13.6	15.8	14.5	4000	125.0	282	131	14.1	0.465	0.0327	29.1	1819	3637
Midsize Non-Truck SUV	1979	3	0.000	12.6	10.4	11.0	10.7	4000	125.0	301	125	14.4	0.415	0.0312	21.8	1363	2725
Midsize Non-Truck SUV	1980	0	0.000	17.2	13.9	15.5	14.6	4000	125.0	280	122	15.1	0.436	0.0305	29.4	1836	3672
Midsize Non-Truck SUV	1981	0	0.000	17.3	13.7	16.1	14.7	4000	125.0	318	140	13.3	0.440	0.0350	29.4	1835	3670
Midsize Non-Truck SUV	1982	2	0.000	22.0	17.3	20.9	18.8	3461	125.0	207	112	14.0	0.558	0.0330	32.6	2406	4080
Midsize Non-Truck SUV	1983	21	0.003	25.1	19.0	25.4	21.4	3500	125.0	170	109	14.5	0.640	0.0311	37.6	2685	4698
Midsize Non-Truck SUV	1984	52	0.005	22.6	17.4	22.4	19.3	3545	125.0	181	110	14.6	0.615	0.0310	34.5	2445	4312
Midsize Non-Truck SUV	1985	88	0.008	23.5	17.6	24.2	20.1	3469	125.0	171	109	14.4	0.637	0.0314	34.9	2514	4360
Midsize Non-Truck SUV	1986	59	0.005	22.3	17.1	21.7	18.9	3479	125.0	170	121	13.3	0.713	0.0348	33.0	2376	4129
Midsize Non-Truck SUV	1987	72	0.007	22.7	17.0	23.0	19.3	3489	125.0	179	128	12.9	0.715	0.0366	33.8	2422	4224
Midsize Non-Truck SUV	1988	71	0.007	22.6	16.8	22.8	19.2	3492	125.0	210	143	11.9	0.687	0.0409	33.6	2403	4195
Midsize Non-Truck SUV	1989	73	0.007	22.5	16.9	22.1	19.0	3496	125.0	250	153	11.1	0.619	0.0439	33.3	2380	4160
Midsize Non-Truck SUV	1990	38	0.004	21.8	16.3	21.1	18.3	3570	125.0	239	158	11.1	0.674	0.0444	32.8	2299	4097

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
		Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Small Non-Truck SUV	1993			38.7%	61.3%			12.2%	81.0%		100.0%					
Small Non-Truck SUV	1994			37.2%	22.1%			60.6%	39.4%		90.8%		9.2%			
Small Non-Truck SUV	1995			64.8%	35.2%			20.6%	79.4%		100.0%					
Small Non-Truck SUV	1996	43.3%		39.9%	60.1%			100.0%					100.0%			
Small Non-Truck SUV	1997	49.2%		39.6%	45.7%			100.0%					100.0%			
Small Non-Truck SUV	1998	33.3%		34.3%	65.7%			100.0%					100.0%			
Small Non-Truck SUV	1999	41.5%		23.0%	77.0%			100.0%			14.8%		85.2%			
Small Non-Truck SUV	2000	16.3%		16.3%	83.7%			100.0%			48.3%		51.7%			
Small Non-Truck SUV	2001	29.2%		13.5%	86.5%			100.0%			48.6%		51.4%		29.2%	
Small Non-Truck SUV	2002	64.8%		10.8%	88.8%	0.3%		100.0%			17.8%		82.2%		47.0%	
Small Non-Truck SUV	2003	93.5%		8.4%	91.4%	0.1%		100.0%			28.8%		71.2%		70.7%	
Small Non-Truck SUV	2004	89.3%		4.9%	95.1%			100.0%					100.0%		89.3%	
Small Non-Truck SUV	2005	100.0%		5.3%	94.7%			100.0%					100.0%		100.0%	
Small Non-Truck SUV	2006															
Small Non-Truck SUV	2007			100.0%				100.0%			100.0%					
Small Non-Truck SUV	2008															
Small Non-Truck SUV	2009															
Small Non-Truck SUV	2010															
Small Non-Truck SUV	2011															
Small Non-Truck SUV	2012															
Midsize Non-Truck SUV	1975			18.0%												
Midsize Non-Truck SUV	1976			16.3%												
Midsize Non-Truck SUV	1977			14.8%												
Midsize Non-Truck SUV	1978			14.0%												
Midsize Non-Truck SUV	1979			76.1%	23.9%											
Midsize Non-Truck SUV	1980			3.9%	86.8%											
Midsize Non-Truck SUV	1981				100.0%											
Midsize Non-Truck SUV	1982			33.9%	66.1%											
Midsize Non-Truck SUV	1983			30.8%	69.2%											
Midsize Non-Truck SUV	1984			20.6%	68.6%											
Midsize Non-Truck SUV	1985			15.9%	84.1%				5.3%							
Midsize Non-Truck SUV	1986			18.0%	82.0%				86.8%	0.0%	100.0%					
Midsize Non-Truck SUV	1987			14.1%	85.9%			11.4%	88.6%		100.0%					
Midsize Non-Truck SUV	1988			11.7%	88.3%			20.1%	79.9%		100.0%					
Midsize Non-Truck SUV	1989			11.1%	88.9%			20.8%	79.2%		100.0%					
Midsize Non-Truck SUV	1990			11.0%	85.9%			50.1%	49.9%		100.0%					

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Midsize Non-Truck SUV	1991	177	0.020	21.5	16.0	21.0	18.0	3863	125.0	236	159	11.7	0.680	0.0413	34.9	2264	4366
Midsize Non-Truck SUV	1992	194	0.023	21.0	15.5	20.3	17.5	3870	125.0	231	167	11.3	0.724	0.0433	34.1	2201	4256
Midsize Non-Truck SUV	1993	424	0.048	20.2	14.7	19.7	16.9	3934	125.0	251	188	10.4	0.756	0.0479	33.3	2120	4166
Midsize Non-Truck SUV	1994	270	0.031	21.2	15.5	20.3	17.6	3900	125.0	230	178	10.8	0.776	0.0457	34.3	2202	4291
Midsize Non-Truck SUV	1995	195	0.020	20.8	15.1	20.0	17.3	3913	125.0	229	176	11.0	0.773	0.0452	33.9	2165	4238
Midsize Non-Truck SUV	1996	246	0.030	21.5	15.5	20.5	17.8	3854	125.0	233	177	10.7	0.772	0.0461	34.3	2229	4293
Midsize Non-Truck SUV	1997	212	0.024	21.2	15.3	20.0	17.4	3935	125.0	231	182	10.7	0.802	0.0463	34.4	2187	4302
Midsize Non-Truck SUV	1998	371	0.044	21.7	15.5	20.4	17.8	3924	125.0	235	173	11.1	0.752	0.0441	35.0	2231	4369
Midsize Non-Truck SUV	1999	418	0.047	22.2	15.8	20.6	18.1	3927	125.0	223	175	11.0	0.818	0.0446	35.6	2271	4450
Midsize Non-Truck SUV	2000	482	0.049	21.7	15.4	20.2	17.7	3952	125.0	227	181	10.8	0.826	0.0458	35.1	2221	4382
Midsize Non-Truck SUV	2001	560	0.061	22.8	16.0	21.2	18.4	3869	125.0	207	188	10.3	0.934	0.0487	35.9	2326	4489
Midsize Non-Truck SUV	2002	454	0.051	23.2	16.2	21.5	18.8	3850	125.0	195	187	10.3	0.978	0.0486	36.4	2374	4549
Midsize Non-Truck SUV	2003	479	0.056	24.4	16.9	22.5	19.6	3776	125.0	186	181	10.4	0.987	0.0479	37.3	2479	4659
Midsize Non-Truck SUV	2004	501	0.061	24.9	17.0	23.0	19.9	3858	125.0	190	195	10.0	1.035	0.0506	38.7	2513	4834
Midsize Non-Truck SUV	2005	478	0.054	25.7	17.6	23.1	20.4	3776	125.0	177	189	10.1	1.073	0.0498	38.6	2567	4826
Midsize Non-Truck SUV	2006	494	0.057	26.4	18.1	23.8	21.0	3765	125.0	171	185	10.2	1.089	0.0490	39.7	2650	4961
Midsize Non-Truck SUV	2007	610	0.068	26.8	18.3	24.2	21.2	3799	125.0	172	198	9.9	1.155	0.0516	40.5	2683	5066
Midsize Non-Truck SUV	2008	673	0.082	27.6	18.8	24.8	21.8	3758	125.0	166	192	9.9	1.156	0.0509	41.3	2759	5163
Midsize Non-Truck SUV	2009	457	0.073	28.8	19.5	26.0	22.7	3729	125.0	166	197	9.7	1.184	0.0526	42.7	2871	5338
Midsize Non-Truck SUV	2010	539	0.077	29.8	20.2	26.8	23.5	3748	125.1	167	203	9.4	1.208	0.0539	44.2	2962	5531
Midsize Non-Truck SUV	2011	740	0.107	30.6	20.6	27.6	24.1	3698	125.1	160	193	9.8	1.199	0.0519	44.7	3030	5588
Midsize Non-Truck SUV	2012	533	0.063	30.9	20.8	27.9	24.3	3736	125.1	162	200	9.6	1.230	0.0533	45.6	3063	5703
Large Non-Truck SUV	1975																
Large Non-Truck SUV	1976																
Large Non-Truck SUV	1977																
Large Non-Truck SUV	1978																
Large Non-Truck SUV	1979																
Large Non-Truck SUV	1980																
Large Non-Truck SUV	1981																
Large Non-Truck SUV	1982																
Large Non-Truck SUV	1983																
Large Non-Truck SUV	1984																
Large Non-Truck SUV	1985																
Large Non-Truck SUV	1986																
Large Non-Truck SUV	1987																
Large Non-Truck SUV	1988																

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
		Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Midsize Non-Truck SUV	1991			19.0%	80.9%			61.1%	38.9%		100.0%					
Midsize Non-Truck SUV	1992			19.5%	80.5%			81.1%	18.9%		100.0%					
Midsize Non-Truck SUV	1993			7.7%	92.3%			99.5%	0.5%		100.0%					
Midsize Non-Truck SUV	1994	3.2%		17.9%	82.1%			99.4%	0.6%		88.0%		12.0%			
Midsize Non-Truck SUV	1995	0.2%		11.3%	88.7%			100.0%			78.4%		21.6%			
Midsize Non-Truck SUV	1996			11.3%	88.7%			100.0%			79.0%		21.0%			
Midsize Non-Truck SUV	1997			11.6%	88.4%			100.0%			77.4%		22.6%			
Midsize Non-Truck SUV	1998	5.2%		5.9%	94.1%			100.0%			86.8%		13.2%			
Midsize Non-Truck SUV	1999	11.4%		6.2%	93.8%			100.0%			68.5%		31.5%		5.3%	
Midsize Non-Truck SUV	2000	11.9%		2.9%	97.1%			100.0%			70.5%		29.5%		6.4%	
Midsize Non-Truck SUV	2001	42.0%		4.7%	95.3%			100.0%			56.8%		43.2%		6.0%	
Midsize Non-Truck SUV	2002	49.5%		7.3%	92.6%	0.2%		100.0%			26.7%		73.3%		12.8%	
Midsize Non-Truck SUV	2003	62.9%		7.5%	87.2%	5.3%		100.0%			34.8%		65.2%		8.9%	
Midsize Non-Truck SUV	2004	76.2%		6.9%	85.1%	8.0%		100.0%			22.4%		77.6%		32.5%	
Midsize Non-Truck SUV	2005	86.5%		5.8%	93.4%	0.9%		100.0%			9.6%		90.4%		23.7%	0.9%
Midsize Non-Truck SUV	2006	83.4%		4.7%	93.6%	1.6%		100.0%			12.9%		87.1%		38.0%	1.6%
Midsize Non-Truck SUV	2007	87.0%		2.1%	96.7%	1.2%		100.0%			3.4%		96.6%		61.0%	2.4%
Midsize Non-Truck SUV	2008	91.6%		1.0%	91.2%	7.8%	3.0%	97.0%					100.0%		69.9%	3.2%
Midsize Non-Truck SUV	2009	97.0%		0.8%	89.7%	9.6%	1.7%	98.3%					100.0%		80.9%	3.6%
Midsize Non-Truck SUV	2010	95.9%		0.4%	89.5%	10.1%	0.9%	99.1%					100.0%		99.9%	2.3%
Midsize Non-Truck SUV	2011	97.2%	0.7%	0.8%	88.8%	10.3%	0.4%	99.6%					100.0%		99.7%	0.9%
Midsize Non-Truck SUV	2012	97.5%		1.0%	89.1%	9.9%	9.7%	90.3%					100.0%		100.0%	1.3%
Large Non-Truck SUV	1975															
Large Non-Truck SUV	1976															
Large Non-Truck SUV	1977															
Large Non-Truck SUV	1978															
Large Non-Truck SUV	1979															
Large Non-Truck SUV	1980															
Large Non-Truck SUV	1981															
Large Non-Truck SUV	1982															
Large Non-Truck SUV	1983															
Large Non-Truck SUV	1984															
Large Non-Truck SUV	1985															
Large Non-Truck SUV	1986															
Large Non-Truck SUV	1987															
Large Non-Truck SUV	1988															

2012 FE Trends Report

Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Large Non-Truck SUV	1989																
Large Non-Truck SUV	1990																
Large Non-Truck SUV	1991																
Large Non-Truck SUV	1992																
Large Non-Truck SUV	1993																
Large Non-Truck SUV	1994																
Large Non-Truck SUV	1995																
Large Non-Truck SUV	1996																
Large Non-Truck SUV	1997																
Large Non-Truck SUV	1998																
Large Non-Truck SUV	1999	4	0.001	22.3	16.0	20.6	18.2	4000	150.0	244	160	11.9	0.656	0.0400	36.3	2724	5447
Large Non-Truck SUV	2000	4	0.000	21.3	15.0	19.9	17.3	4000	150.0	244	160	11.9	0.656	0.0400	34.7	2602	5203
Large Non-Truck SUV	2001	44	0.005	21.0	14.9	19.2	17.0	4000	150.0	233	204	9.8	0.884	0.0510	34.0	2547	5093
Large Non-Truck SUV	2002	38	0.004	25.6	17.2	25.2	20.9	4000	150.0	204	185	10.6	0.907	0.0463	41.8	3131	6263
Large Non-Truck SUV	2003	38	0.004	24.3	17.1	21.7	19.4	4000	150.0	210	239	8.8	1.129	0.0596	39.1	2931	5862
Large Non-Truck SUV	2004	93	0.011	23.1	15.5	22.4	18.8	4210	150.0	216	225	9.7	1.034	0.0531	39.7	2840	5949
Large Non-Truck SUV	2005	294	0.033	24.4	16.4	22.9	19.6	4080	150.0	207	202	10.1	0.974	0.0494	39.9	2944	5988
Large Non-Truck SUV	2006	257	0.029	24.3	16.4	22.9	19.5	4089	150.0	209	205	10.0	0.978	0.0499	40.0	2939	5993
Large Non-Truck SUV	2007	307	0.034	24.3	16.3	23.0	19.6	4205	150.0	212	228	9.4	1.074	0.0541	41.1	2939	6169
Large Non-Truck SUV	2008	251	0.030	24.4	16.3	23.3	19.7	4289	150.0	212	234	9.4	1.101	0.0543	42.2	2958	6328
Large Non-Truck SUV	2009	151	0.024	25.2	17.0	23.4	20.2	4200	150.0	205	235	9.3	1.147	0.0558	42.3	3033	6350
Large Non-Truck SUV	2010	376	0.054	28.1	18.8	26.2	22.4	4238	143.8	178	229	9.5	1.287	0.0537	47.9	3248	6860
Large Non-Truck SUV	2011	466	0.067	28.8	19.1	27.1	22.9	4195	150.0	175	231	9.4	1.314	0.0547	48.6	3488	7287
Large Non-Truck SUV	2012	381	0.045	30.2	19.9	28.2	23.9	4148	149.9	165	217	9.8	1.309	0.0519	50.1	3639	7507

2012 FE Trends Report
Appendix F: Car Fuel Economy Data Stratified by EPA Car Class

Car Type	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
		Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Large Non-Truck SUV	1989															
Large Non-Truck SUV	1990															
Large Non-Truck SUV	1991															
Large Non-Truck SUV	1992															
Large Non-Truck SUV	1993															
Large Non-Truck SUV	1994															
Large Non-Truck SUV	1995															
Large Non-Truck SUV	1996															
Large Non-Truck SUV	1997															
Large Non-Truck SUV	1998															
Large Non-Truck SUV	1999				100.0%			100.0%			100.0%					
Large Non-Truck SUV	2000				100.0%			100.0%			100.0%					
Large Non-Truck SUV	2001			1.0%	99.0%			100.0%			85.2%		14.8%			
Large Non-Truck SUV	2002	100.0%			100.0%			100.0%			100.0%					
Large Non-Truck SUV	2003	61.8%		0.4%	37.8%	61.8%		100.0%					100.0%		76.5%	
Large Non-Truck SUV	2004	47.6%	23.1%	0.3%	99.7%			100.0%			47.6%		52.4%		42.0%	
Large Non-Truck SUV	2005	50.2%	40.1%	0.0%	89.1%	10.9%		100.0%			74.1%		25.9%		23.1%	
Large Non-Truck SUV	2006	66.8%	25.0%	0.0%	88.0%	12.0%		100.0%			13.8%		86.2%		24.6%	
Large Non-Truck SUV	2007	82.7%	13.9%		90.6%	9.4%		100.0%			44.5%		55.5%		19.0%	
Large Non-Truck SUV	2008	74.9%	19.6%		100.0%			100.0%			38.3%		61.7%		20.4%	
Large Non-Truck SUV	2009	77.9%	11.1%		74.6%	25.4%		100.0%			23.6%		76.4%		52.0%	
Large Non-Truck SUV	2010	77.6%	21.6%		94.2%	5.8%	62.4%	37.6%					100.0%		100.0%	
Large Non-Truck SUV	2011	75.4%	23.9%		95.7%	4.3%	70.9%	29.1%					100.0%		100.0%	
Large Non-Truck SUV	2012	72.2%	26.9%		97.0%	3.0%	81.6%	18.4%					100.0%		100.0%	

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix G Fuel Economy Data Stratified by Vehicle Type and Weight Class

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	1750	1975																
Car	1750	1976																
Car	1750	1977																
Car	1750	1978																
Car	1750	1979																
Car	1750	1980																
Car	1750	1981																
Car	1750	1982																
Car	1750	1983																
Car	1750	1984																
Car	1750	1985	37	0.003	57.4	46.7	51.5	48.8	1750	82.6	61	48	15.7	0.787	0.0274	42.8	4037	3533
Car	1750	1986	81	0.005	55.9	45.4	49.4	47.1	1750	84.6	61	46	16.3	0.759	0.0264	42.0	4053	3547
Car	1750	1987	38	0.003	56.8	45.4	50.5	47.6	1750	84.4	61	46	16.2	0.756	0.0264	42.0	4045	3539
Car	1750	1988	55	0.004	51.6	41.2	45.1	43.0	1750	84.6	61	47	16.3	0.766	0.0267	38.3	3698	3236
Car	1750	1989	25	0.002	59.4	46.9	51.4	49.0	1750	90.9	61	49	15.4	0.806	0.0281	42.9	4457	3900
Car	1750	1990	4	0.000	65.3	50.7	56.7	53.4	1750	89.1	61	49	15.5	0.803	0.0280	46.7	4760	4165
Car	1750	1991	4	0.000	65.3	50.2	56.3	53.0	1750	89.1	61	55	14.1	0.902	0.0314	46.4	4725	4134
Car	1750	1992	8	0.001	65.3	49.6	56.0	52.6	1750	89.1	61	55	14.1	0.902	0.0314	46.1	4690	4104
Car	1750	1993	10	0.001	65.3	49.1	55.6	52.2	1750	89.1	61	55	14.1	0.902	0.0314	45.7	4655	4074
Car	1750	1994	8	0.001	65.8	49.3	55.3	52.2	1750	89.1	61	55	14.1	0.902	0.0314	45.7	4653	4071
Car	1750	1995																
Car	1750	1996																
Car	1750	1997																
Car	1750	1998																
Car	1750	1999																
Car	1750	2000																
Car	1750	2001																
Car	1750	2002																
Car	1750	2003																
Car	1750	2004																
Car	1750	2005																
Car	1750	2006																
Car	1750	2007																
Car	1750	2008																
Car	1750	2009																
Car	1750	2010																

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	1750	1975															
Car	1750	1976															
Car	1750	1977															
Car	1750	1978															
Car	1750	1979															
Car	1750	1980															
Car	1750	1981															
Car	1750	1982															
Car	1750	1983															
Car	1750	1984															
Car	1750	1985	100.0%		90.1%												
Car	1750	1986	100.0%		64.7%							100.0%					
Car	1750	1987	100.0%		100.0%							100.0%					
Car	1750	1988	100.0%		59.5%					2.8%		100.0%					
Car	1750	1989	100.0%		100.0%					100.0%		100.0%					
Car	1750	1990	100.0%		100.0%					100.0%		100.0%					
Car	1750	1991	100.0%		100.0%					100.0%		100.0%					
Car	1750	1992	100.0%		100.0%					100.0%		100.0%					
Car	1750	1993	100.0%		100.0%					100.0%		100.0%					
Car	1750	1994	100.0%		100.0%					100.0%		100.0%					
Car	1750	1995															
Car	1750	1996															
Car	1750	1997															
Car	1750	1998															
Car	1750	1999															
Car	1750	2000															
Car	1750	2001															
Car	1750	2002															
Car	1750	2003															
Car	1750	2004															
Car	1750	2005															
Car	1750	2006															
Car	1750	2007															
Car	1750	2008															
Car	1750	2009															
Car	1750	2010															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	1750	2011																
Car	1750	2012																
Car	2000	1975	105	0.010	31.4	24.5	30.1	26.7	2000		83	54	15.9	0.655	0.0272	26.9		
Car	2000	1976	154	0.012	32.6	25.5	31.0	27.8	2000		84	56	15.6	0.670	0.0279	28.0		
Car	2000	1977	157	0.011	36.0	28.2	34.3	30.7	2000	73.7	84	61	14.4	0.739	0.0307	31.4	2307	2307
Car	2000	1978	270	0.019	34.9	27.8	32.5	29.7	2000	80.3	90	62	14.3	0.695	0.0312	30.0	2423	2423
Car	2000	1979	234	0.017	32.0	25.4	29.9	27.2	2000	80.1	88	62	14.3	0.712	0.0312	27.5	2208	2208
Car	2000	1980	280	0.025	33.0	26.1	30.9	28.0	2000	85.7	90	63	14.3	0.696	0.0314	28.4	2434	2434
Car	2000	1981	209	0.020	38.4	30.8	35.0	32.6	2000	86.7	86	64	14.0	0.744	0.0321	33.0	2857	2857
Car	2000	1982	157	0.016	40.3	32.3	36.9	34.2	2000	87.3	86	62	14.5	0.715	0.0308	34.6	3022	3022
Car	2000	1983	94	0.009	43.6	34.9	40.2	37.1	2000	86.0	84	62	14.4	0.728	0.0308	37.4	3216	3216
Car	2000	1984	92	0.007	44.3	35.4	40.8	37.7	2000	73.5	86	67	13.5	0.776	0.0335	38.2	2802	2802
Car	2000	1985	62	0.004	44.4	35.5	40.9	37.7	2000	60.2	89	70	13.3	0.782	0.0348	38.7	2343	2343
Car	2000	1986	58	0.004	36.6	28.4	34.9	31.0	2000	72.3	76	56	15.4	0.750	0.0281	33.0	2253	2253
Car	2000	1987	106	0.007	40.0	31.7	36.2	33.6	2000	79.9	70	55	15.9	0.799	0.0276	35.0	2737	2737
Car	2000	1988	186	0.012	43.6	34.8	38.3	36.4	2000	91.0	77	59	15.0	0.770	0.0293	37.0	3343	3343
Car	2000	1989	135	0.009	43.5	34.7	37.6	36.1	2000	92.4	76	59	15.2	0.782	0.0294	36.8	3360	3360
Car	2000	1990	71	0.006	47.5	36.8	42.2	39.2	2000	92.7	72	58	15.2	0.813	0.0290	39.6	3670	3670
Car	2000	1991	142	0.011	47.1	36.2	41.4	38.6	2000	88.8	67	58	15.3	0.866	0.0288	39.1	3478	3478
Car	2000	1992	120	0.010	47.3	36.2	41.2	38.5	2000	88.8	64	56	15.6	0.886	0.0282	39.0	3465	3465
Car	2000	1993	111	0.008	48.6	36.7	42.3	39.4	2000	91.1	67	58	15.2	0.870	0.0291	39.8	3629	3629
Car	2000	1994	97	0.007	48.9	36.9	41.9	39.3	2000	91.9	62	56	15.7	0.902	0.0281	39.8	3661	3661
Car	2000	1995	33	0.002	53.7	39.7	46.0	42.8	2000	99.9	63	57	15.4	0.900	0.0284	42.8	4278	4278
Car	2000	1996	37	0.003	52.3	38.6	44.4	41.4	2000	99.9	72	60	14.8	0.846	0.0298	41.6	4157	4157
Car	2000	1997	13	0.001	54.4	39.5	46.1	42.8	2000	90.5	61	55	15.7	0.902	0.0275	42.8	3871	3871
Car	2000	1998	12	0.001	53.6	38.1	46.1	42.0	2000	89.7	60	55	15.7	0.917	0.0275	42.0	3765	3765
Car	2000	1999	8	0.001	50.3	35.4	43.5	39.3	2000	88.0	61	55	15.7	0.902	0.0275	39.3	3461	3461
Car	2000	2000	11	0.001	61.6	42.7	51.6	47.1	2000	68.1	61	61	13.2	1.005	0.0306	48.8	3153	3153
Car	2000	2001	2	0.000	75.6	50.8	61.8	56.3	2000	50.0	61	67	11.0	1.098	0.0335	56.3	2817	2817
Car	2000	2002	1	0.000	75.3	50.2	60.7	55.6	2000	50.0	61	67	11.0	1.098	0.0335	55.6	2778	2778
Car	2000	2003	0	0.000	75.1	49.4	60.3	55.0	2000	50.0	61	67	11.0	1.098	0.0335	55.0	2749	2749
Car	2000	2004	0	0.000	73.8	48.6	57.9	53.5	2000	50.0	61	67	11.0	1.098	0.0335	53.5	2673	2673
Car	2000	2005	0	0.000	74.3	48.3	57.7	53.3	2000	50.0	61	73	11.2	1.197	0.0365	53.3	2663	2663
Car	2000	2006	0	0.000	73.8	47.9	57.6	53.0	2000	50.0	61	73	11.0	1.197	0.0365	53.0	2649	2649
Car	2000	2007																
Car	2000	2008	22	0.002	49.5	33.4	40.5	37.1	2000	50.0	61	70	13.3	1.148	0.0350	37.1	1857	1857

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	1750	2011															
Car	1750	2012															
Car	2000	1975	100.0%		88.1%	11.9%											
Car	2000	1976	92.5%		89.7%												
Car	2000	1977	100.0%		87.0%												
Car	2000	1978	100.0%		93.4%	6.6%											
Car	2000	1979	100.0%		78.8%	10.3%											
Car	2000	1980	100.0%		68.5%	8.0%											
Car	2000	1981	82.7%		90.6%												
Car	2000	1982	85.1%		88.3%	2.5%											
Car	2000	1983	91.9%		93.4%				8.1%								
Car	2000	1984	98.7%		96.7%	3.1%			1.3%								
Car	2000	1985	100.0%		94.7%	5.3%			11.9%								
Car	2000	1986	100.0%		100.0%							100.0%					
Car	2000	1987	100.0%		80.5%				6.3%			73.6%	26.4%				
Car	2000	1988	93.9%	6.1%	99.0%				14.0%	0.0%		82.5%	17.5%				
Car	2000	1989	100.0%		65.0%				37.9%	19.3%		91.7%	6.1%	2.1%			
Car	2000	1990	100.0%		89.8%				50.5%	46.9%		97.0%	2.6%	0.4%			
Car	2000	1991	100.0%		68.4%				29.1%	69.2%		98.7%	1.3%				
Car	2000	1992	100.0%		53.4%				13.0%	86.6%		99.6%	0.4%				
Car	2000	1993	100.0%		76.2%				28.7%	71.3%		98.2%	1.8%				
Car	2000	1994	100.0%		52.3%				1.5%	98.5%		98.5%	1.5%				
Car	2000	1995	100.0%		100.0%					100.0%		100.0%					
Car	2000	1996	100.0%		100.0%					100.0%		100.0%					
Car	2000	1997	100.0%		100.0%					100.0%		100.0%					
Car	2000	1998	100.0%		100.0%					100.0%		100.0%					
Car	2000	1999	100.0%		100.0%					100.0%		100.0%					
Car	2000	2000	52.4%		100.0%				52.4%	47.6%		47.6%		52.4%		52.4%	52.4%
Car	2000	2001	100.0%		100.0%				100.0%					100.0%		100.0%	100.0%
Car	2000	2002	100.0%		100.0%				100.0%					100.0%		100.0%	100.0%
Car	2000	2003	100.0%		100.0%				100.0%					100.0%		100.0%	100.0%
Car	2000	2004	100.0%		100.0%				100.0%					100.0%		100.0%	100.0%
Car	2000	2005	100.0%		100.0%				100.0%					100.0%		100.0%	100.0%
Car	2000	2006	100.0%		100.0%				100.0%					100.0%		100.0%	100.0%
Car	2000	2007															
Car	2000	2008							100.0%					100.0%		100.0%	

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	2000	2009	14	0.002	49.5	33.4	40.5	37.1	2000	50.0	61	70	13.3	1.148	0.0350	37.1	1857	1857
Car	2000	2010	3	0.000	49.1	33.3	40.0	36.8	2000	50.0	61	70	13.3	1.148	0.0350	36.8	1841	1841
Car	2000	2011	3	0.000	48.7	33.1	39.5	36.5	2000	50.0	61	70	13.3	1.148	0.0350	36.5	1826	1826
Car	2000	2012	3	0.000	50.3	34.5	38.2	36.5	2000	50.0	61	70	13.3	1.148	0.0350	36.5	1824	1824
Car	2250	1975	375	0.037	28.3	21.6	28.4	24.2	2250		89	66	15.3	0.749	0.0294	27.4		
Car	2250	1976	570	0.046	29.6	23.2	28.2	25.2	2250		91	67	15.3	0.736	0.0296	28.6		
Car	2250	1977	851	0.060	32.1	25.0	30.8	27.3	2250	85.5	90	68	14.8	0.762	0.0303	31.3	2385	2683
Car	2250	1978	887	0.061	31.9	25.2	29.9	27.1	2250	85.6	89	67	15.0	0.758	0.0298	31.3	2394	2694
Car	2250	1979	699	0.050	31.4	24.7	29.6	26.7	2250	88.0	88	66	15.2	0.745	0.0291	30.5	2394	2694
Car	2250	1980	1162	0.103	32.4	25.6	30.4	27.5	2250	89.6	92	67	15.0	0.722	0.0296	31.6	2515	2830
Car	2250	1981	1191	0.113	34.4	27.2	32.4	29.3	2250	91.3	96	68	14.8	0.710	0.0302	33.5	2713	3052
Car	2250	1982	884	0.091	35.6	28.2	33.3	30.3	2250	92.5	94	66	15.0	0.703	0.0294	34.5	2833	3187
Car	2250	1983	985	0.096	36.2	28.6	34.1	30.8	2250	96.4	95	67	14.9	0.709	0.0298	35.1	3003	3379
Car	2250	1984	899	0.064	37.1	29.3	34.8	31.5	2250	97.2	94	68	14.8	0.721	0.0303	36.0	3113	3502
Car	2250	1985	840	0.058	37.5	29.8	34.9	31.9	2250	96.9	94	70	14.4	0.748	0.0312	36.3	3130	3521
Car	2250	1986	745	0.048	38.5	30.6	35.2	32.5	2250	93.1	93	68	14.8	0.737	0.0304	37.0	3068	3452
Car	2250	1987	461	0.031	39.0	30.9	35.3	32.8	2250	89.7	91	69	14.6	0.766	0.0308	37.2	2972	3344
Car	2250	1988	401	0.026	38.9	30.6	35.1	32.6	2250	91.7	90	73	14.0	0.808	0.0325	37.0	3015	3392
Car	2250	1989	280	0.019	38.7	30.2	34.8	32.3	2250	93.4	89	78	13.3	0.876	0.0347	36.6	3043	3424
Car	2250	1990	97	0.008	39.6	30.9	35.0	32.8	2250	87.6	86	77	13.5	0.891	0.0341	37.3	2858	3216
Car	2250	1991	129	0.010	38.1	29.3	33.9	31.4	2250	90.3	88	81	12.9	0.921	0.0360	36.0	2838	3193
Car	2250	1992	146	0.012	39.7	30.1	35.4	32.5	2250	93.2	89	82	12.8	0.924	0.0365	37.5	3110	3498
Car	2250	1993	136	0.010	38.7	29.2	34.3	31.6	2250	94.4	88	81	12.8	0.921	0.0362	36.1	3026	3404
Car	2250	1994	117	0.008	39.6	29.4	35.3	32.1	2250	95.5	86	76	13.6	0.885	0.0340	36.6	3107	3495
Car	2250	1995	161	0.011	40.4	30.0	35.6	32.6	2250	95.8	84	76	13.7	0.903	0.0339	37.0	3152	3546
Car	2250	1996	135	0.010	38.9	28.7	34.1	31.3	2250	95.7	90	78	13.5	0.869	0.0349	35.3	3001	3376
Car	2250	1997	87	0.006	39.3	28.7	34.4	31.4	2250	92.1	81	73	14.2	0.891	0.0322	35.6	2916	3281
Car	2250	1998	26	0.002	39.0	28.4	33.7	31.0	2250	89.8	80	80	13.0	1.002	0.0356	35.1	2801	3152
Car	2250	1999	23	0.002	38.6	27.8	33.4	30.6	2250	88.1	81	81	13.0	1.003	0.0359	34.6	2706	3044
Car	2250	2000	43	0.003	39.6	28.2	34.3	31.2	2250	92.3	83	89	12.2	1.063	0.0395	35.3	2907	3270
Car	2250	2001	24	0.002	39.3	27.9	33.6	30.8	2250	86.6	80	81	12.8	1.015	0.0361	35.2	2673	3007
Car	2250	2002	3	0.000	51.5	35.9	42.4	39.2	2250	77.9	78	88	10.6	1.125	0.0393	45.7	2969	3341
Car	2250	2003	2	0.000	50.8	35.0	41.8	38.5	2250	82.9	81	93	10.5	1.136	0.0414	44.4	3114	3504
Car	2250	2004	0	0.000	64.5	44.5	48.8	46.8	2250	53.2	63	68	11.1	1.073	0.0301	53.0	2468	2777
Car	2250	2005	5	0.000	34.1	23.6	29.0	26.4	2250	65.4	101	157	8.0	1.520	0.0698	31.4	1924	2165
Car	2250	2006	2	0.000	34.3	23.4	29.6	26.6	2250	50.0	100	166	7.5	1.615	0.0739	32.3	1434	1613

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	2000	2009							100.0%					100.0%		100.0%	
Car	2000	2010							100.0%					100.0%		100.0%	
Car	2000	2011							100.0%					100.0%		100.0%	
Car	2000	2012							100.0%					100.0%		100.0%	
Car	2250	1975	46.1%		88.0%	2.3%			22.6%								
Car	2250	1976	37.5%		72.2%				5.7%								
Car	2250	1977	43.0%		78.9%				14.4%		1.9%						
Car	2250	1978	41.6%		77.5%	3.1%			16.7%		4.1%						
Car	2250	1979	44.8%		82.5%	1.0%			15.6%		5.5%						
Car	2250	1980	57.9%		76.5%	0.7%			14.9%		9.3%						
Car	2250	1981	69.8%		78.4%	5.0%			6.5%		9.2%						
Car	2250	1982	79.8%		71.6%	6.8%			5.7%		4.7%						
Car	2250	1983	93.2%	1.6%	70.6%	10.2%			8.0%	12.1%	1.4%						
Car	2250	1984	91.1%		71.8%	13.5%			6.8%	16.5%	2.6%						
Car	2250	1985	97.1%	0.3%	65.3%	21.6%			1.6%	8.6%	0.1%						
Car	2250	1986	96.3%		65.5%	20.1%			7.7%	6.3%	0.0%	94.4%	5.6%				
Car	2250	1987	96.3%		70.5%	14.1%			9.9%	3.4%		50.5%	47.9%	1.6%			
Car	2250	1988	100.0%		69.9%	18.0%			9.4%	28.1%		51.6%	20.4%	28.0%			
Car	2250	1989	100.0%		63.5%	15.0%	4.5%		5.1%	28.0%		36.5%	40.4%	23.1%			
Car	2250	1990	95.4%	4.6%	70.3%	3.6%	2.5%		39.4%	20.3%		33.7%	46.9%	19.3%			
Car	2250	1991	95.7%	4.3%	69.6%	22.3%	2.4%		80.3%	18.8%		13.1%	68.8%	18.1%			
Car	2250	1992	99.8%	0.2%	80.0%	12.5%	0.2%		97.8%	2.0%		22.1%	57.3%	20.6%			
Car	2250	1993	98.6%	1.4%	76.0%	13.3%	0.5%		98.2%	1.8%		12.2%	71.8%	16.1%			
Car	2250	1994	100.0%		79.9%	16.6%			96.5%	3.5%		37.7%	54.8%	7.5%			
Car	2250	1995	100.0%		48.7%	27.7%			69.9%	30.1%		62.1%	6.2%	31.6%			
Car	2250	1996	100.0%		29.5%	32.8%			63.1%	36.9%		56.8%	4.8%	38.4%			
Car	2250	1997	100.0%		39.1%	4.4%			38.2%	61.8%		82.7%		17.3%			
Car	2250	1998	100.0%		22.8%				100.0%					100.0%			
Car	2250	1999	100.0%		23.5%				100.0%					100.0%			
Car	2250	2000	40.6%		39.3%				100.0%					100.0%		33.9%	
Car	2250	2001	100.0%		15.3%		6.2%		100.0%			65.6%		34.4%		16.5%	6.2%
Car	2250	2002	100.0%		54.4%		45.6%		100.0%					100.0%		100.0%	45.6%
Car	2250	2003	100.0%		65.3%		34.7%		100.0%					100.0%		100.0%	34.7%
Car	2250	2004	100.0%		6.4%		93.6%		100.0%					100.0%		100.0%	93.6%
Car	2250	2005	37.0%		93.7%		6.3%		100.0%					100.0%		100.0%	6.3%
Car	2250	2006	20.0%		80.0%		20.0%		100.0%					100.0%		100.0%	20.0%

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	2250	2007	1	0.000	29.9	20.3	26.6	23.5	2250	50.0	110	232	5.7	2.110	0.1031	26.4	1175	1322
Car	2250	2008	0	0.000	29.9	20.4	26.7	23.5	2250	50.0	110	229	5.8	2.082	0.1018	26.5	1177	1324
Car	2250	2009	1	0.000	30.0	20.4	26.7	23.6	2250	50.0	110	225	5.9	2.045	0.1000	26.5	1179	1326
Car	2250	2010	0	0.000	29.8	20.3	26.6	23.4	2250	50.0	110	237	5.6	2.157	0.1054	26.4	1173	1319
Car	2250	2011	0	0.000	29.9	20.3	26.6	23.5	2250	50.0	110	231	5.7	2.103	0.1028	26.5	1176	1323
Car	2250	2012	23	0.002	52.3	36.0	37.4	36.8	2250	77.4	81	94	11.5	1.160	0.0418	41.4	2847	3202
Car	2500	1975	406	0.040	24.4	18.8	23.8	20.8	2500		95	73	15.2	0.774	0.0292	26.1		
Car	2500	1976	349	0.028	26.2	20.2	25.8	22.4	2500		97	73	15.1	0.755	0.0294	28.3		
Car	2500	1977	465	0.033	29.3	23.0	27.9	24.9	2500	90.3	98	75	14.9	0.764	0.0299	31.5	2278	2847
Car	2500	1978	782	0.054	27.9	22.1	26.2	23.8	2500	91.6	101	74	15.1	0.734	0.0297	30.0	2197	2746
Car	2500	1979	1078	0.078	27.9	22.2	25.8	23.7	2500	90.6	101	72	15.4	0.710	0.0287	29.8	2163	2703
Car	2500	1980	1172	0.104	28.0	22.3	26.0	23.8	2500	92.3	104	71	15.6	0.680	0.0283	30.0	2218	2772
Car	2500	1981	1532	0.145	29.4	23.2	27.6	25.0	2500	94.8	108	76	14.8	0.711	0.0305	31.5	2398	2997
Car	2500	1982	1454	0.149	31.1	24.4	29.6	26.5	2500	91.6	106	72	15.4	0.682	0.0289	33.5	2465	3082
Car	2500	1983	1253	0.122	32.0	25.2	30.3	27.3	2500	94.8	107	75	15.0	0.704	0.0301	34.5	2636	3295
Car	2500	1984	1532	0.109	32.6	25.6	31.2	27.8	2500	96.3	107	78	14.7	0.726	0.0312	35.2	2719	3399
Car	2500	1985	1699	0.118	32.8	25.6	31.5	28.0	2500	98.0	109	83	14.0	0.760	0.0330	35.4	2789	3486
Car	2500	1986	1622	0.106	33.7	26.3	31.8	28.6	2500	100.0	106	80	14.3	0.759	0.0321	36.0	2882	3602
Car	2500	1987	1975	0.133	33.4	26.0	31.3	28.2	2500	98.9	104	78	14.6	0.749	0.0311	35.5	2810	3513
Car	2500	1988	1802	0.118	34.1	26.5	31.5	28.7	2500	99.5	100	79	14.5	0.785	0.0314	36.0	2869	3586
Car	2500	1989	1335	0.092	34.4	26.4	31.8	28.7	2500	98.0	99	85	13.6	0.865	0.0339	36.1	2830	3537
Car	2500	1990	943	0.075	35.1	26.9	32.1	29.2	2500	94.0	97	89	13.0	0.920	0.0356	36.7	2768	3460
Car	2500	1991	760	0.060	35.7	27.1	32.6	29.5	2500	94.3	96	91	12.8	0.955	0.0364	37.1	2815	3519
Car	2500	1992	542	0.045	35.6	26.6	32.8	29.4	2500	94.3	97	93	12.6	0.976	0.0374	37.1	2805	3507
Car	2500	1993	536	0.041	36.2	26.8	33.5	29.8	2500	94.1	99	93	12.6	0.952	0.0372	37.6	2830	3538
Car	2500	1994	451	0.032	35.5	26.0	32.8	29.1	2500	94.7	100	91	12.9	0.924	0.0364	36.9	2800	3500
Car	2500	1995	503	0.033	37.2	26.8	34.6	30.3	2500	94.4	100	98	12.1	0.986	0.0393	38.2	2890	3613
Car	2500	1996	332	0.025	37.3	26.6	34.8	30.3	2500	95.4	103	102	11.8	0.999	0.0407	38.1	2928	3660
Car	2500	1997	333	0.023	36.9	26.2	34.1	29.8	2500	94.9	101	98	12.2	0.976	0.0393	37.5	2866	3583
Car	2500	1998	214	0.015	36.9	25.8	34.4	29.8	2500	99.6	104	97	12.1	0.949	0.0390	37.4	2980	3725
Car	2500	1999	253	0.017	35.9	24.9	33.3	28.8	2500	93.1	105	103	11.7	0.983	0.0411	36.2	2722	3403
Car	2500	2000	166	0.010	36.7	25.4	33.7	29.3	2500	95.2	103	107	11.3	1.049	0.0428	36.9	2836	3544
Car	2500	2001	214	0.014	36.2	25.0	32.6	28.7	2500	99.8	100	102	11.7	1.032	0.0408	36.1	2890	3612
Car	2500	2002	149	0.009	37.3	25.3	34.2	29.6	2500	100.1	106	102	11.7	0.968	0.0406	37.1	2976	3719
Car	2500	2003	39	0.002	40.8	28.0	35.3	31.6	2500	93.6	94	112	10.9	1.185	0.0448	39.8	3018	3772
Car	2500	2004	7	0.000	40.8	27.8	35.1	31.5	2500	92.6	94	113	10.8	1.197	0.0450	39.6	2975	3719

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	2250	2007			100.0%				100.0%					100.0%		100.0%	
Car	2250	2008			100.0%				100.0%					100.0%		100.0%	
Car	2250	2009			100.0%				100.0%					100.0%		100.0%	
Car	2250	2010			100.0%				100.0%					100.0%		100.0%	
Car	2250	2011			100.0%				100.0%					100.0%		100.0%	
Car	2250	2012	100.0%				100.0%		100.0%					100.0%		100.0%	
Car	2500	1975	36.0%		75.2%	0.1%			20.4%								
Car	2500	1976	18.3%		67.5%				12.9%								
Car	2500	1977	20.7%		69.3%				12.5%		1.2%						
Car	2500	1978	34.3%		53.2%				8.0%								
Car	2500	1979	43.7%	3.5%	52.1%	4.7%			2.3%		0.6%						
Car	2500	1980	47.9%	3.9%	52.5%				3.8%		2.8%						
Car	2500	1981	53.6%	2.7%	52.4%	0.9%			4.1%		2.5%						
Car	2500	1982	68.8%	0.6%	56.8%	8.5%			4.6%		2.9%						
Car	2500	1983	68.2%	13.0%	50.0%	20.5%			3.1%	0.1%	0.4%						
Car	2500	1984	75.3%	2.4%	47.2%	26.3%			11.8%	1.6%	2.2%						
Car	2500	1985	77.1%	9.2%	53.7%	19.8%			15.7%	4.2%	1.7%						
Car	2500	1986	94.3%	0.9%	49.5%	22.1%			16.9%	5.3%	1.0%	97.3%	1.9%	0.8%			
Car	2500	1987	97.7%	0.8%	47.7%	32.6%			13.6%	19.5%		79.3%	18.1%	2.7%			
Car	2500	1988	99.7%	0.3%	48.3%	41.8%			11.9%	51.5%		68.2%	18.2%	13.6%			
Car	2500	1989	97.8%	2.2%	52.0%	37.6%			24.7%	47.3%		55.3%	20.2%	24.5%			
Car	2500	1990	94.2%	0.1%	56.7%	34.2%	0.1%		44.4%	51.1%		41.4%	11.5%	47.2%			
Car	2500	1991	93.2%	0.1%	63.3%	36.0%	0.1%		63.0%	37.0%		35.0%	22.6%	42.4%		5.0%	
Car	2500	1992	91.7%	0.0%	54.2%	45.7%	0.0%		80.0%	20.0%		37.7%	13.2%	49.0%		8.6%	
Car	2500	1993	92.4%	0.0%	62.0%	32.8%	0.0%		74.3%	25.7%		46.8%	18.7%	34.5%		4.5%	
Car	2500	1994	89.6%		51.0%	41.8%			71.4%	28.6%		35.5%	19.8%	44.7%		2.9%	
Car	2500	1995	92.3%		48.8%	45.4%			96.5%	3.5%		36.1%	18.3%	45.6%		1.4%	
Car	2500	1996	93.4%		50.2%	43.6%			100.0%			34.6%	20.4%	45.1%		8.7%	
Car	2500	1997	93.2%		46.8%	53.2%			100.0%			39.1%	21.3%	39.5%		1.7%	
Car	2500	1998	96.9%		39.3%	60.7%			100.0%			44.6%	30.7%	24.6%		2.7%	
Car	2500	1999	100.0%		41.9%	58.1%			100.0%			40.1%	32.5%	27.4%		0.2%	
Car	2500	2000	88.4%		45.3%	54.7%			100.0%			29.0%	19.2%	51.8%		29.3%	
Car	2500	2001	96.8%		36.1%	63.9%			100.0%			26.6%	12.8%	60.6%		26.6%	
Car	2500	2002	96.4%		38.0%	62.0%			100.0%			56.6%	17.0%	26.5%		24.2%	
Car	2500	2003	86.7%		23.9%	76.1%			100.0%					100.0%		100.0%	
Car	2500	2004	84.7%		32.3%	67.7%			100.0%					100.0%		100.0%	

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	2500	2005	10	0.001	41.1	27.8	35.1	31.5	2500	95.7	93	111	11.0	1.193	0.0443	39.5	3052	3815
Car	2500	2006	3	0.000	41.6	28.6	34.3	31.6	2500	97.4	91	106	11.3	1.165	0.0424	39.5	3079	3849
Car	2500	2007	159	0.010	42.4	28.9	35.3	32.2	2500	99.1	91	106	11.3	1.165	0.0424	40.3	3193	3991
Car	2500	2008	121	0.009	42.1	28.8	34.9	32.0	2500	98.7	91	106	11.3	1.165	0.0424	40.0	3157	3946
Car	2500	2009	73	0.008	42.0	28.8	34.7	31.9	2500	97.6	91	106	11.3	1.165	0.0424	39.9	3114	3892
Car	2500	2010	63	0.006	42.0	28.8	34.7	31.9	2500	98.2	91	106	11.3	1.165	0.0424	39.9	3132	3915
Car	2500	2011	43	0.004	41.1	28.2	34.2	31.3	2500	98.9	91	103	11.6	1.132	0.0414	39.2	3099	3874
Car	2500	2012	120	0.009	43.1	29.5	35.7	32.7	2500	98.2	91	105	11.4	1.156	0.0419	40.9	3215	4019
Car	2750	1975	281	0.027	21.7	16.6	21.6	18.5	2750		127	100	12.8	0.799	0.0365	25.9		
Car	2750	1976	203	0.016	24.5	19.0	23.7	20.9	2750		122	96	13.4	0.794	0.0348	29.1		
Car	2750	1977	349	0.025	24.8	19.2	24.1	21.1	2750	80.3	126	96	13.3	0.765	0.0350	29.4	1728	2375
Car	2750	1978	498	0.034	24.8	19.3	24.1	21.2	2750	88.6	129	95	13.4	0.740	0.0344	29.4	1892	2602
Car	2750	1979	468	0.034	23.9	18.5	23.5	20.4	2750	82.5	132	93	13.7	0.709	0.0340	28.3	1721	2366
Car	2750	1980	973	0.086	26.1	19.9	26.0	22.2	2750	96.0	142	93	13.6	0.665	0.0339	30.9	2176	2992
Car	2750	1981	715	0.068	27.7	21.6	26.7	23.6	2750	107.2	137	92	13.8	0.678	0.0333	32.7	2533	3482
Car	2750	1982	961	0.099	28.8	22.0	28.5	24.5	2750	104.3	124	87	14.4	0.707	0.0316	33.8	2566	3528
Car	2750	1983	863	0.084	30.2	23.6	28.9	25.7	2750	106.3	124	88	14.2	0.712	0.0320	35.6	2756	3790
Car	2750	1984	2051	0.146	30.1	23.3	29.3	25.7	2750	102.7	127	89	14.1	0.705	0.0324	35.5	2653	3648
Car	2750	1985	1878	0.130	30.6	23.7	29.6	26.0	2750	103.3	128	94	13.6	0.735	0.0340	36.0	2707	3722
Car	2750	1986	1899	0.124	30.6	23.6	29.7	26.0	2750	102.0	125	95	13.4	0.769	0.0347	36.0	2667	3667
Car	2750	1987	1896	0.128	30.8	23.6	29.7	26.1	2750	101.7	124	96	13.3	0.790	0.0350	36.0	2658	3655
Car	2750	1988	1519	0.099	31.5	23.9	30.3	26.5	2750	102.1	123	97	13.1	0.804	0.0354	36.6	2717	3736
Car	2750	1989	1204	0.083	31.8	24.0	30.4	26.7	2750	101.7	118	96	13.3	0.820	0.0349	36.8	2719	3738
Car	2750	1990	1081	0.086	31.9	24.1	30.1	26.7	2750	98.7	111	100	12.9	0.919	0.0364	36.7	2637	3625
Car	2750	1991	1462	0.116	32.5	24.1	31.0	27.0	2750	100.3	112	100	12.9	0.913	0.0364	37.3	2724	3746
Car	2750	1992	1284	0.106	32.6	24.0	31.1	27.0	2750	98.6	110	106	12.3	0.972	0.0385	37.4	2681	3686
Car	2750	1993	1653	0.125	33.0	24.0	31.4	27.2	2750	101.9	112	106	12.4	0.955	0.0384	37.6	2789	3835
Car	2750	1994	1525	0.108	33.6	24.3	32.1	27.7	2750	101.2	109	108	12.1	1.001	0.0393	38.2	2815	3871
Car	2750	1995	1748	0.115	33.9	24.4	32.1	27.8	2750	102.6	110	111	12.0	1.017	0.0403	38.4	2865	3939
Car	2750	1996	1258	0.096	33.8	24.2	31.6	27.5	2750	101.5	108	117	11.5	1.085	0.0426	38.1	2809	3863
Car	2750	1997	1639	0.113	34.0	24.1	31.8	27.6	2750	100.5	109	113	11.7	1.039	0.0409	38.2	2787	3833
Car	2750	1998	1621	0.112	34.5	24.2	32.4	27.9	2750	100.5	110	117	11.3	1.071	0.0427	38.6	2820	3877
Car	2750	1999	1349	0.089	34.6	24.2	32.0	27.8	2750	100.5	110	118	11.3	1.078	0.0428	38.4	2807	3859
Car	2750	2000	1319	0.080	34.3	23.8	31.5	27.4	2750	100.5	108	120	11.2	1.118	0.0437	37.9	2768	3806
Car	2750	2001	1184	0.076	35.9	24.7	33.0	28.6	2750	99.6	108	121	11.0	1.122	0.0440	39.6	2874	3952
Car	2750	2002	913	0.057	36.3	24.8	33.0	28.8	2750	99.6	107	119	11.2	1.121	0.0434	39.8	2884	3966

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	2500	2005	90.7%		15.0%	85.0%			100.0%					100.0%		100.0%	
Car	2500	2006	100.0%		29.5%	70.5%			100.0%					100.0%		100.0%	
Car	2500	2007	100.0%		18.2%	81.8%			100.0%					100.0%		100.0%	
Car	2500	2008	100.0%		16.8%	83.2%			100.0%					100.0%		100.0%	
Car	2500	2009	100.0%		12.9%	87.1%			100.0%					100.0%		100.0%	
Car	2500	2010	100.0%		11.6%	88.4%			100.0%					100.0%		100.0%	
Car	2500	2011	100.0%		14.5%	85.5%			100.0%					100.0%		100.0%	
Car	2500	2012	100.0%		27.0%	73.0%			100.0%					100.0%		100.0%	
Car	2750	1975	0.4%		70.3%	0.3%			3.9%								
Car	2750	1976	0.9%		63.5%				3.6%								
Car	2750	1977	2.0%		67.5%				9.4%								
Car	2750	1978	0.9%		66.7%				5.5%								
Car	2750	1979	5.3%		58.5%				5.9%								
Car	2750	1980	47.9%		53.6%				13.8%								
Car	2750	1981	70.0%		36.0%				18.3%		0.6%						
Car	2750	1982	77.9%	3.1%	33.7%	30.2%			6.4%	5.8%	0.4%						
Car	2750	1983	89.4%	4.0%	31.2%	33.0%			12.3%	40.6%	0.6%						
Car	2750	1984	87.7%	2.2%	30.5%	36.3%			12.2%	42.4%	1.0%						
Car	2750	1985	93.3%	2.8%	21.8%	45.1%			14.5%	59.5%	0.4%						
Car	2750	1986	92.7%	2.9%	34.7%	47.5%			32.1%	52.6%	0.3%	82.5%	14.6%	3.0%			
Car	2750	1987	95.7%	1.9%	31.5%	44.0%			24.7%	58.4%	0.2%	73.6%	19.5%	6.9%			
Car	2750	1988	97.4%	1.8%	31.0%	58.1%			18.9%	59.8%		72.8%	19.3%	7.9%			
Car	2750	1989	97.5%	1.1%	29.6%	59.2%			21.8%	63.8%	0.3%	77.4%	9.4%	13.1%			
Car	2750	1990	99.0%	0.9%	25.7%	65.5%			56.5%	43.0%	0.2%	53.1%	0.4%	46.5%			
Car	2750	1991	99.3%	0.2%	28.1%	68.0%			63.5%	36.1%	0.3%	53.0%	2.7%	44.2%		6.6%	
Car	2750	1992	99.2%	0.5%	30.3%	64.1%			85.9%	14.0%	0.1%	41.4%	5.1%	53.5%		10.9%	
Car	2750	1993	98.3%	1.6%	27.4%	69.4%			93.9%	6.1%		47.2%	1.7%	51.2%		12.1%	
Car	2750	1994	98.5%	0.1%	32.2%	66.3%			99.7%	0.3%		32.5%		67.5%		20.0%	
Car	2750	1995	99.8%	0.0%	27.6%	72.4%			100.0%			25.4%		74.6%		13.3%	
Car	2750	1996	98.9%		25.5%	74.4%	0.1%		100.0%			11.8%		88.2%		17.0%	
Car	2750	1997	100.0%		22.2%	77.4%	0.4%		100.0%			24.3%		75.7%		16.7%	
Car	2750	1998	100.0%		22.3%	77.1%	0.3%		100.0%			16.8%		83.2%		22.1%	
Car	2750	1999	99.8%		19.3%	80.1%	0.2%		100.0%			16.8%		83.2%		20.8%	
Car	2750	2000	96.8%		21.1%	77.1%	0.1%		100.0%			7.8%	3.1%	89.0%		42.0%	
Car	2750	2001	94.2%		20.1%	78.4%	0.1%		100.0%			7.0%	0.0%	93.0%		65.9%	
Car	2750	2002	98.5%		22.1%	77.0%	0.4%		100.0%			6.2%		93.8%		63.4%	

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	2750	2003	691	0.044	37.1	25.1	33.5	29.2	2750	100.8	106	123	10.9	1.154	0.0447	40.3	2964	4075
Car	2750	2004	729	0.046	36.9	24.8	33.2	28.9	2750	101.6	105	120	11.1	1.144	0.0436	39.9	2955	4062
Car	2750	2005	941	0.059	37.3	25.0	33.1	29.0	2750	102.1	106	121	11.1	1.144	0.0439	40.1	2976	4092
Car	2750	2006	628	0.042	37.8	25.3	33.4	29.3	2750	101.0	104	119	11.3	1.142	0.0432	40.5	2982	4100
Car	2750	2007	549	0.036	38.2	25.4	33.9	29.7	2750	102.0	104	120	11.2	1.145	0.0435	40.9	3044	4186
Car	2750	2008	437	0.031	37.9	25.2	33.7	29.4	2750	102.5	104	119	11.2	1.147	0.0434	40.6	3042	4182
Car	2750	2009	271	0.029	38.3	25.9	33.1	29.6	2750	104.9	96	111	11.8	1.159	0.0404	40.8	3122	4293
Car	2750	2010	194	0.017	39.0	26.3	33.8	30.1	2750	105.1	97	113	11.6	1.174	0.0413	41.5	3188	4383
Car	2750	2011	237	0.020	40.4	27.1	35.1	31.1	2750	101.2	97	114	11.6	1.175	0.0416	43.1	3174	4365
Car	2750	2012	526	0.039	43.9	29.6	36.5	33.2	2750	100.1	94	114	11.2	1.212	0.0416	46.6	3410	4689
Car	3000	1975	828	0.081	21.4	16.6	20.9	18.3	3000		147	99	14.4	0.674	0.0329	27.8		
Car	3000	1976	884	0.072	23.5	18.1	23.1	20.1	3000		147	95	14.6	0.657	0.0317	30.4		
Car	3000	1977	584	0.041	23.2	18.1	22.3	19.8	3000	87.6	146	104	13.7	0.715	0.0347	30.1	1771	2656
Car	3000	1978	903	0.062	22.5	17.7	21.3	19.2	3000	97.3	164	102	13.9	0.637	0.0339	29.1	1885	2828
Car	3000	1979	1286	0.093	22.1	17.2	21.3	18.9	3000	96.3	162	100	13.9	0.634	0.0333	28.6	1834	2751
Car	3000	1980	2026	0.179	23.6	18.3	23.0	20.1	3000	100.9	164	100	13.8	0.624	0.0334	30.3	2040	3060
Car	3000	1981	1626	0.154	24.4	19.0	23.4	20.8	3000	103.8	165	101	13.9	0.619	0.0335	31.4	2168	3252
Car	3000	1982	1555	0.160	25.7	19.7	25.4	21.9	3000	104.2	163	103	13.6	0.640	0.0343	33.3	2320	3480
Car	3000	1983	1515	0.147	25.8	19.8	25.6	22.0	3000	105.4	161	105	13.4	0.658	0.0349	33.4	2346	3520
Car	3000	1984	1995	0.142	26.4	20.2	26.2	22.5	3000	104.9	157	107	13.3	0.689	0.0357	34.1	2381	3571
Car	3000	1985	2042	0.141	27.1	20.7	26.9	23.1	3000	106.8	154	110	13.0	0.727	0.0366	35.0	2489	3734
Car	3000	1986	2832	0.184	27.5	21.0	27.1	23.4	3000	106.6	151	108	13.2	0.723	0.0359	35.3	2514	3771
Car	3000	1987	2744	0.185	27.9	21.2	27.4	23.6	3000	106.3	147	111	12.9	0.767	0.0371	35.8	2539	3809
Car	3000	1988	3147	0.206	28.4	21.4	27.8	24.0	3000	105.3	145	114	12.6	0.797	0.0380	36.3	2547	3821
Car	3000	1989	3403	0.235	28.4	21.2	27.7	23.9	3000	105.2	146	118	12.3	0.815	0.0393	36.0	2525	3788
Car	3000	1990	2857	0.226	28.6	21.3	27.7	23.9	3000	103.9	142	122	12.0	0.867	0.0405	36.0	2497	3746
Car	3000	1991	2714	0.216	28.1	20.8	27.3	23.5	3000	104.0	145	124	11.8	0.868	0.0414	35.5	2458	3687
Car	3000	1992	1919	0.158	28.4	20.8	27.6	23.6	3000	102.7	146	127	11.6	0.885	0.0423	35.6	2438	3657
Car	3000	1993	2024	0.153	28.7	20.8	27.8	23.8	3000	102.7	147	125	11.8	0.863	0.0417	35.9	2455	3683
Car	3000	1994	2039	0.144	29.1	21.0	28.0	24.0	3000	102.9	143	124	11.8	0.881	0.0413	36.2	2481	3721
Car	3000	1995	1938	0.128	29.7	21.2	28.8	24.5	3000	103.6	139	135	10.9	0.988	0.0451	36.9	2545	3818
Car	3000	1996	1822	0.139	29.9	21.1	29.1	24.6	3000	103.1	137	133	11.0	0.980	0.0443	37.0	2543	3814
Car	3000	1997	1902	0.132	29.8	20.9	28.7	24.4	3000	102.3	135	134	11.0	0.992	0.0445	36.7	2503	3754
Car	3000	1998	1188	0.082	30.1	21.0	28.7	24.5	3000	101.0	132	130	11.2	0.997	0.0435	37.0	2491	3737
Car	3000	1999	961	0.063	30.1	21.0	28.4	24.4	3000	99.9	128	128	11.4	1.002	0.0426	36.7	2452	3678
Car	3000	2000	1505	0.091	30.6	21.3	28.5	24.7	3000	102.0	126	127	11.6	1.008	0.0423	37.2	2540	3810

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	2750	2003	98.2%		21.3%	77.4%	1.3%		100.0%					100.0%		80.0%	
Car	2750	2004	98.8%		23.0%	75.7%	1.3%		100.0%			0.4%		99.6%		78.4%	
Car	2750	2005	99.6%		16.8%	82.2%	1.0%		100.0%			6.8%		93.2%		75.4%	
Car	2750	2006	96.7%		17.1%	81.5%	1.5%		100.0%			8.2%		91.8%		86.1%	
Car	2750	2007	97.6%		14.9%	85.1%			100.0%			12.2%		87.8%		79.7%	
Car	2750	2008	96.3%		19.3%	80.7%			100.0%			2.0%		98.0%		60.7%	
Car	2750	2009	98.4%		21.1%	78.9%			100.0%					100.0%		84.8%	
Car	2750	2010	96.3%		16.7%	83.3%			100.0%					100.0%		100.0%	
Car	2750	2011	97.7%		13.4%	86.6%			100.0%					100.0%		100.0%	
Car	2750	2012	98.2%		11.4%	63.6%	25.0%	25.7%	74.3%					100.0%		100.0%	11.2%
Car	3000	1975	3.5%		48.5%	0.1%			17.1%								
Car	3000	1976	2.5%		50.4%				9.8%								
Car	3000	1977	3.6%		51.3%				22.4%								
Car	3000	1978	4.4%		35.2%				18.0%								
Car	3000	1979	2.6%		39.7%				14.1%		0.1%						
Car	3000	1980	32.0%		30.9%	1.0%			7.5%		0.5%						
Car	3000	1981	45.4%		21.6%	0.7%			11.9%		0.4%						
Car	3000	1982	53.2%		17.0%	65.1%			18.6%	26.9%	0.7%						
Car	3000	1983	63.0%		17.2%	62.7%			22.7%	26.5%	0.7%						
Car	3000	1984	73.9%	0.2%	16.2%	58.2%			27.5%	29.6%	0.8%						
Car	3000	1985	77.7%	0.5%	14.5%	53.5%			37.4%	34.6%	0.4%						
Car	3000	1986	82.1%	1.0%	15.1%	56.4%			35.7%	49.1%	0.2%	97.7%		2.3%			
Car	3000	1987	84.1%	1.9%	15.7%	63.5%			49.5%	49.5%	0.0%	89.4%		10.6%			
Car	3000	1988	90.5%	1.2%	17.2%	66.7%			69.9%	30.1%	0.0%	77.4%	8.0%	14.6%			
Car	3000	1989	91.2%	1.4%	16.4%	71.5%			73.4%	24.0%		66.4%	18.7%	15.0%			
Car	3000	1990	95.0%	0.7%	20.8%	68.8%			74.9%	25.1%		53.3%	10.7%	36.0%			
Car	3000	1991	93.3%	1.5%	18.4%	72.4%			75.7%	24.3%		58.2%	8.0%	33.7%			
Car	3000	1992	94.1%	0.7%	20.4%	66.3%			87.2%	12.8%		63.5%	7.1%	29.4%		0.2%	
Car	3000	1993	94.4%	0.9%	19.9%	68.8%			86.8%	13.2%		61.8%	1.2%	37.0%		0.2%	
Car	3000	1994	98.8%	0.3%	16.8%	75.4%			89.5%	10.5%		62.8%		37.2%		0.7%	
Car	3000	1995	95.1%	2.5%	22.3%	77.7%			98.4%	1.6%		34.7%		65.3%		9.9%	
Car	3000	1996	96.1%	1.8%	21.0%	79.0%			100.0%			37.8%		62.2%		12.2%	
Car	3000	1997	92.3%	2.1%	21.4%	77.4%			99.9%		0.1%	28.7%		71.2%	0.1%	7.1%	
Car	3000	1998	94.2%	2.6%	24.2%	75.5%			99.0%		1.0%	41.4%		58.4%	0.2%	20.4%	
Car	3000	1999	93.6%	2.4%	26.5%	72.4%			99.0%		1.0%	49.0%		50.6%	0.4%	23.9%	
Car	3000	2000	94.9%	1.2%	21.0%	77.3%			98.6%		1.4%	51.5%		45.6%	2.9%	16.9%	

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	3000	2001	1322	0.085	31.5	21.8	28.9	25.2	3000	102.4	125	129	11.4	1.037	0.0431	38.2	2614	3921
Car	3000	2002	1650	0.102	31.4	21.6	28.8	25.0	3000	104.0	124	132	11.2	1.070	0.0441	37.9	2634	3951
Car	3000	2003	1829	0.116	32.8	22.4	29.6	25.9	3000	104.2	122	133	11.0	1.101	0.0444	39.3	2736	4104
Car	3000	2004	1616	0.103	33.4	22.5	30.3	26.3	3000	105.4	124	136	10.7	1.103	0.0454	40.2	2831	4247
Car	3000	2005	1778	0.112	34.1	22.9	30.5	26.7	3000	105.9	122	135	10.5	1.110	0.0451	41.2	2923	4384
Car	3000	2006	1673	0.111	34.9	23.3	31.4	27.3	3000	103.4	120	139	10.4	1.156	0.0462	42.1	2913	4369
Car	3000	2007	1780	0.116	36.4	24.3	32.4	28.4	3000	104.5	120	137	10.4	1.143	0.0457	43.9	3081	4622
Car	3000	2008	1660	0.119	37.5	25.1	33.2	29.2	3000	104.2	118	135	10.4	1.145	0.0450	45.2	3156	4733
Car	3000	2009	1565	0.168	38.4	25.7	33.9	29.8	3000	104.2	115	135	10.6	1.171	0.0450	45.4	3161	4742
Car	3000	2010	1809	0.163	38.2	25.5	33.8	29.6	3000	105.4	116	138	10.6	1.196	0.0462	44.7	3136	4704
Car	3000	2011	1084	0.090	38.5	25.7	34.0	29.9	3000	106.8	114	139	10.6	1.227	0.0463	45.0	3192	4789
Car	3000	2012	2111	0.158	40.1	26.7	35.3	31.0	3000	107.3	112	145	10.2	1.295	0.0483	46.8	3339	5009
Car	3500	1975	1029	0.101	18.2	14.3	17.1	15.5	3500		227	102	15.6	0.463	0.0292	27.6		
Car	3500	1976	934	0.076	19.4	15.5	18.0	16.5	3500		231	100	15.8	0.447	0.0286	29.2		
Car	3500	1977	724	0.051	20.2	16.1	18.8	17.2	3500	102.4	232	104	15.3	0.458	0.0297	30.5	1789	3132
Car	3500	1978	2992	0.207	20.2	15.8	19.2	17.2	3500	111.1	257	120	13.8	0.468	0.0342	30.2	1919	3358
Car	3500	1979	2684	0.193	20.2	16.0	18.8	17.2	3500	112.3	252	120	13.7	0.477	0.0342	30.1	1934	3385
Car	3500	1980	2148	0.190	20.7	16.3	19.8	17.7	3500	111.3	244	115	14.1	0.477	0.0329	31.1	1980	3465
Car	3500	1981	1829	0.173	22.2	17.3	21.4	18.9	3500	113.3	234	113	14.3	0.487	0.0322	33.3	2160	3780
Car	3500	1982	1421	0.146	22.4	17.3	21.8	19.1	3500	112.0	237	118	14.0	0.505	0.0338	33.8	2170	3798
Car	3500	1983	1690	0.164	22.9	17.5	22.7	19.5	3500	112.0	237	122	13.6	0.526	0.0347	34.4	2205	3859
Car	3500	1984	2266	0.162	22.9	17.5	22.8	19.6	3500	109.9	235	127	13.2	0.558	0.0362	34.5	2174	3804
Car	3500	1985	2544	0.176	23.4	17.7	23.7	20.0	3500	112.3	226	132	12.8	0.604	0.0377	35.1	2255	3946
Car	3500	1986	2817	0.183	24.4	18.2	25.1	20.8	3500	113.7	224	141	12.0	0.655	0.0403	36.5	2377	4160
Car	3500	1987	2614	0.176	24.5	18.0	25.6	20.9	3500	114.2	216	147	11.6	0.704	0.0419	36.6	2396	4193
Car	3500	1988	2801	0.183	25.2	18.4	26.3	21.4	3500	113.6	212	150	11.4	0.731	0.0430	37.7	2455	4297
Car	3500	1989	2795	0.193	25.0	18.2	26.0	21.2	3500	114.3	208	151	11.4	0.748	0.0430	37.2	2436	4264
Car	3500	1990	2761	0.219	25.4	18.3	26.3	21.4	3500	113.0	194	150	11.4	0.793	0.0429	37.6	2437	4264
Car	3500	1991	2220	0.177	25.2	18.2	25.7	21.2	3500	111.3	195	155	11.2	0.814	0.0443	37.2	2375	4157
Car	3500	1992	2898	0.238	25.4	18.2	26.0	21.3	3500	113.7	192	155	11.2	0.826	0.0442	37.4	2436	4264
Car	3500	1993	2926	0.221	25.8	18.4	26.2	21.6	3500	114.3	194	157	11.1	0.823	0.0447	37.9	2480	4341
Car	3500	1994	2845	0.201	25.9	18.3	26.2	21.6	3500	111.8	191	156	11.1	0.836	0.0445	38.0	2427	4247
Car	3500	1995	3662	0.242	26.3	18.4	26.8	21.9	3500	112.0	188	166	10.6	0.904	0.0474	38.5	2462	4309
Car	3500	1996	3217	0.245	26.4	18.4	26.5	21.9	3500	111.8	182	165	10.6	0.923	0.0471	38.4	2451	4290
Car	3500	1997	3230	0.223	26.6	18.4	26.7	22.0	3500	112.5	181	170	10.4	0.956	0.0486	38.7	2485	4348
Car	3500	1998	4066	0.281	27.0	18.6	26.9	22.2	3500	111.6	178	169	10.4	0.968	0.0484	39.1	2492	4361

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	3000	2001	94.1%	0.7%	22.6%	75.1%	1.2%		98.6%		1.4%	43.3%		51.5%	5.2%	28.2%	
Car	3000	2002	98.2%	0.2%	18.8%	79.4%	1.4%		98.9%		1.1%	34.9%		63.8%	1.3%	29.8%	1.4%
Car	3000	2003	97.1%	1.3%	19.1%	78.3%	2.6%		99.1%		0.9%	14.7%		83.9%	1.3%	41.2%	2.5%
Car	3000	2004	97.7%	1.1%	15.0%	80.1%	4.9%		99.4%		0.6%	7.2%		92.3%	0.5%	47.8%	4.4%
Car	3000	2005	98.1%	0.8%	15.6%	76.1%	8.3%		99.7%		0.3%	7.9%		91.8%	0.3%	63.4%	8.3%
Car	3000	2006	97.2%	1.2%	17.0%	75.8%	7.2%		99.9%		0.1%	5.3%		94.7%	0.0%	71.7%	7.1%
Car	3000	2007	97.3%	0.8%	14.3%	68.2%	17.5%	1.2%	98.8%			3.7%		96.3%		55.9%	10.7%
Car	3000	2008	98.0%	0.9%	12.0%	66.9%	21.1%	1.3%	98.7%			1.9%		98.1%		63.8%	12.3%
Car	3000	2009	99.0%	0.7%	9.8%	77.4%	12.8%	0.9%	99.1%			1.2%		98.8%		79.4%	6.5%
Car	3000	2010	100.0%	0.0%	6.3%	83.2%	10.5%	1.1%	98.9%			2.8%		97.2%		90.3%	2.8%
Car	3000	2011	99.9%	0.1%	7.6%	76.3%	16.2%	3.1%	96.9%			3.0%		97.0%		89.0%	2.8%
Car	3000	2012	98.4%	1.6%	10.6%	64.6%	10.7%	37.2%	62.8%			3.4%		96.6%		98.5%	3.0%
Car	3500	1975			19.3%				6.5%		1.9%						
Car	3500	1976			17.2%				5.7%		1.4%						
Car	3500	1977			16.2%				6.1%		2.7%						
Car	3500	1978			4.7%	6.4%			1.4%		0.5%						
Car	3500	1979			4.0%	16.9%			1.3%		0.8%						
Car	3500	1980	0.2%	0.4%	3.1%	37.9%			2.2%		1.7%						
Car	3500	1981		0.5%	3.4%	84.4%			3.0%		2.5%						
Car	3500	1982	0.5%	0.6%	6.9%	88.4%			5.1%	4.4%	4.9%						
Car	3500	1983	0.9%	0.8%	9.0%	83.2%			9.0%	5.3%	2.6%						
Car	3500	1984	8.0%	0.2%	8.0%	88.6%			23.0%	11.9%	1.3%						
Car	3500	1985	34.1%	0.0%	8.5%	88.7%			36.4%	31.4%	0.6%						
Car	3500	1986	48.2%	0.5%	8.7%	88.4%			58.2%	22.0%	0.1%	98.9%		1.1%			
Car	3500	1987	61.8%	0.4%	8.9%	87.8%			75.6%	16.9%	0.4%	97.0%		3.0%			
Car	3500	1988	70.0%	0.2%	8.5%	89.2%			86.7%	13.0%		94.1%	1.0%	4.8%			
Car	3500	1989	77.5%	0.2%	7.6%	87.6%			86.1%	13.8%	0.0%	92.6%	0.8%	6.7%			
Car	3500	1990	82.8%	1.8%	6.9%	89.0%			96.4%	3.4%	0.0%	87.6%	0.4%	12.0%			
Car	3500	1991	76.7%	2.6%	7.7%	88.1%			93.4%	6.5%	0.1%	84.2%	0.2%	15.5%		0.1%	
Car	3500	1992	76.5%	1.7%	5.7%	91.8%			97.0%	2.8%	0.1%	76.6%	0.0%	23.3%		2.3%	
Car	3500	1993	85.2%	1.6%	4.8%	93.5%			98.7%	1.2%		76.2%		23.8%		2.6%	
Car	3500	1994	82.6%	0.9%	7.6%	90.5%			100.0%	0.0%		74.5%		25.5%		8.7%	
Car	3500	1995	78.7%	1.4%	7.2%	91.8%			100.0%			62.9%		37.1%		10.4%	
Car	3500	1996	87.2%	2.4%	7.5%	91.7%			99.8%		0.2%	53.3%		46.7%	0.0%	12.1%	
Car	3500	1997	88.0%	2.9%	6.3%	93.7%			99.9%		0.1%	51.3%	0.4%	48.1%	0.2%	12.4%	
Car	3500	1998	86.9%	2.7%	6.1%	93.8%			100.0%			44.8%	0.3%	53.6%	1.3%	17.5%	

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	3500	1999	4694	0.309	27.1	18.6	26.7	22.2	3500	111.0	174	170	10.4	0.993	0.0486	39.0	2474	4329
Car	3500	2000	4753	0.287	27.1	18.5	26.5	22.1	3500	111.5	175	174	10.2	1.014	0.0497	38.8	2474	4330
Car	3500	2001	4528	0.290	27.1	18.4	26.3	22.0	3500	110.9	173	176	10.1	1.031	0.0504	38.7	2455	4296
Car	3500	2002	4473	0.278	27.6	18.7	26.4	22.3	3500	112.7	175	183	9.8	1.064	0.0523	39.2	2530	4428
Car	3500	2003	4338	0.275	27.9	18.7	26.8	22.5	3500	111.8	174	184	9.8	1.075	0.0526	39.6	2536	4437
Car	3500	2004	3707	0.236	28.1	18.7	26.8	22.5	3500	110.9	175	188	9.6	1.097	0.0536	39.7	2523	4416
Car	3500	2005	3504	0.220	28.8	19.1	27.0	23.0	3500	112.7	169	184	9.8	1.110	0.0525	40.5	2613	4573
Car	3500	2006	3286	0.218	29.1	19.3	27.2	23.2	3500	112.5	165	186	9.7	1.141	0.0532	40.8	2632	4606
Car	3500	2007	3304	0.216	29.9	19.9	27.8	23.7	3500	111.6	159	182	9.9	1.158	0.0519	41.8	2676	4683
Car	3500	2008	2828	0.203	30.4	20.2	28.0	24.1	3500	112.7	155	182	9.9	1.186	0.0519	42.4	2737	4790
Car	3500	2009	2451	0.263	31.5	20.9	29.2	24.9	3500	114.4	149	177	9.9	1.191	0.0507	43.9	2874	5029
Car	3500	2010	2696	0.243	34.0	22.6	31.0	26.7	3500	115.1	148	175	9.7	1.175	0.0499	48.8	3218	5631
Car	3500	2011	3028	0.252	34.2	22.5	31.8	27.0	3500	115.1	145	179	9.7	1.238	0.0510	48.4	3186	5575
Car	3500	2012	3392	0.254	35.4	23.4	32.7	27.9	3500	114.1	145	179	9.7	1.246	0.0512	50.2	3284	5748
Car	4000	1975	1099	0.107	15.6	12.4	14.5	13.3	4000		292	130	14.5	0.443	0.0324	27.0		
Car	4000	1976	1988	0.161	17.6	14.0	16.5	15.0	4000		280	122	15.4	0.434	0.0305	30.4		
Car	4000	1977	3342	0.237	17.9	14.2	16.7	15.2	4000	113.4	292	133	14.2	0.453	0.0333	30.6	1736	3473
Car	4000	1978	2251	0.156	17.9	14.1	17.1	15.3	4000	114.8	305	145	13.2	0.474	0.0362	30.8	1778	3556
Car	4000	1979	2649	0.191	17.7	14.0	16.7	15.1	4000	119.6	311	147	13.0	0.472	0.0367	30.5	1829	3657
Car	4000	1980	1316	0.116	18.8	14.6	18.3	16.1	4000	122.4	302	136	13.9	0.453	0.0339	32.6	2003	4006
Car	4000	1981	1313	0.124	20.3	15.5	20.3	17.3	4000	123.2	296	134	14.0	0.458	0.0334	35.2	2171	4342
Car	4000	1982	1216	0.125	20.6	15.6	20.9	17.6	4000	126.4	287	135	13.8	0.479	0.0339	35.6	2244	4487
Car	4000	1983	1446	0.140	20.3	15.4	20.6	17.4	4000	126.7	287	139	13.4	0.490	0.0348	35.0	2211	4422
Car	4000	1984	1708	0.122	20.5	15.5	20.9	17.5	4000	126.3	289	139	13.4	0.484	0.0347	35.2	2223	4446
Car	4000	1985	1671	0.116	21.7	16.4	22.3	18.6	4000	125.3	294	148	12.8	0.508	0.0371	37.3	2337	4674
Car	4000	1986	918	0.060	22.1	16.5	22.6	18.8	4000	124.9	299	154	12.4	0.520	0.0384	37.8	2366	4733
Car	4000	1987	912	0.061	21.7	16.3	22.0	18.5	4000	122.2	294	157	12.3	0.551	0.0392	37.1	2275	4550
Car	4000	1988	829	0.054	22.2	16.4	22.7	18.8	4000	125.8	289	160	12.1	0.569	0.0400	37.9	2392	4783
Car	4000	1989	860	0.060	23.0	16.8	23.5	19.4	4000	125.1	275	155	12.5	0.576	0.0386	39.1	2447	4894
Car	4000	1990	992	0.079	23.0	16.7	23.7	19.4	4000	123.1	262	165	12.0	0.644	0.0411	39.0	2399	4797
Car	4000	1991	1243	0.099	23.1	16.6	23.7	19.4	4000	124.9	262	184	10.8	0.716	0.0460	39.0	2435	4870
Car	4000	1992	1310	0.108	23.1	16.6	23.6	19.4	4000	123.6	255	194	10.4	0.780	0.0485	39.0	2412	4824
Car	4000	1993	1430	0.108	22.6	16.1	22.8	18.9	4000	122.7	253	195	10.3	0.792	0.0488	38.1	2336	4672
Car	4000	1994	1562	0.111	23.1	16.4	23.3	19.3	4000	122.0	245	200	10.2	0.832	0.0500	38.7	2363	4725
Car	4000	1995	1442	0.095	23.2	16.2	23.7	19.3	4000	121.7	250	214	9.6	0.872	0.0534	38.8	2363	4727
Car	4000	1996	1271	0.097	23.5	16.4	23.9	19.6	4000	124.2	248	212	9.7	0.866	0.0531	39.3	2440	4881

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	3500	1999	88.9%	2.5%	6.1%	93.5%			100.0%			36.5%	0.6%	60.6%	2.4%	16.2%	
Car	3500	2000	87.3%	2.5%	6.5%	93.0%			100.0%			34.1%	0.3%	63.9%	1.7%	22.1%	
Car	3500	2001	87.3%	1.8%	7.1%	92.4%			99.9%		0.1%	35.0%	1.1%	61.2%	2.7%	20.3%	
Car	3500	2002	88.0%	2.5%	7.9%	91.8%	0.1%		99.7%		0.3%	31.1%	1.1%	64.5%	3.3%	32.9%	
Car	3500	2003	87.7%	1.7%	8.6%	90.6%	0.7%		99.7%		0.3%	31.8%	0.9%	64.1%	3.2%	39.3%	
Car	3500	2004	84.6%	2.5%	8.9%	90.1%	0.5%		99.7%		0.3%	32.1%	1.0%	64.2%	2.7%	37.4%	
Car	3500	2005	86.9%	4.1%	7.4%	92.2%	0.1%		99.4%		0.6%	27.3%	1.2%	70.2%	1.2%	45.0%	0.5%
Car	3500	2006	86.5%	3.8%	8.7%	91.2%			98.7%		1.3%	19.8%	0.2%	79.9%	0.0%	55.8%	
Car	3500	2007	87.9%	3.4%	7.7%	81.2%	11.1%	0.1%	99.9%			11.7%	1.0%	87.3%		68.1%	0.4%
Car	3500	2008	88.4%	5.3%	7.0%	77.6%	15.4%	2.1%	97.9%			5.3%	0.1%	94.6%	0.0%	63.0%	0.3%
Car	3500	2009	90.5%	5.0%	5.1%	81.3%	13.4%	2.7%	95.8%		1.5%	1.7%	0.0%	98.3%	0.0%	78.7%	0.4%
Car	3500	2010	93.1%	3.2%	4.2%	69.8%	22.4%	2.8%	95.0%		2.2%	1.6%	0.0%	98.4%		95.6%	9.3%
Car	3500	2011	91.1%	4.4%	4.2%	78.2%	17.0%	14.2%	84.0%		1.8%	0.4%		99.6%		97.3%	5.4%
Car	3500	2012	91.6%	3.3%	6.9%	74.3%	15.3%	13.2%	84.3%		2.6%	0.6%		99.4%		96.7%	7.2%
Car	4000	1975			8.2%				0.6%								
Car	4000	1976			7.3%				0.4%		0.6%						
Car	4000	1977			3.7%				0.5%		0.4%						
Car	4000	1978	0.0%		3.6%	10.3%			0.9%		0.7%						
Car	4000	1979	5.3%		2.4%	10.4%			2.8%		2.3%						
Car	4000	1980	10.9%	2.3%	0.9%	40.1%			2.5%	4.9%	9.6%						
Car	4000	1981	11.1%	0.9%	0.9%	82.8%			1.2%	10.3%	13.2%						
Car	4000	1982	11.1%	1.3%		89.6%			1.8%	18.7%	9.4%						
Car	4000	1983	12.5%	1.3%		94.6%			2.0%	38.0%	4.4%						
Car	4000	1984	12.7%	1.1%		95.5%			2.1%	40.9%	2.8%						
Car	4000	1985	13.0%	0.0%	0.1%	94.8%			3.8%	41.4%	2.0%						
Car	4000	1986	0.2%	0.7%	0.2%	92.5%			48.3%	4.4%	0.5%	98.9%		1.1%			
Car	4000	1987	1.1%	0.4%	3.6%	87.9%			50.9%	3.2%	1.2%	95.5%		4.5%			
Car	4000	1988	6.3%	0.3%	1.6%	92.7%			75.0%	2.2%		94.5%		5.5%			
Car	4000	1989	8.9%	0.0%	2.5%	92.5%			84.4%	13.6%		96.0%		4.0%			
Car	4000	1990	33.0%	0.1%	1.8%	95.4%			95.3%	4.6%	0.1%	89.6%		10.4%		5.4%	
Car	4000	1991	34.6%	0.8%	3.7%	93.9%			85.0%	14.7%	0.3%	90.7%		9.3%		5.4%	
Car	4000	1992	36.8%	1.7%	3.3%	95.7%			93.2%	6.8%		81.7%		18.3%		7.6%	
Car	4000	1993	29.0%	0.5%	2.4%	96.1%			96.8%	3.2%		76.8%		23.2%		6.0%	
Car	4000	1994	39.7%	0.2%	3.1%	95.3%			100.0%	0.0%		62.1%		37.9%		5.1%	
Car	4000	1995	39.7%	0.5%	2.3%	95.5%			99.6%		0.4%	59.8%		40.1%	0.0%	6.1%	
Car	4000	1996	44.3%	0.6%	2.2%	96.3%			99.8%		0.2%	55.9%		44.1%		3.6%	

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	4000	1997	1443	0.100	23.5	16.3	23.7	19.4	4000	123.4	247	220	9.5	0.898	0.0549	39.0	2407	4813
Car	4000	1998	1260	0.087	23.1	16.1	22.8	19.0	4000	123.0	246	219	9.5	0.905	0.0548	38.3	2354	4707
Car	4000	1999	1543	0.101	23.6	16.2	23.3	19.4	4000	123.9	236	220	9.5	0.952	0.0549	39.0	2413	4826
Car	4000	2000	1875	0.113	23.5	16.1	23.1	19.3	4000	122.3	233	225	9.3	0.977	0.0561	38.8	2374	4747
Car	4000	2001	1792	0.115	23.9	16.3	23.3	19.5	4000	122.8	225	217	9.5	0.987	0.0543	39.3	2413	4825
Car	4000	2002	1617	0.100	24.2	16.5	23.5	19.7	4000	119.0	219	220	9.4	1.024	0.0551	39.7	2363	4726
Car	4000	2003	1316	0.083	24.6	16.6	23.6	19.9	4000	117.3	213	224	9.3	1.070	0.0561	40.1	2356	4712
Car	4000	2004	1700	0.108	25.1	16.8	24.3	20.3	4000	117.3	209	230	9.1	1.112	0.0574	40.8	2396	4793
Car	4000	2005	2110	0.133	25.5	16.9	24.5	20.5	4000	120.4	211	230	9.1	1.104	0.0575	41.3	2486	4971
Car	4000	2006	2669	0.177	25.9	17.1	24.8	20.8	4000	119.8	213	238	8.8	1.134	0.0595	41.9	2509	5018
Car	4000	2007	2670	0.175	26.6	17.7	25.4	21.4	4000	118.1	206	237	8.8	1.167	0.0594	43.3	2551	5102
Car	4000	2008	2662	0.192	26.8	17.7	25.8	21.6	4000	116.4	206	242	8.7	1.191	0.0605	43.5	2533	5065
Car	4000	2009	1595	0.171	27.5	18.2	26.1	22.0	4000	116.6	205	245	8.5	1.209	0.0613	44.6	2599	5198
Car	4000	2010	1700	0.153	28.1	18.6	26.8	22.5	4000	116.0	204	251	8.5	1.242	0.0628	45.8	2661	5322
Car	4000	2011	1966	0.164	28.7	18.9	27.5	23.0	4000	118.5	196	249	8.6	1.274	0.0621	46.5	2767	5534
Car	4000	2012	1843	0.138	29.5	19.3	28.4	23.6	4000	117.7	194	259	8.3	1.344	0.0647	47.8	2828	5655
Car	4500	1975	1791	0.175	14.3	11.1	13.7	12.2	4500		347	158	13.6	0.455	0.0351	27.7		
Car	4500	1976	2223	0.180	15.7	12.3	15.1	13.4	4500		346	157	13.5	0.454	0.0349	30.4		
Car	4500	1977	3496	0.248	16.5	13.0	15.6	14.1	4500	118.7	346	157	13.4	0.454	0.0349	31.9	1680	3780
Car	4500	1978	1997	0.138	16.3	12.6	16.1	13.9	4500	123.8	356	161	13.1	0.453	0.0358	31.6	1739	3912
Car	4500	1979	1528	0.110	16.5	12.8	15.9	14.0	4500	127.6	353	157	13.4	0.445	0.0349	31.9	1808	4068
Car	4500	1980	363	0.032	19.0	14.4	19.0	16.2	4500	137.3	350	137	15.1	0.394	0.0305	37.3	2273	5115
Car	4500	1981	318	0.030	20.4	15.4	20.9	17.5	4500	137.1	343	127	16.1	0.374	0.0282	40.4	2459	5532
Car	4500	1982	183	0.019	21.0	15.8	21.6	17.9	4500	148.3	323	127	16.1	0.401	0.0283	41.5	2696	6067
Car	4500	1983	188	0.018	19.9	14.8	20.8	17.0	4500	146.6	311	143	14.4	0.463	0.0318	38.7	2512	5651
Car	4500	1984	185	0.013	20.2	15.1	21.0	17.3	4500	152.0	308	148	14.0	0.482	0.0329	39.0	2630	5918
Car	4500	1985	104	0.007	21.0	15.6	22.1	18.0	4500	160.2	306	150	13.8	0.490	0.0333	40.5	2884	6490
Car	4500	1986	101	0.007	21.5	15.9	22.5	18.3	4500	156.5	308	150	14.0	0.485	0.0333	41.5	2903	6532
Car	4500	1987	78	0.005	22.3	16.3	23.5	19.0	4500	160.2	306	140	14.6	0.458	0.0311	42.7	3043	6846
Car	4500	1988	105	0.007	22.6	16.6	23.3	19.2	4500	144.8	305	144	14.4	0.474	0.0321	43.4	2797	6293
Car	4500	1989	87	0.006	21.8	16.0	22.2	18.4	4500	141.1	306	151	14.1	0.494	0.0336	41.7	2638	5936
Car	4500	1990	67	0.005	20.3	14.8	20.9	17.2	4500	130.1	322	179	12.6	0.555	0.0397	39.2	2306	5189
Car	4500	1991	73	0.006	20.9	15.0	21.7	17.7	4500	133.6	312	201	11.3	0.648	0.0448	40.2	2445	5500
Car	4500	1992	113	0.009	22.1	15.5	23.3	18.6	4500	137.2	334	191	11.6	0.587	0.0424	42.1	2590	5828
Car	4500	1993	85	0.006	22.1	15.4	23.8	18.7	4500	141.4	339	187	11.8	0.567	0.0416	42.1	2658	5981
Car	4500	1994	88	0.006	22.4	15.6	23.4	18.8	4500	136.8	344	255	9.0	0.747	0.0567	42.5	2602	5854

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	4000	1997	44.3%	0.8%	2.2%	97.8%			99.8%		0.2%	55.3%		44.7%		6.1%	
Car	4000	1998	36.8%	3.2%	2.3%	97.7%			99.7%		0.3%	56.2%	3.2%	39.4%	1.2%	8.9%	
Car	4000	1999	43.5%	2.9%	2.1%	97.9%			99.7%		0.3%	48.0%	3.7%	46.6%	1.7%	10.2%	
Car	4000	2000	42.7%	2.9%	2.7%	97.3%			100.0%			55.1%	2.9%	39.8%	2.1%	11.5%	
Car	4000	2001	44.5%	9.6%	3.4%	96.6%			100.0%			47.9%	3.2%	45.6%	3.2%	16.3%	
Car	4000	2002	48.2%	12.2%	3.0%	96.8%	0.2%		100.0%			32.8%	3.7%	59.5%	4.0%	19.7%	
Car	4000	2003	43.9%	12.9%	3.4%	94.1%	2.5%		100.0%			30.0%	9.2%	54.7%	6.1%	23.6%	
Car	4000	2004	62.9%	12.9%	3.6%	94.4%	2.0%		99.9%		0.1%	22.7%	4.8%	68.3%	4.2%	43.1%	
Car	4000	2005	56.7%	15.3%	3.3%	92.7%	4.0%		99.5%		0.5%	29.0%	5.8%	63.6%	1.5%	38.6%	0.2%
Car	4000	2006	56.2%	10.6%	3.4%	92.8%	3.8%		99.8%		0.2%	23.5%	3.9%	72.2%	0.4%	50.9%	0.5%
Car	4000	2007	68.0%	11.2%	2.9%	89.7%	7.4%		99.9%		0.1%	26.5%	1.6%	71.9%	0.1%	64.5%	3.0%
Car	4000	2008	64.0%	12.0%	3.3%	92.7%	4.1%	5.7%	94.2%		0.1%	24.6%	1.6%	73.8%	0.0%	65.2%	2.1%
Car	4000	2009	66.3%	12.0%	1.9%	87.8%	10.3%	9.7%	90.2%		0.1%	22.0%	1.1%	76.9%		80.2%	4.4%
Car	4000	2010	57.7%	12.0%	4.0%	85.6%	9.8%	24.3%	75.6%		0.1%	15.0%	1.3%	83.6%		86.8%	4.3%
Car	4000	2011	63.6%	13.6%	3.1%	89.5%	6.8%	29.0%	70.6%		0.4%	11.6%	1.2%	87.2%		95.5%	2.1%
Car	4000	2012	61.7%	13.2%	4.3%	89.3%	5.9%	51.7%	48.3%			0.8%	1.8%	97.3%		99.6%	3.9%
Car	4500	1975	0.9%		0.6%				1.6%								
Car	4500	1976	2.0%		0.1%				2.3%								
Car	4500	1977	1.3%		0.1%				1.6%								
Car	4500	1978	2.7%			12.9%			3.1%		1.5%						
Car	4500	1979	4.4%		0.0%	9.3%			3.4%		5.5%						
Car	4500	1980	7.5%		0.0%	54.2%			0.0%		28.7%						
Car	4500	1981	8.6%			61.7%				29.7%	44.2%						
Car	4500	1982	6.3%		0.0%	99.8%					45.3%						
Car	4500	1983	1.4%		0.0%	100.0%					12.3%						
Car	4500	1984	0.6%		0.0%	100.0%					4.2%						
Car	4500	1985	0.1%		0.0%	100.0%				0.0%	1.1%						
Car	4500	1986			0.0%	91.2%			8.7%			100.0%					
Car	4500	1987			0.0%	100.0%			0.1%			100.0%					
Car	4500	1988			0.0%	100.0%			2.9%			100.0%					
Car	4500	1989			0.0%	96.2%			8.0%			100.0%					
Car	4500	1990				84.4%			20.5%	30.5%		95.8%		4.2%			
Car	4500	1991			0.7%	82.1%			26.2%	73.8%		88.4%		11.6%		3.2%	
Car	4500	1992			0.2%	89.6%			12.2%	87.8%		95.0%		5.0%		5.5%	
Car	4500	1993			0.2%	96.0%			10.6%	89.4%		90.7%		9.3%		3.1%	
Car	4500	1994			0.2%	93.6%			100.0%			91.1%		8.9%		7.0%	

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	4500	1995	111	0.007	22.4	15.6	23.2	18.7	4500	127.7	310	257	9.0	0.867	0.0572	42.3	2413	5429
Car	4500	1996	96	0.007	22.9	15.8	23.8	19.1	4500	131.5	324	260	8.9	0.826	0.0579	43.1	2525	5681
Car	4500	1997	37	0.003	22.2	15.5	22.1	18.4	4500	109.0	257	272	8.7	1.061	0.0604	41.5	2025	4557
Car	4500	1998	30	0.002	22.0	15.3	22.0	18.2	4500	100.0	272	288	8.2	1.065	0.0641	41.1	1842	4144
Car	4500	1999	24	0.002	22.2	15.3	21.9	18.3	4500	93.1	264	278	8.5	1.066	0.0619	41.2	1722	3873
Car	4500	2000	67	0.004	21.9	15.1	21.5	18.0	4500	114.8	281	288	8.2	1.026	0.0640	40.6	2080	4679
Car	4500	2001	78	0.005	22.0	15.0	21.6	18.0	4500	117.3	270	284	8.3	1.070	0.0631	40.7	2122	4774
Car	4500	2002	95	0.006	22.3	15.2	21.6	18.2	4500	123.6	274	267	8.9	0.990	0.0594	41.0	2254	5072
Car	4500	2003	278	0.018	23.2	15.5	22.9	18.9	4500	128.6	279	255	9.2	0.919	0.0567	42.6	2443	5496
Car	4500	2004	357	0.023	22.6	15.0	22.4	18.5	4500	134.5	264	255	9.2	0.981	0.0567	41.7	2487	5596
Car	4500	2005	402	0.025	23.0	15.3	22.2	18.6	4500	132.6	278	272	8.8	0.989	0.0604	41.9	2471	5560
Car	4500	2006	417	0.028	22.5	14.9	22.0	18.3	4500	132.2	283	293	8.3	1.043	0.0651	41.3	2425	5457
Car	4500	2007	477	0.031	22.8	15.1	22.3	18.5	4500	130.4	272	297	8.2	1.102	0.0660	41.8	2428	5463
Car	4500	2008	459	0.033	22.8	15.1	22.3	18.5	4500	129.5	260	288	8.4	1.125	0.0641	41.9	2417	5438
Car	4500	2009	248	0.027	23.5	15.5	22.8	19.0	4500	123.0	263	303	8.0	1.169	0.0673	43.0	2359	5307
Car	4500	2010	470	0.042	24.9	16.6	23.7	20.0	4500	130.8	235	289	8.3	1.257	0.0642	45.2	2635	5929
Car	4500	2011	544	0.045	25.5	16.9	24.7	20.6	4500	128.1	237	304	8.0	1.318	0.0676	46.7	2664	5995
Car	4500	2012	463	0.035	25.5	16.7	24.7	20.5	4500	123.7	250	338	7.4	1.377	0.0751	46.7	2567	5777
Car	5000	1975	1505	0.147	12.9	10.0	12.5	11.0	5000		388	166	14.0	0.429	0.0333	27.8		
Car	5000	1976	1495	0.121	14.6	11.5	13.9	12.5	5000		378	166	13.9	0.440	0.0333	31.2		
Car	5000	1977	1051	0.074	14.1	10.9	13.8	12.1	5000	129.7	387	175	13.3	0.453	0.0351	30.3	1571	3927
Car	5000	1978	477	0.033	14.6	11.1	14.5	12.4	5000	132.3	403	179	13.1	0.445	0.0358	31.3	1663	4157
Car	5000	1979	182	0.013	14.4	11.1	14.2	12.3	5000	126.5	396	169	13.7	0.426	0.0339	31.3	1587	3968
Car	5000	1980	2	0.000	12.5	9.9	11.9	10.7	5000	121.9	382	156	14.6	0.409	0.0312	26.8	1320	3299
Car	5000	1981	2	0.000	11.7	9.3	11.1	10.0	5000	122.2	387	156	14.6	0.402	0.0311	25.1	1231	3078
Car	5000	1982	2	0.000	11.2	8.8	10.6	9.5	5000	121.4	378	176	13.7	0.482	0.0353	23.8	1160	2900
Car	5000	1983	1	0.000	11.5	9.1	10.9	9.8	5000	126.4	373	157	14.7	0.426	0.0314	24.6	1246	3115
Car	5000	1984	2	0.000	11.2	8.8	10.6	9.5	5000	122.1	374	176	13.7	0.485	0.0351	23.9	1171	2928
Car	5000	1985	1	0.000	10.9	8.5	10.3	9.2	5000	113.5	394	187	12.9	0.494	0.0375	23.1	1050	2626
Car	5000	1986	1	0.000	10.7	8.3	10.2	9.1	5000	114.2	378	205	12.2	0.574	0.0409	22.8	1039	2598
Car	5000	1987	1	0.000	11.4	9.0	10.6	9.7	5000	113.0	410	191	12.4	0.466	0.0382	24.2	1095	2738
Car	5000	1988	1	0.000	12.3	9.5	11.7	10.4	5000	112.0	408	207	11.6	0.509	0.0413	26.1	1170	2925
Car	5000	1989	1	0.000	12.4	9.5	11.7	10.4	5000	112.9	410	206	11.6	0.502	0.0411	26.1	1180	2950
Car	5000	1990	0	0.000	10.9	8.2	10.7	9.2	5000	95.9	326	240	10.3	0.736	0.0480	23.1	885	2212
Car	5000	1991																
Car	5000	1992	10	0.001	17.3	12.8	16.7	14.5	5000	126.0	283	297	9.1	1.041	0.0594	36.8	1851	4628

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	4500	1995		0.5%	0.5%	82.4%			100.0%			64.7%		35.3%		6.0%	
Car	4500	1996		0.4%	0.4%	90.6%			100.0%			76.4%		23.6%		15.0%	
Car	4500	1997			0.1%	99.9%			100.0%			2.3%		97.7%		79.9%	
Car	4500	1998		0.0%	0.2%	99.8%			100.0%			4.3%		95.7%		99.2%	
Car	4500	1999			0.1%	99.9%			100.0%				37.6%	62.4%		61.9%	
Car	4500	2000		1.0%	0.3%	99.7%			100.0%			3.4%	29.4%	66.2%	1.0%	26.1%	
Car	4500	2001		11.4%	1.1%	98.9%			100.0%			5.4%	50.3%	32.9%	11.4%	34.8%	
Car	4500	2002		6.9%	0.7%	99.3%			100.0%			38.4%	34.8%	19.8%	6.9%	20.8%	
Car	4500	2003		3.6%	0.2%	99.8%			100.0%			77.4%	9.7%	10.2%	2.7%	8.3%	
Car	4500	2004	12.7%	12.5%	0.4%	99.6%			100.0%			49.7%	7.5%	38.9%	3.9%	27.8%	
Car	4500	2005	12.3%	8.5%	0.7%	99.0%			100.0%			59.1%	4.6%	33.1%	3.1%	26.2%	
Car	4500	2006	14.1%	8.8%	0.6%	99.0%			100.0%			51.7%	4.8%	41.5%	2.0%	28.8%	
Car	4500	2007	29.7%	5.5%	0.3%	99.5%			100.0%			32.9%	0.3%	66.7%	0.1%	23.6%	0.7%
Car	4500	2008	25.4%	12.5%	0.6%	98.8%		3.9%	96.1%			31.3%	0.1%	68.5%	0.1%	33.6%	0.2%
Car	4500	2009	21.0%	20.5%	4.2%	95.0%		9.0%	91.0%			30.1%	0.7%	69.2%	0.0%	62.0%	0.2%
Car	4500	2010	40.7%	27.9%	2.5%	96.4%	0.8%	26.5%	73.5%			17.5%		82.5%		88.3%	0.1%
Car	4500	2011	33.6%	33.1%	1.7%	97.9%	0.1%	41.2%	58.2%		0.6%	17.6%	0.0%	82.4%		89.0%	0.1%
Car	4500	2012	20.5%	34.7%	4.8%	94.7%		51.9%	47.6%		0.5%	17.9%		82.1%		94.4%	0.6%
Car	5000	1975															
Car	5000	1976	0.3%														
Car	5000	1977	3.3%						0.7%								
Car	5000	1978	4.9%			14.1%			0.4%		0.9%						
Car	5000	1979							0.9%		9.1%						
Car	5000	1980							6.7%								
Car	5000	1981							42.6%	57.4%							
Car	5000	1982				14.2%			44.2%	41.5%							
Car	5000	1983				6.5%			19.3%	74.2%							
Car	5000	1984				15.8%			37.4%	46.8%							
Car	5000	1985				16.3%			83.7%								
Car	5000	1986				30.6%			69.4%			100.0%					
Car	5000	1987				1.8%			100.0%			100.0%					
Car	5000	1988				4.9%			100.0%			100.0%					
Car	5000	1989							100.0%			100.0%					
Car	5000	1990				100.0%			100.0%			100.0%					
Car	5000	1991															
Car	5000	1992							89.1%		10.9%	10.9%		89.1%		89.1%	

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	5000	1993	16	0.001	18.9	13.9	18.3	15.8	5000	125.8	247	263	9.8	1.072	0.0526	39.7	1996	4989
Car	5000	1994	11	0.001	20.4	14.6	20.2	17.0	5000	124.5	254	266	9.8	1.051	0.0532	43.0	2142	5354
Car	5000	1995	16	0.001	19.6	14.1	19.0	16.3	5000	119.6	284	298	8.8	1.048	0.0595	40.9	1962	4904
Car	5000	1996	7	0.001	19.9	13.9	20.3	16.6	5000	125.5	286	303	8.6	1.058	0.0605	41.7	2093	5232
Car	5000	1997	10	0.001	20.2	14.0	20.5	16.8	5000	125.1	288	304	8.6	1.057	0.0608	42.1	2108	5269
Car	5000	1998	6	0.000	20.2	14.0	20.2	16.7	5000	126.1	283	299	8.7	1.059	0.0598	41.9	2114	5286
Car	5000	1999	8	0.001	19.7	13.6	19.5	16.3	5000	124.0	290	307	8.5	1.060	0.0613	40.8	2030	5075
Car	5000	2000	1	0.000	18.3	12.4	18.8	15.2	5000	120.1	325	324	8.1	0.996	0.0648	38.0	1827	4567
Car	5000	2001	1	0.000	18.2	12.3	18.7	15.1	5000	120.1	327	325	8.0	0.995	0.0650	37.7	1814	4534
Car	5000	2002	0	0.000	19.1	13.5	17.7	15.5	5000	121.2	303	302	8.5	0.997	0.0604	38.8	1880	4700
Car	5000	2003	1	0.000	20.3	13.3	21.0	16.8	5000	122.5	364	429	6.4	1.179	0.0858	41.9	2053	5133
Car	5000	2004	54	0.003	21.7	14.9	20.3	17.5	5000	164.2	218	253	9.9	1.161	0.0506	43.8	2880	7200
Car	5000	2005	84	0.005	21.3	14.3	20.4	17.2	5000	161.8	221	257	9.8	1.162	0.0514	43.2	2800	7000
Car	5000	2006	40	0.003	21.2	14.3	20.4	17.2	5000	157.8	228	267	9.6	1.168	0.0534	43.0	2721	6803
Car	5000	2007	40	0.003	20.8	13.7	20.8	17.0	5000	145.4	269	306	8.8	1.129	0.0612	42.7	2492	6229
Car	5000	2008	38	0.003	20.5	13.6	20.1	16.7	5000	140.2	279	332	8.3	1.180	0.0664	41.9	2360	5899
Car	5000	2009	21	0.002	20.8	13.8	20.7	17.0	5000	127.2	289	376	7.3	1.301	0.0752	42.8	2169	5423
Car	5000	2010	30	0.003	23.8	16.1	22.2	19.1	5000	124.0	271	356	7.1	1.325	0.0712	50.0	2484	6211
Car	5000	2011	25	0.002	23.2	15.6	22.3	18.8	5000	124.9	271	373	7.1	1.388	0.0746	48.2	2405	6012
Car	5000	2012	38	0.003	24.6	16.3	23.3	19.7	5000	124.1	257	400	6.6	1.547	0.0800	50.6	2511	6277
Car	5500	1975	828	0.081	12.2	9.4	11.8	10.4	5500		458	208	12.6	0.454	0.0378	28.6		
Car	5500	1976	934	0.076	13.3	10.4	12.7	11.3	5500		460	204	12.7	0.443	0.0370	31.2		
Car	5500	1977	298	0.021	12.6	9.6	12.6	10.8	5500	131.8	447	194	13.2	0.435	0.0353	29.7	1421	3908
Car	5500	1978	134	0.009	12.8	9.7	12.9	10.9	5500	130.7	445	191	13.3	0.429	0.0348	30.1	1437	3951
Car	5500	1979	2	0.000	11.0	8.8	10.1	9.4	5500	112.7	417	174	14.4	0.417	0.0317	25.8	1060	2916
Car	5500	1980	0	0.000	10.7	8.6	9.8	9.1	5500	100.7	412	170	14.7	0.413	0.0309	25.2	922	2534
Car	5500	1981	0	0.000	10.5	8.3	9.9	8.9	5500	98.8	412	170	14.7	0.413	0.0309	24.6	888	2442
Car	5500	1982	0	0.000	10.1	8.0	9.5	8.6	5500	92.5	412	170	14.7	0.413	0.0309	23.7	798	2194
Car	5500	1983	0	0.000	10.9	8.5	10.7	9.3	5500	92.3	412	170	14.7	0.413	0.0309	25.7	862	2370
Car	5500	1984	0	0.000	11.0	8.5	10.7	9.3	5500	92.6	412	170	14.7	0.413	0.0309	25.7	866	2382
Car	5500	1985	0	0.000	11.0	8.5	10.8	9.4	5500	92.5	412	170	14.7	0.413	0.0309	25.7	866	2382
Car	5500	1986	0	0.000	11.0	8.4	10.7	9.3	5500	92.4	412	170	14.7	0.413	0.0309	25.7	861	2369
Car	5500	1987	0	0.000	10.9	8.5	10.3	9.2	5500	92.0	412	187	13.7	0.454	0.0340	25.5	854	2348
Car	5500	1988	0	0.000	12.2	9.4	11.4	10.3	5500	91.3	412	205	12.6	0.498	0.0373	28.2	937	2578
Car	5500	1989	1	0.000	12.5	9.6	11.9	10.5	5500	103.8	412	259	10.7	0.630	0.0472	29.0	1098	3018
Car	5500	1990	1	0.000	13.1	10.0	12.5	11.0	5500	107.2	412	250	11.0	0.607	0.0455	30.3	1182	3251

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	5000	1993							100.0%			6.5%		93.5%		59.7%	
Car	5000	1994							94.0%		6.0%	6.0%		94.0%		65.1%	
Car	5000	1995							97.3%		2.7%	2.7%		97.3%		97.3%	
Car	5000	1996				100.0%			100.0%					100.0%		100.0%	
Car	5000	1997				100.0%			100.0%					100.0%		100.0%	
Car	5000	1998				100.0%			100.0%					100.0%		100.0%	
Car	5000	1999				100.0%			100.0%			8.0%		92.0%		93.0%	
Car	5000	2000				100.0%			100.0%					100.0%		100.0%	
Car	5000	2001				100.0%			100.0%			97.7%	1.2%	1.1%		98.8%	
Car	5000	2002				100.0%			100.0%				100.0%				
Car	5000	2003				100.0%			100.0%					100.0%		100.0%	
Car	5000	2004		98.1%		100.0%			100.0%				0.9%	99.1%		1.0%	
Car	5000	2005	25.9%	72.8%		100.0%			100.0%				1.0%	98.7%	0.3%	17.5%	
Car	5000	2006		93.0%		100.0%			100.0%				1.7%	97.9%	0.4%	40.5%	
Car	5000	2007	0.9%	91.6%		100.0%			100.0%				5.5%	94.5%		26.2%	
Car	5000	2008	0.7%	79.0%		100.0%		1.3%	98.7%				0.7%	99.3%		48.1%	
Car	5000	2009		65.4%		100.0%		26.8%	73.2%				8.3%	91.7%		70.6%	
Car	5000	2010	19.2%	61.1%		80.8%	19.2%	22.5%	77.5%				0.8%	99.2%		100.0%	24.1%
Car	5000	2011	13.1%	63.1%		90.6%	9.4%	63.3%	36.7%				0.8%	99.2%		96.1%	12.4%
Car	5000	2012	11.7%	52.9%		88.3%	11.7%	73.5%	23.3%		3.2%		0.4%	99.6%		96.6%	20.6%
Car	5500	1975	8.2%														
Car	5500	1976	7.4%						2.9%								
Car	5500	1977	15.9%						3.1%								
Car	5500	1978	33.7%						30.0%								
Car	5500	1979															
Car	5500	1980							5.0%								
Car	5500	1981							100.0%								
Car	5500	1982							100.0%								
Car	5500	1983							100.0%								
Car	5500	1984							100.0%								
Car	5500	1985							100.0%								
Car	5500	1986							100.0%			100.0%					
Car	5500	1987							100.0%			100.0%					
Car	5500	1988							100.0%			100.0%					
Car	5500	1989							100.0%			100.0%					
Car	5500	1990							100.0%			100.0%					

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	5500	1991	1	0.000	13.2	10.0	12.4	11.0	5500	107.5	412	238	11.4	0.577	0.0432	30.4	1187	3264
Car	5500	1992	0	0.000	14.1	10.2	14.4	11.9	5500	107.2	412	258	10.7	0.625	0.0468	32.8	1280	3519
Car	5500	1993	1	0.000	15.6	11.5	15.1	13.0	5500	126.5	374	290	10.4	0.777	0.0527	36.1	1678	4614
Car	5500	1994	3	0.000	17.7	12.8	17.3	14.7	5500	141.3	356	262	10.5	0.735	0.0476	40.8	2106	5792
Car	5500	1995	3	0.000	18.2	13.2	17.6	15.1	5500	143.1	355	252	10.7	0.712	0.0459	41.8	2186	6011
Car	5500	1996	3	0.000	17.8	13.1	16.7	14.7	5500	155.8	357	261	10.4	0.734	0.0475	40.6	2311	6357
Car	5500	1997	1	0.000	18.1	12.6	18.4	15.1	5500	149.9	315	312	9.0	1.011	0.0567	42.0	2328	6403
Car	5500	1998	2	0.000	17.0	11.4	18.9	14.4	5500	142.7	287	303	9.2	1.062	0.0551	39.6	2060	5666
Car	5500	1999	0	0.000	14.9	10.4	14.9	12.4	5500	98.1	412	349	8.2	0.847	0.0635	34.1	1216	3345
Car	5500	2000	2	0.000	18.1	12.6	17.5	14.9	5500	160.0	284	279	9.8	0.984	0.0507	41.0	2390	6573
Car	5500	2001	0	0.000	16.1	11.3	15.3	13.2	5500	123.3	328	322	8.8	0.982	0.0585	36.4	1630	4482
Car	5500	2002	0	0.000	16.1	11.3	15.3	13.2	5500	120.5	328	322	8.8	0.982	0.0585	36.3	1589	4371
Car	5500	2003																
Car	5500	2004	4	0.000	18.8	12.5	18.9	15.4	5500	123.8	309	391	7.8	1.268	0.0711	43.0	1952	5368
Car	5500	2005	5	0.000	16.7	11.0	17.3	13.9	5500	107.8	347	491	6.5	1.409	0.0893	38.6	1529	4205
Car	5500	2006	21	0.001	19.9	13.6	18.7	16.1	5500	157.1	245	295	9.6	1.213	0.0536	44.6	2559	7037
Car	5500	2007	15	0.001	20.5	13.9	19.4	16.6	5500	154.1	243	314	9.6	1.275	0.0571	46.3	2619	7203
Car	5500	2008	12	0.001	21.6	14.9	19.6	17.3	5500	146.8	246	320	8.7	1.284	0.0582	48.3	2576	7083
Car	5500	2009	4	0.000	20.6	14.1	19.2	16.6	5500	149.9	249	318	9.0	1.269	0.0578	46.2	2537	6976
Car	5500	2010	1	0.000	18.7	12.4	18.8	14.4	5500	118.0	381	550	5.6	1.444	0.1000	40.2	1727	4748
Car	5500	2011	0	0.000	20.2	13.4	20.2	16.6	5500	110.9	344	543	5.4	1.559	0.0987	46.9	1894	5208
Car	5500	2012	3	0.000	19.3	12.8	19.7	16.0	5500	113.5	374	557	5.5	1.490	0.1013	44.6	1847	5080
Car	6000	1975																
Car	6000	1976																
Car	6000	1977																
Car	6000	1978																
Car	6000	1979																
Car	6000	1980																
Car	6000	1981																
Car	6000	1982																
Car	6000	1983																
Car	6000	1984																
Car	6000	1985	0	0.000	10.1	8.0	9.5	8.6	6000	157.5	412	170	15.7	0.413	0.0283	25.9	1358	4075
Car	6000	1986	0	0.000	10.1	8.0	9.5	8.6	6000	157.5	412	170	15.7	0.413	0.0283	25.8	1355	4065
Car	6000	1987	0	0.000	10.4	8.3	9.5	8.8	6000	157.5	412	173	15.5	0.420	0.0288	26.5	1391	4174
Car	6000	1988	0	0.000	11.8	9.3	10.8	10.0	6000	157.5	412	205	13.5	0.498	0.0342	29.9	1571	4713

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	5500	1991							100.0%			100.0%					
Car	5500	1992				100.0%			100.0%			100.0%					
Car	5500	1993				56.9%			71.8%	28.2%		56.9%		43.1%		43.1%	
Car	5500	1994				92.4%			100.0%			92.4%		7.6%		7.6%	
Car	5500	1995				100.0%			100.0%			100.0%					
Car	5500	1996				100.0%			100.0%			100.0%					
Car	5500	1997	73.2%			100.0%			100.0%			26.8%		73.2%			
Car	5500	1998	94.1%			100.0%			100.0%			5.9%		94.1%			
Car	5500	1999				100.0%			100.0%			100.0%					
Car	5500	2000	92.1%			100.0%			100.0%			7.8%		92.2%			
Car	5500	2001				100.0%			100.0%			100.0%					
Car	5500	2002				100.0%			100.0%			100.0%					
Car	5500	2003															
Car	5500	2004	11.6%	76.2%		100.0%			100.0%					52.7%	47.3%	88.4%	
Car	5500	2005	5.9%	85.4%		100.0%			100.0%					84.0%	16.0%	94.1%	
Car	5500	2006		98.4%		100.0%			100.0%				91.8%	7.1%	1.1%	78.2%	
Car	5500	2007		91.6%		100.0%			89.8%		10.2%		13.5%	86.5%		75.6%	
Car	5500	2008		94.3%		100.0%		3.3%	87.2%		9.5%			100.0%		88.0%	18.3%
Car	5500	2009		87.9%		100.0%		15.3%	76.0%		8.7%		2.1%	97.9%		89.2%	5.4%
Car	5500	2010		33.0%		91.5%	8.5%	55.3%	44.7%				11.7%	88.3%		100.0%	8.5%
Car	5500	2011		63.8%		66.2%	33.8%	33.8%	66.2%				36.2%	63.8%		63.8%	33.8%
Car	5500	2012		53.8%		87.0%	13.0%	56.5%	43.5%				2.8%	97.2%		97.2%	13.0%
Car	6000	1975															
Car	6000	1976															
Car	6000	1977															
Car	6000	1978															
Car	6000	1979															
Car	6000	1980															
Car	6000	1981															
Car	6000	1982															
Car	6000	1983															
Car	6000	1984															
Car	6000	1985							100.0%								
Car	6000	1986							100.0%			100.0%					
Car	6000	1987							100.0%			100.0%					
Car	6000	1988							100.0%			100.0%					

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	6000	1989																
Car	6000	1990																
Car	6000	1991																
Car	6000	1992																
Car	6000	1993	1	0.000	17.6	13.0	16.8	14.7	6000	145.5	350	175	15.3	0.500	0.0292	44.0	2135	6404
Car	6000	1994	0	0.000	13.9	9.9	14.2	11.7	6000	90.6	412	241	11.9	0.585	0.0402	35.1	1060	3180
Car	6000	1995	0	0.000	13.9	9.9	14.2	11.7	6000	90.6	412	280	10.7	0.679	0.0466	35.1	1059	3176
Car	6000	1996	0	0.000	14.9	10.5	15.0	12.5	6000	88.9	412	350	8.8	0.850	0.0583	37.4	1106	3319
Car	6000	1997	0	0.000	14.9	10.5	15.0	12.4	6000	88.9	412	350	8.8	0.850	0.0583	37.3	1104	3312
Car	6000	1998	0	0.000	14.9	10.4	14.9	12.4	6000	88.9	412	350	8.8	0.850	0.0583	37.2	1102	3305
Car	6000	1999	2	0.000	19.3	13.3	19.2	15.9	6000	145.8	279	300	10.0	1.075	0.0500	47.8	2325	6976
Car	6000	2000	1	0.000	15.0	10.4	14.8	12.4	6000	112.8	412	350	8.8	0.850	0.0583	37.2	1399	4198
Car	6000	2001	3	0.000	17.6	12.2	17.1	14.4	6000	168.6	303	289	10.3	0.961	0.0481	43.6	2474	7422
Car	6000	2002	2	0.000	17.6	12.1	17.1	14.4	6000	155.7	297	294	10.3	0.990	0.0490	43.6	2278	6833
Car	6000	2003	2	0.000	18.2	12.3	18.1	15.0	6000	157.3	287	286	10.5	0.992	0.0476	45.2	2379	7138
Car	6000	2004	1	0.000	18.5	12.3	18.5	15.2	6000	149.9	294	295	10.3	0.998	0.0492	46.1	2318	6955
Car	6000	2005	1	0.000	17.3	11.7	16.9	14.2	6000	138.4	313	320	9.8	1.013	0.0533	43.3	2019	6058
Car	6000	2006	3	0.000	15.4	10.0	16.3	12.8	6000	114.9	369	545	6.2	1.478	0.0908	38.6	1477	4431
Car	6000	2007	5	0.000	16.2	10.7	16.9	13.5	6000	111.2	348	514	7.0	1.451	0.0857	40.6	1520	4561
Car	6000	2008	3	0.000	16.4	10.8	17.0	13.6	6000	112.5	342	505	7.1	1.445	0.0842	41.0	1553	4660
Car	6000	2009	2	0.000	16.4	11.0	16.4	13.5	6000	124.1	331	438	8.1	1.287	0.0729	40.7	1696	5087
Car	6000	2010	2	0.000	17.1	11.4	17.2	13.8	6000	116.7	335	412	8.3	1.207	0.0687	41.5	1627	4882
Car	6000	2011	3	0.000	18.1	12.1	18.2	15.0	6000	120.8	354	472	7.4	1.310	0.0786	45.1	1822	5465
Car	6000	2012	1	0.000	16.9	11.2	18.3	14.4	6000	107.9	383	556	6.1	1.464	0.0926	43.1	1550	4651
Car	6500	1975																
Car	6500	1976																
Car	6500	1977																
Car	6500	1978																
Car	6500	1979																
Car	6500	1980																
Car	6500	1981																
Car	6500	1982																
Car	6500	1983																
Car	6500	1984																
Car	6500	1985																
Car	6500	1986																

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	6000	1989															
Car	6000	1990															
Car	6000	1991															
Car	6000	1992															
Car	6000	1993				100.0%			0.5%	99.5%		100.0%					
Car	6000	1994				100.0%			100.0%			100.0%					
Car	6000	1995				100.0%			100.0%			100.0%					
Car	6000	1996				100.0%			100.0%			100.0%					
Car	6000	1997				100.0%			100.0%			100.0%					
Car	6000	1998				100.0%			100.0%			100.0%					
Car	6000	1999	100.0%			100.0%			100.0%					100.0%			
Car	6000	2000				100.0%			100.0%			100.0%					
Car	6000	2001	81.6%			100.0%			100.0%			18.4%		81.6%			
Car	6000	2002	86.8%			100.0%			100.0%			13.2%		86.8%			
Car	6000	2003	93.9%			100.0%			100.0%			6.1%		93.9%			
Car	6000	2004	88.6%			100.0%			100.0%			11.4%		88.6%			
Car	6000	2005	74.5%			100.0%			100.0%			25.5%		74.5%			
Car	6000	2006		92.9%		100.0%			100.0%					100.0%		92.9%	
Car	6000	2007	24.3%	68.9%		100.0%			100.0%					100.0%		68.9%	
Car	6000	2008	28.6%	69.8%		100.0%			100.0%			1.6%		98.4%		69.8%	
Car	6000	2009	46.4%	42.1%		100.0%			100.0%			5.4%		94.6%		42.1%	
Car	6000	2010	44.9%	39.3%		100.0%		15.8%	84.2%					100.0%		84.7%	
Car	6000	2011	34.6%	22.2%		100.0%		35.0%	65.0%			8.2%		91.8%		65.4%	
Car	6000	2012		63.1%		100.0%		17.7%	82.3%			19.3%		80.7%		100.0%	
Car	6500	1975															
Car	6500	1976															
Car	6500	1977															
Car	6500	1978															
Car	6500	1979															
Car	6500	1980															
Car	6500	1981															
Car	6500	1982															
Car	6500	1983															
Car	6500	1984															
Car	6500	1985															
Car	6500	1986															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	6500	1987																
Car	6500	1988																
Car	6500	1989																
Car	6500	1990																
Car	6500	1991																
Car	6500	1992																
Car	6500	1993																
Car	6500	1994	0	0.000	13.6	9.8	13.7	11.4	6500	140.2	412	241	12.7	0.585	0.0371	37.1	1602	5206
Car	6500	1995	0	0.000	13.6	9.7	13.7	11.4	6500	140.2	412	241	12.7	0.585	0.0371	37.1	1599	5196
Car	6500	1996																
Car	6500	1997	0	0.000	14.9	10.7	14.5	12.4	6500	140.1	412	241	12.7	0.585	0.0371	40.3	1737	5646
Car	6500	1998	0	0.000	13.8	9.7	13.9	11.5	6500	140.1	412	300	10.6	0.728	0.0462	37.5	1615	5248
Car	6500	1999																
Car	6500	2000	0	0.000	15.2	10.6	15.1	12.6	6500	88.9	412	325	10.0	0.789	0.0500	41.0	1121	3644
Car	6500	2001	0	0.000	15.2	10.5	15.1	12.6	6500	88.9	412	377	8.9	0.914	0.0580	40.9	1119	3636
Car	6500	2002	0	0.000	15.2	10.5	15.0	12.6	6500	88.9	412	325	10.0	0.789	0.0500	40.8	1116	3629
Car	6500	2003	0	0.000	15.2	10.4	14.9	12.5	6500	88.9	412	325	10.0	0.789	0.0500	40.8	1114	3621
Car	6500	2004	0	0.000	18.9	12.7	18.9	15.6	6500	133.2	281	234	13.0	0.833	0.0360	50.5	2072	6734
Car	6500	2005																
Car	6500	2006	2	0.000	17.9	12.0	17.5	14.6	6500	144.4	279	275	11.4	0.986	0.0423	47.6	2113	6869
Car	6500	2007	3	0.000	19.1	12.7	19.0	15.6	6500	129.7	281	234	13.0	0.833	0.0360	50.8	2027	6587
Car	6500	2008	1	0.000	16.6	11.0	16.7	13.7	6500	131.8	323	375	9.5	1.136	0.0578	44.8	1834	5959
Car	6500	2009	0	0.000	16.6	11.1	16.5	13.7	6500	135.0	308	345	10.1	1.094	0.0530	44.6	1865	6060
Car	6500	2010	0	0.000	14.5	9.5	15.3	12.1	6500	102.0	411	503	7.0	1.224	0.0773	39.3	1233	4008
Car	6500	2011	1	0.000	18.9	12.6	18.8	15.5	6500	129.9	284	253	12.5	0.882	0.0389	50.5	2017	6556
Car	6500	2012	0	0.000	15.5	10.3	15.7	12.8	6500	127.9	336	543	6.6	1.616	0.0835	41.6	1635	5315
Van	2250	1975																
Van	2250	1976																
Van	2250	1977																
Van	2250	1978																
Van	2250	1979																
Van	2250	1980																
Van	2250	1981																
Van	2250	1982																
Van	2250	1983	1	0.000	39.0	33.5	32.3	32.9	2250		97	52	18.3	0.536	0.0231	37.2		
Van	2250	1984	2	0.000	38.6	33.5	31.7	32.6	2250		97	52	18.3	0.536	0.0231	36.9		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	6500	1987															
Car	6500	1988															
Car	6500	1989															
Car	6500	1990															
Car	6500	1991															
Car	6500	1992															
Car	6500	1993															
Car	6500	1994				100.0%			100.0%			100.0%					
Car	6500	1995				100.0%			100.0%			100.0%					
Car	6500	1996															
Car	6500	1997				100.0%			100.0%			100.0%					
Car	6500	1998				100.0%			100.0%			100.0%					
Car	6500	1999															
Car	6500	2000				100.0%			100.0%			100.0%					
Car	6500	2001				100.0%			100.0%			100.0%					
Car	6500	2002				100.0%			100.0%			100.0%					
Car	6500	2003				100.0%			100.0%			100.0%					
Car	6500	2004				100.0%			100.0%			100.0%					
Car	6500	2005															
Car	6500	2006	100.0%			100.0%			100.0%					100.0%			
Car	6500	2007				100.0%			100.0%			99.9%		0.1%			
Car	6500	2008	59.4%			100.0%			100.0%			19.7%	20.9%	59.4%			
Car	6500	2009	73.5%			100.0%			100.0%			15.4%	11.1%	73.5%			
Car	6500	2010				100.0%			100.0%			97.6%	2.4%			2.4%	
Car	6500	2011				100.0%			100.0%			96.3%	3.7%			3.7%	
Car	6500	2012				100.0%			100.0%				100.0%			100.0%	
Van	2250	1975															
Van	2250	1976															
Van	2250	1977															
Van	2250	1978															
Van	2250	1979															
Van	2250	1980															
Van	2250	1981															
Van	2250	1982															
Van	2250	1983	100.0%		33.3%						100.0%						
Van	2250	1984	100.0%		40.0%						100.0%						

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	2250	1985																
Van	2250	1986																
Van	2250	1987																
Van	2250	1988																
Van	2250	1989																
Van	2250	1990																
Van	2250	1991																
Van	2250	1992																
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Van	2250	2010																
Van	2250	2011																
Van	2250	2012																
Van	2750	1975																
Van	2750	1976																
Van	2750	1977																
Van	2750	1978																
Van	2750	1979																
Van	2750	1980																
Van	2750	1981																
Van	2750	1982																

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	2250	1985															
Van	2250	1986															
Van	2250	1987															
Van	2250	1988															
Van	2250	1989															
Van	2250	1990															
Van	2250	1991															
Van	2250	1992															
Van	2250	1993															
Van	2250	1994															
Van	2250	1995															
Van	2250	1996															
Van	2250	1997															
Van	2250	1998															
Van	2250	1999															
Van	2250	2000															
Van	2250	2001															
Van	2250	2002															
Van	2250	2003															
Van	2250	2004															
Van	2250	2005															
Van	2250	2006															
Van	2250	2007															
Van	2250	2008															
Van	2250	2009															
Van	2250	2010															
Van	2250	2011															
Van	2250	2012															
Van	2750	1975															
Van	2750	1976															
Van	2750	1977															
Van	2750	1978															
Van	2750	1979															
Van	2750	1980															
Van	2750	1981															
Van	2750	1982															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	2750	1983																
Van	2750	1984	15	0.001	29.8	24.0	26.9	25.3	2750		122	88	14.1	0.721	0.0320	34.8		
Van	2750	1985	8	0.001	29.8	23.5	28.2	25.4	2750		122	88	14.0	0.721	0.0320	35.0		
Van	2750	1986	5	0.000	29.4	23.6	26.7	24.9	2750		122	88	14.1	0.721	0.0320	34.3		
Van	2750	1987	4	0.000	29.3	23.3	26.4	24.7	2750		122	88	14.1	0.721	0.0320	34.0		
Van	2750	1988																
Van	2750	1989																
Van	2750	1990																
Van	2750	1991																
Van	2750	1992																
Van	2750	1993																
Van	2750	1994																
Van	2750	1995																
Van	2750	1996																
Van	2750	1997																
Van	2750	1998																
Van	2750	1999																
Van	2750	2000																
Van	2750	2001																
Van	2750	2002																
Van	2750	2003																
Van	2750	2004																
Van	2750	2005																
Van	2750	2006																
Van	2750	2007																
Van	2750	2008																
Van	2750	2009																
Van	2750	2010																
Van	2750	2011																
Van	2750	2012																
Van	3000	1975	0	0.000	21.2	16.1	21.6	18.2	3000		109	67	18.6	0.615	0.0223	27.2		
Van	3000	1976																
Van	3000	1977																
Van	3000	1978																
Van	3000	1979																
Van	3000	1980																

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	2750	1983															
Van	2750	1984	100.0%		42.3%	57.7%											
Van	2750	1985	100.0%		77.4%	22.6%											
Van	2750	1986	100.0%		52.5%	47.5%											
Van	2750	1987	100.0%		47.8%	52.2%											
Van	2750	1988															
Van	2750	1989															
Van	2750	1990															
Van	2750	1991															
Van	2750	1992															
Van	2750	1993															
Van	2750	1994															
Van	2750	1995															
Van	2750	1996															
Van	2750	1997															
Van	2750	1998															
Van	2750	1999															
Van	2750	2000															
Van	2750	2001															
Van	2750	2002															
Van	2750	2003															
Van	2750	2004															
Van	2750	2005															
Van	2750	2006															
Van	2750	2007															
Van	2750	2008															
Van	2750	2009															
Van	2750	2010															
Van	2750	2011															
Van	2750	2012															
Van	3000	1975			71.4%					100.0%							
Van	3000	1976															
Van	3000	1977															
Van	3000	1978															
Van	3000	1979															
Van	3000	1980															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	3000	1981																
Van	3000	1982																
Van	3000	1983																
Van	3000	1984	31	0.002	25.7	20.4	23.8	21.8	3000		134	92	14.6	0.691	0.0307	33.0		
Van	3000	1985	56	0.004	26.1	21.1	23.7	22.2	3000		128	94	14.5	0.733	0.0313	33.4		
Van	3000	1986	50	0.003	26.9	21.3	24.9	22.8	3000		128	92	14.6	0.717	0.0306	34.3		
Van	3000	1987	59	0.004	26.6	21.2	23.9	22.4	3000		130	96	14.2	0.742	0.0320	33.7		
Van	3000	1988	17	0.001	27.4	21.5	24.9	23.0	3000		124	97	14.0	0.782	0.0323	34.6		
Van	3000	1989	13	0.001	26.3	20.6	23.8	22.0	3000		124	97	14.0	0.783	0.0323	33.1		
Van	3000	1990	5	0.000	26.4	20.3	24.3	22.0	3000		137	116	12.4	0.842	0.0387	33.1		
Van	3000	1991	8	0.001	26.2	20.3	23.5	21.7	3000		122	96	14.1	0.789	0.0321	32.6		
Van	3000	1992	23	0.002	28.3	21.2	26.4	23.5	3000		119	114	12.4	0.963	0.0379	35.3		
Van	3000	1993	11	0.001	28.5	21.1	26.6	23.5	3000		120	119	12.0	0.994	0.0397	35.4		
Van	3000	1994	5	0.000	28.4	20.8	26.7	23.4	3000		127	124	11.6	0.981	0.0414	35.3		
Van	3000	1995	4	0.000	27.7	20.1	26.1	22.8	3000		130	127	11.4	0.974	0.0422	34.4		
Van	3000	1996	0	0.000	27.7	19.9	26.0	22.7	3000		134	127	11.4	0.954	0.0424	34.1		
Van	3000	1997																
Van	3000	1998																
Van	3000	1999																
Van	3000	2000																
Van	3000	2001																
Van	3000	2002																
Van	3000	2003																
Van	3000	2004																
Van	3000	2005																
Van	3000	2006																
Van	3000	2007																
Van	3000	2008																
Van	3000	2009																
Van	3000	2010																
Van	3000	2011																
Van	3000	2012																
Van	3500	1975	17	0.002	19.0	14.5	18.9	16.2	3500		214	98	15.9	0.466	0.0280	28.4		
Van	3500	1976	12	0.001	19.5	15.4	18.3	16.6	3500		211	96	16.3	0.460	0.0273	29.1		
Van	3500	1977	10	0.001	20.2	16.4	18.2	17.1	3500		201	92	16.8	0.471	0.0264	30.1		
Van	3500	1978	12	0.001	19.4	15.6	17.7	16.5	3500		200	101	15.8	0.509	0.0288	28.9		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	3000	1981															
Van	3000	1982															
Van	3000	1983															
Van	3000	1984	69.4%		32.4%	23.6%			30.6%								
Van	3000	1985	51.2%	5.3%	22.2%	50.3%			43.5%								
Van	3000	1986	43.5%	26.9%	62.2%	32.2%			29.6%								
Van	3000	1987	38.2%	14.4%	31.7%	68.3%			69.3%								
Van	3000	1988	68.9%	19.5%	41.5%	58.5%			100.0%								
Van	3000	1989	73.5%	18.0%	35.0%	65.0%			99.3%	0.7%							
Van	3000	1990	71.5%	8.5%	57.2%	42.8%			97.2%	2.8%							
Van	3000	1991	78.8%	21.2%	32.2%	67.8%			100.0%								
Van	3000	1992	99.5%	0.5%	35.3%	64.7%			100.0%								
Van	3000	1993	100.0%		13.3%	86.7%			100.0%								
Van	3000	1994	51.0%	49.0%	21.4%	78.6%			100.0%			4.8%	49.0%	46.2%			
Van	3000	1995	40.5%	59.5%	16.4%	83.6%			100.0%					100.0%			
Van	3000	1996	100.0%		13.2%	86.8%			100.0%					100.0%			
Van	3000	1997															
Van	3000	1998															
Van	3000	1999															
Van	3000	2000															
Van	3000	2001															
Van	3000	2002															
Van	3000	2003															
Van	3000	2004															
Van	3000	2005															
Van	3000	2006															
Van	3000	2007															
Van	3000	2008															
Van	3000	2009															
Van	3000	2010															
Van	3000	2011															
Van	3000	2012															
Van	3500	1975			18.7%					6.1%							
Van	3500	1976			24.4%					13.3%							
Van	3500	1977			28.8%					23.2%							
Van	3500	1978			28.4%					23.4%							

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	3500	1979	8	0.001	18.7	14.8	17.6	16.0	3500		120	67	20.9	0.558	0.0191	28.0		
Van	3500	1980	17	0.002	19.0	14.9	17.9	16.1	3500		151	77	19.3	0.524	0.0219	28.3		
Van	3500	1981	16	0.001	19.3	15.5	17.7	16.4	3500		172	81	18.6	0.490	0.0230	28.8		
Van	3500	1982	25	0.003	20.9	16.9	18.9	17.8	3500		179	82	18.7	0.473	0.0233	31.9		
Van	3500	1983	10	0.001	19.5	15.5	18.2	16.6	3500		119	69	20.5	0.582	0.0198	29.4		
Van	3500	1984	164	0.012	24.2	19.3	22.4	20.6	3500		139	96	16.1	0.694	0.0275	36.3		
Van	3500	1985	292	0.020	23.5	18.7	21.9	20.0	3500		154	102	15.4	0.673	0.0293	35.2		
Van	3500	1986	320	0.021	24.3	19.1	22.7	20.6	3500		152	102	15.3	0.674	0.0292	36.2		
Van	3500	1987	329	0.022	24.1	18.7	22.7	20.4	3500		162	120	13.8	0.735	0.0343	35.8		
Van	3500	1988	262	0.017	24.5	18.8	23.2	20.6	3500		166	123	13.5	0.736	0.0353	36.2		
Van	3500	1989	264	0.018	24.3	18.7	22.5	20.4	3500		159	120	13.9	0.753	0.0343	35.7		
Van	3500	1990	213	0.017	25.2	19.0	23.9	21.1	3500		170	129	13.0	0.758	0.0368	37.0		
Van	3500	1991	63	0.005	25.3	19.2	23.5	21.0	3500		161	109	14.9	0.674	0.0312	36.9		
Van	3500	1992	84	0.007	25.7	19.4	23.7	21.3	3500		156	110	14.6	0.707	0.0314	37.3		
Van	3500	1993	220	0.017	25.3	18.6	24.0	21.0	3500		176	133	12.6	0.755	0.0380	36.7		
Van	3500	1994	144	0.010	24.7	18.3	22.9	20.4	3500		173	131	12.8	0.755	0.0374	35.7		
Van	3500	1995	237	0.016	25.1	18.4	23.4	20.6	3500		171	137	12.2	0.807	0.0391	36.2		
Van	3500	1996	33	0.002	27.0	19.4	25.6	22.1	3500		145	144	11.6	1.013	0.0411	39.0		
Van	3500	1997	33	0.002	24.2	17.6	22.2	19.7	3500		145	133	12.4	0.927	0.0379	34.6		
Van	3500	1998	16	0.001	27.0	19.3	24.9	21.9	3500		138	150	11.3	1.087	0.0429	38.4		
Van	3500	1999	1	0.000	26.9	19.3	24.3	21.7	3500		138	150	11.3	1.087	0.0429	37.9		
Van	3500	2000																
Van	3500	2001																
Van	3500	2002																
Van	3500	2003																
Van	3500	2004																
Van	3500	2005																
Van	3500	2006																
Van	3500	2007																
Van	3500	2008	16	0.001	30.7	20.9	27.3	24.1	3500		140	153	11.1	1.093	0.0437	42.2		
Van	3500	2009	22	0.002	30.3	20.7	26.8	23.8	3500		140	153	11.1	1.093	0.0437	41.6		
Van	3500	2010	57	0.005	30.5	21.4	25.7	23.6	3500		128	145	11.6	1.128	0.0413	41.4		
Van	3500	2011	28	0.002	30.1	20.9	25.9	23.5	3500		122	140	11.9	1.148	0.0400	41.1		
Van	3500	2012	48	0.004	30.6	21.0	26.8	23.9	3500		122	136	12.2	1.115	0.0389	41.9		
Van	4000	1975	262	0.026	14.0	11.2	12.9	11.9	4000		311	136	14.0	0.434	0.0340	24.5		
Van	4000	1976	293	0.024	14.1	11.2	13.1	12.0	4000		323	142	13.5	0.437	0.0356	24.7		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	3500	1979			81.2%					100.0%							
Van	3500	1980			62.8%	25.0%				70.1%							
Van	3500	1981			55.9%	34.3%				50.6%							
Van	3500	1982			62.9%	32.5%				25.1%	15.0%						
Van	3500	1983			79.6%					96.9%	3.1%						
Van	3500	1984	68.8%		27.1%	15.7%			21.6%	9.6%							
Van	3500	1985	76.3%		15.2%	14.6%			10.1%	6.6%							
Van	3500	1986	71.0%		9.6%	23.5%			22.0%	2.7%							
Van	3500	1987	75.9%	1.8%	9.6%	52.8%			50.5%	8.5%							
Van	3500	1988	80.7%	1.7%	7.3%	63.9%			63.5%	36.5%							
Van	3500	1989	84.5%	1.3%	5.6%	30.6%			53.6%	46.4%							
Van	3500	1990	92.4%	1.3%	5.0%	90.9%			72.1%	27.9%							
Van	3500	1991	81.4%	3.6%	4.1%	95.9%			28.9%	71.1%							
Van	3500	1992	85.5%	7.3%	8.6%	91.4%			35.5%	64.5%							
Van	3500	1993	96.5%	0.1%	2.9%	97.1%			80.2%	19.8%							
Van	3500	1994	96.5%	0.7%	2.8%	97.2%			73.4%	26.6%		99.3%	0.7%				
Van	3500	1995	95.4%	0.8%	0.2%	99.8%			87.5%	12.5%		85.7%		14.3%			
Van	3500	1996	76.3%	0.4%	0.1%	99.9%			100.0%			24.5%		75.5%			
Van	3500	1997	73.1%			100.0%			100.0%			26.9%		73.1%			
Van	3500	1998	100.0%			100.0%			100.0%					100.0%			
Van	3500	1999	100.0%			100.0%			100.0%					100.0%			
Van	3500	2000															
Van	3500	2001															
Van	3500	2002															
Van	3500	2003															
Van	3500	2004															
Van	3500	2005															
Van	3500	2006															
Van	3500	2007															
Van	3500	2008	100.0%		4.9%	95.1%			100.0%					100.0%		100.0%	
Van	3500	2009	100.0%		4.8%	95.2%			100.0%					100.0%		100.0%	
Van	3500	2010	100.0%		2.4%	97.6%			100.0%					100.0%		35.3%	
Van	3500	2011	100.0%			100.0%			100.0%					100.0%			
Van	3500	2012	100.0%			100.0%			100.0%					100.0%			
Van	4000	1975			34.8%												
Van	4000	1976			30.9%												

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	4000	1977	262	0.019	16.1	13.0	14.6	13.7	4000		323	148	12.9	0.457	0.0371	27.7		
Van	4000	1978	310	0.021	15.6	12.7	14.1	13.3	4000		321	142	13.2	0.444	0.0356	27.0		
Van	4000	1979	83	0.006	16.5	13.5	14.8	14.0	4000		275	128	14.3	0.468	0.0320	28.4		
Van	4000	1980	90	0.008	18.4	14.6	17.0	15.6	4000		263	121	15.0	0.466	0.0304	31.4		
Van	4000	1981	82	0.008	18.7	14.9	17.4	15.9	4000		262	120	15.2	0.463	0.0300	32.1		
Van	4000	1982	85	0.009	18.8	15.0	17.4	16.0	4000		264	117	15.8	0.445	0.0292	32.4		
Van	4000	1983	102	0.010	18.8	15.0	17.5	16.0	4000		261	112	16.1	0.433	0.0281	32.4		
Van	4000	1984	160	0.011	18.0	14.3	16.8	15.3	4000		276	116	15.5	0.427	0.0290	31.0		
Van	4000	1985	184	0.013	19.8	15.6	18.6	16.8	4000		272	137	13.7	0.510	0.0342	34.1		
Van	4000	1986	316	0.021	21.1	16.3	20.5	18.0	4000		232	134	13.9	0.590	0.0335	36.0		
Van	4000	1987	401	0.027	21.7	16.6	21.0	18.4	4000		222	149	12.8	0.689	0.0371	36.9		
Van	4000	1988	559	0.037	22.2	16.8	21.7	18.8	4000		214	150	12.6	0.717	0.0374	37.6		
Van	4000	1989	674	0.047	22.5	16.9	21.9	18.9	4000		207	145	12.9	0.722	0.0364	38.0		
Van	4000	1990	684	0.054	22.2	16.6	21.5	18.7	4000		199	143	13.2	0.722	0.0357	37.5		
Van	4000	1991	686	0.055	22.5	16.8	21.5	18.8	4000		194	144	13.0	0.756	0.0361	37.8		
Van	4000	1992	758	0.062	22.6	16.7	21.7	18.9	4000		198	146	12.9	0.745	0.0365	37.8		
Van	4000	1993	826	0.063	22.6	16.5	22.0	18.9	4000		196	149	12.6	0.768	0.0373	37.8		
Van	4000	1994	849	0.060	22.7	16.5	21.9	18.9	4000		203	151	12.5	0.752	0.0378	37.8		
Van	4000	1995	990	0.065	22.9	16.4	22.4	19.0	4000		217	152	12.5	0.713	0.0380	38.0		
Van	4000	1996	956	0.073	23.5	16.8	22.6	19.4	4000		201	166	11.7	0.828	0.0415	38.8		
Van	4000	1997	792	0.055	23.4	16.6	22.5	19.3	4000		197	164	11.8	0.835	0.0409	38.6		
Van	4000	1998	1116	0.077	23.8	16.7	23.0	19.5	4000		202	174	11.2	0.863	0.0435	39.1		
Van	4000	1999	822	0.054	23.9	16.6	23.2	19.6	4000		198	168	11.5	0.857	0.0420	39.2		
Van	4000	2000	948	0.057	24.2	16.7	23.3	19.7	4000		194	171	11.3	0.892	0.0427	39.5		
Van	4000	2001	463	0.030	24.6	16.9	23.4	20.0	4000		194	183	10.7	0.953	0.0457	40.0		
Van	4000	2002	451	0.028	24.9	17.0	23.8	20.2	4000		196	186	10.6	0.956	0.0464	40.5		
Van	4000	2003	493	0.031	25.4	17.2	24.2	20.5	4000		199	185	10.6	0.934	0.0462	41.1		
Van	4000	2004	186	0.012	25.1	16.8	24.2	20.3	4000		203	185	10.6	0.917	0.0463	40.6		
Van	4000	2005	380	0.024	25.5	17.0	24.0	20.4	4000		198	182	10.8	0.926	0.0456	40.9		
Van	4000	2006	160	0.011	25.7	17.2	24.2	20.6	4000		190	183	10.7	0.969	0.0457	41.2		
Van	4000	2007	81	0.005	25.9	17.4	24.4	20.8	4000		190	184	10.7	0.976	0.0460	41.6		
Van	4000	2008																
Van	4000	2009																
Van	4000	2010																
Van	4000	2011																
Van	4000	2012																

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	4000	1977			23.4%												
Van	4000	1978			22.6%												
Van	4000	1979			34.8%	29.1%											
Van	4000	1980			41.3%	43.7%				4.1%							
Van	4000	1981	0.8%		33.7%	50.9%				4.0%							
Van	4000	1982			23.9%	55.3%				3.5%	2.3%						
Van	4000	1983			28.5%	40.0%				3.3%							
Van	4000	1984			21.2%	29.8%				3.4%							
Van	4000	1985	0.2%		10.2%	58.0%			0.2%	3.2%							
Van	4000	1986	0.1%		6.5%	86.3%			21.1%	51.1%							
Van	4000	1987	7.6%	1.7%	4.2%	90.3%			48.9%	46.1%							
Van	4000	1988	33.5%	0.2%	2.6%	93.8%			60.7%	39.3%							
Van	4000	1989	30.6%	0.4%	2.4%	96.5%			67.7%	32.3%							
Van	4000	1990	57.0%	10.0%	1.4%	97.1%			69.4%	30.6%							
Van	4000	1991	49.2%	12.6%	1.3%	98.4%			79.7%	20.3%							
Van	4000	1992	60.7%	1.8%	0.6%	99.4%			85.2%	14.8%							
Van	4000	1993	59.4%	1.1%	1.1%	98.9%			90.4%	9.6%							
Van	4000	1994	70.6%	3.1%	0.2%	99.8%			90.2%	9.8%		95.4%	2.7%	1.9%			
Van	4000	1995	79.7%	10.1%		100.0%			96.0%	4.0%		97.0%	1.4%	1.7%			
Van	4000	1996	90.3%			100.0%			100.0%			94.7%	1.1%	4.2%			
Van	4000	1997	87.9%			100.0%			100.0%			93.7%	1.1%	5.2%			
Van	4000	1998	96.2%			100.0%			100.0%			88.4%		11.6%			
Van	4000	1999	95.7%			100.0%			100.0%			84.1%		15.9%		8.5%	
Van	4000	2000	95.9%			100.0%			100.0%			74.3%		25.7%		13.9%	
Van	4000	2001	95.8%			100.0%			100.0%			67.4%		32.6%		18.6%	
Van	4000	2002	95.7%			100.0%			100.0%			67.0%		33.0%		24.5%	
Van	4000	2003	96.9%			100.0%			100.0%			80.4%		19.6%		15.5%	
Van	4000	2004	92.6%			100.0%			100.0%			84.7%		15.3%		12.0%	
Van	4000	2005	95.4%			89.6%	10.4%		100.0%			79.3%		20.7%			
Van	4000	2006	100.0%			78.1%	21.9%		100.0%			60.7%		39.3%		6.3%	
Van	4000	2007	100.0%			68.9%	31.1%		100.0%			58.7%		41.3%			
Van	4000	2008															
Van	4000	2009															
Van	4000	2010															
Van	4000	2011															
Van	4000	2012															

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	4500	1975	165	0.016	11.6	9.5	10.3	9.8	4500		333	155	13.6	0.464	0.0345	22.2		
Van	4500	1976	188	0.015	13.3	10.7	12.3	11.3	4500		330	153	13.8	0.463	0.0340	25.7		
Van	4500	1977	222	0.016	13.5	11.0	12.0	11.4	4500		342	157	13.5	0.458	0.0348	25.9		
Van	4500	1978	289	0.020	13.0	10.7	11.4	11.0	4500		341	157	13.4	0.460	0.0348	24.9		
Van	4500	1979	273	0.020	13.6	11.1	12.0	11.5	4500		329	145	14.3	0.443	0.0322	26.3		
Van	4500	1980	91	0.008	16.3	13.1	15.1	13.9	4500		313	141	14.6	0.449	0.0313	31.5		
Van	4500	1981	121	0.011	17.1	13.7	15.7	14.6	4500		305	138	14.8	0.453	0.0306	33.0		
Van	4500	1982	164	0.017	16.8	13.5	15.3	14.2	4500		307	145	14.3	0.474	0.0323	32.3		
Van	4500	1983	215	0.021	17.3	13.7	16.1	14.7	4500		308	149	14.0	0.485	0.0332	33.3		
Van	4500	1984	245	0.017	17.0	13.4	16.0	14.4	4500		309	153	13.8	0.493	0.0339	32.8		
Van	4500	1985	258	0.018	16.1	12.8	14.9	13.7	4500		309	156	13.5	0.503	0.0346	30.9		
Van	4500	1986	284	0.019	17.5	13.8	16.2	14.8	4500		304	148	14.1	0.485	0.0328	33.4		
Van	4500	1987	252	0.017	17.3	13.5	16.2	14.7	4500		313	163	13.0	0.521	0.0363	33.1		
Van	4500	1988	184	0.012	17.9	13.9	16.8	15.1	4500		321	169	12.6	0.528	0.0376	34.0		
Van	4500	1989	223	0.015	17.5	13.5	16.5	14.8	4500		323	175	12.4	0.541	0.0389	33.3		
Van	4500	1990	268	0.021	18.7	14.1	17.9	15.7	4500		306	174	12.4	0.569	0.0387	35.6		
Van	4500	1991	211	0.017	19.1	14.3	18.4	16.0	4500		294	170	12.7	0.580	0.0377	36.4		
Van	4500	1992	242	0.020	19.2	14.3	18.3	16.1	4500		288	179	12.2	0.626	0.0398	36.5		
Van	4500	1993	251	0.019	19.8	14.6	19.0	16.5	4500		282	180	12.1	0.646	0.0400	37.3		
Van	4500	1994	278	0.020	19.3	14.2	18.3	16.1	4500		283	187	11.7	0.664	0.0414	36.5		
Van	4500	1995	291	0.019	19.1	14.0	18.1	15.8	4500		292	190	11.5	0.662	0.0421	35.9		
Van	4500	1996	291	0.022	20.6	14.8	20.0	17.1	4500		248	177	12.2	0.716	0.0393	38.8		
Van	4500	1997	275	0.019	20.7	14.8	19.9	17.1	4500		252	182	11.9	0.727	0.0405	38.8		
Van	4500	1998	188	0.013	21.5	15.3	20.6	17.7	4500		242	186	11.6	0.770	0.0413	39.9		
Van	4500	1999	426	0.028	22.1	15.5	21.2	18.1	4500		234	193	11.3	0.826	0.0428	40.8		
Van	4500	2000	578	0.035	22.3	15.5	21.4	18.2	4500		232	192	11.4	0.832	0.0426	41.2		
Van	4500	2001	462	0.030	23.5	16.2	22.5	19.1	4500		217	196	11.2	0.908	0.0436	43.2		
Van	4500	2002	623	0.039	23.3	16.0	22.2	18.9	4500		220	206	10.8	0.941	0.0458	42.8		
Van	4500	2003	564	0.036	23.6	16.1	22.4	19.1	4500		222	211	10.6	0.955	0.0468	43.1		
Van	4500	2004	644	0.041	24.2	16.2	23.1	19.5	4500		216	221	10.1	1.033	0.0492	44.1		
Van	4500	2005	955	0.060	24.1	16.1	22.9	19.4	4500		218	219	10.2	1.012	0.0487	43.7		
Van	4500	2006	928	0.061	24.5	16.3	23.5	19.8	4500		216	215	10.4	1.000	0.0477	44.5		
Van	4500	2007	734	0.048	24.2	16.1	23.3	19.6	4500		219	230	9.9	1.051	0.0510	44.1		
Van	4500	2008	713	0.051	24.7	16.4	23.6	19.9	4500		218	221	10.4	1.014	0.0490	44.8		
Van	4500	2009	256	0.028	24.7	16.5	23.5	19.9	4500		216	219	10.4	1.019	0.0486	44.7		
Van	4500	2010	361	0.033	24.4	16.3	23.3	19.7	4500		221	210	10.7	0.955	0.0467	44.3		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	4500	1975			6.2%												
Van	4500	1976			5.0%												
Van	4500	1977			3.8%												
Van	4500	1978			2.6%												
Van	4500	1979			11.3%	0.9%											
Van	4500	1980			14.5%	47.9%											
Van	4500	1981	0.2%		13.3%	48.8%											
Van	4500	1982			6.8%	46.6%											
Van	4500	1983			3.4%	68.7%											
Van	4500	1984			2.9%	76.7%											
Van	4500	1985			1.0%	73.3%											
Van	4500	1986			0.6%	78.0%			21.6%		0.0%						
Van	4500	1987			1.0%	56.3%			32.2%	45.0%	0.0%						
Van	4500	1988			0.9%	60.4%			16.5%	82.8%	0.0%						
Van	4500	1989		0.1%	0.7%	71.9%			20.8%	79.1%	0.0%						
Van	4500	1990		4.2%	0.0%	89.1%			9.2%	90.8%	0.0%						
Van	4500	1991		10.8%	0.1%	94.3%			12.7%	87.2%	0.0%						
Van	4500	1992		13.6%	0.0%	97.4%			31.2%	68.8%							
Van	4500	1993	1.3%	14.9%		98.7%			32.3%	67.7%							
Van	4500	1994	0.0%	14.8%		96.6%			49.7%	50.3%		98.4%	1.3%	0.3%			
Van	4500	1995		7.5%		97.8%			56.0%	44.0%		97.5%	1.0%	1.5%			
Van	4500	1996	52.1%	6.1%		97.8%			100.0%			98.3%	1.3%	0.4%			
Van	4500	1997	35.5%	13.3%		98.0%			100.0%			97.8%	1.7%	0.5%			
Van	4500	1998	40.3%	14.7%		100.0%			100.0%			95.4%		4.6%			
Van	4500	1999	76.0%	4.8%		100.0%			100.0%			88.2%		11.8%		11.8%	
Van	4500	2000	78.4%	3.7%		100.0%			100.0%			78.9%		21.1%		21.1%	
Van	4500	2001	88.5%	1.9%		100.0%			100.0%			72.8%		27.2%		26.7%	
Van	4500	2002	90.9%	2.8%		100.0%			100.0%			75.3%		24.7%		23.9%	
Van	4500	2003	88.6%	6.0%		100.0%			100.0%			69.9%		30.1%		29.3%	
Van	4500	2004	93.2%	5.0%		100.0%			100.0%			35.2%		64.8%		64.8%	
Van	4500	2005	92.3%	6.6%		96.2%	3.8%		100.0%			57.4%		42.6%		38.8%	
Van	4500	2006	95.6%	4.4%		97.9%	2.1%		100.0%			48.0%		52.0%		44.7%	
Van	4500	2007	97.2%	2.8%		98.3%	1.7%		100.0%			43.4%		56.6%		56.2%	
Van	4500	2008	96.1%	3.9%		100.0%			100.0%			48.3%		51.7%		51.0%	
Van	4500	2009	97.4%	2.6%		100.0%			100.0%			53.1%		46.9%		39.6%	
Van	4500	2010	98.4%	1.6%		100.0%			100.0%			70.4%		29.6%		29.6%	

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	4500	2011	455	0.038	26.6	17.7	25.2	21.3	4500		214	266	8.7	1.243	0.0592	48.0		
Van	4500	2012	591	0.044	26.6	17.6	25.4	21.4	4500		216	270	8.6	1.247	0.0600	48.1		
Van	5000	1975	12	0.001	12.0	9.7	10.7	10.2	5000		398	200	12.3	0.497	0.0401	25.5		
Van	5000	1976	8	0.001	12.4	10.1	10.9	10.5	5000		370	169	13.9	0.455	0.0338	26.3		
Van	5000	1977	18	0.001	12.4	10.0	11.2	10.5	5000		404	187	12.6	0.464	0.0375	26.3		
Van	5000	1978	12	0.001	12.5	10.3	11.0	10.6	5000		389	183	12.9	0.470	0.0365	26.5		
Van	5000	1979	96	0.007	11.8	9.6	10.6	10.0	5000		347	155	14.9	0.446	0.0309	25.4		
Van	5000	1980	35	0.003	14.2	11.4	13.1	12.1	5000		334	148	15.3	0.441	0.0295	30.3		
Van	5000	1981	26	0.002	14.8	11.9	13.6	12.6	5000		325	145	15.5	0.448	0.0290	31.8		
Van	5000	1982	36	0.004	15.1	12.1	13.8	12.8	5000		320	144	15.6	0.450	0.0288	32.3		
Van	5000	1983	49	0.005	17.1	13.5	16.0	14.5	5000		336	143	15.7	0.431	0.0286	38.0		
Van	5000	1984	54	0.004	15.6	12.3	14.7	13.3	5000		329	155	14.9	0.472	0.0310	34.1		
Van	5000	1985	52	0.004	15.4	12.2	14.4	13.1	5000		323	158	14.6	0.486	0.0315	33.3		
Van	5000	1986	62	0.004	16.0	12.5	15.0	13.5	5000		326	162	14.4	0.495	0.0324	34.2		
Van	5000	1987	64	0.004	15.9	12.3	15.0	13.4	5000		323	167	14.0	0.516	0.0334	33.9		
Van	5000	1988	100	0.007	16.7	12.8	16.1	14.2	5000		312	156	14.7	0.500	0.0313	35.6		
Van	5000	1989	99	0.007	16.5	12.5	15.8	13.9	5000		315	159	14.5	0.503	0.0318	35.0		
Van	5000	1990	84	0.007	16.5	12.5	15.7	13.9	5000		317	165	14.1	0.519	0.0331	34.8		
Van	5000	1991	56	0.004	16.6	12.5	15.8	13.9	5000		315	165	14.1	0.522	0.0330	34.9		
Van	5000	1992	92	0.008	17.5	13.1	16.7	14.7	5000		305	169	13.8	0.557	0.0339	36.9		
Van	5000	1993	101	0.008	17.7	13.1	16.9	14.8	5000		306	184	12.8	0.607	0.0369	37.1		
Van	5000	1994	108	0.008	17.6	12.9	17.0	14.7	5000		308	190	12.5	0.623	0.0381	36.8		
Van	5000	1995	106	0.007	17.8	13.0	16.9	14.7	5000		302	184	12.9	0.613	0.0367	36.9		
Van	5000	1996	100	0.008	17.8	12.9	17.0	14.8	5000		317	203	12.0	0.644	0.0407	37.0		
Van	5000	1997	136	0.009	19.0	13.7	18.1	15.7	5000		296	219	11.1	0.743	0.0438	39.3		
Van	5000	1998	135	0.009	18.6	13.3	17.8	15.4	5000		295	217	11.2	0.738	0.0433	38.5		
Van	5000	1999	176	0.012	18.2	13.0	17.3	15.0	5000		296	219	11.2	0.741	0.0437	37.4		
Van	5000	2000	145	0.009	18.4	13.1	17.1	15.0	5000		292	219	11.2	0.751	0.0437	37.6		
Van	5000	2001	174	0.011	19.1	13.4	17.9	15.5	5000		284	226	10.8	0.800	0.0452	39.0		
Van	5000	2002	155	0.010	18.7	13.2	17.3	15.2	5000		262	210	11.5	0.813	0.0420	38.1		
Van	5000	2003	137	0.009	19.3	13.5	17.7	15.6	5000		252	205	11.8	0.820	0.0409	39.1		
Van	5000	2004	101	0.006	20.4	13.9	19.4	16.5	5000		241	205	11.7	0.857	0.0410	41.5		
Van	5000	2005	130	0.008	20.7	14.0	19.6	16.7	5000		235	202	11.9	0.869	0.0404	41.9		
Van	5000	2006	63	0.004	19.9	13.7	18.1	15.9	5000		267	216	11.3	0.810	0.0432	39.9		
Van	5000	2007	23	0.002	20.4	14.1	18.7	16.4	5000		269	205	11.8	0.761	0.0411	41.0		
Van	5000	2008	51	0.004	23.9	16.1	22.5	19.2	5000		249	232	10.7	0.939	0.0464	48.6		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	4500	2011	98.5%	1.5%		96.5%	3.5%		100.0%					100.0%		100.0%	
Van	4500	2012	99.0%	1.0%		90.4%	9.6%		100.0%					100.0%		100.0%	
Van	5000	1975			13.1%												
Van	5000	1976			1.9%												
Van	5000	1977			2.7%												
Van	5000	1978			1.0%												
Van	5000	1979			4.3%	6.5%											
Van	5000	1980			5.0%	19.9%											
Van	5000	1981			4.8%	31.7%											
Van	5000	1982			4.7%	29.4%											
Van	5000	1983			2.6%	69.4%					26.9%						
Van	5000	1984			3.5%	51.9%					8.4%						
Van	5000	1985			1.5%	65.2%					2.8%						
Van	5000	1986			0.7%	58.7%			23.5%		1.4%						
Van	5000	1987			0.4%	48.1%			40.0%	13.6%	0.6%						
Van	5000	1988			0.0%	74.2%			84.0%	14.3%	0.7%						
Van	5000	1989			0.0%	76.6%			83.0%	16.5%	0.5%						
Van	5000	1990		0.3%		86.9%			81.8%	17.5%	0.7%						
Van	5000	1991				86.4%			82.8%	16.3%	0.8%						
Van	5000	1992		15.4%		81.4%			90.0%	9.5%	0.5%						
Van	5000	1993		18.3%		86.4%			94.3%	5.7%							
Van	5000	1994		18.3%		88.0%			98.0%	2.0%		100.0%					
Van	5000	1995	1.7%	22.7%	0.7%	87.0%			90.2%	9.8%		100.0%					
Van	5000	1996		15.2%		93.1%			100.0%			100.0%					
Van	5000	1997		16.9%		100.0%			100.0%			100.0%					
Van	5000	1998		15.3%		100.0%			100.0%			100.0%					
Van	5000	1999	0.1%	11.3%		100.0%			100.0%			99.9%		0.1%			
Van	5000	2000		16.7%		100.0%			100.0%			100.0%					
Van	5000	2001		12.7%		100.0%			100.0%			100.0%					
Van	5000	2002	32.1%	13.3%		100.0%			100.0%			67.9%		32.1%			
Van	5000	2003	37.7%	15.3%		100.0%			100.0%			62.3%		37.7%			
Van	5000	2004	52.5%	10.0%		100.0%			100.0%			47.5%		52.5%			
Van	5000	2005	58.9%	10.5%		100.0%			100.0%			41.1%		58.9%			
Van	5000	2006		13.0%		100.0%			100.0%			100.0%					
Van	5000	2007				100.0%			100.0%			100.0%					
Van	5000	2008	63.9%			100.0%			100.0%			36.1%		63.9%			

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	5000	2009	84	0.009	25.3	16.7	24.5	20.4	5000		226	239	10.3	1.066	0.0479	51.3		
Van	5000	2010	134	0.012	25.3	16.7	24.7	20.5	5000		228	243	10.2	1.075	0.0487	51.3		
Van	5000	2011	27	0.002	22.9	15.6	21.1	18.3	5000		225	247	10.2	1.120	0.0493	45.9		
Van	5000	2012	28	0.002	22.1	15.1	20.6	17.8	5000		245	233	10.7	0.978	0.0467	44.9		
Van	5500	1975																
Van	5500	1976	0	0.000	11.1	9.0	10.0	9.4	5500		350	160	15.4	0.457	0.0291	25.9		
Van	5500	1977																
Van	5500	1978																
Van	5500	1979	17	0.001	11.4	9.5	9.9	9.7	5500		377	168	15.6	0.438	0.0305	26.9		
Van	5500	1980	8	0.001	12.4	10.0	11.2	10.5	5500		356	154	16.0	0.431	0.0279	28.9		
Van	5500	1981	1	0.000	12.3	9.9	11.2	10.5	5500		346	154	15.9	0.447	0.0281	29.0		
Van	5500	1982	0	0.000	13.4	10.9	12.1	11.4	5500		337	143	16.8	0.427	0.0260	31.4		
Van	5500	1983	5	0.000	18.2	14.2	17.5	15.5	5500		369	140	17.2	0.383	0.0255	46.3		
Van	5500	1984	6	0.000	14.5	11.4	13.9	12.4	5500		362	158	15.8	0.438	0.0287	37.1		
Van	5500	1985	5	0.000	12.9	10.3	12.0	11.0	5500		351	180	14.1	0.512	0.0327	30.4		
Van	5500	1986	6	0.000	15.0	12.0	13.7	12.7	5500		286	158	15.9	0.594	0.0288	36.6		
Van	5500	1987	5	0.000	14.6	11.3	13.8	12.4	5500		346	196	13.2	0.564	0.0356	34.6		
Van	5500	1988	10	0.001	14.2	11.0	13.3	12.0	5500		347	195	13.2	0.562	0.0355	33.4		
Van	5500	1989	5	0.000	14.4	11.2	13.4	12.1	5500		343	192	13.5	0.559	0.0349	34.0		
Van	5500	1990	9	0.001	14.4	10.7	14.3	12.2	5500		347	199	13.0	0.574	0.0363	33.7		
Van	5500	1991	10	0.001	15.2	11.3	14.9	12.8	5500		334	187	13.8	0.556	0.0340	35.3		
Van	5500	1992	18	0.002	15.9	11.8	15.3	13.3	5500		323	178	14.4	0.548	0.0323	36.8		
Van	5500	1993	31	0.002	16.1	12.1	15.2	13.4	5500		321	178	14.3	0.553	0.0324	37.1		
Van	5500	1994	27	0.002	16.2	12.1	15.1	13.5	5500		316	174	14.6	0.550	0.0316	37.2		
Van	5500	1995	27	0.002	16.2	12.0	15.1	13.5	5500		314	172	14.8	0.545	0.0312	37.2		
Van	5500	1996	25	0.002	15.8	11.6	14.8	13.1	5500		314	169	15.0	0.536	0.0308	36.0		
Van	5500	1997	27	0.002	17.3	12.4	16.7	14.3	5500		288	212	12.4	0.743	0.0385	39.6		
Van	5500	1998	31	0.002	17.4	12.4	16.9	14.4	5500		296	217	12.1	0.738	0.0395	39.7		
Van	5500	1999	36	0.002	17.5	12.3	16.9	14.4	5500		294	226	11.8	0.772	0.0410	39.7		
Van	5500	2000	17	0.001	17.2	12.2	16.3	14.1	5500		296	221	12.1	0.753	0.0402	39.0		
Van	5500	2001	66	0.004	17.4	12.1	16.9	14.3	5500		314	249	10.8	0.798	0.0452	39.3		
Van	5500	2002	11	0.001	17.5	12.3	16.4	14.3	5500		298	228	11.6	0.782	0.0415	39.4		
Van	5500	2003	21	0.001	18.2	12.9	16.6	14.7	5500		312	264	10.4	0.845	0.0479	40.6		
Van	5500	2004	6	0.000	19.1	13.3	17.5	15.4	5500		298	251	10.8	0.842	0.0457	42.4		
Van	5500	2005	5	0.000	19.3	13.3	17.8	15.5	5500		301	260	10.6	0.859	0.0472	42.8		
Van	5500	2006	7	0.000	19.2	13.2	17.6	15.4	5500		293	250	10.9	0.847	0.0454	42.4		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	5000	2009	88.5%			100.0%			100.0%			11.5%		88.5%		58.9%	
Van	5000	2010	93.7%			100.0%			100.0%			6.3%		93.7%		57.5%	
Van	5000	2011		72.8%		100.0%			100.0%			27.2%		72.8%		72.8%	
Van	5000	2012		40.5%		100.0%			100.0%			59.5%		40.5%		40.5%	
Van	5500	1975															
Van	5500	1976															
Van	5500	1977															
Van	5500	1978															
Van	5500	1979			3.1%												
Van	5500	1980				0.8%											
Van	5500	1981			4.4%												
Van	5500	1982			2.3%	2.5%											
Van	5500	1983			0.6%	83.2%					61.2%						
Van	5500	1984			1.0%	59.3%					32.8%						
Van	5500	1985				44.9%											
Van	5500	1986			32.4%	35.0%					32.4%						
Van	5500	1987				50.7%			11.6%	39.1%							
Van	5500	1988				29.0%			71.4%	24.3%	1.1%						
Van	5500	1989				45.0%			66.2%	33.5%	0.3%						
Van	5500	1990				95.1%			82.5%	17.5%	0.0%						
Van	5500	1991				100.0%			89.0%	10.9%	0.0%						
Van	5500	1992				93.7%			92.9%	7.1%							
Van	5500	1993		0.6%		78.0%			89.5%	10.5%							
Van	5500	1994				74.1%			90.9%	9.1%		100.0%					
Van	5500	1995				70.8%			94.9%	5.1%		100.0%					
Van	5500	1996				61.5%			100.0%			100.0%					
Van	5500	1997	5.9%			100.0%			100.0%			100.0%					
Van	5500	1998				100.0%			100.0%			100.0%					
Van	5500	1999	2.8%			100.0%			100.0%			100.0%					
Van	5500	2000	10.0%			100.0%			100.0%			100.0%					
Van	5500	2001	1.9%	17.8%		100.0%			100.0%			98.1%		1.9%			
Van	5500	2002	7.2%			100.0%			100.0%			92.8%		7.2%			
Van	5500	2003	1.4%	1.9%		100.0%			100.0%			98.6%		1.4%			
Van	5500	2004		24.9%		100.0%			100.0%			100.0%					
Van	5500	2005		39.2%		100.0%			100.0%			100.0%					
Van	5500	2006		33.6%		100.0%			100.0%			100.0%					

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	5500	2007	2	0.000	19.2	13.2	18.0	15.6	5500		325	295	9.4	0.908	0.0536	42.8		
Van	5500	2008	5	0.000	19.3	13.6	17.3	15.5	5500		325	301	9.2	0.926	0.0547	42.5		
Van	5500	2009	3	0.000	17.8	12.5	15.9	14.2	5500		325	301	9.2	0.926	0.0547	39.2		
Van	5500	2010	3	0.000	18.6	12.9	16.9	14.9	5500		323	301	9.2	0.932	0.0547	41.0		
Van	5500	2011	3	0.000	18.5	12.8	16.9	14.9	5500		318	292	9.5	0.916	0.0530	40.9		
Van	5500	2012	7	0.001	18.5	12.8	16.9	14.9	5500		321	294	9.5	0.914	0.0534	41.0		
Van	6000	1975	1	0.000	11.1	9.1	9.7	9.4	6000		317	149	17.1	0.470	0.0248	28.5		
Van	6000	1976	1	0.000	11.9	9.7	10.6	10.1	6000		325	144	17.5	0.445	0.0240	30.5		
Van	6000	1977	1	0.000	13.0	10.9	11.2	11.0	6000		318	148	17.3	0.468	0.0247	33.2		
Van	6000	1978	1	0.000	12.5	10.4	10.9	10.6	6000		324	154	16.8	0.475	0.0256	31.9		
Van	6000	1979	3	0.000	10.6	8.4	10.1	9.1	6000		460	270	10.8	0.587	0.0450	27.2		
Van	6000	1980	1	0.000	10.9	9.1	9.4	9.2	6000		400	187	14.6	0.468	0.0312	27.7		
Van	6000	1981																
Van	6000	1982	0	0.000	11.9	9.5	10.8	10.1	6000		350	165	16.1	0.471	0.0275	30.3		
Van	6000	1983	0	0.000	12.6	10.1	11.6	10.7	6000		366	150	17.4	0.410	0.0250	32.2		
Van	6000	1984	0	0.000	12.9	10.4	11.8	10.9	6000		366	150	17.4	0.410	0.0250	32.8		
Van	6000	1985	1	0.000	21.3	16.2	21.5	18.2	6000		376	133	19.2	0.354	0.0222	55.7		
Van	6000	1986	1	0.000	23.1	17.5	22.9	19.6	6000		379	130	19.5	0.343	0.0217	58.9		
Van	6000	1987	0	0.000	22.9	17.4	22.4	19.4	6000		379	130	19.5	0.343	0.0217	58.1		
Van	6000	1988	0	0.000	21.7	16.1	21.9	18.4	6000		379	126	20.0	0.332	0.0210	55.2		
Van	6000	1989	0	0.000	21.3	16.0	20.8	18.0	6000		379	130	19.5	0.343	0.0217	54.0		
Van	6000	1990	0	0.000	21.5	15.8	21.7	18.2	6000		379	135	18.9	0.356	0.0225	54.5		
Van	6000	1991	0	0.000	20.4	15.2	19.8	17.1	6000		379	140	18.4	0.369	0.0233	51.4		
Van	6000	1992	4	0.000	15.0	10.8	15.2	12.6	6000		352	202	13.7	0.574	0.0337	38.0		
Van	6000	1993	0	0.000	21.3	15.7	20.2	17.7	6000		379	145	17.9	0.383	0.0242	53.0		
Van	6000	1994	6	0.000	15.5	11.2	15.4	13.0	6000		352	204	13.6	0.582	0.0341	39.0		
Van	6000	1995	6	0.000	16.1	11.5	15.9	13.4	6000		344	197	14.1	0.570	0.0328	40.3		
Van	6000	1996	5	0.000	16.1	11.5	15.9	13.4	6000		350	205	13.5	0.587	0.0342	40.2		
Van	6000	1997	3	0.000	16.5	11.7	16.4	13.8	6000		331	225	12.5	0.680	0.0375	41.3		
Van	6000	1998	2	0.000	16.6	11.7	16.5	13.8	6000		330	225	12.5	0.682	0.0375	41.4		
Van	6000	1999	3	0.000	16.2	11.4	15.9	13.4	6000		330	235	12.1	0.712	0.0392	40.2		
Van	6000	2000	3	0.000	16.3	11.6	15.3	13.4	6000		330	255	11.3	0.773	0.0425	40.1		
Van	6000	2001	67	0.004	16.0	11.2	15.4	13.1	6000		330	260	11.2	0.787	0.0433	39.4		
Van	6000	2002	4	0.000	17.1	12.0	16.0	13.9	6000		330	255	11.3	0.773	0.0425	41.8		
Van	6000	2003	17	0.001	18.5	12.8	17.4	15.0	6000		322	281	10.5	0.871	0.0468	45.3		
Van	6000	2004	16	0.001	18.7	13.1	17.2	15.1	6000		324	278	10.6	0.857	0.0463	45.5		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	5500	2007		100.0%		100.0%			100.0%			100.0%					
Van	5500	2008		48.5%		100.0%			100.0%			100.0%					
Van	5500	2009		55.0%		100.0%			100.0%			100.0%					
Van	5500	2010		64.7%		100.0%			100.0%			100.0%				100.0%	
Van	5500	2011		52.7%		100.0%			100.0%			88.6%		11.4%		82.1%	
Van	5500	2012		30.3%		100.0%			100.0%			100.0%				74.5%	
Van	6000	1975			85.3%												
Van	6000	1976			85.7%												
Van	6000	1977			65.6%												
Van	6000	1978			64.3%												
Van	6000	1979															
Van	6000	1980															
Van	6000	1981															
Van	6000	1982				100.0%											
Van	6000	1983															
Van	6000	1984															
Van	6000	1985			2.1%	97.9%					91.2%						
Van	6000	1986			2.2%	97.8%					100.0%						
Van	6000	1987			0.6%	99.4%					100.0%						
Van	6000	1988			0.9%	99.1%					100.0%						
Van	6000	1989			1.4%	98.6%					100.0%						
Van	6000	1990				100.0%					100.0%						
Van	6000	1991				100.0%					100.0%						
Van	6000	1992				100.0%			95.4%		4.6%						
Van	6000	1993				100.0%			100.0%								
Van	6000	1994				100.0%			100.0%			100.0%					
Van	6000	1995				100.0%			100.0%			100.0%					
Van	6000	1996				100.0%			100.0%			100.0%					
Van	6000	1997				100.0%			100.0%			100.0%					
Van	6000	1998				100.0%			100.0%			100.0%					
Van	6000	1999				100.0%			100.0%			100.0%					
Van	6000	2000				100.0%			100.0%			100.0%					
Van	6000	2001		95.4%		100.0%			100.0%			100.0%					
Van	6000	2002				100.0%			100.0%			100.0%					
Van	6000	2003		39.1%		100.0%			100.0%			100.0%					
Van	6000	2004		17.8%		100.0%			100.0%			100.0%					

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	6000	2005	11	0.001	18.2	12.7	16.5	14.7	6000		325	278	10.6	0.856	0.0463	44.0		
Van	6000	2006	9	0.001	18.2	12.6	16.6	14.6	6000		326	283	10.5	0.868	0.0471	44.0		
Van	6000	2007	6	0.000	18.1	12.6	16.5	14.6	6000		325	295	10.1	0.908	0.0492	43.8		
Van	6000	2008	5	0.000	17.6	12.4	15.8	14.1	6000		325	310	9.7	0.955	0.0517	42.3		
Van	6000	2009	3	0.000	17.7	12.5	15.9	14.2	6000		325	301	9.9	0.926	0.0502	42.7		
Van	6000	2010	4	0.000	18.4	12.8	16.6	14.7	6000		323	301	9.9	0.932	0.0502	44.2		
Van	6000	2011	6	0.001	17.8	12.5	16.1	14.3	6000		312	272	10.9	0.871	0.0454	42.9		
Van	6000	2012	9	0.001	17.6	12.3	16.1	14.2	6000		318	268	11.0	0.843	0.0447	42.6		
Van	6500	1975	1	0.000	10.6	8.9	9.0	9.0	6500		321	150	18.6	0.468	0.0231	29.2		
Van	6500	1976	1	0.000	11.5	9.4	10.4	9.8	6500		324	144	19.2	0.447	0.0222	31.9		
Van	6500	1977	2	0.000	12.3	10.3	10.6	10.4	6500		316	142	19.3	0.453	0.0219	34.0		
Van	6500	1978	1	0.000	11.7	9.7	10.3	9.9	6500		328	155	18.1	0.474	0.0239	32.3		
Van	6500	1979																
Van	6500	1980																
Van	6500	1981																
Van	6500	1982																
Van	6500	1983																
Van	6500	1984																
Van	6500	1985																
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Van	6500	1996																
Van	6500	1997																
Van	6500	1998																
Van	6500	1999																
Van	6500	2000																
Van	6500	2001																
Van	6500	2002																

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	6000	2005		18.6%		100.0%			100.0%			100.0%					
Van	6000	2006		19.0%		100.0%			100.0%			100.0%					
Van	6000	2007		28.6%		100.0%			100.0%			100.0%					
Van	6000	2008		32.9%		100.0%			100.0%			100.0%					
Van	6000	2009		37.3%		100.0%			100.0%			100.0%					
Van	6000	2010		33.3%		100.0%			100.0%			100.0%				100.0%	
Van	6000	2011		21.7%		100.0%			100.0%			100.0%				56.6%	
Van	6000	2012		9.8%		100.0%			100.0%			100.0%				34.6%	
Van	6500	1975															
Van	6500	1976			0.2%												
Van	6500	1977															
Van	6500	1978															
Van	6500	1979															
Van	6500	1980															
Van	6500	1981															
Van	6500	1982															
Van	6500	1983															
Van	6500	1984															
Van	6500	1985															
Van	6500	1986															
Van	6500	1987															
Van	6500	1988															
Van	6500	1989															
Van	6500	1990															
Van	6500	1991															
Van	6500	1992															
Van	6500	1993															
Van	6500	1994															
Van	6500	1995															
Van	6500	1996															
Van	6500	1997															
Van	6500	1998															
Van	6500	1999															
Van	6500	2000															
Van	6500	2001															
Van	6500	2002															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	6500	2003																
Van	6500	2004																
Van	6500	2005																
Van	6500	2006																
Van	6500	2007																
Van	6500	2008																
Van	6500	2009																
Van	6500	2010																
Van	6500	2011	1	0.000	16.1	11.1	15.0	13.0	6500		334	273	11.5	0.818	0.0420	42.4		
Van	6500	2012	1	0.000	15.9	11.0	14.9	12.9	6500		340	272	11.6	0.800	0.0418	42.1		
Van	7000	1975																
Van	7000	1976																
Van	7000	1977																
Van	7000	1978																
Van	7000	1979																
Van	7000	1980																
Van	7000	1981																
Van	7000	1982																
Van	7000	1983																
Van	7000	1984																
Van	7000	1985																
Van	7000	1986																
Van	7000	1987																
Van	7000	1988																
Van	7000	1989																
Van	7000	1990																
Van	7000	1991																
Van	7000	1992																
Van	7000	1993																
Van	7000	1994																
Van	7000	1995																
Van	7000	1996																
Van	7000	1997																
Van	7000	1998																
Van	7000	1999																
Van	7000	2000																

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	6500	2003															
Van	6500	2004															
Van	6500	2005															
Van	6500	2006															
Van	6500	2007															
Van	6500	2008															
Van	6500	2009															
Van	6500	2010															
Van	6500	2011				100.0%			100.0%			100.0%				33.9%	
Van	6500	2012				100.0%			100.0%			100.0%				22.1%	
Van	7000	1975															
Van	7000	1976															
Van	7000	1977															
Van	7000	1978															
Van	7000	1979															
Van	7000	1980															
Van	7000	1981															
Van	7000	1982															
Van	7000	1983															
Van	7000	1984															
Van	7000	1985															
Van	7000	1986															
Van	7000	1987															
Van	7000	1988															
Van	7000	1989															
Van	7000	1990															
Van	7000	1991															
Van	7000	1992															
Van	7000	1993															
Van	7000	1994															
Van	7000	1995															
Van	7000	1996															
Van	7000	1997															
Van	7000	1998															
Van	7000	1999															
Van	7000	2000															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	7000	2001																
Van	7000	2002																
Van	7000	2003																
Van	7000	2004																
Van	7000	2005																
Van	7000	2006																
Van	7000	2007																
Van	7000	2008																
Van	7000	2009																
Van	7000	2010																
Van	7000	2011	1	0.000	15.4	10.4	15.0	12.6	7000		368	322	10.6	0.876	0.0460	44.2		
Van	7000	2012	1	0.000	14.8	10.1	14.4	12.1	7000		383	317	10.8	0.832	0.0453	42.6		
Van	8000	1975																
Van	8000	1976																
Van	8000	1977																
Van	8000	1978																
Van	8000	1979																
Van	8000	1980																
Van	8000	1981																
Van	8000	1982																
Van	8000	1983																
Van	8000	1984																
Van	8000	1985																
Van	8000	1986																
Van	8000	1987																
Van	8000	1988																
Van	8000	1989																
Van	8000	1990																
Van	8000	1991																
Van	8000	1992																
Van	8000	1993																
Van	8000	1994																
Van	8000	1995																
Van	8000	1996																
Van	8000	1997																
Van	8000	1998																

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	7000	2001															
Van	7000	2002															
Van	7000	2003															
Van	7000	2004															
Van	7000	2005															
Van	7000	2006															
Van	7000	2007															
Van	7000	2008															
Van	7000	2009															
Van	7000	2010															
Van	7000	2011				100.0%			100.0%			100.0%				95.3%	
Van	7000	2012				100.0%			100.0%			100.0%				64.7%	
Van	8000	1975															
Van	8000	1976															
Van	8000	1977															
Van	8000	1978															
Van	8000	1979															
Van	8000	1980															
Van	8000	1981															
Van	8000	1982															
Van	8000	1983															
Van	8000	1984															
Van	8000	1985															
Van	8000	1986															
Van	8000	1987															
Van	8000	1988															
Van	8000	1989															
Van	8000	1990															
Van	8000	1991															
Van	8000	1992															
Van	8000	1993															
Van	8000	1994															
Van	8000	1995															
Van	8000	1996															
Van	8000	1997															
Van	8000	1998															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	8000	1999																
Van	8000	2000																
Van	8000	2001																
Van	8000	2002																
Van	8000	2003																
Van	8000	2004																
Van	8000	2005																
Van	8000	2006																
Van	8000	2007																
Van	8000	2008																
Van	8000	2009																
Van	8000	2010																
Van	8000	2011																
Van	8000	2012	0	0.000	14.5	9.8	14.3	12.0	8000		366	324	11.8	0.885	0.0405	47.8		
Truck SUV	2000	1975																
Truck SUV	2000	1976																
Truck SUV	2000	1977																
Truck SUV	2000	1978																
Truck SUV	2000	1979	1	0.000	25.7	20.9	23.0	21.8	2000		49	41	19.7	0.837	0.0205	21.8		
Truck SUV	2000	1980	3	0.000	25.2	20.3	22.9	21.4	2000		49	41	19.7	0.837	0.0205	21.4		
Truck SUV	2000	1981	1	0.000	25.2	20.3	22.9	21.4	2000		49	41	19.7	0.837	0.0205	21.4		
Truck SUV	2000	1982	1	0.000	25.2	21.3	21.3	21.3	2000		59	45	18.3	0.763	0.0225	21.3		
Truck SUV	2000	1983	1	0.000	25.2	21.3	21.3	21.3	2000		59	45	18.3	0.763	0.0225	21.3		
Truck SUV	2000	1984																
Truck SUV	2000	1985																
Truck SUV	2000	1986																
Truck SUV	2000	1987																
Truck SUV	2000	1988																
Truck SUV	2000	1989																
Truck SUV	2000	1990																
Truck SUV	2000	1991																
Truck SUV	2000	1992																
Truck SUV	2000	1993																
Truck SUV	2000	1994																
Truck SUV	2000	1995																
Truck SUV	2000	1996																

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	8000	1999															
Van	8000	2000															
Van	8000	2001															
Van	8000	2002															
Van	8000	2003															
Van	8000	2004															
Van	8000	2005															
Van	8000	2006															
Van	8000	2007															
Van	8000	2008															
Van	8000	2009															
Van	8000	2010															
Van	8000	2011															
Van	8000	2012				100.0%		100.0%				100.0%				100.0%	
Truck SUV	2000	1975															
Truck SUV	2000	1976															
Truck SUV	2000	1977															
Truck SUV	2000	1978															
Truck SUV	2000	1979		100.0%	100.0%												
Truck SUV	2000	1980		100.0%	100.0%												
Truck SUV	2000	1981		100.0%	100.0%												
Truck SUV	2000	1982		100.0%	100.0%												
Truck SUV	2000	1983		100.0%	100.0%												
Truck SUV	2000	1984															
Truck SUV	2000	1985															
Truck SUV	2000	1986															
Truck SUV	2000	1987															
Truck SUV	2000	1988															
Truck SUV	2000	1989															
Truck SUV	2000	1990															
Truck SUV	2000	1991															
Truck SUV	2000	1992															
Truck SUV	2000	1993															
Truck SUV	2000	1994															
Truck SUV	2000	1995															
Truck SUV	2000	1996															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	2000	1997																
Truck SUV	2000	1998																
Truck SUV	2000	1999																
Truck SUV	2000	2000																
Truck SUV	2000	2001																
Truck SUV	2000	2002																
Truck SUV	2000	2003																
Truck SUV	2000	2004																
Truck SUV	2000	2005																
Truck SUV	2000	2006																
Truck SUV	2000	2007																
Truck SUV	2000	2008																
Truck SUV	2000	2009																
Truck SUV	2000	2010																
Truck SUV	2000	2011																
Truck SUV	2000	2012																
Truck SUV	2250	1975																
Truck SUV	2250	1976																
Truck SUV	2250	1977																
Truck SUV	2250	1978																
Truck SUV	2250	1979																
Truck SUV	2250	1980																
Truck SUV	2250	1981																
Truck SUV	2250	1982	2	0.000	24.8	20.9	21.1	21.0	2250		59	45	20.1	0.763	0.0200	23.6		
Truck SUV	2250	1983	3	0.000	24.8	20.9	21.1	21.0	2250		59	45	20.1	0.763	0.0200	23.6		
Truck SUV	2250	1984	5	0.000	28.8	25.3	23.1	24.2	2250		59	45	20.1	0.763	0.0200	27.3		
Truck SUV	2250	1985	6	0.000	28.8	25.3	23.1	24.2	2250		61	45	20.1	0.738	0.0200	27.3		
Truck SUV	2250	1986	37	0.002	33.1	27.0	29.1	27.9	2250		81	64	15.3	0.790	0.0284	31.4		
Truck SUV	2250	1987	63	0.004	33.1	26.8	29.0	27.8	2250		81	64	15.3	0.790	0.0284	31.3		
Truck SUV	2250	1988	83	0.005	33.3	27.0	28.7	27.8	2250		81	64	15.3	0.790	0.0284	31.2		
Truck SUV	2250	1989	6	0.000	33.4	27.0	28.4	27.7	2250		80	64	15.3	0.797	0.0284	31.2		
Truck SUV	2250	1990																
Truck SUV	2250	1991																
Truck SUV	2250	1992																
Truck SUV	2250	1993																
Truck SUV	2250	1994																

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	2000	1997															
Truck SUV	2000	1998															
Truck SUV	2000	1999															
Truck SUV	2000	2000															
Truck SUV	2000	2001															
Truck SUV	2000	2002															
Truck SUV	2000	2003															
Truck SUV	2000	2004															
Truck SUV	2000	2005															
Truck SUV	2000	2006															
Truck SUV	2000	2007															
Truck SUV	2000	2008															
Truck SUV	2000	2009															
Truck SUV	2000	2010															
Truck SUV	2000	2011															
Truck SUV	2000	2012															
Truck SUV	2250	1975															
Truck SUV	2250	1976															
Truck SUV	2250	1977															
Truck SUV	2250	1978															
Truck SUV	2250	1979															
Truck SUV	2250	1980															
Truck SUV	2250	1981															
Truck SUV	2250	1982		100.0%	100.0%												
Truck SUV	2250	1983		100.0%	100.0%												
Truck SUV	2250	1984		100.0%	100.0%												
Truck SUV	2250	1985		100.0%	100.0%												
Truck SUV	2250	1986		100.0%	100.0%												
Truck SUV	2250	1987		100.0%	100.0%												
Truck SUV	2250	1988		100.0%	100.0%												
Truck SUV	2250	1989		100.0%	100.0%												
Truck SUV	2250	1990															
Truck SUV	2250	1991															
Truck SUV	2250	1992															
Truck SUV	2250	1993															
Truck SUV	2250	1994															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	2250	1995																
Truck SUV	2250	1996																
Truck SUV	2250	1997																
Truck SUV	2250	1998																
Truck SUV	2250	1999																
Truck SUV	2250	2000																
Truck SUV	2250	2001																
Truck SUV	2250	2002																
Truck SUV	2250	2003																
Truck SUV	2250	2004																
Truck SUV	2250	2005																
Truck SUV	2250	2006																
Truck SUV	2250	2007																
Truck SUV	2250	2008																
Truck SUV	2250	2009																
Truck SUV	2250	2010																
Truck SUV	2250	2011																
Truck SUV	2250	2012																
Truck SUV	2500	1975																
Truck SUV	2500	1976																
Truck SUV	2500	1977																
Truck SUV	2500	1978																
Truck SUV	2500	1979																
Truck SUV	2500	1980																
Truck SUV	2500	1981																
Truck SUV	2500	1982																
Truck SUV	2500	1983																
Truck SUV	2500	1984																
Truck SUV	2500	1985																
Truck SUV	2500	1986																
Truck SUV	2500	1987																
Truck SUV	2500	1988																
Truck SUV	2500	1989	40	0.003	31.3	25.3	26.8	26.0	2500		97	80	14.1	0.825	0.0320	32.6		
Truck SUV	2500	1990	32	0.003	31.8	25.4	27.4	26.3	2500		94	77	14.3	0.827	0.0310	32.9		
Truck SUV	2500	1991	3	0.000	33.5	27.0	27.9	27.5	2500		79	66	16.2	0.835	0.0264	34.4		
Truck SUV	2500	1992	2	0.000	33.5	26.8	27.8	27.3	2500		79	66	16.2	0.835	0.0264	34.2		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	2250	1995															
Truck SUV	2250	1996															
Truck SUV	2250	1997															
Truck SUV	2250	1998															
Truck SUV	2250	1999															
Truck SUV	2250	2000															
Truck SUV	2250	2001															
Truck SUV	2250	2002															
Truck SUV	2250	2003															
Truck SUV	2250	2004															
Truck SUV	2250	2005															
Truck SUV	2250	2006															
Truck SUV	2250	2007															
Truck SUV	2250	2008															
Truck SUV	2250	2009															
Truck SUV	2250	2010															
Truck SUV	2250	2011															
Truck SUV	2250	2012															
Truck SUV	2500	1975															
Truck SUV	2500	1976															
Truck SUV	2500	1977															
Truck SUV	2500	1978															
Truck SUV	2500	1979															
Truck SUV	2500	1980															
Truck SUV	2500	1981															
Truck SUV	2500	1982															
Truck SUV	2500	1983															
Truck SUV	2500	1984															
Truck SUV	2500	1985															
Truck SUV	2500	1986															
Truck SUV	2500	1987															
Truck SUV	2500	1988															
Truck SUV	2500	1989		100.0%	56.2%	43.8%				100.0%							
Truck SUV	2500	1990		100.0%	100.0%					100.0%							
Truck SUV	2500	1991		100.0%	100.0%					100.0%							
Truck SUV	2500	1992		100.0%	100.0%					100.0%							

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	2500	1993	0	0.000	33.5	26.6	27.7	27.2	2500		79	66	16.2	0.835	0.0264	34.0		
Truck SUV	2500	1994	3	0.000	33.5	26.4	27.6	27.0	2500		79	66	16.2	0.835	0.0264	33.8		
Truck SUV	2500	1995	1	0.000	30.5	23.4	26.1	24.7	2500		90	84	13.7	0.926	0.0337	31.0		
Truck SUV	2500	1996																
Truck SUV	2500	1997																
Truck SUV	2500	1998																
Truck SUV	2500	1999																
Truck SUV	2500	2000																
Truck SUV	2500	2001																
Truck SUV	2500	2002																
Truck SUV	2500	2003																
Truck SUV	2500	2004																
Truck SUV	2500	2005																
Truck SUV	2500	2006																
Truck SUV	2500	2007																
Truck SUV	2500	2008																
Truck SUV	2500	2009																
Truck SUV	2500	2010																
Truck SUV	2500	2011																
Truck SUV	2500	2012																
Truck SUV	2750	1975	47	0.005	16.8	13.5	15.5	14.3	2750		276	120	11.4	0.429	0.0435	19.8		
Truck SUV	2750	1976	41	0.003	17.8	14.7	15.5	15.1	2750		268	102	12.6	0.379	0.0371	20.8		
Truck SUV	2750	1977	44	0.003	18.6	15.2	16.6	15.8	2750		271	104	12.4	0.381	0.0377	21.8		
Truck SUV	2750	1978	58	0.004	18.1	14.8	16.2	15.4	2750		270	103	12.5	0.379	0.0373	21.2		
Truck SUV	2750	1979																
Truck SUV	2750	1980																
Truck SUV	2750	1981																
Truck SUV	2750	1982																
Truck SUV	2750	1983																
Truck SUV	2750	1984																
Truck SUV	2750	1985																
Truck SUV	2750	1986	0	0.000	25.6	20.0	24.2	21.7	2750		96	86	14.2	0.896	0.0313	29.8		
Truck SUV	2750	1987																
Truck SUV	2750	1988																
Truck SUV	2750	1989	0	0.000	29.3	23.9	24.9	24.4	2750		97	80	15.4	0.825	0.0291	33.5		
Truck SUV	2750	1990	14	0.001	28.7	23.2	24.4	23.8	2750		97	80	15.4	0.825	0.0291	32.7		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	2500	1993		100.0%	100.0%					100.0%							
Truck SUV	2500	1994		100.0%	100.0%					100.0%		100.0%					
Truck SUV	2500	1995		100.0%	100.0%				63.1%	36.9%		100.0%					
Truck SUV	2500	1996															
Truck SUV	2500	1997															
Truck SUV	2500	1998															
Truck SUV	2500	1999															
Truck SUV	2500	2000															
Truck SUV	2500	2001															
Truck SUV	2500	2002															
Truck SUV	2500	2003															
Truck SUV	2500	2004															
Truck SUV	2500	2005															
Truck SUV	2500	2006															
Truck SUV	2500	2007															
Truck SUV	2500	2008															
Truck SUV	2500	2009															
Truck SUV	2500	2010															
Truck SUV	2500	2011															
Truck SUV	2500	2012															
Truck SUV	2750	1975		100.0%	100.0%												
Truck SUV	2750	1976		100.0%	89.1%												
Truck SUV	2750	1977		100.0%	92.5%												
Truck SUV	2750	1978		100.0%	89.7%												
Truck SUV	2750	1979															
Truck SUV	2750	1980															
Truck SUV	2750	1981															
Truck SUV	2750	1982															
Truck SUV	2750	1983															
Truck SUV	2750	1984															
Truck SUV	2750	1985															
Truck SUV	2750	1986		100.0%	100.0%												
Truck SUV	2750	1987															
Truck SUV	2750	1988															
Truck SUV	2750	1989		100.0%		100.0%				100.0%							
Truck SUV	2750	1990		100.0%		100.0%				100.0%							

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	2750	1991	28	0.002	28.9	23.0	24.8	23.9	2750		97	80	15.2	0.825	0.0291	32.9		
Truck SUV	2750	1992	23	0.002	28.9	22.9	24.7	23.8	2750		97	80	15.2	0.825	0.0291	32.7		
Truck SUV	2750	1993	22	0.002	29.0	22.7	24.6	23.7	2750		97	80	15.2	0.825	0.0291	32.6		
Truck SUV	2750	1994	38	0.003	28.7	22.3	24.3	23.3	2750		97	82	14.9	0.847	0.0299	32.1		
Truck SUV	2750	1995	38	0.002	28.4	21.8	24.3	23.0	2750		97	95	13.3	0.979	0.0345	31.7		
Truck SUV	2750	1996	26	0.002	28.4	21.6	24.2	22.9	2750		97	95	13.3	0.979	0.0345	31.5		
Truck SUV	2750	1997	10	0.001	28.3	21.5	23.9	22.7	2750		97	95	13.3	0.979	0.0345	31.3		
Truck SUV	2750	1998	9	0.001	28.4	21.5	23.9	22.7	2750		97	95	13.3	0.979	0.0345	31.2		
Truck SUV	2750	1999																
Truck SUV	2750	2000																
Truck SUV	2750	2001																
Truck SUV	2750	2002																
Truck SUV	2750	2003																
Truck SUV	2750	2004																
Truck SUV	2750	2005																
Truck SUV	2750	2006																
Truck SUV	2750	2007																
Truck SUV	2750	2008																
Truck SUV	2750	2009																
Truck SUV	2750	2010																
Truck SUV	2750	2011																
Truck SUV	2750	2012																
Truck SUV	3000	1975																
Truck SUV	3000	1976	10	0.001	15.4	12.3	14.2	13.1	3000		304	120	11.8	0.395	0.0400	19.7		
Truck SUV	3000	1977	13	0.001	16.8	13.7	15.1	14.3	3000		304	120	11.8	0.395	0.0400	21.5		
Truck SUV	3000	1978	20	0.001	16.8	13.5	15.3	14.2	3000		304	120	11.8	0.395	0.0400	21.4		
Truck SUV	3000	1979	52	0.004	17.2	14.3	14.9	14.6	3000		258	120	11.7	0.465	0.0400	21.9		
Truck SUV	3000	1980	43	0.004	19.7	16.0	17.6	16.7	3000		222	92	14.4	0.440	0.0307	25.3		
Truck SUV	3000	1981	38	0.004	20.9	16.8	19.0	17.7	3000		223	101	13.5	0.469	0.0338	26.9		
Truck SUV	3000	1982	25	0.003	20.2	15.9	19.0	17.2	3000		241	104	13.2	0.440	0.0347	25.9		
Truck SUV	3000	1983	37	0.004	20.5	16.3	19.0	17.4	3000		251	110	12.6	0.444	0.0367	26.2		
Truck SUV	3000	1984	69	0.005	22.6	18.3	20.6	19.2	3000		203	102	13.5	0.526	0.0340	29.0		
Truck SUV	3000	1985	15	0.001	24.5	19.2	23.2	20.8	3000		150	94	14.3	0.624	0.0312	31.3		
Truck SUV	3000	1986	3	0.000	22.8	18.5	20.1	19.2	3000		150	105	13.0	0.703	0.0351	28.9		
Truck SUV	3000	1987	11	0.001	22.4	17.9	20.1	18.9	3000		150	117	12.0	0.780	0.0390	28.3		
Truck SUV	3000	1988	7	0.000	22.3	17.8	19.9	18.7	3000		150	117	12.0	0.780	0.0390	28.1		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	2750	1991		100.0%	56.7%	43.3%				100.0%							
Truck SUV	2750	1992		100.0%	56.8%	43.2%				100.0%							
Truck SUV	2750	1993		100.0%	57.6%	42.4%			15.9%	84.1%							
Truck SUV	2750	1994		100.0%	50.6%	49.4%			14.3%	85.7%		85.7%		14.3%			
Truck SUV	2750	1995		100.0%	47.4%	52.6%			100.0%			100.0%					
Truck SUV	2750	1996		100.0%	49.6%	50.4%			100.0%					100.0%			
Truck SUV	2750	1997		100.0%	48.4%	51.6%			100.0%					100.0%			
Truck SUV	2750	1998		100.0%	46.0%	54.0%			100.0%					100.0%			
Truck SUV	2750	1999															
Truck SUV	2750	2000															
Truck SUV	2750	2001															
Truck SUV	2750	2002															
Truck SUV	2750	2003															
Truck SUV	2750	2004															
Truck SUV	2750	2005															
Truck SUV	2750	2006															
Truck SUV	2750	2007															
Truck SUV	2750	2008															
Truck SUV	2750	2009															
Truck SUV	2750	2010															
Truck SUV	2750	2011															
Truck SUV	2750	2012															
Truck SUV	3000	1975															
Truck SUV	3000	1976		100.0%	54.6%												
Truck SUV	3000	1977		100.0%	70.2%												
Truck SUV	3000	1978		100.0%	70.0%												
Truck SUV	3000	1979		100.0%	88.6%												
Truck SUV	3000	1980		100.0%	100.0%												
Truck SUV	3000	1981		100.0%	90.6%	8.7%											
Truck SUV	3000	1982		100.0%	88.6%	11.4%											
Truck SUV	3000	1983		100.0%	90.1%	9.9%											
Truck SUV	3000	1984		100.0%	76.3%	23.7%											
Truck SUV	3000	1985		100.0%	71.6%	28.4%											
Truck SUV	3000	1986		100.0%	100.0%					3.5%							
Truck SUV	3000	1987		100.0%	100.0%					100.0%							
Truck SUV	3000	1988		100.0%	100.0%					100.0%							

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	3000	1989	20	0.001	22.1	17.4	19.9	18.5	3000		150	117	12.0	0.780	0.0390	27.8		
Truck SUV	3000	1990	28	0.002	23.3	18.4	20.5	19.4	3000		136	111	12.5	0.831	0.0369	29.3		
Truck SUV	3000	1991	11	0.001	27.1	21.8	22.9	22.3	3000		97	85	15.5	0.877	0.0284	33.5		
Truck SUV	3000	1992	29	0.002	23.7	18.5	20.7	19.5	3000		139	123	11.7	0.891	0.0408	29.6		
Truck SUV	3000	1993	39	0.003	24.0	18.7	20.8	19.7	3000		133	119	12.0	0.902	0.0397	30.0		
Truck SUV	3000	1994	51	0.004	23.5	18.3	20.2	19.2	3000		135	115	12.4	0.860	0.0385	29.2		
Truck SUV	3000	1995	105	0.007	23.3	18.0	19.9	18.9	3000		140	118	12.2	0.843	0.0395	28.7		
Truck SUV	3000	1996	53	0.004	28.0	20.8	24.9	22.8	3000		111	111	12.7	0.998	0.0371	34.2		
Truck SUV	3000	1997	16	0.001	27.8	20.6	24.5	22.5	3000		98	97	14.1	0.988	0.0324	33.7		
Truck SUV	3000	1998	19	0.001	27.4	20.3	23.9	22.1	3000		105	108	13.0	1.024	0.0360	33.1		
Truck SUV	3000	1999	17	0.001	28.3	21.1	24.0	22.6	3000		120	121	11.8	1.007	0.0403	33.9		
Truck SUV	3000	2000	11	0.001	28.0	20.7	23.7	22.2	3000		118	124	11.6	1.044	0.0412	33.4		
Truck SUV	3000	2001	8	0.001	27.7	20.4	23.2	21.9	3000		122	127	11.3	1.041	0.0423	32.8		
Truck SUV	3000	2002	7	0.000	27.8	20.2	23.5	21.9	3000		118	125	11.5	1.056	0.0415	32.8		
Truck SUV	3000	2003	6	0.000	27.8	20.0	23.5	21.8	3000		122	127	11.3	1.041	0.0423	32.7		
Truck SUV	3000	2004	1	0.000	23.7	16.8	20.6	18.8	3000		165	165	9.2	1.000	0.0550	28.1		
Truck SUV	3000	2005	0	0.000	23.5	16.5	20.6	18.6	3000		152	165	9.2	1.086	0.0550	27.9		
Truck SUV	3000	2006																
Truck SUV	3000	2007																
Truck SUV	3000	2008																
Truck SUV	3000	2009																
Truck SUV	3000	2010																
Truck SUV	3000	2011																
Truck SUV	3000	2012																
Truck SUV	3500	1975																
Truck SUV	3500	1976																
Truck SUV	3500	1977																
Truck SUV	3500	1978																
Truck SUV	3500	1979	38	0.003	15.6	13.0	13.4	13.2	3500		304	122	13.1	0.402	0.0349	23.2		
Truck SUV	3500	1980	12	0.001	16.3	13.1	14.8	13.8	3500		285	115	14.1	0.401	0.0329	24.3		
Truck SUV	3500	1981	2	0.000	17.2	13.3	16.8	14.7	3500		304	130	12.5	0.428	0.0371	25.7		
Truck SUV	3500	1982																
Truck SUV	3500	1983	13	0.001	23.4	18.0	22.9	19.9	3500		166	107	14.4	0.649	0.0307	35.0		
Truck SUV	3500	1984	173	0.012	21.3	16.9	19.8	18.1	3500		167	102	15.2	0.615	0.0292	31.8		
Truck SUV	3500	1985	237	0.016	21.8	17.1	20.7	18.6	3500		165	103	15.1	0.629	0.0294	32.7		
Truck SUV	3500	1986	316	0.021	21.8	17.1	20.4	18.5	3500		171	119	13.6	0.705	0.0341	32.5		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	3000	1989		100.0%	100.0%					100.0%							
Truck SUV	3000	1990		100.0%	100.0%				26.9%	73.1%							
Truck SUV	3000	1991		100.0%	70.4%	29.6%			36.1%	63.9%							
Truck SUV	3000	1992		100.0%	97.8%	2.2%			100.0%								
Truck SUV	3000	1993		100.0%	85.6%	14.4%			100.0%								
Truck SUV	3000	1994		100.0%	77.1%	22.9%			84.2%	15.8%		87.2%		12.8%			
Truck SUV	3000	1995		100.0%	79.7%	20.3%			81.4%	18.6%		100.0%					
Truck SUV	3000	1996		100.0%	34.6%	65.4%			100.0%					100.0%			
Truck SUV	3000	1997		100.0%	27.3%	72.7%			100.0%					100.0%			
Truck SUV	3000	1998		100.0%	32.6%	67.4%			100.0%					100.0%			
Truck SUV	3000	1999		100.0%	64.5%	35.5%			100.0%			82.4%		17.6%			
Truck SUV	3000	2000		100.0%	59.3%	40.7%			100.0%			100.0%		0.0%			
Truck SUV	3000	2001		100.0%	33.0%	67.0%			100.0%			100.0%					
Truck SUV	3000	2002		100.0%	60.1%	39.9%			100.0%			100.0%					
Truck SUV	3000	2003		100.0%	42.6%	57.4%			100.0%			100.0%					
Truck SUV	3000	2004			100.0%				100.0%					100.0%			
Truck SUV	3000	2005			100.0%				100.0%					100.0%			
Truck SUV	3000	2006															
Truck SUV	3000	2007															
Truck SUV	3000	2008															
Truck SUV	3000	2009															
Truck SUV	3000	2010															
Truck SUV	3000	2011															
Truck SUV	3000	2012															
Truck SUV	3500	1975															
Truck SUV	3500	1976															
Truck SUV	3500	1977															
Truck SUV	3500	1978															
Truck SUV	3500	1979		100.0%	78.6%												
Truck SUV	3500	1980		100.0%	44.2%												
Truck SUV	3500	1981		100.0%	76.8%	23.2%											
Truck SUV	3500	1982															
Truck SUV	3500	1983		100.0%	100.0%												
Truck SUV	3500	1984		100.0%	36.3%	19.6%											
Truck SUV	3500	1985		100.0%	52.2%	47.3%			8.1%	2.8%	0.5%						
Truck SUV	3500	1986		100.0%	55.6%	43.1%			34.8%	10.7%	0.1%						

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	3500	1987	336	0.023	22.2	17.2	21.1	18.8	3500		195	135	12.5	0.705	0.0385	33.0		
Truck SUV	3500	1988	305	0.020	20.9	15.9	20.2	17.7	3500		213	149	11.4	0.709	0.0427	31.1		
Truck SUV	3500	1989	189	0.013	20.3	15.4	19.3	17.0	3500		242	162	10.8	0.676	0.0464	29.9		
Truck SUV	3500	1990	159	0.013	20.5	15.3	19.8	17.2	3500		241	164	10.7	0.683	0.0468	30.2		
Truck SUV	3500	1991	138	0.011	19.8	14.9	18.8	16.6	3500		227	172	10.2	0.763	0.0490	29.1		
Truck SUV	3500	1992	119	0.010	19.4	14.4	18.6	16.2	3500		242	190	9.3	0.785	0.0542	28.5		
Truck SUV	3500	1993	108	0.008	19.6	14.6	18.7	16.4	3500		240	189	9.4	0.787	0.0539	28.7		
Truck SUV	3500	1994	106	0.007	19.4	14.4	18.3	16.1	3500		240	189	9.3	0.786	0.0540	28.3		
Truck SUV	3500	1995	119	0.008	19.8	14.5	18.7	16.4	3500		231	182	9.8	0.796	0.0521	28.8		
Truck SUV	3500	1996	147	0.011	19.9	14.5	18.9	16.5	3500		235	186	9.5	0.799	0.0533	28.9		
Truck SUV	3500	1997	297	0.021	22.7	16.8	20.2	18.4	3500		174	148	11.6	0.880	0.0424	32.7		
Truck SUV	3500	1998	293	0.020	24.0	17.6	21.3	19.4	3500		159	147	11.6	0.957	0.0420	34.6		
Truck SUV	3500	1999	258	0.017	25.7	18.8	22.5	20.6	3500		136	144	11.7	1.076	0.0412	36.4		
Truck SUV	3500	2000	333	0.020	24.0	17.4	21.2	19.3	3500		158	153	11.2	1.013	0.0438	34.3		
Truck SUV	3500	2001	437	0.028	24.8	17.7	22.1	19.9	3500		153	164	10.6	1.089	0.0468	35.1		
Truck SUV	3500	2002	398	0.025	25.9	18.3	23.2	20.7	3500		152	167	10.5	1.098	0.0476	36.6		
Truck SUV	3500	2003	415	0.026	26.0	18.2	23.3	20.7	3500		153	167	10.5	1.092	0.0476	36.5		
Truck SUV	3500	2004	351	0.022	26.3	18.2	23.4	20.8	3500		155	170	10.2	1.104	0.0487	36.6		
Truck SUV	3500	2005	281	0.018	26.9	18.6	23.5	21.1	3500		152	164	10.5	1.088	0.0467	37.4		
Truck SUV	3500	2006	202	0.013	28.0	19.4	24.6	22.0	3500		145	161	10.7	1.107	0.0460	38.6		
Truck SUV	3500	2007	144	0.009	28.8	20.2	24.4	22.4	3500		147	170	10.3	1.152	0.0484	39.3		
Truck SUV	3500	2008	161	0.012	29.8	20.9	25.2	23.1	3500		143	166	10.4	1.162	0.0474	40.6		
Truck SUV	3500	2009	160	0.017	29.2	20.3	25.2	22.8	3500		147	171	10.2	1.163	0.0487	40.0		
Truck SUV	3500	2010	225	0.020	29.4	20.4	25.5	23.0	3500		149	172	10.1	1.151	0.0490	40.3		
Truck SUV	3500	2011	262	0.022	30.7	21.2	26.7	24.0	3500		146	171	10.2	1.169	0.0487	42.1		
Truck SUV	3500	2012	335	0.025	30.9	21.2	27.0	24.1	3500		147	173	10.0	1.182	0.0495	42.4		
Truck SUV	4000	1975	16	0.002	13.2	10.6	12.2	11.2	4000		350	144	13.0	0.412	0.0360	22.5		
Truck SUV	4000	1976	24	0.002	13.8	11.0	12.7	11.7	4000		353	145	13.1	0.408	0.0362	23.5		
Truck SUV	4000	1977	30	0.002	14.7	11.7	13.6	12.5	4000		359	148	13.0	0.409	0.0369	25.1		
Truck SUV	4000	1978	40	0.003	14.5	11.6	13.4	12.3	4000		361	145	13.0	0.400	0.0361	24.7		
Truck SUV	4000	1979	7	0.000	15.7	12.6	14.3	13.3	4000		222	95	18.2	0.422	0.0237	26.7		
Truck SUV	4000	1980	7	0.001	15.9	12.9	14.3	13.5	4000		248	99	17.4	0.400	0.0249	27.2		
Truck SUV	4000	1981	7	0.001	16.9	13.4	15.7	14.4	4000		258	112	15.8	0.434	0.0280	28.8		
Truck SUV	4000	1982	8	0.001	19.4	15.3	18.2	16.5	4000		258	110	15.9	0.428	0.0276	33.5		
Truck SUV	4000	1983	68	0.007	21.9	16.7	21.8	18.7	4000		175	110	16.0	0.631	0.0275	37.4		
Truck SUV	4000	1984	116	0.008	22.1	16.7	22.7	18.9	4000		173	110	16.0	0.636	0.0275	37.9		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	3500	1987		100.0%	55.1%	37.7%			63.6%	6.7%	0.0%						
Truck SUV	3500	1988		100.0%	37.4%	57.5%			83.2%	0.6%							
Truck SUV	3500	1989		100.0%	26.8%	67.7%			78.9%	0.7%							
Truck SUV	3500	1990		100.0%	24.4%	71.1%			82.7%	0.6%							
Truck SUV	3500	1991		100.0%	37.2%	57.8%			100.0%								
Truck SUV	3500	1992		100.0%	25.0%	69.8%			100.0%								
Truck SUV	3500	1993		100.0%	35.3%	57.3%			100.0%								
Truck SUV	3500	1994		100.0%	35.7%	64.3%			100.0%			100.0%					
Truck SUV	3500	1995		100.0%	30.2%	69.8%			100.0%			95.6%		4.4%			
Truck SUV	3500	1996		100.0%	12.8%	87.2%			100.0%			95.4%		4.6%			
Truck SUV	3500	1997		95.7%	47.0%	53.0%			100.0%			53.9%		46.1%			
Truck SUV	3500	1998		94.4%	39.4%	60.6%			100.0%			34.9%		65.1%			
Truck SUV	3500	1999		100.0%	26.3%	73.7%			100.0%			16.8%		83.2%			
Truck SUV	3500	2000		100.0%	15.9%	84.1%			100.0%			39.6%		60.4%			
Truck SUV	3500	2001		98.6%	11.8%	88.2%			100.0%			15.9%		84.1%		10.6%	
Truck SUV	3500	2002		98.6%	10.0%	89.5%	0.4%		100.0%			9.3%		90.7%		38.5%	
Truck SUV	3500	2003	5.3%	94.0%	7.8%	88.5%	3.7%		100.0%			6.0%		94.0%		41.1%	
Truck SUV	3500	2004	4.7%	94.1%	8.8%	89.5%	1.6%		100.0%					100.0%		52.5%	
Truck SUV	3500	2005	6.4%	92.0%	16.1%	83.2%	0.6%		100.0%			7.6%		92.4%		62.0%	
Truck SUV	3500	2006	8.3%	91.7%	10.1%	89.9%			100.0%					100.0%		65.0%	
Truck SUV	3500	2007	30.3%	69.4%	10.1%	33.0%	56.9%		100.0%					100.0%		69.5%	
Truck SUV	3500	2008	37.0%	62.9%	7.4%	33.6%	59.0%		100.0%					100.0%		67.2%	
Truck SUV	3500	2009	19.9%	77.9%	7.8%	55.1%	37.1%	0.1%	99.9%					100.0%		45.3%	
Truck SUV	3500	2010	16.3%	81.8%	8.0%	53.5%	38.4%		100.0%					100.0%		100.0%	
Truck SUV	3500	2011	17.7%	81.2%	5.6%	43.5%	50.9%		100.0%					100.0%		100.0%	
Truck SUV	3500	2012	15.6%	83.1%	7.5%	55.2%	37.4%		100.0%					100.0%		100.0%	
Truck SUV	4000	1975		100.0%	27.7%												
Truck SUV	4000	1976		100.0%	28.1%												
Truck SUV	4000	1977		100.0%	26.2%												
Truck SUV	4000	1978		100.0%	29.2%												
Truck SUV	4000	1979		100.0%	97.5%												
Truck SUV	4000	1980		100.0%	69.7%												
Truck SUV	4000	1981		100.0%	33.7%	66.3%											
Truck SUV	4000	1982		100.0%	33.8%	66.2%											
Truck SUV	4000	1983		100.0%	28.9%	71.1%											
Truck SUV	4000	1984		100.0%	22.9%	77.1%											

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	4000	1985	173	0.012	22.0	16.6	22.6	18.8	4000		173	110	16.0	0.636	0.0275	37.7		
Truck SUV	4000	1986	154	0.010	21.1	16.2	20.6	17.9	4000		165	121	14.8	0.738	0.0304	36.4		
Truck SUV	4000	1987	184	0.012	20.4	15.5	20.0	17.3	4000		172	127	14.3	0.737	0.0317	34.7		
Truck SUV	4000	1988	259	0.017	20.8	15.9	19.8	17.6	4000		190	135	13.7	0.723	0.0337	35.3		
Truck SUV	4000	1989	348	0.024	21.2	16.2	20.0	17.8	4000		213	146	12.8	0.703	0.0366	35.8		
Truck SUV	4000	1990	196	0.016	20.5	15.7	19.2	17.2	4000		197	141	13.1	0.735	0.0353	34.5		
Truck SUV	4000	1991	335	0.027	20.8	15.6	19.8	17.4	4000		231	153	12.4	0.676	0.0383	35.0		
Truck SUV	4000	1992	226	0.019	20.2	14.9	19.5	16.9	4000		234	165	11.8	0.711	0.0412	33.8		
Truck SUV	4000	1993	204	0.015	21.3	15.6	20.5	17.7	4000		246	190	10.4	0.776	0.0474	35.5		
Truck SUV	4000	1994	344	0.024	18.9	13.9	17.9	15.7	4000		249	189	10.5	0.774	0.0472	31.5		
Truck SUV	4000	1995	414	0.027	19.0	13.9	17.9	15.7	4000		242	187	10.6	0.789	0.0467	31.5		
Truck SUV	4000	1996	359	0.027	19.3	14.0	18.2	15.9	4000		254	193	10.3	0.772	0.0483	31.9		
Truck SUV	4000	1997	433	0.030	19.9	14.5	18.5	16.3	4000		240	189	10.4	0.803	0.0474	32.8		
Truck SUV	4000	1998	499	0.034	20.2	14.5	19.0	16.6	4000		236	190	10.4	0.818	0.0474	33.3		
Truck SUV	4000	1999	599	0.039	20.8	15.0	19.2	17.0	4000		222	194	10.2	0.887	0.0486	34.1		
Truck SUV	4000	2000	451	0.027	20.9	15.0	19.0	16.9	4000		223	192	10.3	0.874	0.0479	34.0		
Truck SUV	4000	2001	475	0.030	21.3	15.1	19.4	17.2	4000		214	197	10.1	0.945	0.0493	34.6		
Truck SUV	4000	2002	523	0.032	21.6	15.3	19.5	17.4	4000		203	197	10.1	0.991	0.0493	35.1		
Truck SUV	4000	2003	573	0.036	22.8	16.0	20.5	18.3	4000		199	199	10.1	1.021	0.0499	36.9		
Truck SUV	4000	2004	764	0.049	22.3	15.3	20.7	18.0	4000		218	204	9.9	0.952	0.0509	36.2		
Truck SUV	4000	2005	586	0.037	23.2	16.0	21.0	18.5	4000		195	202	10.0	1.044	0.0504	37.4		
Truck SUV	4000	2006	557	0.037	23.5	16.2	21.1	18.7	4000		194	198	10.1	1.034	0.0494	38.1		
Truck SUV	4000	2007	700	0.046	25.5	17.5	22.9	20.2	4000		177	199	10.2	1.144	0.0497	40.9		
Truck SUV	4000	2008	638	0.046	26.4	18.2	23.4	20.9	4000		171	192	10.4	1.139	0.0481	42.2		
Truck SUV	4000	2009	415	0.045	27.5	18.9	24.6	21.8	4000		166	197	10.2	1.201	0.0493	43.8		
Truck SUV	4000	2010	628	0.057	28.3	19.3	25.3	22.3	4000		169	201	10.1	1.202	0.0503	45.1		
Truck SUV	4000	2011	782	0.065	28.8	19.7	25.6	22.7	4000		166	195	10.3	1.192	0.0488	45.8		
Truck SUV	4000	2012	627	0.047	29.0	19.7	26.0	22.9	4000		170	213	9.7	1.271	0.0533	46.2		
Truck SUV	4500	1975	41	0.004	13.5	10.7	12.6	11.5	4500		351	157	13.4	0.446	0.0348	26.0		
Truck SUV	4500	1976	47	0.004	13.9	11.0	13.0	11.8	4500		349	150	14.0	0.430	0.0333	26.8		
Truck SUV	4500	1977	101	0.007	15.4	12.3	14.2	13.1	4500		345	150	13.8	0.436	0.0334	29.6		
Truck SUV	4500	1978	119	0.008	14.7	11.7	13.6	12.5	4500		343	157	13.3	0.459	0.0350	28.2		
Truck SUV	4500	1979	56	0.004	12.9	10.4	11.7	10.9	4500		334	140	14.6	0.420	0.0311	24.8		
Truck SUV	4500	1980	50	0.004	14.5	11.7	13.1	12.3	4500		313	139	14.8	0.446	0.0308	28.4		
Truck SUV	4500	1981	42	0.004	15.8	12.5	14.7	13.4	4500		317	137	14.8	0.435	0.0304	30.5		
Truck SUV	4500	1982	50	0.005	15.7	12.4	14.6	13.3	4500		316	139	14.6	0.443	0.0309	30.3		

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	4000	1985		100.0%	17.9%	82.1%											
Truck SUV	4000	1986		100.0%	31.9%	68.1%			23.4%	73.4%	3.2%						
Truck SUV	4000	1987		100.0%	19.9%	80.1%			5.4%	94.6%	0.0%						
Truck SUV	4000	1988		100.0%	32.8%	67.2%			33.2%	66.8%							
Truck SUV	4000	1989		99.0%	30.4%	66.9%			43.8%	56.2%							
Truck SUV	4000	1990		98.7%	42.2%	57.8%			64.5%	35.5%							
Truck SUV	4000	1991		98.3%	21.5%	78.5%			31.9%	68.1%							
Truck SUV	4000	1992		95.7%	22.5%	77.5%			55.0%	45.0%							
Truck SUV	4000	1993		94.5%	16.9%	83.1%			98.3%	1.7%							
Truck SUV	4000	1994		100.0%	15.0%	85.0%			99.3%	0.7%		76.8%	4.9%	18.2%			
Truck SUV	4000	1995		92.6%	15.1%	84.9%			100.0%			78.5%		21.5%			
Truck SUV	4000	1996		95.8%	5.9%	94.1%			100.0%			87.9%		12.1%			
Truck SUV	4000	1997		86.9%	7.6%	92.4%			100.0%			65.6%		34.4%			
Truck SUV	4000	1998		89.3%	4.5%	95.5%			100.0%			67.4%		32.6%			
Truck SUV	4000	1999		85.8%	8.8%	91.2%			100.0%			63.8%		36.2%		11.5%	
Truck SUV	4000	2000		82.6%	10.9%	89.1%			100.0%			63.0%		37.0%		13.0%	
Truck SUV	4000	2001	7.4%	77.3%	6.5%	93.5%			100.0%			50.4%		49.6%		33.3%	
Truck SUV	4000	2002	11.5%	68.4%	7.6%	92.4%			100.0%			40.4%		59.6%		32.6%	
Truck SUV	4000	2003	12.5%	80.6%	7.0%	87.6%	5.4%		100.0%			34.2%		65.8%		47.6%	
Truck SUV	4000	2004	8.8%	76.1%	6.7%	88.6%	4.7%		100.0%			58.0%		42.0%		29.7%	
Truck SUV	4000	2005	12.0%	88.0%	3.4%	88.6%	8.0%		100.0%			30.3%		69.7%		32.7%	1.1%
Truck SUV	4000	2006	9.8%	90.2%	7.3%	87.4%	5.3%		100.0%			36.5%		63.5%		40.2%	2.3%
Truck SUV	4000	2007	7.6%	86.4%	3.5%	91.6%	4.8%		100.0%			21.6%		78.4%		65.0%	1.0%
Truck SUV	4000	2008	2.7%	89.5%	3.3%	88.7%	8.0%	2.1%	97.9%			14.7%		85.3%		63.1%	2.3%
Truck SUV	4000	2009	6.0%	91.5%	0.3%	85.4%	14.3%	5.8%	94.2%			7.8%		92.2%		75.9%	1.9%
Truck SUV	4000	2010	7.0%	90.4%	2.3%	79.4%	15.6%	3.8%	96.2%			8.9%		91.1%		90.2%	1.0%
Truck SUV	4000	2011	4.9%	91.2%	1.6%	76.2%	22.2%	3.9%	96.1%			8.5%		91.5%		91.0%	0.5%
Truck SUV	4000	2012	13.2%	84.0%	2.8%	76.6%	20.6%	10.2%	89.8%			2.8%		97.2%		97.2%	0.6%
Truck SUV	4500	1975		56.9%	12.0%												
Truck SUV	4500	1976		57.7%	12.5%												
Truck SUV	4500	1977		74.2%	13.7%												
Truck SUV	4500	1978		81.5%	13.3%												
Truck SUV	4500	1979		84.3%	11.2%						1.3%						
Truck SUV	4500	1980		92.3%	25.0%	12.8%					8.6%						
Truck SUV	4500	1981		94.4%	31.1%	41.3%											
Truck SUV	4500	1982		89.6%	28.2%	31.6%											

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	4500	1983	55	0.005	15.7	12.5	14.6	13.3	4500		317	135	14.9	0.430	0.0301	30.4		
Truck SUV	4500	1984	61	0.004	14.8	11.8	13.7	12.6	4500		320	134	15.0	0.420	0.0298	28.7		
Truck SUV	4500	1985	60	0.004	15.0	12.0	13.9	12.8	4500		321	145	14.1	0.456	0.0323	29.2		
Truck SUV	4500	1986	46	0.003	15.6	12.3	14.6	13.2	4500		325	142	14.4	0.438	0.0315	30.3		
Truck SUV	4500	1987	32	0.002	14.6	11.4	13.7	12.4	4500		326	144	14.2	0.450	0.0320	28.2		
Truck SUV	4500	1988	34	0.002	15.0	11.8	13.8	12.7	4500		312	148	14.0	0.494	0.0328	28.8		
Truck SUV	4500	1989	31	0.002	14.9	11.6	13.8	12.5	4500		311	151	13.8	0.505	0.0335	28.4		
Truck SUV	4500	1990	58	0.005	17.5	13.4	16.5	14.7	4500		221	153	13.6	0.740	0.0341	33.6		
Truck SUV	4500	1991	262	0.021	19.8	14.7	19.1	16.6	4500		227	167	12.6	0.742	0.0371	37.4		
Truck SUV	4500	1992	260	0.021	19.4	14.6	18.4	16.2	4500		221	167	12.6	0.764	0.0372	36.6		
Truck SUV	4500	1993	298	0.023	19.7	14.6	18.6	16.4	4500		217	167	12.6	0.778	0.0372	36.9		
Truck SUV	4500	1994	546	0.039	19.9	14.7	19.0	16.6	4500		229	177	12.1	0.776	0.0393	37.4		
Truck SUV	4500	1995	645	0.043	19.9	14.5	18.9	16.5	4500		233	174	12.3	0.754	0.0386	37.4		
Truck SUV	4500	1996	736	0.056	20.2	14.5	19.5	16.7	4500		251	176	12.2	0.708	0.0391	37.8		
Truck SUV	4500	1997	832	0.058	19.8	14.3	18.8	16.3	4500		252	181	11.9	0.724	0.0402	36.9		
Truck SUV	4500	1998	719	0.050	20.1	14.4	19.1	16.5	4500		251	184	11.8	0.745	0.0410	37.3		
Truck SUV	4500	1999	747	0.049	19.7	14.1	18.4	16.1	4500		259	199	11.1	0.777	0.0442	36.3		
Truck SUV	4500	2000	904	0.055	19.9	14.1	18.6	16.2	4500		254	197	11.2	0.783	0.0437	36.6		
Truck SUV	4500	2001	1006	0.064	20.4	14.4	19.0	16.6	4500		237	207	10.7	0.886	0.0460	37.5		
Truck SUV	4500	2002	1525	0.095	19.9	14.0	18.6	16.2	4500		243	225	10.1	0.931	0.0501	36.5		
Truck SUV	4500	2003	968	0.061	20.7	14.4	19.3	16.8	4500		238	229	9.9	0.968	0.0509	37.8		
Truck SUV	4500	2004	1158	0.074	21.3	14.7	19.8	17.2	4500		234	229	9.9	0.991	0.0508	38.8		
Truck SUV	4500	2005	929	0.058	21.6	14.7	20.0	17.3	4500		227	236	9.7	1.046	0.0524	39.2		
Truck SUV	4500	2006	878	0.058	22.7	15.6	20.7	18.2	4500		222	232	9.5	1.050	0.0516	41.5		
Truck SUV	4500	2007	1041	0.068	22.5	15.5	20.5	18.0	4500		225	241	9.4	1.076	0.0535	40.8		
Truck SUV	4500	2008	1014	0.073	23.0	15.7	21.1	18.4	4500		222	245	9.3	1.107	0.0544	41.6		
Truck SUV	4500	2009	599	0.064	23.5	16.0	21.8	18.8	4500		216	249	9.3	1.155	0.0553	42.6		
Truck SUV	4500	2010	700	0.063	23.9	16.3	22.0	19.1	4500		218	251	9.2	1.157	0.0557	43.2		
Truck SUV	4500	2011	795	0.066	24.4	16.6	22.6	19.6	4500		216	256	9.0	1.199	0.0569	44.2		
Truck SUV	4500	2012	801	0.060	24.9	16.8	23.0	19.9	4500		213	267	8.7	1.261	0.0592	44.9		
Truck SUV	5000	1975	67	0.007	11.1	9.4	9.4	9.4	5000		347	157	14.4	0.453	0.0315	23.6		
Truck SUV	5000	1976	101	0.008	12.8	10.5	11.5	10.9	5000		357	151	15.0	0.421	0.0301	27.3		
Truck SUV	5000	1977	66	0.005	13.6	11.2	12.0	11.5	5000		351	160	14.4	0.457	0.0320	29.0		
Truck SUV	5000	1978	114	0.008	13.0	10.5	11.7	11.0	5000		370	168	13.7	0.454	0.0336	27.6		
Truck SUV	5000	1979	173	0.012	11.4	9.5	9.9	9.6	5000		351	152	15.2	0.433	0.0303	24.2		
Truck SUV	5000	1980	60	0.005	14.0	11.2	12.9	11.9	5000		343	159	14.3	0.463	0.0317	30.0		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	4500	1983		98.0%	22.8%	39.5%											
Truck SUV	4500	1984		93.0%	29.0%	1.9%											
Truck SUV	4500	1985		72.2%	23.2%												
Truck SUV	4500	1986		80.7%	14.0%	32.4%			22.5%								
Truck SUV	4500	1987		70.4%	16.4%	22.7%			7.0%								
Truck SUV	4500	1988		76.8%	1.6%	45.1%			31.5%	21.5%							
Truck SUV	4500	1989		74.0%	1.9%	47.3%			34.2%	26.0%							
Truck SUV	4500	1990		91.6%	2.2%	77.7%			79.9%	8.4%							
Truck SUV	4500	1991		99.3%	14.6%	83.3%			97.9%	0.7%							
Truck SUV	4500	1992		99.7%	15.3%	84.7%			100.0%								
Truck SUV	4500	1993		99.7%	13.1%	86.9%			100.0%								
Truck SUV	4500	1994		100.0%	8.1%	91.9%			100.0%			88.1%	9.6%	2.3%			
Truck SUV	4500	1995		90.4%	5.7%	94.3%			100.0%			78.5%		21.5%			
Truck SUV	4500	1996		74.7%	3.2%	96.8%			100.0%			90.6%		9.4%			
Truck SUV	4500	1997		79.0%	2.5%	97.5%			100.0%			92.5%		7.5%			
Truck SUV	4500	1998		89.8%	1.6%	98.4%			100.0%			90.2%	5.5%	4.4%			
Truck SUV	4500	1999		91.2%	0.9%	99.1%			100.0%			90.1%		9.9%			
Truck SUV	4500	2000		91.6%	1.7%	98.3%			100.0%			87.4%		12.6%			
Truck SUV	4500	2001	16.4%	71.8%	1.6%	98.4%			100.0%			71.2%		28.8%		15.1%	
Truck SUV	4500	2002		73.4%	0.9%	99.1%			100.0%			64.1%		35.9%		25.7%	
Truck SUV	4500	2003	0.0%	68.6%	0.4%	99.6%			100.0%			49.4%		50.6%		39.0%	
Truck SUV	4500	2004	2.6%	74.9%	0.6%	99.4%			100.0%			41.3%		58.7%		48.4%	
Truck SUV	4500	2005	0.9%	70.7%	0.8%	99.2%			99.1%		0.9%	30.0%		70.0%		61.9%	
Truck SUV	4500	2006	8.5%	63.6%	0.9%	86.6%	12.5%		99.2%		0.8%	18.7%		81.3%		72.7%	9.1%
Truck SUV	4500	2007	6.8%	76.3%	2.7%	90.0%	7.4%		100.0%		0.0%	21.7%		78.3%		63.3%	3.8%
Truck SUV	4500	2008	11.2%	77.8%	1.9%	95.5%	2.6%		100.0%		0.0%	24.3%		75.7%		61.6%	2.6%
Truck SUV	4500	2009	22.0%	75.0%	1.0%	91.1%	7.9%	1.3%	98.7%			17.6%		82.4%		66.8%	0.0%
Truck SUV	4500	2010	18.8%	76.9%	1.4%	94.1%	4.5%	2.7%	97.3%			20.3%		79.7%		71.3%	
Truck SUV	4500	2011	22.1%	75.0%	1.2%	95.0%	3.8%	3.9%	96.1%			15.2%		84.8%		82.9%	
Truck SUV	4500	2012	25.0%	70.5%	1.5%	95.5%	2.9%	4.5%	95.5%			8.0%		92.0%		92.0%	
Truck SUV	5000	1975		98.7%	19.5%												
Truck SUV	5000	1976		97.9%	18.9%												
Truck SUV	5000	1977		96.4%	21.0%												
Truck SUV	5000	1978		97.3%	19.7%												
Truck SUV	5000	1979		68.1%	14.7%	0.9%											
Truck SUV	5000	1980		78.4%	18.9%	55.3%											

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	5000	1981	43	0.004	15.3	12.2	14.1	13.0	5000		328	154	14.7	0.473	0.0309	32.9		
Truck SUV	5000	1982	37	0.004	15.1	12.0	14.1	12.9	5000		330	156	14.6	0.476	0.0311	32.8		
Truck SUV	5000	1983	54	0.005	15.7	12.3	15.0	13.4	5000		328	157	14.5	0.482	0.0315	34.1		
Truck SUV	5000	1984	121	0.009	15.3	12.0	14.6	13.0	5000		330	164	14.1	0.497	0.0327	33.2		
Truck SUV	5000	1985	133	0.009	15.7	12.3	15.0	13.4	5000		330	169	13.7	0.510	0.0337	33.9		
Truck SUV	5000	1986	135	0.009	16.4	12.7	15.8	14.0	5000		324	163	14.1	0.503	0.0326	35.1		
Truck SUV	5000	1987	97	0.007	15.7	12.2	14.9	13.3	5000		326	175	13.5	0.535	0.0350	33.7		
Truck SUV	5000	1988	101	0.007	16.1	12.4	15.3	13.6	5000		330	181	13.2	0.545	0.0362	34.2		
Truck SUV	5000	1989	112	0.008	15.9	12.2	15.2	13.4	5000		328	179	13.3	0.540	0.0357	33.9		
Truck SUV	5000	1990	83	0.007	16.0	11.9	15.7	13.5	5000		332	184	12.9	0.553	0.0369	33.9		
Truck SUV	5000	1991	51	0.004	15.8	11.8	15.3	13.3	5000		312	188	12.7	0.604	0.0375	33.3		
Truck SUV	5000	1992	36	0.003	15.7	11.6	15.2	13.2	5000		292	174	13.5	0.622	0.0348	33.0		
Truck SUV	5000	1993	46	0.003	16.1	11.9	15.5	13.5	5000		313	200	11.9	0.646	0.0400	33.9		
Truck SUV	5000	1994	51	0.004	16.5	12.2	15.7	13.7	5000		310	202	11.8	0.659	0.0404	34.4		
Truck SUV	5000	1995	70	0.005	17.0	12.4	16.3	14.1	5000		322	199	12.0	0.625	0.0398	35.4		
Truck SUV	5000	1996	82	0.006	17.0	12.4	16.1	14.1	5000		318	216	11.3	0.685	0.0431	35.3		
Truck SUV	5000	1997	120	0.008	18.0	13.0	17.1	14.9	5000		308	226	10.8	0.738	0.0453	37.3		
Truck SUV	5000	1998	265	0.018	17.3	12.4	16.7	14.3	5000		317	223	10.9	0.705	0.0446	36.0		
Truck SUV	5000	1999	356	0.023	17.4	12.4	16.6	14.3	5000		307	234	10.6	0.779	0.0468	36.1		
Truck SUV	5000	2000	254	0.015	17.6	12.4	16.8	14.5	5000		295	229	10.7	0.784	0.0459	36.4		
Truck SUV	5000	2001	160	0.010	17.1	12.0	16.4	14.0	5000		282	233	10.6	0.847	0.0467	35.2		
Truck SUV	5000	2002	404	0.025	18.9	13.2	17.8	15.4	5000		255	244	10.2	0.976	0.0489	38.7		
Truck SUV	5000	2003	638	0.040	19.3	13.4	18.2	15.7	5000		259	256	9.8	1.002	0.0513	39.3		
Truck SUV	5000	2004	683	0.044	19.6	13.4	18.5	15.9	5000		263	265	9.6	1.025	0.0529	39.8		
Truck SUV	5000	2005	621	0.039	19.5	13.3	18.4	15.8	5000		260	261	9.7	1.025	0.0522	39.6		
Truck SUV	5000	2006	811	0.054	20.0	13.7	18.8	16.2	5000		252	255	9.9	1.024	0.0510	40.5		
Truck SUV	5000	2007	584	0.038	20.4	13.9	19.2	16.5	5000		249	259	9.8	1.051	0.0517	41.5		
Truck SUV	5000	2008	685	0.049	21.4	14.5	20.1	17.2	5000		240	260	9.6	1.095	0.0519	43.7		
Truck SUV	5000	2009	328	0.035	22.6	15.3	21.1	18.2	5000		227	272	9.3	1.211	0.0545	45.9		
Truck SUV	5000	2010	444	0.040	23.2	15.8	21.5	18.6	5000		228	268	9.4	1.185	0.0535	47.2		
Truck SUV	5000	2011	667	0.056	24.0	16.2	22.4	19.2	5000		222	294	8.7	1.329	0.0588	48.3		
Truck SUV	5000	2012	589	0.044	24.4	16.4	22.7	19.5	5000		221	290	8.8	1.314	0.0580	49.1		
Truck SUV	5500	1975	6	0.001	10.5	8.5	9.6	8.9	5500		429	210	12.5	0.488	0.0381	24.7		
Truck SUV	5500	1976	7	0.001	11.2	9.1	10.2	9.6	5500		412	197	13.3	0.475	0.0359	26.4		
Truck SUV	5500	1977	10	0.001	11.7	9.4	10.7	10.0	5500		419	193	13.4	0.459	0.0351	27.6		
Truck SUV	5500	1978	12	0.001	11.8	9.6	10.6	10.1	5500		410	188	13.5	0.461	0.0343	27.7		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	5000	1981		75.3%	7.8%	62.7%											
Truck SUV	5000	1982		79.2%	8.9%	51.5%											
Truck SUV	5000	1983		72.6%	5.7%	66.6%											
Truck SUV	5000	1984		76.2%	6.5%	55.5%											
Truck SUV	5000	1985		73.0%	4.6%	64.6%			6.7%								
Truck SUV	5000	1986		72.8%	4.9%	76.8%			21.1%								
Truck SUV	5000	1987		97.3%	7.1%	62.0%			32.4%	43.2%							
Truck SUV	5000	1988		99.1%	6.3%	59.4%			54.9%	42.9%							
Truck SUV	5000	1989		99.4%	6.6%	63.0%			59.4%	40.6%							
Truck SUV	5000	1990		100.0%	4.8%	86.4%			63.3%	36.7%							
Truck SUV	5000	1991		100.0%	3.1%	91.6%			70.6%	29.4%							
Truck SUV	5000	1992		99.9%	4.7%	94.1%			97.4%	2.6%							
Truck SUV	5000	1993		100.0%	4.4%	95.6%			98.6%	1.4%							
Truck SUV	5000	1994		100.0%	3.4%	96.6%			98.5%	1.5%		68.5%		31.5%			
Truck SUV	5000	1995		75.9%	2.3%	97.7%			75.2%	24.8%		87.3%		12.7%			
Truck SUV	5000	1996		72.0%	2.6%	97.4%			100.0%			77.5%		22.5%			
Truck SUV	5000	1997		26.2%		100.0%			100.0%			79.4%		20.6%			
Truck SUV	5000	1998		58.8%		100.0%			100.0%			100.0%					
Truck SUV	5000	1999		54.4%		100.0%			100.0%			85.4%	14.6%				
Truck SUV	5000	2000		68.0%		100.0%			100.0%			97.8%		2.2%		2.2%	
Truck SUV	5000	2001		97.1%	0.3%	99.7%			100.0%			79.7%		20.3%		20.3%	
Truck SUV	5000	2002		88.4%	4.5%	95.5%			100.0%			37.5%	10.8%	51.7%		45.2%	
Truck SUV	5000	2003		86.9%	0.1%	99.9%			100.0%			28.5%	4.1%	67.4%		56.1%	
Truck SUV	5000	2004		79.3%	0.2%	99.8%			100.0%			26.5%		73.5%		58.7%	
Truck SUV	5000	2005		82.4%	0.1%	99.9%			100.0%			29.9%	3.2%	66.9%		61.6%	
Truck SUV	5000	2006	1.0%	83.6%	0.4%	99.6%			100.0%			35.5%	11.5%	53.0%		62.9%	
Truck SUV	5000	2007	8.0%	81.1%	0.3%	99.7%			98.9%		1.1%	42.0%	4.5%	53.6%		56.5%	
Truck SUV	5000	2008	17.4%	71.0%	0.1%	96.3%	3.5%	0.5%	98.4%		1.1%	31.0%	2.3%	66.6%		65.2%	3.5%
Truck SUV	5000	2009	33.9%	60.2%	0.1%	96.7%	3.2%	23.5%	75.5%		1.0%	15.2%	1.0%	83.9%		85.5%	3.2%
Truck SUV	5000	2010	25.8%	64.9%	0.0%	94.2%	5.8%	40.6%	58.8%		0.6%	20.0%	1.6%	78.4%		81.5%	5.8%
Truck SUV	5000	2011	24.3%	63.5%	0.0%	98.4%	1.6%	45.2%	53.9%		0.9%	1.0%		99.0%		99.5%	1.6%
Truck SUV	5000	2012	16.0%	77.9%	0.0%	96.6%	3.4%	50.7%	48.6%		0.7%	1.6%		98.4%		100.0%	3.4%
Truck SUV	5500	1975		84.6%	15.4%												
Truck SUV	5500	1976		72.3%	9.9%												
Truck SUV	5500	1977		77.0%	8.8%												
Truck SUV	5500	1978		79.0%	8.2%												

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	5500	1979	59	0.004	10.6	8.9	9.1	9.0	5500		405	176	14.5	0.432	0.0320	24.9		
Truck SUV	5500	1980	6	0.000	13.8	11.0	12.9	11.7	5500		350	165	15.0	0.471	0.0300	32.3		
Truck SUV	5500	1981	4	0.000	14.1	11.4	12.9	12.0	5500		350	175	14.3	0.500	0.0318	33.0		
Truck SUV	5500	1982	24	0.002	21.2	16.5	20.4	18.0	5500		350	134	17.8	0.382	0.0243	50.5		
Truck SUV	5500	1983	20	0.002	20.2	15.6	19.8	17.3	5500		372	139	17.4	0.375	0.0252	48.9		
Truck SUV	5500	1984	21	0.001	17.9	13.9	17.4	15.3	5500		364	148	16.6	0.408	0.0269	43.6		
Truck SUV	5500	1985	18	0.001	16.1	12.3	16.0	13.7	5500		355	159	15.5	0.450	0.0289	38.3		
Truck SUV	5500	1986	19	0.001	15.7	11.9	15.6	13.4	5500		353	162	15.3	0.459	0.0294	37.1		
Truck SUV	5500	1987	52	0.004	16.8	12.8	16.4	14.3	5500		350	209	12.5	0.596	0.0379	39.3		
Truck SUV	5500	1988	66	0.004	16.5	12.5	16.1	14.0	5500		350	200	12.9	0.572	0.0364	38.6		
Truck SUV	5500	1989	41	0.003	17.5	12.9	17.8	14.9	5500		350	209	12.4	0.596	0.0380	40.9		
Truck SUV	5500	1990	41	0.003	17.3	12.7	17.6	14.7	5500		350	209	12.4	0.597	0.0380	40.3		
Truck SUV	5500	1991	25	0.002	17.2	12.6	17.2	14.5	5500		350	209	12.4	0.597	0.0380	39.9		
Truck SUV	5500	1992	45	0.004	16.3	12.1	15.8	13.7	5500		350	210	12.4	0.600	0.0382	37.6		
Truck SUV	5500	1993	71	0.005	16.8	12.4	16.3	14.1	5500		350	210	12.4	0.600	0.0382	38.7		
Truck SUV	5500	1994	92	0.007	16.8	12.4	16.1	14.0	5500		351	210	12.4	0.598	0.0381	38.5		
Truck SUV	5500	1995	143	0.009	16.9	12.4	16.0	14.0	5500		350	205	12.6	0.586	0.0373	38.5		
Truck SUV	5500	1996	141	0.011	17.4	12.7	16.6	14.4	5500		350	250	10.7	0.714	0.0455	39.7		
Truck SUV	5500	1997	307	0.021	17.4	12.5	16.7	14.4	5500		334	238	11.2	0.713	0.0432	39.6		
Truck SUV	5500	1998	273	0.019	17.0	12.1	16.3	14.0	5500		327	234	11.3	0.720	0.0426	38.7		
Truck SUV	5500	1999	199	0.013	17.5	12.3	17.0	14.4	5500		333	252	10.7	0.759	0.0459	39.7		
Truck SUV	5500	2000	303	0.018	18.2	13.0	17.1	14.9	5500		306	253	10.7	0.841	0.0460	41.1		
Truck SUV	5500	2001	402	0.026	18.5	13.3	16.7	15.0	5500		306	260	10.5	0.857	0.0472	41.3		
Truck SUV	5500	2002	278	0.017	18.4	12.9	17.3	15.0	5500		310	267	10.2	0.862	0.0486	41.2		
Truck SUV	5500	2003	317	0.020	18.3	12.8	16.9	14.8	5500		297	258	10.5	0.867	0.0469	40.8		
Truck SUV	5500	2004	483	0.031	18.4	12.8	17.0	14.9	5500		302	280	10.0	0.933	0.0509	41.0		
Truck SUV	5500	2005	365	0.023	18.6	12.8	17.2	15.0	5500		296	287	9.7	0.978	0.0522	41.3		
Truck SUV	5500	2006	231	0.015	18.7	12.9	17.4	15.1	5500		303	289	9.7	0.959	0.0526	41.6		
Truck SUV	5500	2007	165	0.011	19.0	13.1	17.5	15.3	5500		291	305	9.3	1.058	0.0554	42.2		
Truck SUV	5500	2008	92	0.007	19.4	13.3	18.3	15.7	5500		283	327	8.7	1.175	0.0595	43.4		
Truck SUV	5500	2009	69	0.007	21.1	14.2	19.9	17.0	5500		267	311	9.0	1.189	0.0565	47.2		
Truck SUV	5500	2010	70	0.006	22.2	15.0	20.9	17.9	5500		254	304	9.0	1.218	0.0552	49.6		
Truck SUV	5500	2011	118	0.010	21.6	14.6	20.5	17.5	5500		278	345	8.0	1.273	0.0627	48.6		
Truck SUV	5500	2012	120	0.009	20.6	13.7	20.2	16.8	5500		310	369	7.7	1.219	0.0671	46.6		
Truck SUV	6000	1975	0	0.000	10.3	8.3	9.3	8.7	6000		400	170	15.7	0.425	0.0283	26.2		
Truck SUV	6000	1976	1	0.000	11.9	9.5	11.0	10.1	6000		400	170	15.6	0.426	0.0284	30.4		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	5500	1979		26.5%	21.0%												
Truck SUV	5500	1980		84.1%		100.0%											
Truck SUV	5500	1981		100.0%	6.8%	93.2%											
Truck SUV	5500	1982		66.8%	10.8%	89.2%					89.3%						
Truck SUV	5500	1983		68.3%	1.3%	98.7%					75.1%						
Truck SUV	5500	1984		74.8%	2.3%	97.7%					49.3%						
Truck SUV	5500	1985		100.0%	2.8%	97.2%					16.9%						
Truck SUV	5500	1986		100.0%	1.9%	98.1%					9.6%						
Truck SUV	5500	1987		37.9%	0.2%	99.8%				98.4%	1.6%						
Truck SUV	5500	1988		40.7%	0.2%	99.8%				98.8%	1.2%						
Truck SUV	5500	1989		2.2%		100.0%				98.6%	1.4%						
Truck SUV	5500	1990		1.0%		100.0%				98.9%	1.1%						
Truck SUV	5500	1991		1.3%		100.0%				98.6%	1.4%						
Truck SUV	5500	1992		46.2%		100.0%				100.0%							
Truck SUV	5500	1993		35.6%		100.0%				100.0%							
Truck SUV	5500	1994		39.3%		100.0%			1.5%	98.5%		100.0%					
Truck SUV	5500	1995		66.5%		100.0%				100.0%		100.0%					
Truck SUV	5500	1996		74.9%		100.0%			100.0%		0.0%	100.0%					
Truck SUV	5500	1997		85.1%		100.0%			100.0%			100.0%					
Truck SUV	5500	1998		85.1%		100.0%			100.0%			96.6%		3.4%			
Truck SUV	5500	1999		14.8%		100.0%			100.0%			95.7%		4.3%			
Truck SUV	5500	2000		40.6%		100.0%			100.0%			84.2%	11.8%	4.0%			
Truck SUV	5500	2001		45.7%		100.0%			100.0%			76.3%	10.0%	13.7%			
Truck SUV	5500	2002		19.9%		100.0%			100.0%			71.2%		28.8%			
Truck SUV	5500	2003		20.0%		100.0%			100.0%			75.3%	2.7%	22.0%		0.4%	
Truck SUV	5500	2004		47.7%		100.0%			100.0%			52.8%	3.8%	39.8%	3.7%	30.3%	
Truck SUV	5500	2005		56.9%		100.0%			100.0%			53.6%	0.2%	44.3%	2.0%	39.0%	
Truck SUV	5500	2006		62.1%		100.0%			100.0%			56.5%		41.9%	1.6%	43.5%	
Truck SUV	5500	2007		84.3%		100.0%			100.0%			38.9%		61.1%		38.1%	
Truck SUV	5500	2008		94.1%	0.1%	99.9%		43.7%	56.3%			39.6%		60.4%		55.8%	
Truck SUV	5500	2009		73.4%	0.3%	99.7%		28.0%	68.0%		4.0%	35.2%	3.0%	61.8%		69.6%	
Truck SUV	5500	2010		86.1%	0.0%	98.9%	1.1%	44.5%	45.5%		10.0%	17.7%		82.3%		92.9%	1.1%
Truck SUV	5500	2011		95.8%		99.9%	0.1%	35.9%	54.8%		9.3%	40.9%		59.1%		90.7%	1.5%
Truck SUV	5500	2012		92.2%		100.0%		16.4%	76.3%		7.4%	62.4%		37.6%		90.3%	1.8%
Truck SUV	6000	1975		100.0%	12.7%												
Truck SUV	6000	1976		100.0%	12.8%												

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	6000	1977	1	0.000	11.9	9.5	11.0	10.1	6000		400	180	15.0	0.450	0.0300	30.4		
Truck SUV	6000	1978	1	0.000	11.4	9.2	10.2	9.7	6000		400	180	15.0	0.449	0.0300	29.0		
Truck SUV	6000	1979																
Truck SUV	6000	1980	3	0.000	13.4	10.3	13.2	11.4	6000		350	165	16.1	0.470	0.0274	34.2		
Truck SUV	6000	1981																
Truck SUV	6000	1982	4	0.000	21.2	16.5	20.5	18.1	6000		350	130	19.5	0.371	0.0217	54.2		
Truck SUV	6000	1983	4	0.000	20.8	16.0	20.4	17.7	6000		379	130	19.5	0.343	0.0217	53.2		
Truck SUV	6000	1984	4	0.000	21.0	16.1	20.8	17.9	6000		379	130	19.5	0.343	0.0217	53.8		
Truck SUV	6000	1985	7	0.000	21.4	16.2	21.7	18.3	6000		378	131	19.4	0.348	0.0219	55.3		
Truck SUV	6000	1986	5	0.000	22.1	16.7	22.1	18.8	6000		379	130	19.5	0.343	0.0217	56.5		
Truck SUV	6000	1987	3	0.000	20.9	15.9	20.5	17.8	6000		376	137	18.9	0.366	0.0229	54.1		
Truck SUV	6000	1988	3	0.000	18.3	13.9	17.8	15.5	6000		368	162	16.9	0.445	0.0270	47.9		
Truck SUV	6000	1989	33	0.002	15.8	11.9	15.4	13.3	6000		352	206	13.6	0.586	0.0343	40.2		
Truck SUV	6000	1990	32	0.003	16.0	12.0	15.6	13.5	6000		351	206	13.5	0.588	0.0344	40.6		
Truck SUV	6000	1991	18	0.001	15.7	11.7	15.2	13.2	6000		351	207	13.5	0.591	0.0345	39.7		
Truck SUV	6000	1992	21	0.002	14.9	10.9	14.7	12.5	6000		350	210	13.3	0.600	0.0350	37.5		
Truck SUV	6000	1993	49	0.004	15.8	11.6	15.3	13.2	6000		350	210	13.3	0.600	0.0350	39.7		
Truck SUV	6000	1994	60	0.004	16.1	12.0	15.0	13.3	6000		350	210	13.3	0.600	0.0350	40.0		
Truck SUV	6000	1995	61	0.004	15.7	11.6	14.9	13.1	6000		350	210	13.3	0.599	0.0350	39.2		
Truck SUV	6000	1996	58	0.004	16.8	12.1	16.3	13.9	6000		350	250	11.5	0.713	0.0416	41.8		
Truck SUV	6000	1997	74	0.005	16.7	12.0	15.9	13.8	6000		350	250	11.5	0.713	0.0416	41.4		
Truck SUV	6000	1998	50	0.003	16.1	11.5	15.7	13.4	6000		323	230	12.3	0.715	0.0383	40.1		
Truck SUV	6000	1999	166	0.011	16.5	11.7	16.1	13.7	6000		319	237	12.1	0.747	0.0395	41.0		
Truck SUV	6000	2000	269	0.016	16.6	11.9	15.5	13.6	6000		325	257	11.3	0.795	0.0429	40.8		
Truck SUV	6000	2001	219	0.014	16.8	12.0	15.4	13.6	6000		326	274	10.7	0.842	0.0457	41.0		
Truck SUV	6000	2002	453	0.028	17.7	12.4	16.6	14.4	6000		332	295	10.2	0.885	0.0491	43.5		
Truck SUV	6000	2003	654	0.041	17.4	12.1	16.4	14.2	6000		329	279	10.6	0.851	0.0465	42.7		
Truck SUV	6000	2004	635	0.040	17.4	12.1	16.2	14.1	6000		331	287	10.4	0.869	0.0479	42.4		
Truck SUV	6000	2005	490	0.031	18.2	12.5	16.9	14.7	6000		330	302	9.9	0.917	0.0504	44.2		
Truck SUV	6000	2006	327	0.022	18.1	12.4	16.9	14.6	6000		318	306	9.8	0.973	0.0510	43.9		
Truck SUV	6000	2007	681	0.045	19.8	13.3	19.0	16.0	6000		329	322	9.5	0.979	0.0537	48.3		
Truck SUV	6000	2008	442	0.032	19.5	13.2	18.7	15.8	6000		324	333	9.2	1.031	0.0554	47.7		
Truck SUV	6000	2009	139	0.015	19.8	13.3	19.0	16.1	6000		329	339	9.0	1.039	0.0566	48.7		
Truck SUV	6000	2010	202	0.018	20.2	13.6	19.3	16.4	6000		326	335	9.1	1.033	0.0558	49.4		
Truck SUV	6000	2011	364	0.030	20.7	14.0	19.6	16.7	6000		324	339	9.0	1.050	0.0564	50.4		
Truck SUV	6000	2012	261	0.020	21.4	14.3	20.0	17.1	6000		326	337	9.0	1.041	0.0562	51.7		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	6000	1977		100.0%	11.6%												
Truck SUV	6000	1978		100.0%	15.5%												
Truck SUV	6000	1979															
Truck SUV	6000	1980		3.4%		100.0%											
Truck SUV	6000	1981															
Truck SUV	6000	1982		100.0%		100.0%					100.0%						
Truck SUV	6000	1983		100.0%		100.0%					100.0%						
Truck SUV	6000	1984		100.0%		100.0%					100.0%						
Truck SUV	6000	1985		47.3%		100.0%					95.9%						
Truck SUV	6000	1986		49.0%		100.0%					100.0%						
Truck SUV	6000	1987		56.8%	9.1%	90.9%				9.1%	90.9%						
Truck SUV	6000	1988		70.0%	7.3%	92.7%				37.7%	62.3%						
Truck SUV	6000	1989		97.2%	1.0%	99.0%				94.6%	5.4%						
Truck SUV	6000	1990		97.5%	0.7%	99.3%				95.2%	4.8%						
Truck SUV	6000	1991		96.2%		100.0%				96.1%	3.9%						
Truck SUV	6000	1992		100.0%		100.0%				100.0%							
Truck SUV	6000	1993		100.0%		100.0%				100.0%							
Truck SUV	6000	1994		100.0%		100.0%				100.0%		100.0%					
Truck SUV	6000	1995		100.0%		100.0%			1.0%	99.0%		100.0%					
Truck SUV	6000	1996		100.0%		100.0%			99.5%		0.5%	100.0%					
Truck SUV	6000	1997		100.0%		100.0%			99.6%		0.4%	100.0%					
Truck SUV	6000	1998		100.0%		100.0%			99.7%		0.3%	87.0%		13.0%			
Truck SUV	6000	1999		100.0%		100.0%			100.0%			70.2%		29.8%			
Truck SUV	6000	2000		100.0%		100.0%			100.0%			86.4%		13.6%			
Truck SUV	6000	2001		93.4%		100.0%			100.0%			77.0%		23.0%			
Truck SUV	6000	2002		84.5%		100.0%			100.0%			92.7%		7.3%			
Truck SUV	6000	2003		75.1%		100.0%			100.0%			92.2%	0.1%	7.7%		2.1%	
Truck SUV	6000	2004		78.2%		100.0%			99.9%		0.1%	86.6%	0.2%	13.1%		7.3%	
Truck SUV	6000	2005		76.6%		100.0%			100.0%			63.4%	24.1%	12.5%		34.9%	
Truck SUV	6000	2006		77.2%		100.0%			99.8%		0.2%	36.9%	32.1%	31.0%		63.0%	
Truck SUV	6000	2007		56.7%		100.0%			99.7%		0.3%	85.2%	5.4%	9.4%		28.6%	
Truck SUV	6000	2008		57.2%		98.2%	1.8%	0.8%	97.9%		1.2%	62.7%	8.3%	29.1%		41.8%	1.8%
Truck SUV	6000	2009		57.2%		95.5%	4.5%	1.4%	96.9%		1.7%	66.2%	4.7%	29.1%		45.4%	5.9%
Truck SUV	6000	2010		60.7%		99.3%	0.6%	12.9%	84.5%		2.6%	48.8%	9.1%	42.1%		89.8%	0.7%
Truck SUV	6000	2011		65.9%		99.7%	0.3%	15.4%	82.1%		2.5%	63.9%	4.5%	31.5%		98.4%	0.3%
Truck SUV	6000	2012		55.3%		92.8%	7.2%	10.1%	86.3%		3.6%	68.7%	8.0%	23.3%		97.7%	7.2%

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	6500	1975																
Truck SUV	6500	1976																
Truck SUV	6500	1977																
Truck SUV	6500	1978																
Truck SUV	6500	1979																
Truck SUV	6500	1980																
Truck SUV	6500	1981																
Truck SUV	6500	1982																
Truck SUV	6500	1983																
Truck SUV	6500	1984																
Truck SUV	6500	1985																
Truck SUV	6500	1986																
Truck SUV	6500	1987																
Truck SUV	6500	1988																
Truck SUV	6500	1989																
Truck SUV	6500	1990																
Truck SUV	6500	1991	1	0.000	20.2	14.7	20.4	17.0	6500		379	140	19.6	0.369	0.0215	55.2		
Truck SUV	6500	1992																
Truck SUV	6500	1993																
Truck SUV	6500	1994																
Truck SUV	6500	1995																
Truck SUV	6500	1996																
Truck SUV	6500	1997																
Truck SUV	6500	1998																
Truck SUV	6500	1999																
Truck SUV	6500	2000																
Truck SUV	6500	2001																
Truck SUV	6500	2002																
Truck SUV	6500	2003																
Truck SUV	6500	2004																
Truck SUV	6500	2005																
Truck SUV	6500	2006																
Truck SUV	6500	2007																
Truck SUV	6500	2008	40	0.003	18.4	12.5	17.5	14.9	6500		344	375	8.9	1.090	0.0577	48.6		
Truck SUV	6500	2009	4	0.000	18.3	12.4	17.5	14.9	6500		346	383	8.7	1.107	0.0589	48.4		
Truck SUV	6500	2010	36	0.003	18.4	12.6	17.3	14.9	6500		337	341	9.6	1.011	0.0525	48.5		

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	6500	1975															
Truck SUV	6500	1976															
Truck SUV	6500	1977															
Truck SUV	6500	1978															
Truck SUV	6500	1979															
Truck SUV	6500	1980															
Truck SUV	6500	1981															
Truck SUV	6500	1982															
Truck SUV	6500	1983															
Truck SUV	6500	1984															
Truck SUV	6500	1985															
Truck SUV	6500	1986															
Truck SUV	6500	1987															
Truck SUV	6500	1988															
Truck SUV	6500	1989															
Truck SUV	6500	1990															
Truck SUV	6500	1991		100.0%		100.0%					100.0%						
Truck SUV	6500	1992															
Truck SUV	6500	1993															
Truck SUV	6500	1994															
Truck SUV	6500	1995															
Truck SUV	6500	1996															
Truck SUV	6500	1997															
Truck SUV	6500	1998															
Truck SUV	6500	1999															
Truck SUV	6500	2000															
Truck SUV	6500	2001															
Truck SUV	6500	2002															
Truck SUV	6500	2003															
Truck SUV	6500	2004															
Truck SUV	6500	2005															
Truck SUV	6500	2006															
Truck SUV	6500	2007															
Truck SUV	6500	2008		100.0%		100.0%			100.0%					100.0%		100.0%	
Truck SUV	6500	2009		100.0%		100.0%			100.0%					100.0%		100.0%	
Truck SUV	6500	2010		85.6%		100.0%			100.0%				55.5%	44.5%		44.5%	

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	6500	2011	77	0.006	18.6	12.7	17.5	15.1	6500		348	353	9.4	1.011	0.0544	49.0		
Truck SUV	6500	2012	60	0.005	18.8	12.8	17.7	15.2	6500		346	345	9.6	0.994	0.0530	49.6		
Truck SUV	7000	1975																
Truck SUV	7000	1976																
Truck SUV	7000	1977																
Truck SUV	7000	1978																
Truck SUV	7000	1979																
Truck SUV	7000	1980																
Truck SUV	7000	1981																
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Truck SUV	7000	2000																
Truck SUV	7000	2001																
Truck SUV	7000	2002																
Truck SUV	7000	2003																
Truck SUV	7000	2004																
Truck SUV	7000	2005																
Truck SUV	7000	2006																
Truck SUV	7000	2007																
Truck SUV	7000	2008																

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	6500	2011		91.5%		98.7%	1.3%		100.0%			31.6%	47.2%	21.2%		100.0%	1.3%
Truck SUV	6500	2012		85.8%		99.0%	1.0%		100.0%			29.6%	57.5%	12.9%		100.0%	1.0%
Truck SUV	7000	1975															
Truck SUV	7000	1976															
Truck SUV	7000	1977															
Truck SUV	7000	1978															
Truck SUV	7000	1979															
Truck SUV	7000	1980															
Truck SUV	7000	1981															
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Truck SUV	7000	2003															
Truck SUV	7000	2004															
Truck SUV	7000	2005															
Truck SUV	7000	2006															
Truck SUV	7000	2007															
Truck SUV	7000	2008															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	7000	2009																
Truck SUV	7000	2010																
Truck SUV	7000	2011	4	0.000	15.4	10.3	15.4	12.7	7000		366	352	9.9	0.962	0.0503	44.5		
Truck SUV	7000	2012	3	0.000	15.4	10.3	15.4	12.7	7000		366	352	9.9	0.962	0.0503	44.5		
Truck SUV	8500	1975																
Truck SUV	8500	1976																
Truck SUV	8500	1977																
Truck SUV	8500	1978																
Truck SUV	8500	1979																
Truck SUV	8500	1980																
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Truck SUV	8500	2001																
Truck SUV	8500	2002																
Truck SUV	8500	2003																
Truck SUV	8500	2004																
Truck SUV	8500	2005																
Truck SUV	8500	2006																

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	7000	2009															
Truck SUV	7000	2010															
Truck SUV	7000	2011		100.0%		100.0%			100.0%			100.0%				100.0%	
Truck SUV	7000	2012		100.0%		100.0%			100.0%			100.0%				100.0%	
Truck SUV	8500	1975															
Truck SUV	8500	1976															
Truck SUV	8500	1977															
Truck SUV	8500	1978															
Truck SUV	8500	1979															
Truck SUV	8500	1980															
Truck SUV	8500	1981															
Truck SUV	8500	1982															
Truck SUV	8500	1983															
Truck SUV	8500	1984															
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Truck SUV	8500	1988															
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Truck SUV	8500	1990															
Truck SUV	8500	1991															
Truck SUV	8500	1992															
Truck SUV	8500	1993															
Truck SUV	8500	1994															
Truck SUV	8500	1995															
Truck SUV	8500	1996															
Truck SUV	8500	1997															
Truck SUV	8500	1998															
Truck SUV	8500	1999															
Truck SUV	8500	2000															
Truck SUV	8500	2001															
Truck SUV	8500	2002															
Truck SUV	8500	2003															
Truck SUV	8500	2004															
Truck SUV	8500	2005															
Truck SUV	8500	2006															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	8500	2007																
Truck SUV	8500	2008																
Truck SUV	8500	2009																
Truck SUV	8500	2010																
Truck SUV	8500	2011	0	0.000	16.4	11.2	15.6	13.3	8500		330	310	12.8	0.939	0.0365	56.6		
Truck SUV	8500	2012																
Pickup	2000	1975																
Pickup	2000	1976																
Pickup	2000	1977																
Pickup	2000	1978																
Pickup	2000	1979																
Pickup	2000	1980	0	0.000	25.2	20.3	22.9	21.4	2000		49	41	19.7	0.837	0.0205	21.4		
Pickup	2000	1981	0	0.000	25.2	20.3	22.9	21.4	2000		49	41	19.7	0.837	0.0205	21.4		
Pickup	2000	1982																
Pickup	2000	1983																
Pickup	2000	1984																
Pickup	2000	1985																
Pickup	2000	1986																
Pickup	2000	1987																
Pickup	2000	1988																
Pickup	2000	1989																
Pickup	2000	1990																
Pickup	2000	1991																
Pickup	2000	1992																
Pickup	2000	1993																
Pickup	2000	1994																
Pickup	2000	1995																
Pickup	2000	1996																
Pickup	2000	1997																
Pickup	2000	1998																
Pickup	2000	1999																
Pickup	2000	2000																
Pickup	2000	2001																
Pickup	2000	2002																
Pickup	2000	2003																
Pickup	2000	2004																

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	8500	2007															
Truck SUV	8500	2008															
Truck SUV	8500	2009															
Truck SUV	8500	2010															
Truck SUV	8500	2011				100.0%			100.0%				100.0%			100.0%	
Truck SUV	8500	2012															
Pickup	2000	1975															
Pickup	2000	1976															
Pickup	2000	1977															
Pickup	2000	1978															
Pickup	2000	1979															
Pickup	2000	1980		100.0%	100.0%												
Pickup	2000	1981		100.0%	100.0%												
Pickup	2000	1982															
Pickup	2000	1983															
Pickup	2000	1984															
Pickup	2000	1985															
Pickup	2000	1986															
Pickup	2000	1987															
Pickup	2000	1988															
Pickup	2000	1989															
Pickup	2000	1990															
Pickup	2000	1991															
Pickup	2000	1992															
Pickup	2000	1993															
Pickup	2000	1994															
Pickup	2000	1995															
Pickup	2000	1996															
Pickup	2000	1997															
Pickup	2000	1998															
Pickup	2000	1999															
Pickup	2000	2000															
Pickup	2000	2001															
Pickup	2000	2002															
Pickup	2000	2003															
Pickup	2000	2004															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	2000	2005																
Pickup	2000	2006																
Pickup	2000	2007																
Pickup	2000	2008																
Pickup	2000	2009																
Pickup	2000	2010																
Pickup	2000	2011																
Pickup	2000	2012																
Pickup	2250	1975																
Pickup	2250	1976																
Pickup	2250	1977																
Pickup	2250	1978																
Pickup	2250	1979	0	0.000	25.0	20.1	22.9	21.2	2250		49	41	21.6	0.837	0.0182	23.9		
Pickup	2250	1980	25	0.002	32.0	25.3	30.0	27.2	2250		94	64	15.9	0.677	0.0284	32.4		
Pickup	2250	1981	24	0.002	41.5	33.2	38.1	35.2	2250		97	52	17.9	0.536	0.0231	39.7		
Pickup	2250	1982	11	0.001	43.1	35.7	37.6	36.5	2250		97	52	18.0	0.539	0.0231	41.2		
Pickup	2250	1983	1	0.000	39.2	32.6	34.0	33.2	2250		91	51	18.3	0.571	0.0226	39.1		
Pickup	2250	1984	0	0.000	28.8	25.3	23.1	24.2	2250		59	45	20.1	0.763	0.0200	27.3		
Pickup	2250	1985																
Pickup	2250	1986																
Pickup	2250	1987																
Pickup	2250	1988																
Pickup	2250	1989																
Pickup	2250	1990																
Pickup	2250	1991																
Pickup	2250	1992																
Pickup	2250	1993																
Pickup	2250	1994																
Pickup	2250	1995																
Pickup	2250	1996																
Pickup	2250	1997																
Pickup	2250	1998																
Pickup	2250	1999																
Pickup	2250	2000																
Pickup	2250	2001																
Pickup	2250	2002																

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	2000	2005															
Pickup	2000	2006															
Pickup	2000	2007															
Pickup	2000	2008															
Pickup	2000	2009															
Pickup	2000	2010															
Pickup	2000	2011															
Pickup	2000	2012															
Pickup	2250	1975															
Pickup	2250	1976															
Pickup	2250	1977															
Pickup	2250	1978															
Pickup	2250	1979		100.0%	100.0%												
Pickup	2250	1980	100.0%		100.0%					54.6%	45.4%						
Pickup	2250	1981	100.0%		100.0%						100.0%						
Pickup	2250	1982	98.8%	1.2%	100.0%						98.8%						
Pickup	2250	1983	84.5%	15.5%	100.0%						84.5%						
Pickup	2250	1984		100.0%	100.0%												
Pickup	2250	1985															
Pickup	2250	1986															
Pickup	2250	1987															
Pickup	2250	1988															
Pickup	2250	1989															
Pickup	2250	1990															
Pickup	2250	1991															
Pickup	2250	1992															
Pickup	2250	1993															
Pickup	2250	1994															
Pickup	2250	1995															
Pickup	2250	1996															
Pickup	2250	1997															
Pickup	2250	1998															
Pickup	2250	1999															
Pickup	2250	2000															
Pickup	2250	2001															
Pickup	2250	2002															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	2250	2003																
Pickup	2250	2004																
Pickup	2250	2005																
Pickup	2250	2006																
Pickup	2250	2007																
Pickup	2250	2008																
Pickup	2250	2009																
Pickup	2250	2010																
Pickup	2250	2011																
Pickup	2250	2012																
Pickup	2500	1975																
Pickup	2500	1976																
Pickup	2500	1977																
Pickup	2500	1978	23	0.002	27.2	21.2	26.3	23.2	2500		97	67	16.0	0.691	0.0268	29.1		
Pickup	2500	1979	39	0.003	27.5	21.7	26.1	23.5	2500		97	67	16.0	0.691	0.0268	29.4		
Pickup	2500	1980	17	0.001	25.8	19.9	25.2	22.0	2500		97	68	15.8	0.701	0.0272	27.5		
Pickup	2500	1981	27	0.003	28.4	22.4	26.7	24.2	2500		108	73	14.9	0.683	0.0294	30.2		
Pickup	2500	1982	25	0.003	29.7	23.1	28.8	25.3	2500		123	80	14.0	0.655	0.0321	31.7		
Pickup	2500	1983	21	0.002	32.6	24.6	33.1	27.8	2500		128	86	13.3	0.670	0.0343	34.9		
Pickup	2500	1984	15	0.001	28.1	22.2	26.3	23.9	2500		102	70	16.4	0.700	0.0279	30.1		
Pickup	2500	1985	4	0.000	29.6	23.5	27.4	25.2	2500		109	73	15.0	0.670	0.0292	31.5		
Pickup	2500	1986	5	0.000	30.0	23.6	27.9	25.4	2500		109	73	15.0	0.670	0.0292	31.8		
Pickup	2500	1987	1	0.000	29.8	23.4	27.5	25.1	2500		109	73	15.0	0.670	0.0292	31.4		
Pickup	2500	1988																
Pickup	2500	1989																
Pickup	2500	1990																
Pickup	2500	1991																
Pickup	2500	1992																
Pickup	2500	1993																
Pickup	2500	1994																
Pickup	2500	1995																
Pickup	2500	1996																
Pickup	2500	1997																
Pickup	2500	1998																
Pickup	2500	1999																
Pickup	2500	2000																

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	2250	2003															
Pickup	2250	2004															
Pickup	2250	2005															
Pickup	2250	2006															
Pickup	2250	2007															
Pickup	2250	2008															
Pickup	2250	2009															
Pickup	2250	2010															
Pickup	2250	2011															
Pickup	2250	2012															
Pickup	2500	1975															
Pickup	2500	1976															
Pickup	2500	1977															
Pickup	2500	1978		100.0%	100.0%												
Pickup	2500	1979		100.0%	100.0%												
Pickup	2500	1980	9.5%	90.5%	90.5%					9.5%							
Pickup	2500	1981	34.2%	65.8%	100.0%					34.2%							
Pickup	2500	1982	71.2%	28.8%	83.6%					13.5%							
Pickup	2500	1983	78.8%	21.2%	95.7%	4.3%				4.2%							
Pickup	2500	1984	36.0%	64.0%	96.0%	4.0%											
Pickup	2500	1985		100.0%	95.6%	4.4%											
Pickup	2500	1986		100.0%	100.0%												
Pickup	2500	1987		100.0%	100.0%												
Pickup	2500	1988															
Pickup	2500	1989															
Pickup	2500	1990															
Pickup	2500	1991															
Pickup	2500	1992															
Pickup	2500	1993															
Pickup	2500	1994															
Pickup	2500	1995															
Pickup	2500	1996															
Pickup	2500	1997															
Pickup	2500	1998															
Pickup	2500	1999															
Pickup	2500	2000															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	2500	2001																
Pickup	2500	2002																
Pickup	2500	2003																
Pickup	2500	2004																
Pickup	2500	2005																
Pickup	2500	2006																
Pickup	2500	2007																
Pickup	2500	2008																
Pickup	2500	2009																
Pickup	2500	2010																
Pickup	2500	2011																
Pickup	2500	2012																
Pickup	2750	1975	156	0.015	22.7	17.4	22.4	19.4	2750		119	95	13.3	0.799	0.0347	26.7		
Pickup	2750	1976	162	0.013	24.1	18.6	23.8	20.6	2750		120	98	13.1	0.815	0.0355	28.4		
Pickup	2750	1977	226	0.016	25.7	20.0	24.7	21.9	2750		121	97	13.2	0.801	0.0352	30.2		
Pickup	2750	1978	183	0.013	25.8	20.7	23.7	22.0	2750		121	97	13.1	0.801	0.0353	30.3		
Pickup	2750	1979	240	0.017	22.7	17.8	21.6	19.3	2750		126	91	13.7	0.722	0.0330	27.0		
Pickup	2750	1980	324	0.029	25.2	20.0	23.4	21.4	2750		126	91	13.6	0.728	0.0333	29.7		
Pickup	2750	1981	222	0.021	27.9	22.2	26.0	23.8	2750		130	90	13.8	0.695	0.0329	32.9		
Pickup	2750	1982	227	0.023	28.3	22.4	26.3	24.0	2750		130	91	13.7	0.699	0.0331	33.3		
Pickup	2750	1983	340	0.033	28.8	22.9	26.7	24.5	2750		132	87	14.2	0.658	0.0315	33.9		
Pickup	2750	1984	314	0.022	28.2	22.5	26.1	24.0	2750		130	87	14.2	0.670	0.0317	33.3		
Pickup	2750	1985	238	0.016	29.9	23.7	27.8	25.4	2750		130	90	13.8	0.692	0.0328	35.1		
Pickup	2750	1986	311	0.020	29.5	23.3	27.4	25.0	2750		132	92	13.6	0.694	0.0334	34.6		
Pickup	2750	1987	240	0.016	29.7	23.2	27.7	25.1	2750		134	93	13.5	0.694	0.0338	34.6		
Pickup	2750	1988	121	0.008	27.8	21.7	25.5	23.4	2750		136	98	12.9	0.721	0.0356	32.2		
Pickup	2750	1989	76	0.005	27.6	21.6	25.1	23.1	2750		135	97	12.9	0.721	0.0354	31.9		
Pickup	2750	1990	31	0.002	26.0	20.4	23.0	21.6	2750		144	102	12.4	0.708	0.0371	29.7		
Pickup	2750	1991																
Pickup	2750	1992	19	0.002	28.2	21.3	25.7	23.3	2750		144	112	11.6	0.778	0.0407	32.0		
Pickup	2750	1993																
Pickup	2750	1994																
Pickup	2750	1995																
Pickup	2750	1996																
Pickup	2750	1997																
Pickup	2750	1998																

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	2500	2001															
Pickup	2500	2002															
Pickup	2500	2003															
Pickup	2500	2004															
Pickup	2500	2005															
Pickup	2500	2006															
Pickup	2500	2007															
Pickup	2500	2008															
Pickup	2500	2009															
Pickup	2500	2010															
Pickup	2500	2011															
Pickup	2500	2012															
Pickup	2750	1975			88.7%												
Pickup	2750	1976			80.2%												
Pickup	2750	1977			79.9%												
Pickup	2750	1978			86.1%												
Pickup	2750	1979			85.8%												
Pickup	2750	1980			86.9%												
Pickup	2750	1981			90.3%						1.4%						
Pickup	2750	1982	1.4%		87.1%	4.9%					1.7%						
Pickup	2750	1983	4.0%	0.1%	89.4%	0.2%				0.1%	0.9%						
Pickup	2750	1984	2.2%	0.1%	88.1%	0.3%			1.2%		0.7%						
Pickup	2750	1985			92.5%				1.5%		0.4%						
Pickup	2750	1986			89.0%						0.4%						
Pickup	2750	1987			90.6%												
Pickup	2750	1988			99.4%				0.6%								
Pickup	2750	1989			100.0%												
Pickup	2750	1990			100.0%												
Pickup	2750	1991															
Pickup	2750	1992			100.0%				100.0%								
Pickup	2750	1993															
Pickup	2750	1994															
Pickup	2750	1995															
Pickup	2750	1996															
Pickup	2750	1997															
Pickup	2750	1998															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	2750	1999																
Pickup	2750	2000																
Pickup	2750	2001																
Pickup	2750	2002																
Pickup	2750	2003																
Pickup	2750	2004																
Pickup	2750	2005																
Pickup	2750	2006																
Pickup	2750	2007																
Pickup	2750	2008																
Pickup	2750	2009																
Pickup	2750	2010																
Pickup	2750	2011																
Pickup	2750	2012																
Pickup	3000	1975	60	0.006	20.7	16.4	19.4	17.6	3000		107	70	18.2	0.667	0.0234	26.6		
Pickup	3000	1976	63	0.005	22.3	17.5	21.2	19.0	3000		108	70	18.3	0.667	0.0234	29.0		
Pickup	3000	1977	78	0.006	28.6	22.4	27.2	24.3	3000		122	75	17.2	0.629	0.0249	37.0		
Pickup	3000	1978	124	0.009	27.5	21.9	25.5	23.4	3000		123	77	16.7	0.631	0.0258	35.5		
Pickup	3000	1979	174	0.013	23.9	18.9	22.4	20.3	3000		124	80	16.2	0.649	0.0266	31.2		
Pickup	3000	1980	169	0.015	23.6	18.8	21.9	20.1	3000		127	84	15.5	0.666	0.0281	30.7		
Pickup	3000	1981	211	0.020	27.1	21.6	25.2	23.1	3000		136	83	16.0	0.613	0.0278	35.6		
Pickup	3000	1982	353	0.036	26.4	20.8	25.0	22.5	3000		157	96	14.4	0.616	0.0322	34.4		
Pickup	3000	1983	378	0.037	26.4	20.7	25.0	22.5	3000		149	93	14.7	0.626	0.0310	34.3		
Pickup	3000	1984	475	0.034	26.6	20.8	25.4	22.6	3000		147	93	14.6	0.636	0.0310	34.5		
Pickup	3000	1985	583	0.040	26.3	20.6	25.0	22.4	3000		153	100	13.6	0.656	0.0334	33.9		
Pickup	3000	1986	785	0.051	26.8	20.9	25.3	22.7	3000		144	100	13.8	0.689	0.0333	34.3		
Pickup	3000	1987	728	0.049	27.0	20.8	25.7	22.8	3000		146	100	13.8	0.684	0.0334	34.4		
Pickup	3000	1988	715	0.047	27.4	21.1	25.9	23.1	3000		146	98	14.0	0.672	0.0328	34.9		
Pickup	3000	1989	575	0.040	27.6	21.2	25.8	23.2	3000		146	102	13.5	0.699	0.0340	34.9		
Pickup	3000	1990	413	0.033	28.2	21.6	25.9	23.5	3000		143	110	12.8	0.765	0.0365	35.4		
Pickup	3000	1991	577	0.046	27.5	20.8	25.6	22.9	3000		149	109	12.8	0.735	0.0364	34.5		
Pickup	3000	1992	318	0.026	27.1	20.4	25.2	22.5	3000		148	112	12.5	0.760	0.0375	33.9		
Pickup	3000	1993	364	0.028	27.4	20.4	25.5	22.6	3000		150	115	12.2	0.771	0.0385	34.1		
Pickup	3000	1994	275	0.019	28.0	20.9	25.5	23.0	3000		143	117	12.0	0.818	0.0390	34.6		
Pickup	3000	1995	172	0.011	27.3	20.4	24.6	22.3	3000		145	129	11.2	0.883	0.0429	33.5		
Pickup	3000	1996	103	0.008	27.2	20.1	24.5	22.1	3000		148	139	10.5	0.938	0.0462	33.3		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	2750	1999															
Pickup	2750	2000															
Pickup	2750	2001															
Pickup	2750	2002															
Pickup	2750	2003															
Pickup	2750	2004															
Pickup	2750	2005															
Pickup	2750	2006															
Pickup	2750	2007															
Pickup	2750	2008															
Pickup	2750	2009															
Pickup	2750	2010															
Pickup	2750	2011															
Pickup	2750	2012															
Pickup	3000	1975			69.3%												
Pickup	3000	1976			84.5%												
Pickup	3000	1977			88.8%												
Pickup	3000	1978			88.1%												
Pickup	3000	1979		31.7%	88.1%												
Pickup	3000	1980		56.9%	93.2%												
Pickup	3000	1981		44.0%	93.7%	0.1%					25.5%						
Pickup	3000	1982		21.0%	74.1%	22.7%					17.0%						
Pickup	3000	1983		16.4%	73.6%	9.6%					8.8%						
Pickup	3000	1984		9.4%	74.8%	11.5%			3.4%		4.7%						
Pickup	3000	1985		9.9%	68.8%	26.0%			16.8%	14.0%	1.8%						
Pickup	3000	1986		4.1%	78.9%	16.7%			19.3%	33.6%	0.9%						
Pickup	3000	1987		4.6%	77.4%	15.9%			20.3%	39.9%	0.4%						
Pickup	3000	1988		1.0%	77.9%	15.9%			28.3%	37.0%							
Pickup	3000	1989			82.7%	11.6%			31.0%	45.2%							
Pickup	3000	1990			86.3%	10.7%			70.8%	10.1%							
Pickup	3000	1991			88.1%	9.0%			51.5%	37.9%							
Pickup	3000	1992			85.9%	9.4%			53.1%	28.2%							
Pickup	3000	1993			87.3%	8.3%			63.2%	25.2%							
Pickup	3000	1994			85.5%	5.3%			92.5%			100.0%					
Pickup	3000	1995			79.0%	9.2%			100.0%			81.9%		18.1%			
Pickup	3000	1996			72.2%	2.1%			100.0%			0.1%	39.0%	60.9%			

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	3000	1997	66	0.005	26.6	19.6	23.9	21.6	3000		146	134	10.8	0.917	0.0446	32.5		
Pickup	3000	1998	81	0.006	27.3	20.0	24.2	22.0	3000		149	142	10.3	0.954	0.0473	33.1		
Pickup	3000	1999	50	0.003	27.2	19.8	24.0	21.9	3000		149	142	10.3	0.953	0.0473	32.8		
Pickup	3000	2000	40	0.002	26.7	19.5	23.2	21.3	3000		149	142	10.3	0.953	0.0473	32.0		
Pickup	3000	2001	23	0.001	27.1	19.7	23.2	21.5	3000		149	142	10.3	0.953	0.0473	32.3		
Pickup	3000	2002	21	0.001	27.7	19.6	24.3	22.0	3000		149	142	10.3	0.953	0.0473	33.0		
Pickup	3000	2003	21	0.001	27.7	19.6	24.1	21.9	3000		149	142	10.3	0.953	0.0473	32.8		
Pickup	3000	2004	23	0.001	27.6	19.4	23.9	21.7	3000		149	142	10.3	0.953	0.0473	32.6		
Pickup	3000	2005																
Pickup	3000	2006																
Pickup	3000	2007																
Pickup	3000	2008																
Pickup	3000	2009																
Pickup	3000	2010																
Pickup	3000	2011																
Pickup	3000	2012																
Pickup	3500	1975	39	0.004	15.1	11.9	14.4	12.9	3500		348	156	11.1	0.447	0.0445	22.7		
Pickup	3500	1976	71	0.006	16.5	13.1	15.5	14.1	3500		319	138	12.3	0.440	0.0394	25.0		
Pickup	3500	1977	65	0.005	17.1	13.6	15.9	14.6	3500		328	143	12.1	0.442	0.0408	25.8		
Pickup	3500	1978	89	0.006	18.5	14.6	17.4	15.8	3500		275	132	12.9	0.497	0.0377	27.8		
Pickup	3500	1979	22	0.002	18.9	15.1	17.5	16.1	3500		209	106	15.0	0.531	0.0304	28.6		
Pickup	3500	1980	53	0.005	18.7	15.2	16.8	15.9	3500		213	113	14.3	0.557	0.0323	28.1		
Pickup	3500	1981	105	0.010	21.3	16.9	19.8	18.1	3500		247	112	14.2	0.472	0.0319	31.9		
Pickup	3500	1982	120	0.012	22.3	17.7	21.0	19.0	3500		210	108	14.4	0.545	0.0310	33.4		
Pickup	3500	1983	231	0.022	23.4	18.2	22.5	19.9	3500		178	107	14.6	0.618	0.0305	35.1		
Pickup	3500	1984	356	0.025	22.7	17.8	21.7	19.4	3500		174	104	15.0	0.615	0.0297	34.2		
Pickup	3500	1985	342	0.024	23.3	18.3	22.3	19.9	3500		180	110	14.3	0.641	0.0313	35.0		
Pickup	3500	1986	432	0.028	23.2	18.1	22.0	19.7	3500		167	119	13.5	0.726	0.0341	34.7		
Pickup	3500	1987	478	0.032	22.9	17.6	21.9	19.4	3500		178	121	13.4	0.696	0.0347	34.1		
Pickup	3500	1988	491	0.032	22.8	17.5	21.8	19.3	3500		184	130	12.7	0.719	0.0370	33.9		
Pickup	3500	1989	439	0.030	22.6	17.3	21.5	19.0	3500		195	132	12.6	0.696	0.0376	33.5		
Pickup	3500	1990	317	0.025	23.1	17.5	21.9	19.4	3500		186	135	12.3	0.741	0.0386	34.0		
Pickup	3500	1991	413	0.033	23.9	17.9	22.8	20.0	3500		199	137	12.1	0.712	0.0393	35.2		
Pickup	3500	1992	413	0.034	24.7	18.3	23.4	20.5	3500		187	131	12.6	0.719	0.0374	36.2		
Pickup	3500	1993	444	0.034	24.5	18.2	23.2	20.4	3500		186	134	12.4	0.738	0.0384	35.9		
Pickup	3500	1994	736	0.052	25.3	18.6	23.7	20.9	3500		178	132	12.7	0.752	0.0377	36.8		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	3000	1997			82.0%	18.0%			100.0%			0.9%	99.1%				
Pickup	3000	1998			54.3%				100.0%					100.0%			
Pickup	3000	1999			52.2%				100.0%					100.0%			
Pickup	3000	2000			47.6%				100.0%					100.0%			
Pickup	3000	2001			47.6%				100.0%					100.0%			
Pickup	3000	2002			47.2%				100.0%					100.0%			
Pickup	3000	2003			45.1%				100.0%					100.0%			
Pickup	3000	2004			42.9%				100.0%					100.0%			
Pickup	3000	2005															
Pickup	3000	2006															
Pickup	3000	2007															
Pickup	3000	2008															
Pickup	3000	2009															
Pickup	3000	2010															
Pickup	3000	2011															
Pickup	3000	2012															
Pickup	3500	1975			5.9%												
Pickup	3500	1976			11.9%												
Pickup	3500	1977			9.3%												
Pickup	3500	1978			20.5%												
Pickup	3500	1979			35.1%												
Pickup	3500	1980			42.1%	49.3%											
Pickup	3500	1981		6.1%	62.3%	31.0%											
Pickup	3500	1982		31.5%	80.0%	16.2%											
Pickup	3500	1983		59.4%	66.6%	28.0%				0.1%	1.6%						
Pickup	3500	1984		62.0%	67.5%	25.4%					2.5%						
Pickup	3500	1985		60.9%	71.5%	25.0%			14.2%	3.5%	0.7%						
Pickup	3500	1986		67.4%	69.0%	30.2%			35.6%	30.1%	0.3%						
Pickup	3500	1987		56.2%	55.2%	44.0%			28.5%	30.0%	0.2%						
Pickup	3500	1988		55.6%	54.0%	45.2%			54.5%	40.6%							
Pickup	3500	1989		37.3%	51.7%	47.9%			53.8%	44.0%							
Pickup	3500	1990		30.7%	52.7%	47.3%			77.5%	22.5%							
Pickup	3500	1991		21.3%	52.4%	47.6%			59.0%	41.0%							
Pickup	3500	1992		18.4%	65.1%	34.9%			70.5%	29.5%							
Pickup	3500	1993		19.1%	64.4%	35.6%			76.2%	23.8%							
Pickup	3500	1994		9.0%	63.2%	36.8%			86.6%	13.4%		98.1%	1.7%	0.2%			

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	3500	1995	578	0.038	26.3	19.1	24.6	21.6	3500		167	131	12.6	0.804	0.0375	38.2		
Pickup	3500	1996	568	0.043	26.3	19.1	24.6	21.6	3500		158	129	12.8	0.828	0.0368	38.1		
Pickup	3500	1997	457	0.032	27.0	19.5	24.9	22.0	3500		154	123	13.1	0.815	0.0353	38.9		
Pickup	3500	1998	630	0.044	26.1	18.7	24.1	21.2	3500		157	131	12.6	0.840	0.0373	37.5		
Pickup	3500	1999	493	0.032	24.9	17.7	23.0	20.2	3500		162	133	12.4	0.827	0.0380	35.8		
Pickup	3500	2000	545	0.033	24.9	17.6	22.9	20.1	3500		163	135	12.3	0.842	0.0386	35.5		
Pickup	3500	2001	348	0.022	24.5	17.4	22.3	19.7	3500		161	138	12.1	0.867	0.0395	34.9		
Pickup	3500	2002	213	0.013	24.9	17.6	22.3	19.9	3500		168	146	11.5	0.884	0.0417	35.3		
Pickup	3500	2003	293	0.019	25.7	17.8	23.5	20.6	3500		154	135	12.4	0.889	0.0385	36.3		
Pickup	3500	2004	131	0.008	25.9	18.0	23.1	20.6	3500		158	149	11.4	0.944	0.0425	36.3		
Pickup	3500	2005	92	0.006	25.9	17.7	23.5	20.6	3500		167	159	10.8	0.960	0.0455	36.3		
Pickup	3500	2006	100	0.007	26.1	17.7	23.9	20.8	3500		164	161	10.7	0.984	0.0459	36.6		
Pickup	3500	2007	89	0.006	26.0	17.8	23.5	20.6	3500		161	159	10.8	0.995	0.0455	36.5		
Pickup	3500	2008	89	0.006	26.7	18.3	23.8	21.1	3500		159	157	10.9	0.991	0.0448	37.2		
Pickup	3500	2009	54	0.006	27.9	19.3	24.5	21.9	3500		154	155	11.0	1.011	0.0443	38.6		
Pickup	3500	2010	52	0.005	27.7	19.1	24.5	21.8	3500		150	152	11.2	1.016	0.0435	38.3		
Pickup	3500	2011	62	0.005	27.7	19.1	24.4	21.8	3500		149	151	11.3	1.015	0.0432	38.3		
Pickup	3500	2012	27	0.002	27.5	18.6	24.6	21.6	3500		176	179	9.8	1.015	0.0512	37.9		
Pickup	4000	1975	733	0.072	14.1	11.0	13.6	12.0	4000		330	143	13.2	0.433	0.0358	24.6		
Pickup	4000	1976	907	0.073	15.3	12.2	14.3	13.1	4000		327	135	13.8	0.412	0.0338	26.8		
Pickup	4000	1977	855	0.061	16.7	13.4	15.3	14.2	4000		322	144	13.2	0.445	0.0359	28.9		
Pickup	4000	1978	951	0.066	16.1	13.0	14.4	13.6	4000		318	144	13.1	0.453	0.0361	28.0		
Pickup	4000	1979	606	0.044	15.9	12.9	14.4	13.5	4000		306	142	13.2	0.465	0.0356	27.4		
Pickup	4000	1980	439	0.039	18.7	14.9	17.4	15.9	4000		283	127	14.3	0.451	0.0317	32.1		
Pickup	4000	1981	587	0.056	19.2	15.2	17.9	16.3	4000		286	128	14.2	0.451	0.0320	33.0		
Pickup	4000	1982	397	0.041	18.7	14.9	17.4	15.9	4000		292	130	14.2	0.446	0.0325	32.2		
Pickup	4000	1983	332	0.032	18.5	14.7	17.4	15.8	4000		291	130	14.2	0.446	0.0324	32.0		
Pickup	4000	1984	406	0.029	18.5	14.6	17.4	15.7	4000		287	127	14.5	0.442	0.0317	32.0		
Pickup	4000	1985	385	0.027	18.5	14.8	17.2	15.8	4000		292	140	13.5	0.479	0.0349	31.9		
Pickup	4000	1986	465	0.030	19.2	15.2	17.7	16.3	4000		276	134	13.8	0.505	0.0336	32.8		
Pickup	4000	1987	271	0.018	19.1	15.1	17.6	16.2	4000		273	141	13.3	0.530	0.0353	32.5		
Pickup	4000	1988	370	0.024	19.7	15.2	18.7	16.6	4000		282	154	12.3	0.555	0.0385	33.4		
Pickup	4000	1989	369	0.026	20.1	15.3	19.3	17.0	4000		269	159	12.1	0.607	0.0397	34.2		
Pickup	4000	1990	342	0.027	20.2	15.1	19.4	16.9	4000		271	162	11.9	0.612	0.0405	34.1		
Pickup	4000	1991	353	0.028	20.4	15.2	19.6	17.1	4000		262	159	12.1	0.623	0.0397	34.3		
Pickup	4000	1992	332	0.027	20.4	15.1	19.7	17.1	4000		250	154	12.4	0.628	0.0386	34.3		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	3500	1995		7.7%	69.5%	30.5%			83.1%	16.9%		93.1%		6.9%			
Pickup	3500	1996		7.5%	66.2%	33.8%			100.0%			85.2%	5.9%	8.9%			
Pickup	3500	1997		1.0%	67.9%	32.1%			100.0%			90.8%	8.7%	0.5%			
Pickup	3500	1998		8.5%	57.8%	42.2%			100.0%			81.1%		18.9%			
Pickup	3500	1999		7.5%	46.9%	53.1%			100.0%			83.9%		16.1%			
Pickup	3500	2000		5.4%	41.0%	59.0%			100.0%			80.3%		19.7%			
Pickup	3500	2001		2.8%	40.2%	57.1%			100.0%			65.6%		34.4%			
Pickup	3500	2002			34.7%	60.6%			100.0%			45.2%		54.8%			
Pickup	3500	2003		1.4%	36.1%	60.4%			100.0%			66.8%		33.2%			
Pickup	3500	2004			38.5%	53.7%			100.0%			22.6%		77.4%		12.7%	
Pickup	3500	2005			37.7%	62.3%			100.0%			22.1%		77.9%		51.5%	
Pickup	3500	2006		1.2%	35.8%	64.2%			100.0%			13.3%		86.7%		59.5%	
Pickup	3500	2007			32.3%	67.7%			100.0%			10.8%		89.2%		89.2%	
Pickup	3500	2008			25.7%	74.3%			100.0%			12.6%		87.4%		92.4%	
Pickup	3500	2009			23.9%	76.1%			100.0%			1.7%		98.3%		98.3%	
Pickup	3500	2010			16.5%	83.5%			100.0%					100.0%		31.9%	
Pickup	3500	2011			16.0%	84.0%			100.0%			1.6%		98.4%		22.3%	
Pickup	3500	2012			38.8%	61.2%			100.0%					100.0%		100.0%	
Pickup	4000	1975		0.7%	33.1%												
Pickup	4000	1976		1.0%	33.8%												
Pickup	4000	1977		1.2%	30.6%												
Pickup	4000	1978		1.1%	30.5%						0.7%						
Pickup	4000	1979		6.3%	33.8%	4.8%											
Pickup	4000	1980		5.6%	51.5%	17.4%											
Pickup	4000	1981		7.3%	44.3%	35.1%											
Pickup	4000	1982		9.4%	32.9%	28.4%											
Pickup	4000	1983		4.8%	27.0%	49.0%					0.2%						
Pickup	4000	1984		6.3%	34.2%	39.9%					0.0%						
Pickup	4000	1985		7.8%	26.7%	32.0%			13.8%	0.0%							
Pickup	4000	1986		13.5%	36.8%	33.5%			28.0%	11.0%							
Pickup	4000	1987	0.1%	17.6%	40.2%	35.5%			48.8%	17.6%							
Pickup	4000	1988	0.0%	18.0%	43.2%	40.1%			39.6%	60.4%							
Pickup	4000	1989		37.0%	39.8%	54.8%			28.4%	71.6%							
Pickup	4000	1990		27.6%	36.9%	57.8%			31.6%	68.4%							
Pickup	4000	1991		40.0%	42.4%	57.6%			36.0%	64.0%							
Pickup	4000	1992		32.0%	37.3%	62.7%			54.4%	45.6%							

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	4000	1993	313	0.024	20.5	15.2	19.5	17.1	4000		236	155	12.3	0.669	0.0388	34.3		
Pickup	4000	1994	536	0.038	20.9	15.4	19.8	17.3	4000		241	169	11.5	0.715	0.0423	34.9		
Pickup	4000	1995	292	0.019	20.9	15.4	19.5	17.3	4000		230	164	11.7	0.727	0.0411	34.7		
Pickup	4000	1996	286	0.022	21.6	15.7	20.3	17.8	4000		239	173	11.2	0.734	0.0432	35.7		
Pickup	4000	1997	425	0.029	21.5	15.5	20.2	17.6	4000		246	185	10.7	0.756	0.0461	35.3		
Pickup	4000	1998	437	0.030	21.3	15.3	19.9	17.4	4000		236	178	11.0	0.766	0.0446	34.9		
Pickup	4000	1999	420	0.028	20.7	14.9	19.1	16.9	4000		231	173	11.3	0.755	0.0431	33.8		
Pickup	4000	2000	481	0.029	20.8	14.9	19.1	16.9	4000		222	171	11.4	0.779	0.0429	33.9		
Pickup	4000	2001	437	0.028	20.7	14.8	18.8	16.7	4000		226	184	10.7	0.819	0.0460	33.6		
Pickup	4000	2002	386	0.024	20.9	15.0	18.6	16.8	4000		220	183	10.8	0.836	0.0457	33.7		
Pickup	4000	2003	396	0.025	21.4	15.2	19.2	17.2	4000		213	178	11.1	0.844	0.0445	34.5		
Pickup	4000	2004	380	0.024	21.8	15.2	19.6	17.4	4000		208	189	10.5	0.910	0.0473	35.0		
Pickup	4000	2005	293	0.018	23.1	15.9	20.9	18.4	4000		211	206	9.9	0.978	0.0516	37.1		
Pickup	4000	2006	282	0.019	23.4	16.1	21.1	18.7	4000		209	202	10.1	0.970	0.0505	37.5		
Pickup	4000	2007	209	0.014	22.8	15.7	20.6	18.2	4000		212	199	10.2	0.941	0.0498	36.6		
Pickup	4000	2008	186	0.013	23.2	16.0	20.8	18.5	4000		213	199	10.2	0.938	0.0498	37.1		
Pickup	4000	2009	97	0.010	24.2	16.7	21.6	19.2	4000		209	202	10.1	0.974	0.0506	38.7		
Pickup	4000	2010	97	0.009	23.9	16.6	21.3	19.0	4000		213	205	10.0	0.965	0.0512	38.3		
Pickup	4000	2011	128	0.011	23.5	16.3	20.8	18.6	4000		218	202	10.0	0.933	0.0505	37.7		
Pickup	4000	2012	116	0.009	25.0	17.2	22.1	19.7	4000		213	212	9.8	0.998	0.0530	39.6		
Pickup	4500	1975	180	0.018	11.8	9.6	10.6	10.0	4500		366	166	12.9	0.451	0.0369	22.6		
Pickup	4500	1976	375	0.030	12.6	10.3	11.3	10.7	4500		365	161	13.2	0.439	0.0358	24.3		
Pickup	4500	1977	539	0.038	13.7	11.2	12.2	11.6	4500		369	169	12.6	0.459	0.0377	26.3		
Pickup	4500	1978	578	0.040	13.6	11.2	12.1	11.5	4500		361	163	12.9	0.453	0.0363	26.3		
Pickup	4500	1979	631	0.045	14.2	11.8	12.7	12.2	4500		320	146	14.3	0.459	0.0323	27.9		
Pickup	4500	1980	247	0.022	15.7	12.6	14.3	13.3	4500		323	147	14.1	0.456	0.0326	30.3		
Pickup	4500	1981	210	0.020	16.8	13.4	15.5	14.3	4500		314	147	14.0	0.472	0.0327	32.6		
Pickup	4500	1982	193	0.020	17.1	13.7	15.7	14.5	4500		311	156	13.4	0.504	0.0347	33.2		
Pickup	4500	1983	247	0.024	17.0	13.5	15.8	14.5	4500		310	151	13.8	0.488	0.0335	33.0		
Pickup	4500	1984	385	0.027	16.8	13.4	15.6	14.3	4500		310	150	13.9	0.483	0.0333	32.6		
Pickup	4500	1985	428	0.030	16.8	13.4	15.5	14.3	4500		310	159	13.1	0.513	0.0354	32.4		
Pickup	4500	1986	439	0.029	17.4	13.8	16.1	14.8	4500		307	155	13.5	0.503	0.0344	33.5		
Pickup	4500	1987	353	0.024	17.2	13.5	16.0	14.6	4500		316	168	12.7	0.531	0.0374	33.0		
Pickup	4500	1988	596	0.039	17.8	13.7	16.9	15.0	4500		322	174	12.4	0.539	0.0387	33.9		
Pickup	4500	1989	641	0.044	17.8	13.6	16.9	15.0	4500		320	174	12.4	0.542	0.0388	33.9		
Pickup	4500	1990	507	0.040	18.0	13.6	17.2	15.1	4500		318	172	12.5	0.536	0.0381	34.3		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	4000	1993		42.3%	38.0%	62.0%			68.8%	31.2%							
Pickup	4000	1994		43.7%	38.4%	61.6%			66.0%	34.0%		91.6%	8.4%				
Pickup	4000	1995		53.8%	38.4%	61.6%			77.2%	22.8%		83.0%		17.0%			
Pickup	4000	1996		44.0%	31.7%	68.3%			100.0%			77.6%	5.1%	17.3%			
Pickup	4000	1997		26.0%	31.3%	68.7%			100.0%			89.1%	6.1%	4.8%			
Pickup	4000	1998		42.1%	35.5%	64.5%			100.0%			84.5%		15.5%			
Pickup	4000	1999		52.4%	26.1%	73.9%			100.0%			84.0%		16.0%			
Pickup	4000	2000		45.0%	21.0%	79.0%			100.0%			86.4%		13.6%			
Pickup	4000	2001		43.1%	16.7%	83.3%			100.0%			78.5%		21.5%			
Pickup	4000	2002		38.1%	19.7%	80.3%			100.0%			60.0%		40.0%			
Pickup	4000	2003		36.3%	15.4%	84.6%			100.0%			65.5%		34.5%			
Pickup	4000	2004		41.3%	16.3%	83.7%			100.0%			46.6%		53.4%		20.3%	
Pickup	4000	2005		35.2%	17.1%	82.9%			100.0%			22.1%		77.9%		72.5%	
Pickup	4000	2006		29.8%	17.1%	82.9%			100.0%			17.3%		82.7%		80.5%	
Pickup	4000	2007		27.6%	14.2%	85.8%			100.0%			34.1%		65.9%		53.6%	
Pickup	4000	2008		31.3%	13.9%	86.1%			100.0%			36.5%		63.5%		44.0%	
Pickup	4000	2009		25.5%	22.1%	77.9%			100.0%			18.7%		81.3%		52.7%	
Pickup	4000	2010		24.1%	16.2%	83.8%			100.0%			24.3%		75.7%		76.3%	
Pickup	4000	2011		35.7%	11.2%	88.8%			100.0%			40.2%		59.8%		60.2%	
Pickup	4000	2012		19.6%	15.7%	84.3%			100.0%			11.5%		88.5%		100.0%	
Pickup	4500	1975		55.4%	51.3%												
Pickup	4500	1976		64.5%	45.2%												
Pickup	4500	1977		58.2%	31.0%												
Pickup	4500	1978		68.5%	31.7%						3.5%						
Pickup	4500	1979		16.4%	25.6%						0.3%						
Pickup	4500	1980		30.9%	32.0%	44.4%					2.6%						
Pickup	4500	1981		25.2%	18.6%	60.3%					1.8%						
Pickup	4500	1982		20.0%	15.7%	64.1%					0.8%						
Pickup	4500	1983		34.0%	21.4%	55.4%					0.9%						
Pickup	4500	1984		34.6%	18.6%	58.4%					0.4%						
Pickup	4500	1985		33.6%	16.9%	64.9%			8.0%		0.0%						
Pickup	4500	1986		36.8%	19.9%	66.3%			22.3%		0.0%						
Pickup	4500	1987		35.5%	21.6%	45.7%			41.5%	45.8%	0.1%						
Pickup	4500	1988		38.3%	20.3%	61.7%			35.5%	63.9%	0.1%						
Pickup	4500	1989		37.7%	32.4%	58.1%			45.1%	54.7%	0.1%						
Pickup	4500	1990		34.2%	25.5%	66.5%			51.7%	48.2%	0.1%						

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	4500	1991	435	0.035	18.1	13.5	17.5	15.2	4500		315	176	12.3	0.555	0.0390	34.5		
Pickup	4500	1992	513	0.042	18.4	13.6	17.8	15.4	4500		310	171	12.6	0.550	0.0380	34.8		
Pickup	4500	1993	614	0.046	19.0	13.9	18.4	15.8	4500		306	177	12.2	0.579	0.0394	35.8		
Pickup	4500	1994	684	0.048	18.7	13.7	18.0	15.6	4500		311	186	11.7	0.600	0.0414	35.2		
Pickup	4500	1995	744	0.049	18.6	13.5	17.8	15.4	4500		308	182	11.9	0.593	0.0404	34.8		
Pickup	4500	1996	543	0.041	18.9	13.7	17.9	15.6	4500		305	201	11.1	0.660	0.0447	35.3		
Pickup	4500	1997	611	0.042	19.8	14.2	18.8	16.3	4500		283	212	10.4	0.753	0.0472	36.8		
Pickup	4500	1998	585	0.040	19.8	14.2	18.8	16.3	4500		289	217	10.3	0.752	0.0481	36.8		
Pickup	4500	1999	624	0.041	19.9	14.2	18.6	16.2	4500		287	224	10.1	0.780	0.0497	36.7		
Pickup	4500	2000	766	0.046	20.0	14.3	18.6	16.3	4500		281	224	10.1	0.798	0.0498	36.8		
Pickup	4500	2001	518	0.033	20.0	14.1	18.4	16.2	4500		264	210	10.6	0.796	0.0468	36.6		
Pickup	4500	2002	556	0.034	19.8	14.0	18.2	16.0	4500		262	213	10.5	0.811	0.0473	36.1		
Pickup	4500	2003	511	0.032	20.2	14.2	18.5	16.3	4500		261	212	10.5	0.814	0.0472	36.8		
Pickup	4500	2004	350	0.022	20.5	14.3	18.8	16.5	4500		257	215	10.4	0.841	0.0478	37.2		
Pickup	4500	2005	374	0.024	20.8	14.3	19.2	16.7	4500		247	227	10.0	0.924	0.0505	37.7		
Pickup	4500	2006	368	0.024	21.3	14.6	19.5	17.1	4500		240	233	9.8	0.980	0.0518	38.4		
Pickup	4500	2007	252	0.017	21.4	14.7	19.5	17.1	4500		237	233	9.8	0.993	0.0517	38.5		
Pickup	4500	2008	201	0.014	21.5	14.8	19.7	17.3	4500		234	230	9.8	0.990	0.0511	38.9		
Pickup	4500	2009	105	0.011	22.1	15.2	20.1	17.7	4500		238	239	9.5	1.008	0.0531	39.8		
Pickup	4500	2010	121	0.011	22.0	15.1	20.1	17.6	4500		239	242	9.4	1.016	0.0538	39.6		
Pickup	4500	2011	151	0.013	21.9	15.1	20.0	17.5	4500		240	240	9.5	1.003	0.0532	39.5		
Pickup	4500	2012	115	0.009	22.4	15.4	20.4	17.9	4500		250	240	9.5	0.964	0.0534	40.4		
Pickup	5000	1975	122	0.012	11.0	9.0	9.7	9.3	5000		371	165	14.1	0.443	0.0331	23.4		
Pickup	5000	1976	188	0.015	11.7	9.6	10.3	9.9	5000		367	159	14.5	0.430	0.0318	24.9		
Pickup	5000	1977	172	0.012	12.9	10.6	11.4	11.0	5000		378	167	14.0	0.440	0.0334	27.5		
Pickup	5000	1978	198	0.014	12.8	10.5	11.3	10.8	5000		370	171	13.5	0.462	0.0341	27.2		
Pickup	5000	1979	404	0.029	12.9	10.8	11.2	11.0	5000		372	158	15.1	0.419	0.0315	28.5		
Pickup	5000	1980	147	0.013	15.9	12.7	14.6	13.5	5000		351	153	14.9	0.436	0.0306	35.2		
Pickup	5000	1981	53	0.005	16.9	13.5	15.6	14.4	5000		333	141	15.8	0.425	0.0282	37.2		
Pickup	5000	1982	97	0.010	18.9	15.0	17.5	16.0	5000		336	140	15.9	0.420	0.0280	41.8		
Pickup	5000	1983	69	0.007	18.0	14.1	17.1	15.3	5000		334	150	15.0	0.458	0.0301	39.7		
Pickup	5000	1984	85	0.006	17.4	13.6	16.6	14.8	5000		322	155	14.6	0.487	0.0311	37.9		
Pickup	5000	1985	92	0.006	16.3	12.7	15.7	13.9	5000		322	162	14.1	0.505	0.0324	35.5		
Pickup	5000	1986	93	0.006	16.3	12.7	15.6	13.8	5000		321	162	14.1	0.507	0.0324	35.1		
Pickup	5000	1987	74	0.005	16.0	12.5	15.0	13.6	5000		332	183	12.9	0.550	0.0366	34.2		
Pickup	5000	1988	165	0.011	16.4	12.6	15.7	13.9	5000		342	193	12.3	0.565	0.0387	35.0		

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	4500	1991		28.6%	23.7%	75.3%			48.0%	51.9%	0.1%						
Pickup	4500	1992		21.1%	27.9%	72.0%			59.3%	40.6%	0.1%						
Pickup	4500	1993	0.0%	16.9%	19.5%	80.5%			55.4%	44.6%							
Pickup	4500	1994		14.5%	17.3%	82.7%			59.9%	40.1%		100.0%					
Pickup	4500	1995		18.4%	26.6%	73.4%			58.9%	41.1%		99.3%		0.7%			
Pickup	4500	1996		11.9%	19.0%	81.0%			100.0%			98.6%		1.4%			
Pickup	4500	1997		16.3%	12.5%	87.5%			100.0%			98.8%		1.2%			
Pickup	4500	1998		9.6%	11.4%	88.6%			100.0%			99.4%		0.6%			
Pickup	4500	1999		18.1%	9.4%	90.6%			100.0%			100.0%					
Pickup	4500	2000		17.7%	10.3%	89.7%			100.0%			92.7%		7.3%			
Pickup	4500	2001		16.0%	11.0%	89.0%			100.0%			90.9%		9.1%			
Pickup	4500	2002		27.1%	8.7%	91.3%			100.0%			84.6%		15.4%			
Pickup	4500	2003		27.6%	12.5%	87.5%			100.0%			87.8%		12.2%			
Pickup	4500	2004		31.9%	10.9%	89.1%			100.0%			90.9%		9.1%		6.0%	
Pickup	4500	2005		35.7%	7.6%	92.4%			100.0%			61.9%		38.1%		38.1%	
Pickup	4500	2006		48.2%	7.0%	93.0%			100.0%			38.9%		61.1%		61.1%	
Pickup	4500	2007		52.3%	7.3%	92.7%			100.0%			43.8%		56.2%		47.4%	
Pickup	4500	2008		57.6%	9.1%	90.9%			100.0%			40.6%		59.4%		50.9%	
Pickup	4500	2009		77.2%	5.8%	94.2%			100.0%			15.9%		84.1%		39.3%	
Pickup	4500	2010		76.0%	4.4%	95.6%			100.0%			14.5%		85.5%		86.8%	
Pickup	4500	2011		72.3%	4.3%	95.7%			100.0%			20.7%		79.3%		80.5%	
Pickup	4500	2012		72.5%	6.5%	93.5%			100.0%			24.0%		76.0%		85.6%	
Pickup	5000	1975		26.4%	27.9%												
Pickup	5000	1976		26.9%	28.8%												
Pickup	5000	1977		23.5%	24.6%												
Pickup	5000	1978		36.6%	32.8%						0.0%						
Pickup	5000	1979		8.3%	18.5%						13.0%						
Pickup	5000	1980		53.2%	21.5%	65.3%					28.8%						
Pickup	5000	1981		55.4%	31.1%	57.2%					32.9%						
Pickup	5000	1982		43.4%	26.2%	65.1%					56.0%						
Pickup	5000	1983		65.2%	23.9%	66.1%					26.4%						
Pickup	5000	1984		74.8%	26.8%	68.4%					14.7%						
Pickup	5000	1985		85.9%	28.0%	61.2%					6.8%						
Pickup	5000	1986		89.6%	22.2%	64.0%			4.2%		3.8%						
Pickup	5000	1987		95.4%	31.5%	47.0%			20.5%	58.7%	2.0%						
Pickup	5000	1988		74.8%	17.8%	61.4%			25.5%	71.2%	2.1%						

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	5000	1989	129	0.009	16.0	12.4	15.0	13.5	5000		323	187	12.7	0.588	0.0373	34.0		
Pickup	5000	1990	223	0.018	16.4	12.4	15.9	13.8	5000		337	198	12.1	0.591	0.0397	34.9		
Pickup	5000	1991	138	0.011	16.2	12.2	15.4	13.5	5000		333	198	12.1	0.598	0.0396	34.1		
Pickup	5000	1992	235	0.019	16.7	12.4	16.2	14.0	5000		330	189	12.7	0.571	0.0377	35.2		
Pickup	5000	1993	258	0.020	16.9	12.5	16.3	14.1	5000		333	199	12.0	0.599	0.0399	35.4		
Pickup	5000	1994	414	0.029	17.0	12.5	16.2	14.1	5000		336	202	11.9	0.601	0.0404	35.4		
Pickup	5000	1995	453	0.030	16.8	12.3	16.1	14.0	5000		337	202	11.9	0.601	0.0405	35.1		
Pickup	5000	1996	390	0.030	17.3	12.5	16.7	14.4	5000		334	225	10.9	0.675	0.0451	36.1		
Pickup	5000	1997	573	0.040	18.2	13.1	17.4	15.0	5000		319	229	10.7	0.722	0.0459	37.7		
Pickup	5000	1998	524	0.036	17.6	12.6	17.0	14.6	5000		327	236	10.4	0.724	0.0473	36.5		
Pickup	5000	1999	628	0.041	18.1	13.0	17.0	14.9	5000		322	245	10.2	0.763	0.0491	37.2		
Pickup	5000	2000	707	0.043	18.4	13.2	17.0	15.0	5000		317	252	9.9	0.797	0.0504	37.6		
Pickup	5000	2001	929	0.059	18.6	13.2	17.3	15.1	5000		314	255	9.8	0.813	0.0509	38.0		
Pickup	5000	2002	780	0.048	18.7	13.2	17.1	15.1	5000		305	261	9.7	0.854	0.0521	37.9		
Pickup	5000	2003	870	0.055	18.9	13.3	17.2	15.3	5000		305	259	9.7	0.852	0.0518	38.2		
Pickup	5000	2004	707	0.045	19.2	13.4	17.4	15.4	5000		311	269	9.5	0.862	0.0537	38.6		
Pickup	5000	2005	679	0.043	19.4	13.4	17.8	15.6	5000		304	272	9.4	0.892	0.0545	39.1		
Pickup	5000	2006	608	0.040	19.9	13.8	18.1	16.0	5000		297	265	9.6	0.891	0.0530	40.0		
Pickup	5000	2007	444	0.029	20.0	13.7	18.5	16.1	5000		282	245	10.3	0.866	0.0489	40.3		
Pickup	5000	2008	257	0.019	20.3	14.0	18.7	16.3	5000		270	233	10.7	0.862	0.0466	40.9		
Pickup	5000	2009	98	0.011	20.8	14.3	19.1	16.7	5000		275	244	10.3	0.885	0.0488	41.7		
Pickup	5000	2010	110	0.010	20.9	14.3	19.4	16.8	5000		271	247	10.2	0.912	0.0495	42.1		
Pickup	5000	2011	106	0.009	21.4	14.6	19.8	17.2	5000		271	271	9.7	1.002	0.0541	43.1		
Pickup	5000	2012	168	0.013	22.0	15.0	20.4	17.7	5000		263	271	9.6	1.045	0.0543	44.4		
Pickup	5500	1975	53	0.005	10.0	8.3	8.7	8.5	5500		374	171	14.9	0.452	0.0310	23.4		
Pickup	5500	1976	102	0.008	11.4	9.3	10.2	9.7	5500		383	171	14.9	0.443	0.0311	26.8		
Pickup	5500	1977	91	0.006	11.8	9.7	10.4	10.0	5500		396	183	14.1	0.458	0.0333	27.8		
Pickup	5500	1978	120	0.008	12.1	10.0	10.8	10.3	5500		377	172	14.6	0.457	0.0312	28.4		
Pickup	5500	1979	83	0.006	11.3	9.5	9.8	9.6	5500		401	192	13.8	0.473	0.0348	26.8		
Pickup	5500	1980	14	0.001	13.3	10.7	12.2	11.3	5500		353	165	14.9	0.467	0.0299	31.3		
Pickup	5500	1981	2	0.000	13.3	10.5	12.4	11.3	5500		351	143	16.5	0.407	0.0260	31.1		
Pickup	5500	1982	17	0.002	22.4	17.5	21.3	19.1	5500		350	130	18.1	0.371	0.0236	52.4		
Pickup	5500	1983	10	0.001	22.1	17.3	21.2	18.9	5500		379	130	18.1	0.343	0.0236	51.9		
Pickup	5500	1984	8	0.001	21.9	17.3	20.5	18.6	5500		379	130	18.1	0.343	0.0236	51.2		
Pickup	5500	1985	5	0.000	21.1	16.5	20.2	18.0	5500		379	130	18.1	0.343	0.0236	49.5		
Pickup	5500	1986	3	0.000	21.1	16.4	20.1	17.9	5500		379	130	18.1	0.343	0.0236	49.3		

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	5000	1989		78.9%	27.4%	56.9%			43.5%	55.1%	1.4%						
Pickup	5000	1990		65.5%	13.4%	82.7%			23.9%	75.3%	0.8%						
Pickup	5000	1991		86.9%	17.5%	78.2%			31.2%	67.9%	0.9%						
Pickup	5000	1992		78.2%	14.7%	85.1%			43.8%	55.8%	0.4%						
Pickup	5000	1993		86.6%	13.7%	86.3%			38.8%	61.2%							
Pickup	5000	1994		87.0%	10.0%	90.0%			45.0%	55.0%		100.0%					
Pickup	5000	1995		83.9%	11.0%	89.0%			52.3%	47.7%		100.0%					
Pickup	5000	1996		70.7%	7.8%	92.1%			99.8%		0.2%	100.0%					
Pickup	5000	1997		60.1%	5.7%	94.3%			100.0%		0.0%	100.0%					
Pickup	5000	1998		75.5%	5.1%	94.9%			100.0%		0.0%	100.0%					
Pickup	5000	1999		73.5%	2.6%	97.4%			100.0%			100.0%					
Pickup	5000	2000		78.9%	1.6%	98.4%			100.0%			91.1%		8.9%			
Pickup	5000	2001		46.9%	1.7%	98.3%			100.0%			95.9%		4.1%			
Pickup	5000	2002		51.3%	2.0%	98.0%			100.0%			94.5%		5.5%			
Pickup	5000	2003		49.6%	1.5%	98.5%			100.0%			95.3%		4.7%			
Pickup	5000	2004		46.5%	1.4%	98.6%			100.0%			90.9%	0.3%	8.8%		0.3%	0.0%
Pickup	5000	2005		33.5%	2.3%	97.7%			100.0%			85.0%	0.2%	14.8%		15.0%	0.1%
Pickup	5000	2006		28.9%	3.8%	96.2%			100.0%			79.8%	0.4%	19.8%		20.2%	0.1%
Pickup	5000	2007		17.1%	3.2%	96.8%			100.0%			89.7%	3.8%	6.5%		20.8%	0.1%
Pickup	5000	2008		16.1%	1.8%	98.2%			100.0%			91.7%	3.2%	5.0%		1.7%	
Pickup	5000	2009		18.3%	0.1%	99.9%			100.0%			89.3%	5.1%	5.6%		5.3%	
Pickup	5000	2010		26.1%	1.1%	98.9%			100.0%			82.5%	5.0%	12.5%		28.6%	
Pickup	5000	2011		27.2%		100.0%		0.2%	99.8%			63.8%		36.2%		62.9%	
Pickup	5000	2012		21.6%		100.0%		3.7%	96.3%			54.7%		45.3%		72.5%	
Pickup	5500	1975		84.9%	1.1%												
Pickup	5500	1976		87.1%	2.9%												
Pickup	5500	1977		76.0%	1.0%												
Pickup	5500	1978		91.0%	0.4%						0.0%						
Pickup	5500	1979		3.9%	40.8%						0.1%						
Pickup	5500	1980		84.0%	44.1%	40.9%											
Pickup	5500	1981		44.3%	62.0%												
Pickup	5500	1982		100.0%	16.7%	83.3%					100.0%						
Pickup	5500	1983		100.0%	10.0%	90.0%					100.0%						
Pickup	5500	1984		97.0%	13.1%	86.9%					100.0%						
Pickup	5500	1985		83.2%	11.9%	88.1%					100.0%						
Pickup	5500	1986		84.4%	14.5%	85.5%					100.0%						

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	5500	1987	1	0.000	21.1	16.3	20.1	17.9	5500		379	130	18.1	0.343	0.0236	49.1		
Pickup	5500	1988	1	0.000	16.9	13.4	15.2	14.2	5500		363	178	14.4	0.495	0.0324	40.7		
Pickup	5500	1989	1	0.000	19.2	14.8	17.9	16.1	5500		370	153	16.6	0.417	0.0278	45.4		
Pickup	5500	1990	1	0.000	18.6	14.3	17.2	15.6	5500		370	159	15.8	0.434	0.0289	44.1		
Pickup	5500	1991	3	0.000	17.5	13.2	16.7	14.7	5500		364	176	14.6	0.489	0.0321	41.7		
Pickup	5500	1992	9	0.001	16.3	12.2	15.6	13.7	5500		353	200	12.9	0.570	0.0364	38.1		
Pickup	5500	1993	9	0.001	17.0	12.6	16.3	14.2	5500		352	199	13.0	0.569	0.0363	39.4		
Pickup	5500	1994	21	0.001	16.9	12.5	15.9	14.1	5500		364	205	12.6	0.568	0.0373	39.0		
Pickup	5500	1995	29	0.002	15.9	11.6	15.2	13.2	5500		358	215	12.2	0.605	0.0392	36.5		
Pickup	5500	1996	65	0.005	15.3	11.0	15.0	12.8	5500		345	225	11.7	0.655	0.0410	35.3		
Pickup	5500	1997	275	0.019	17.0	12.1	16.6	14.1	5500		347	240	11.1	0.693	0.0437	38.9		
Pickup	5500	1998	112	0.008	16.4	11.7	16.0	13.6	5500		330	226	11.7	0.684	0.0410	37.5		
Pickup	5500	1999	130	0.009	16.3	11.5	15.9	13.5	5500		344	242	11.0	0.705	0.0441	37.1		
Pickup	5500	2000	71	0.004	16.3	11.3	15.9	13.4	5500		347	245	11.0	0.706	0.0445	37.0		
Pickup	5500	2001	258	0.017	16.3	11.5	15.5	13.4	5500		340	251	10.7	0.740	0.0456	36.9		
Pickup	5500	2002	279	0.017	17.0	11.9	16.0	13.9	5500		322	255	10.6	0.795	0.0464	38.4		
Pickup	5500	2003	270	0.017	17.2	12.1	15.9	13.9	5500		319	264	10.4	0.827	0.0479	38.4		
Pickup	5500	2004	538	0.034	17.9	12.5	16.5	14.5	5500		316	287	9.8	0.901	0.0521	40.0		
Pickup	5500	2005	549	0.035	18.3	12.6	16.8	14.7	5500		319	292	9.6	0.913	0.0531	40.6		
Pickup	5500	2006	570	0.038	18.7	13.0	17.3	15.1	5500		313	283	9.8	0.902	0.0515	41.6		
Pickup	5500	2007	688	0.045	19.5	13.5	18.0	15.7	5500		317	297	9.4	0.934	0.0541	43.3		
Pickup	5500	2008	707	0.051	20.1	13.7	18.6	16.2	5500		319	311	9.1	0.974	0.0566	44.9		
Pickup	5500	2009	461	0.050	20.4	13.9	19.2	16.5	5500		317	309	9.1	0.974	0.0561	45.4		
Pickup	5500	2010	532	0.048	20.8	14.1	19.7	16.8	5500		315	313	9.0	0.994	0.0569	46.4		
Pickup	5500	2011	697	0.058	21.1	14.3	20.1	17.1	5500		311	328	8.7	1.064	0.0596	47.2		
Pickup	5500	2012	600	0.045	21.0	14.2	19.9	17.0	5500		315	337	8.5	1.080	0.0612	46.9		
Pickup	6000	1975																
Pickup	6000	1976																
Pickup	6000	1977																
Pickup	6000	1978	0	0.000	12.6	10.4	11.1	10.7	6000		325	154	16.8	0.474	0.0256	32.3		
Pickup	6000	1979	7	0.001	10.9	9.0	9.7	9.3	6000		390	153	17.9	0.386	0.0255	27.9		
Pickup	6000	1980	0	0.000	9.9	8.1	8.8	8.4	6000		350	155	16.9	0.443	0.0258	25.2		
Pickup	6000	1981																
Pickup	6000	1982																
Pickup	6000	1983																
Pickup	6000	1984																

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	5500	1987		80.0%	7.7%	92.3%					100.0%						
Pickup	5500	1988		97.8%	62.7%	37.3%				54.9%	45.1%						
Pickup	5500	1989		100.0%	36.0%	64.0%				31.7%	68.3%						
Pickup	5500	1990		94.8%	41.0%	59.0%				32.0%	68.0%						
Pickup	5500	1991		97.5%	8.7%	91.3%				52.2%	47.8%						
Pickup	5500	1992		99.6%	30.4%	69.2%			0.7%	86.5%	12.8%						
Pickup	5500	1993		99.9%	13.3%	86.7%			16.0%	84.0%							
Pickup	5500	1994		95.5%	14.9%	85.1%			47.8%	52.2%		100.0%					
Pickup	5500	1995		96.8%	9.4%	90.6%			79.9%	20.1%		100.0%					
Pickup	5500	1996		99.1%	3.9%	95.3%			96.2%		3.8%	100.0%					
Pickup	5500	1997		99.8%	0.7%	99.3%			99.8%		0.2%	100.0%					
Pickup	5500	1998		94.7%	3.9%	96.1%			99.7%		0.3%	100.0%					
Pickup	5500	1999		93.1%	3.5%	96.5%			100.0%			100.0%					
Pickup	5500	2000		86.5%	2.3%	97.7%			100.0%			100.0%					
Pickup	5500	2001		97.9%	1.8%	98.2%			100.0%			100.0%					
Pickup	5500	2002		73.7%	1.1%	98.9%			100.0%			100.0%					
Pickup	5500	2003		65.7%	0.9%	99.1%			100.0%			100.0%					
Pickup	5500	2004		43.4%	0.8%	99.2%			100.0%			72.5%	21.5%	6.0%		21.5%	0.0%
Pickup	5500	2005		60.5%	0.5%	99.5%			100.0%			67.0%	19.5%	13.6%		33.0%	0.1%
Pickup	5500	2006		56.6%	0.3%	99.7%			100.0%			66.6%	18.8%	14.6%		33.4%	0.3%
Pickup	5500	2007		48.5%	0.2%	99.8%			100.0%			76.3%	10.8%	13.0%		23.7%	0.0%
Pickup	5500	2008		46.9%	0.2%	99.8%			100.0%			81.5%	7.0%	11.5%		18.6%	
Pickup	5500	2009		46.1%		100.0%			100.0%			84.5%	12.3%	3.2%		17.4%	
Pickup	5500	2010		44.3%		100.0%			100.0%			67.4%	23.7%	8.9%		77.5%	
Pickup	5500	2011		55.4%		100.0%		3.9%	96.1%			78.4%		21.6%		94.6%	
Pickup	5500	2012		45.6%		100.0%		4.1%	95.9%			71.2%		28.8%		92.5%	
Pickup	6000	1975															
Pickup	6000	1976															
Pickup	6000	1977															
Pickup	6000	1978		3.7%	77.6%												
Pickup	6000	1979		62.2%													
Pickup	6000	1980				100.0%											
Pickup	6000	1981															
Pickup	6000	1982															
Pickup	6000	1983															
Pickup	6000	1984															

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	6000	1985	0	0.000	19.6	16.0	17.5	16.6	6000		379	130	18.8	0.343	0.0217	49.8		
Pickup	6000	1986																
Pickup	6000	1987																
Pickup	6000	1988	0	0.000	19.6	16.1	16.7	16.4	6000		379	140	17.8	0.369	0.0233	49.2		
Pickup	6000	1989	0	0.000	21.2	17.3	18.0	17.6	6000		379	126	19.3	0.332	0.0210	52.8		
Pickup	6000	1990	0	0.000	20.5	16.4	17.8	17.0	6000		379	135	18.3	0.356	0.0225	51.1		
Pickup	6000	1991	0	0.000	19.5	15.6	16.7	16.1	6000		379	140	17.8	0.369	0.0233	48.4		
Pickup	6000	1992																
Pickup	6000	1993																
Pickup	6000	1994	3	0.000	18.1	13.6	16.7	15.0	6000		395	180	15.0	0.455	0.0299	45.1		
Pickup	6000	1995	3	0.000	18.1	13.4	16.9	15.0	6000		395	180	15.0	0.455	0.0300	45.0		
Pickup	6000	1996	0	0.000	18.7	13.7	17.4	15.4	6000		395	180	15.0	0.456	0.0300	46.2		
Pickup	6000	1997	1	0.000	18.7	13.7	17.3	15.4	6000		395	180	15.0	0.456	0.0300	46.1		
Pickup	6000	1998	46	0.003	15.6	10.9	15.6	13.0	6000		359	234	12.2	0.651	0.0389	38.9		
Pickup	6000	1999	200	0.013	16.8	12.0	16.1	13.9	6000		350	254	11.4	0.727	0.0424	41.6		
Pickup	6000	2000	2	0.000	15.8	10.8	16.0	13.1	6000		352	242	11.8	0.688	0.0404	39.3		
Pickup	6000	2001	6	0.000	15.8	10.9	15.8	13.1	6000		343	239	11.9	0.698	0.0398	39.3		
Pickup	6000	2002	146	0.009	17.5	12.3	16.3	14.3	6000		329	283	10.5	0.861	0.0472	42.9		
Pickup	6000	2003	112	0.007	17.6	12.3	16.5	14.3	6000		329	295	10.1	0.895	0.0491	43.2		
Pickup	6000	2004	376	0.024	18.1	12.6	16.6	14.6	6000		324	290	10.3	0.894	0.0484	43.8		
Pickup	6000	2005	311	0.020	18.0	12.5	16.4	14.5	6000		325	294	10.2	0.901	0.0490	43.5		
Pickup	6000	2006	260	0.017	17.6	12.3	16.1	14.2	6000		329	298	10.0	0.906	0.0497	42.7		
Pickup	6000	2007	430	0.028	18.5	12.8	17.2	15.0	6000		333	325	9.4	0.974	0.0541	45.0		
Pickup	6000	2008	355	0.026	18.7	12.8	17.4	15.1	6000		334	334	9.2	0.999	0.0557	45.3		
Pickup	6000	2009	174	0.019	19.2	13.2	17.8	15.5	6000		328	320	9.5	0.973	0.0533	46.6		
Pickup	6000	2010	364	0.033	19.5	13.4	18.0	15.7	6000		326	324	9.4	0.991	0.0539	47.1		
Pickup	6000	2011	317	0.026	20.3	13.9	18.8	16.3	6000		290	358	8.6	1.278	0.0597	49.2		
Pickup	6000	2012	297	0.022	20.6	14.1	19.1	16.6	6000		285	360	8.6	1.311	0.0600	50.0		
Pickup	6500	1975																
Pickup	6500	1976																
Pickup	6500	1977																
Pickup	6500	1978	0	0.000	11.8	9.7	10.4	10.0	6500		322	153	18.3	0.475	0.0235	32.6		
Pickup	6500	1979																
Pickup	6500	1980	1	0.000	12.0	9.5	11.3	10.3	6500		368	150	18.5	0.408	0.0231	33.3		
Pickup	6500	1981																
Pickup	6500	1982																

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	6000	1985		100.0%	100.0%						100.0%						
Pickup	6000	1986															
Pickup	6000	1987															
Pickup	6000	1988		100.0%	100.0%						100.0%						
Pickup	6000	1989		100.0%	100.0%						100.0%						
Pickup	6000	1990		100.0%	100.0%						100.0%						
Pickup	6000	1991		100.0%	100.0%						100.0%						
Pickup	6000	1992															
Pickup	6000	1993															
Pickup	6000	1994		100.0%	1.0%	99.0%			100.0%			100.0%					
Pickup	6000	1995		100.0%	0.5%	99.5%			100.0%			100.0%					
Pickup	6000	1996		100.0%		100.0%					100.0%	100.0%					
Pickup	6000	1997		100.0%		100.0%					100.0%	100.0%					
Pickup	6000	1998		100.0%	0.5%	99.5%			98.4%		1.6%	100.0%					
Pickup	6000	1999		100.0%	0.1%	99.9%			100.0%		0.0%	100.0%					
Pickup	6000	2000		100.0%	3.0%	97.0%			100.0%			100.0%					
Pickup	6000	2001		100.0%	17.0%	83.0%			100.0%			100.0%					
Pickup	6000	2002		71.4%	0.1%	99.9%			100.0%			97.7%		2.3%			
Pickup	6000	2003		69.3%	0.0%	100.0%			100.0%			100.0%					
Pickup	6000	2004		87.8%	0.0%	100.0%			100.0%			36.1%	63.9%			63.9%	
Pickup	6000	2005		88.6%	0.0%	100.0%			100.0%			32.0%	68.0%			68.0%	
Pickup	6000	2006		93.0%	0.0%	100.0%			100.0%			17.0%	83.0%			83.0%	
Pickup	6000	2007		83.6%		100.0%			100.0%			35.5%	40.3%	24.2%		64.5%	
Pickup	6000	2008		86.2%		100.0%			100.0%			23.0%	39.3%	37.7%		78.0%	
Pickup	6000	2009		94.5%		98.8%	1.2%		100.0%			32.5%	57.7%	9.8%		76.8%	1.2%
Pickup	6000	2010		95.6%		99.6%	0.4%		100.0%			5.9%	68.3%	25.8%		42.6%	0.4%
Pickup	6000	2011		95.7%		99.6%	0.4%	26.9%	73.1%			7.2%		92.8%		100.0%	0.4%
Pickup	6000	2012		96.0%		99.0%	1.0%	33.1%	66.9%			8.1%		91.9%		100.0%	1.0%
Pickup	6500	1975															
Pickup	6500	1976															
Pickup	6500	1977															
Pickup	6500	1978															
Pickup	6500	1979															
Pickup	6500	1980															
Pickup	6500	1981															
Pickup	6500	1982															

2012 FE Trends Report

Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	6500	1983																
Pickup	6500	1984																
Pickup	6500	1985																
Pickup	6500	1986																
Pickup	6500	1987																
Pickup	6500	1988																
Pickup	6500	1989																
Pickup	6500	1990																
Pickup	6500	1991																
Pickup	6500	1992																
Pickup	6500	1993																
Pickup	6500	1994																
Pickup	6500	1995																
Pickup	6500	1996																
Pickup	6500	1997																
Pickup	6500	1998																
Pickup	6500	1999																
Pickup	6500	2000																
Pickup	6500	2001																
Pickup	6500	2002																
Pickup	6500	2003																
Pickup	6500	2004																
Pickup	6500	2005	3	0.000	16.3	11.4	14.9	13.2	6500		330	300	10.6	0.909	0.0462	42.8		
Pickup	6500	2006	0	0.000	15.2	10.6	14.2	12.4	6500		330	445	7.7	1.348	0.0685	40.2		
Pickup	6500	2007	0	0.000	15.1	10.6	13.9	12.2	6500		330	445	7.7	1.348	0.0685	39.8		
Pickup	6500	2008	0	0.000	16.0	11.0	15.0	13.0	6500		330	445	7.7	1.348	0.0685	42.2		
Pickup	6500	2009																
Pickup	6500	2010																
Pickup	6500	2011	18	0.001	16.2	11.3	14.7	13.1	6500		378	415	8.2	1.098	0.0638	42.5		
Pickup	6500	2012	13	0.001	16.8	11.5	15.8	13.6	6500		378	411	8.2	1.087	0.0632	44.2		

2012 FE Trends Report
Appendix G: Fuel Economy Data Stratified by Vehicle Type and Weight Class

Vehicle Type*	Weight Class	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	6500	1983															
Pickup	6500	1984															
Pickup	6500	1985															
Pickup	6500	1986															
Pickup	6500	1987															
Pickup	6500	1988															
Pickup	6500	1989															
Pickup	6500	1990															
Pickup	6500	1991															
Pickup	6500	1992															
Pickup	6500	1993															
Pickup	6500	1994															
Pickup	6500	1995															
Pickup	6500	1996															
Pickup	6500	1997															
Pickup	6500	1998															
Pickup	6500	1999															
Pickup	6500	2000															
Pickup	6500	2001															
Pickup	6500	2002															
Pickup	6500	2003															
Pickup	6500	2004															
Pickup	6500	2005		100.0%		100.0%			100.0%				100.0%			100.0%	
Pickup	6500	2006		100.0%		100.0%			100.0%			100.0%				100.0%	
Pickup	6500	2007		100.0%		100.0%			100.0%				100.0%			100.0%	
Pickup	6500	2008		100.0%		100.0%			100.0%				100.0%			93.2%	
Pickup	6500	2009															
Pickup	6500	2010															
Pickup	6500	2011		100.0%		100.0%			100.0%			100.0%				100.0%	
Pickup	6500	2012		100.0%		100.0%			100.0%			100.0%				100.0%	

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix H Fuel Economy Data Stratified by Vehicle Type and Drive Type

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP					
Car	Front Wheel Drive	1975	539	0.065	23.4	18.1	22.9	20.0	2790		147.0	88	14.8	0.704	0.0303	27.6	
Car	Front Wheel Drive	1976	561	0.058	24.0	18.9	22.9	20.5	2844		163.1	95	14.3	0.680	0.0319	28.8	
Car	Front Wheel Drive	1977	774	0.068	26.2	20.3	25.5	22.3	2707	93.8	142.3	88	14.4	0.692	0.0315	30.6	2264
Car	Front Wheel Drive	1978	1075	0.096	26.8	20.9	25.7	22.8	2590	94.4	129.4	82	14.5	0.693	0.0310	30.1	2308
Car	Front Wheel Drive	1979	1283	0.119	26.4	20.7	25.1	22.5	2634	94.6	137.4	84	14.5	0.674	0.0312	29.8	2211
Car	Front Wheel Drive	1980	2804	0.297	26.9	20.8	26.3	23.0	2645	100.4	137.6	86	14.4	0.652	0.0320	30.7	2363
Car	Front Wheel Drive	1981	3236	0.370	28.6	22.2	27.7	24.4	2646	103.0	133.4	85	14.2	0.672	0.0321	32.6	2566
Car	Front Wheel Drive	1982	3568	0.456	30.2	23.2	29.7	25.7	2665	101.7	126.7	83	14.6	0.677	0.0310	34.5	2658
Car	Front Wheel Drive	1983	3784	0.471	30.3	23.5	29.5	25.9	2682	104.2	129.5	86	14.4	0.681	0.0317	35.0	2751
Car	Front Wheel Drive	1984	5737	0.535	29.7	23.0	29.0	25.3	2752	105.4	133.0	90	14.1	0.694	0.0325	35.2	2725
Car	Front Wheel Drive	1985	6648	0.611	29.4	22.6	28.9	25.1	2825	106.5	142.3	98	13.5	0.712	0.0344	35.7	2722
Car	Front Wheel Drive	1986	7831	0.707	29.9	22.8	29.4	25.4	2844	107.0	139.9	100	13.5	0.730	0.0347	36.4	2758
Car	Front Wheel Drive	1987	8267	0.764	29.7	22.6	29.1	25.2	2869	106.2	139.7	103	13.3	0.752	0.0354	36.3	2703
Car	Front Wheel Drive	1988	8768	0.809	30.0	22.5	29.3	25.3	2911	106.2	141.8	107	13.0	0.775	0.0364	36.9	2719
Car	Front Wheel Drive	1989	8267	0.816	29.3	21.8	28.8	24.6	2980	107.0	146.9	115	12.6	0.803	0.0381	36.8	2666
Car	Front Wheel Drive	1990	7455	0.840	28.6	21.1	28.3	24.0	3082	106.7	151.3	123	12.1	0.844	0.0397	37.1	2591
Car	Front Wheel Drive	1991	7096	0.811	28.9	21.2	28.4	24.2	3046	106.3	148.8	124	12.1	0.859	0.0402	36.9	2604
Car	Front Wheel Drive	1992	6551	0.784	28.4	20.5	28.2	23.7	3120	107.2	157.1	131	11.7	0.868	0.0416	37.2	2580
Car	Front Wheel Drive	1993	7195	0.806	29.0	20.8	28.5	24.1	3109	107.6	154.5	130	11.8	0.871	0.0414	37.5	2626
Car	Front Wheel Drive	1994	7113	0.813	28.9	20.6	28.4	24.0	3144	107.6	152.7	133	11.7	0.895	0.0417	37.8	2613
Car	Front Wheel Drive	1995	7702	0.801	29.2	20.6	28.9	24.2	3155	108.6	154.3	144	11.0	0.956	0.0450	38.2	2656
Car	Front Wheel Drive	1996	6847	0.837	29.0	20.3	28.5	23.9	3199	108.6	153.1	147	11.0	0.974	0.0454	38.2	2620
Car	Front Wheel Drive	1997	7287	0.838	29.1	20.3	28.5	23.9	3195	108.2	152.7	148	10.9	0.985	0.0458	38.2	2609
Car	Front Wheel Drive	1998	6984	0.829	29.2	20.2	28.5	23.9	3243	108.9	154.3	151	10.8	0.998	0.0462	38.8	2621
Car	Front Wheel Drive	1999	7378	0.832	28.7	19.8	28.0	23.4	3309	109.3	156.8	156	10.7	1.012	0.0467	38.8	2580
Car	Front Wheel Drive	2000	7828	0.804	28.8	19.7	27.8	23.4	3316	110.4	155.8	159	10.6	1.031	0.0473	38.8	2596
Car	Front Wheel Drive	2001	7345	0.803	29.1	19.8	27.9	23.5	3324	110.6	155.9	159	10.6	1.036	0.0475	39.2	2628
Car	Front Wheel Drive	2002	7384	0.829	29.3	19.9	27.7	23.6	3332	111.9	157.2	164	10.4	1.058	0.0487	39.4	2660
Car	Front Wheel Drive	2003	6873	0.809	29.9	20.1	28.2	23.9	3334	111.7	154.7	164	10.3	1.077	0.0488	40.1	2699
Car	Front Wheel Drive	2004	6558	0.802	29.8	19.9	28.1	23.8	3385	112.5	158.9	171	10.1	1.093	0.0500	40.6	2714
Car	Front Wheel Drive	2005	7004	0.792	30.6	20.4	28.4	24.3	3371	113.4	154.7	167	10.2	1.093	0.0491	41.3	2796
Car	Front Wheel Drive	2006	6640	0.759	30.5	20.3	28.4	24.2	3431	113.7	157.4	175	10.0	1.125	0.0503	41.9	2794
Car	Front Wheel Drive	2007	7291	0.810	31.3	20.8	28.9	24.8	3449	113.6	154.4	175	10.0	1.142	0.0500	43.2	2869
Car	Front Wheel Drive	2008	6493	0.788	31.7	21.1	29.3	25.1	3457	113.4	153.3	176	9.9	1.156	0.0502	43.8	2900
Car	Front Wheel Drive	2009	5216	0.835	33.1	22.0	30.2	26.0	3411	113.1	145.7	171	10.1	1.174	0.0494	44.8	2986
Car	Front Wheel Drive	2010	5749	0.825	34.4	22.9	31.2	27.0	3428	114.0	144.5	172	9.9	1.188	0.0496	47.3	3160
Car	Front Wheel Drive	2011	5553	0.801	34.0	22.5	31.4	26.8	3510	116.5	147.7	180	9.8	1.225	0.0507	47.7	3178

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Cu-Ft-Ton-MPG	Transmission			Fuel Metering				Number of Valves				VVT
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five	
Car	Front Wheel Drive	1975		64.3%	2.4%			17.6%							
Car	Front Wheel Drive	1976		59.7%				18.9%							
Car	Front Wheel Drive	1977	2876	68.2%				31.3%		2.8%					
Car	Front Wheel Drive	1978	2838	66.2%	4.2%			31.0%		3.6%					
Car	Front Wheel Drive	1979	2835	57.2%	6.4%			19.6%		5.6%					
Car	Front Wheel Drive	1980	3087	45.5%	2.1%			9.5%	1.6%	6.8%					
Car	Front Wheel Drive	1981	3349	45.2%				5.4%	1.8%	5.4%					
Car	Front Wheel Drive	1982	3512	40.0%	32.2%			5.0%	13.9%	2.7%					
Car	Front Wheel Drive	1983	3641	36.4%	38.9%			5.8%	25.1%	1.3%					
Car	Front Wheel Drive	1984	3709	30.3%	42.4%			8.6%	27.9%	1.6%					
Car	Front Wheel Drive	1985	3800	26.3%	48.6%			21.0%	33.5%	0.7%					
Car	Front Wheel Drive	1986	3894	27.1%	52.4%			33.1%	34.2%	0.3%	94.3%	4.5%	1.3%		
Car	Front Wheel Drive	1987	3855	26.1%	56.5%			38.0%	36.7%	0.0%	82.1%	11.7%	6.1%		
Car	Front Wheel Drive	1988	3928	25.5%	64.6%			48.5%	35.1%		76.9%	11.1%	12.0%		
Car	Front Wheel Drive	1989	3942	21.7%	68.6%	0.2%		58.0%	31.4%	0.0%	73.1%	12.9%	14.0%		
Car	Front Wheel Drive	1990	3967	19.7%	73.1%	0.0%		75.2%	23.6%	0.0%	65.6%	5.4%	29.0%		
Car	Front Wheel Drive	1991	3932	21.0%	73.7%			77.5%	22.3%	0.1%	64.6%	7.3%	28.1%		1.9%
Car	Front Wheel Drive	1992	3987	18.5%	75.4%	0.0%		90.3%	9.7%	0.0%	65.5%	5.5%	29.0%		3.4%
Car	Front Wheel Drive	1993	4045	18.7%	76.3%			91.9%	8.1%		62.1%	3.5%	34.5%		3.8%
Car	Front Wheel Drive	1994	4068	17.4%	78.8%			93.9%	6.1%		56.2%	2.2%	41.6%		7.7%
Car	Front Wheel Drive	1995	4152	16.8%	82.4%			98.6%	1.4%		46.3%	1.3%	52.4%		9.9%
Car	Front Wheel Drive	1996	4159	14.6%	84.4%	0.0%		98.7%	1.3%	0.1%	38.8%	1.1%	60.1%		11.6%
Car	Front Wheel Drive	1997	4144	13.3%	85.9%	0.1%		99.0%	0.9%	0.0%	38.9%	1.0%	60.1%	0.0%	9.6%
Car	Front Wheel Drive	1998	4226	11.5%	88.0%	0.1%		99.7%	0.2%	0.2%	37.0%	0.9%	61.5%	0.5%	17.2%
Car	Front Wheel Drive	1999	4251	9.9%	89.4%	0.0%		99.8%	0.1%	0.1%	33.4%	1.1%	64.3%	1.2%	16.0%
Car	Front Wheel Drive	2000	4287	9.7%	89.4%	0.0%		99.7%		0.3%	33.2%	0.9%	64.5%	1.4%	22.7%
Car	Front Wheel Drive	2001	4342	9.8%	89.0%	0.3%		99.7%		0.3%	32.1%	0.4%	65.5%	2.0%	26.6%
Car	Front Wheel Drive	2002	4415	9.4%	89.9%	0.5%		99.6%		0.4%	29.9%	0.3%	67.6%	2.2%	33.6%
Car	Front Wheel Drive	2003	4480	10.0%	88.2%	1.8%		99.6%		0.4%	25.3%		72.0%	2.6%	41.2%
Car	Front Wheel Drive	2004	4570	8.3%	89.3%	2.2%		99.7%		0.3%	21.2%		77.1%	1.7%	43.9%
Car	Front Wheel Drive	2005	4688	7.9%	89.0%	3.0%		99.6%		0.4%	21.2%		78.0%	0.7%	51.8%
Car	Front Wheel Drive	2006	4768	7.9%	89.0%	3.1%		99.3%		0.7%	18.1%		81.8%	0.1%	59.7%
Car	Front Wheel Drive	2007	4912	6.5%	81.9%	11.6%	0.3%	99.7%			14.4%		85.6%		65.5%
Car	Front Wheel Drive	2008	4972	6.2%	80.1%	13.7%	2.1%	97.9%			11.2%		88.8%		65.3%
Car	Front Wheel Drive	2009	5063	5.6%	81.1%	13.3%	1.7%	97.5%		0.7%	6.5%		93.5%		82.0%
Car	Front Wheel Drive	2010	5401	3.9%	78.2%	16.2%	5.5%	93.5%		1.0%	4.0%		96.0%		95.2%
Car	Front Wheel Drive	2011	5564	3.5%	82.7%	13.6%	13.9%	85.1%		1.0%	4.3%		95.7%		96.3%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Hybrid	Vehicle Size		
				Small	Midsize	Large
Car	Front Wheel Drive	1975		87.4%	8.3%	4.3%
Car	Front Wheel Drive	1976		86.9%	8.8%	4.4%
Car	Front Wheel Drive	1977		89.5%	6.1%	4.4%
Car	Front Wheel Drive	1978		93.6%	4.2%	2.2%
Car	Front Wheel Drive	1979		87.0%	13.0%	
Car	Front Wheel Drive	1980		67.8%	32.2%	
Car	Front Wheel Drive	1981		68.1%	31.9%	
Car	Front Wheel Drive	1982		71.0%	29.0%	
Car	Front Wheel Drive	1983		68.3%	31.7%	
Car	Front Wheel Drive	1984		69.0%	31.0%	
Car	Front Wheel Drive	1985		63.3%	29.4%	7.2%
Car	Front Wheel Drive	1986		62.5%	28.5%	9.1%
Car	Front Wheel Drive	1987		66.3%	24.7%	9.0%
Car	Front Wheel Drive	1988		67.5%	23.8%	8.7%
Car	Front Wheel Drive	1989		61.0%	29.3%	9.7%
Car	Front Wheel Drive	1990		61.1%	28.8%	10.1%
Car	Front Wheel Drive	1991		64.1%	27.3%	8.5%
Car	Front Wheel Drive	1992		61.6%	27.3%	11.1%
Car	Front Wheel Drive	1993		60.4%	29.7%	9.9%
Car	Front Wheel Drive	1994		61.2%	26.4%	12.4%
Car	Front Wheel Drive	1995		60.4%	27.5%	12.1%
Car	Front Wheel Drive	1996		56.3%	33.2%	10.6%
Car	Front Wheel Drive	1997		57.3%	30.8%	11.9%
Car	Front Wheel Drive	1998		48.9%	41.4%	9.7%
Car	Front Wheel Drive	1999		47.3%	42.3%	10.4%
Car	Front Wheel Drive	2000	0.1%	46.3%	36.5%	17.2%
Car	Front Wheel Drive	2001	0.0%	48.7%	36.0%	15.3%
Car	Front Wheel Drive	2002	0.3%	44.6%	40.2%	15.2%
Car	Front Wheel Drive	2003	0.7%	46.8%	38.7%	14.5%
Car	Front Wheel Drive	2004	1.1%	42.6%	42.1%	15.3%
Car	Front Wheel Drive	2005	2.5%	40.6%	44.2%	15.2%
Car	Front Wheel Drive	2006	2.0%	42.4%	39.3%	18.3%
Car	Front Wheel Drive	2007	3.9%	38.8%	45.9%	15.4%
Car	Front Wheel Drive	2008	4.1%	38.5%	42.7%	18.8%
Car	Front Wheel Drive	2009	3.5%	41.0%	42.4%	16.6%
Car	Front Wheel Drive	2010	6.6%	40.8%	43.9%	15.3%
Car	Front Wheel Drive	2011	4.3%	26.5%	52.0%	21.4%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP					
Car	Front Wheel Drive	2012	7082	0.831	36.5	24.2	33.1	28.6	3372	113.3	136.6	171	9.9	1.255	0.0501	48.9	3303
Car	Rear Wheel Drive	1975	7708	0.935	15.4	12.0	14.8	13.2	4146		298.2	140	14.1	0.502	0.0333	27.5	
Car	Rear Wheel Drive	1976	9172	0.942	17.2	13.5	16.3	14.6	4133		294.1	136	14.4	0.491	0.0325	30.3	
Car	Rear Wheel Drive	1977	10545	0.932	17.9	14.1	17.0	15.2	4034	111.6	289.1	137	13.9	0.503	0.0336	31.0	1744
Car	Rear Wheel Drive	1978	10116	0.904	19.3	15.1	18.6	16.5	3694	110.6	264.4	129	13.6	0.522	0.0345	30.6	1864
Car	Rear Wheel Drive	1979	9490	0.878	19.6	15.4	18.6	16.7	3603	110.8	252.5	124	13.7	0.527	0.0342	30.2	1881
Car	Rear Wheel Drive	1980	6554	0.694	22.3	17.4	21.4	19.0	3296	105.9	209.5	107	14.2	0.554	0.0323	31.5	2043
Car	Rear Wheel Drive	1981	5437	0.622	23.4	18.3	22.6	20.0	3333	108.6	211.1	107	14.4	0.548	0.0320	33.5	2203
Car	Rear Wheel Drive	1982	4200	0.536	23.3	18.0	22.8	19.9	3382	109.8	216.0	112	14.1	0.553	0.0330	33.9	2217
Car	Rear Wheel Drive	1983	4006	0.499	22.5	17.2	22.4	19.2	3544	113.6	235.3	123	13.6	0.550	0.0346	34.3	2201
Car	Rear Wheel Drive	1984	4886	0.455	23.1	17.6	23.1	19.7	3514	110.2	233.3	125	13.3	0.570	0.0355	34.9	2193
Car	Rear Wheel Drive	1985	4006	0.368	23.5	17.9	23.6	20.1	3574	110.9	238.2	135	12.7	0.600	0.0376	35.9	2233
Car	Rear Wheel Drive	1986	3127	0.282	23.8	18.0	23.9	20.3	3546	108.1	237.9	139	12.4	0.627	0.0392	36.0	2194
Car	Rear Wheel Drive	1987	2441	0.226	23.5	17.5	23.9	20.0	3604	108.2	239.1	147	12.0	0.662	0.0408	36.1	2169
Car	Rear Wheel Drive	1988	1988	0.183	23.5	17.4	23.8	19.9	3678	111.1	245.8	156	11.6	0.678	0.0427	36.7	2222
Car	Rear Wheel Drive	1989	1762	0.174	23.6	17.4	23.8	19.9	3695	112.1	242.8	152	11.9	0.674	0.0415	36.9	2240
Car	Rear Wheel Drive	1990	1334	0.150	23.6	17.3	23.6	19.9	3714	108.8	233.6	158	11.7	0.731	0.0428	36.9	2160
Car	Rear Wheel Drive	1991	1534	0.175	23.7	17.3	23.7	19.9	3727	110.8	236.6	172	10.9	0.768	0.0462	37.1	2206
Car	Rear Wheel Drive	1992	1710	0.205	24.1	17.5	23.9	20.1	3754	114.5	225.3	176	10.9	0.820	0.0465	38.0	2320
Car	Rear Wheel Drive	1993	1634	0.183	23.0	16.6	22.8	19.2	3824	115.8	241.4	186	10.6	0.800	0.0487	37.0	2241
Car	Rear Wheel Drive	1994	1598	0.183	23.5	16.8	23.4	19.6	3818	113.1	243.6	191	10.3	0.813	0.0500	37.5	2222
Car	Rear Wheel Drive	1995	1805	0.188	24.2	17.1	24.2	20.1	3781	110.6	228.5	190	10.2	0.871	0.0501	38.2	2233
Car	Rear Wheel Drive	1996	1212	0.148	23.7	16.7	23.7	19.7	3840	113.3	248.8	199	10.0	0.819	0.0516	37.9	2228
Car	Rear Wheel Drive	1997	1264	0.145	23.9	16.7	23.6	19.7	3795	111.6	236.0	200	9.8	0.874	0.0527	37.5	2201
Car	Rear Wheel Drive	1998	1262	0.150	23.5	16.5	23.0	19.4	3811	109.7	238.1	204	9.8	0.876	0.0534	37.1	2126
Car	Rear Wheel Drive	1999	1301	0.147	23.6	16.5	22.9	19.4	3830	111.1	235.9	208	9.6	0.912	0.0546	37.3	2155
Car	Rear Wheel Drive	2000	1723	0.177	23.8	16.5	22.8	19.4	3766	108.7	226.7	211	9.4	0.955	0.0558	36.7	2120
Car	Rear Wheel Drive	2001	1530	0.167	23.9	16.5	22.8	19.5	3755	107.7	222.2	212	9.3	0.986	0.0565	36.7	2100
Car	Rear Wheel Drive	2002	1201	0.135	23.7	16.2	22.7	19.3	3817	103.7	227.9	225	9.0	1.016	0.0591	36.9	1995
Car	Rear Wheel Drive	2003	1347	0.159	24.1	16.3	23.1	19.5	3889	104.5	228.4	238	8.7	1.067	0.0614	38.0	2039
Car	Rear Wheel Drive	2004	1186	0.145	24.1	16.1	23.3	19.5	3886	104.1	228.7	241	8.6	1.083	0.0623	38.0	2032
Car	Rear Wheel Drive	2005	1256	0.142	24.2	16.1	23.3	19.5	3977	106.8	235.2	256	8.3	1.135	0.0646	38.9	2089
Car	Rear Wheel Drive	2006	1578	0.180	24.6	16.3	23.7	19.9	3969	108.6	234.1	263	8.2	1.149	0.0663	39.6	2168
Car	Rear Wheel Drive	2007	1204	0.134	24.5	16.2	23.8	19.8	3977	104.0	237.3	273	8.0	1.182	0.0687	39.5	2064
Car	Rear Wheel Drive	2008	1165	0.141	25.0	16.6	24.1	20.2	3984	104.7	229.5	272	8.1	1.214	0.0681	40.4	2121
Car	Rear Wheel Drive	2009	634	0.102	25.4	16.8	24.6	20.5	3979	104.1	233.8	282	7.9	1.233	0.0705	40.9	2143
Car	Rear Wheel Drive	2010	780	0.112	25.6	16.9	25.0	20.7	4020	106.1	243.3	291	7.7	1.220	0.0724	41.8	2208

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Cu-Ft-Ton-MPG	Transmission			Fuel Metering				Number of Valves				VVT
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five	
Car	Front Wheel Drive	2012	5552	6.8%	74.5%	12.9%	25.8%	73.0%		1.2%	1.0%		99.0%		98.3%
Car	Rear Wheel Drive	1975		16.6%	0.1%			4.2%		0.3%					
Car	Rear Wheel Drive	1976		14.5%				2.2%		0.3%					
Car	Rear Wheel Drive	1977	3462	13.1%				2.2%		0.3%					
Car	Rear Wheel Drive	1978	3397	15.0%	7.4%			2.3%		0.6%					
Car	Rear Wheel Drive	1979	3364	15.9%	9.2%			2.7%		1.6%					
Car	Rear Wheel Drive	1980	3359	24.4%	23.4%			4.9%	0.3%	3.5%					
Car	Rear Wheel Drive	1981	3670	20.3%	53.3%			6.6%	3.1%	6.3%					
Car	Rear Wheel Drive	1982	3759	19.4%	67.8%			9.2%	6.4%	6.4%					
Car	Rear Wheel Drive	1983	3916	14.4%	76.1%			13.3%	14.0%	2.9%					
Car	Rear Wheel Drive	1984	3861	16.1%	77.6%			22.5%	20.6%	1.7%					
Car	Rear Wheel Drive	1985	4018	15.1%	77.1%			22.4%	30.7%	1.3%					
Car	Rear Wheel Drive	1986	3923	17.0%	74.6%			45.2%	16.2%	0.3%	97.6%		2.4%		
Car	Rear Wheel Drive	1987	3940	18.2%	73.5%			57.9%	12.1%	1.0%	96.2%		3.8%		
Car	Rear Wheel Drive	1988	4129	16.5%	76.1%			77.1%	7.9%	0.0%	95.7%	1.4%	2.8%		
Car	Rear Wheel Drive	1989	4181	15.7%	75.7%			81.0%	13.4%	0.0%	89.9%	5.1%	5.1%		
Car	Rear Wheel Drive	1990	4067	18.3%	72.9%			89.1%	8.0%	0.2%	78.9%	4.9%	16.2%		4.0%
Car	Rear Wheel Drive	1991	4165	16.7%	75.7%			75.1%	24.4%	0.4%	80.9%	0.2%	18.9%		4.8%
Car	Rear Wheel Drive	1992	4388	12.6%	82.0%			83.3%	16.3%	0.2%	69.6%		30.4%		8.8%
Car	Rear Wheel Drive	1993	4317	11.2%	83.9%			89.8%	10.0%		82.4%		17.6%		8.0%
Car	Rear Wheel Drive	1994	4275	14.2%	79.9%			98.3%	1.6%	0.0%	77.2%		22.8%		8.2%
Car	Rear Wheel Drive	1995	4241	13.5%	80.8%			98.6%	1.1%	0.3%	61.0%		38.9%	0.0%	9.0%
Car	Rear Wheel Drive	1996	4316	14.9%	80.8%			99.8%		0.2%	73.5%		26.5%	0.0%	10.2%
Car	Rear Wheel Drive	1997	4205	15.7%	82.4%			99.8%		0.2%	60.7%	0.9%	38.3%	0.0%	19.1%
Car	Rear Wheel Drive	1998	4072	14.2%	85.6%			99.7%		0.3%	64.2%	4.3%	31.5%	0.0%	18.6%
Car	Rear Wheel Drive	1999	4153	13.7%	85.8%			99.6%		0.4%	61.3%	7.2%	31.4%	0.1%	17.6%
Car	Rear Wheel Drive	2000	4005	14.5%	83.8%			99.7%	0.3%		57.4%	5.2%	37.4%	0.0%	20.0%
Car	Rear Wheel Drive	2001	3967	13.5%	86.2%			100.0%			53.2%	8.9%	37.8%	0.0%	26.9%
Car	Rear Wheel Drive	2002	3840	16.0%	83.6%			100.0%			39.0%	11.1%	49.8%	0.1%	28.4%
Car	Rear Wheel Drive	2003	4019	14.0%	86.0%			100.0%			38.6%	13.4%	48.0%	0.1%	33.8%
Car	Rear Wheel Drive	2004	4000	15.8%	84.0%			100.0%			40.6%	8.7%	50.5%	0.2%	42.4%
Car	Rear Wheel Drive	2005	4209	12.4%	87.4%			99.5%		0.5%	33.0%	12.3%	54.7%	0.0%	43.7%
Car	Rear Wheel Drive	2006	4345	12.0%	87.7%			99.7%		0.3%	26.1%	8.2%	65.5%	0.0%	53.3%
Car	Rear Wheel Drive	2007	4149	13.3%	86.6%		0.4%	99.4%		0.2%	24.9%	6.6%	68.5%		55.3%
Car	Rear Wheel Drive	2008	4271	11.1%	86.8%		5.3%	94.4%		0.3%	19.7%	3.9%	76.4%	0.0%	56.9%
Car	Rear Wheel Drive	2009	4301	9.6%	87.3%		12.1%	87.5%		0.4%	21.0%	3.4%	75.6%	0.0%	66.2%
Car	Rear Wheel Drive	2010	4460	12.6%	86.3%	0.0%	17.9%	81.8%		0.2%	26.0%	3.0%	71.1%		62.9%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Hybrid	Vehicle Size		
				Small	Midsize	Large
Car	Front Wheel Drive	2012	6.3%	43.7%	43.6%	12.7%
Car	Rear Wheel Drive	1975		53.2%	24.4%	22.4%
Car	Rear Wheel Drive	1976		53.5%	26.2%	20.3%
Car	Rear Wheel Drive	1977		49.2%	25.9%	24.9%
Car	Rear Wheel Drive	1978		39.5%	37.6%	22.9%
Car	Rear Wheel Drive	1979		37.7%	37.2%	25.2%
Car	Rear Wheel Drive	1980		48.0%	35.7%	16.2%
Car	Rear Wheel Drive	1981		41.0%	39.4%	19.6%
Car	Rear Wheel Drive	1982		43.7%	33.0%	23.3%
Car	Rear Wheel Drive	1983		35.7%	34.1%	30.2%
Car	Rear Wheel Drive	1984		42.3%	28.8%	28.9%
Car	Rear Wheel Drive	1985		39.9%	30.8%	29.3%
Car	Rear Wheel Drive	1986		49.7%	28.6%	21.7%
Car	Rear Wheel Drive	1987		50.9%	26.0%	23.1%
Car	Rear Wheel Drive	1988		50.2%	18.9%	30.9%
Car	Rear Wheel Drive	1989		42.7%	25.8%	31.4%
Car	Rear Wheel Drive	1990		41.1%	31.2%	27.7%
Car	Rear Wheel Drive	1991		40.6%	30.6%	28.8%
Car	Rear Wheel Drive	1992		29.7%	38.7%	31.7%
Car	Rear Wheel Drive	1993		27.4%	47.7%	24.9%
Car	Rear Wheel Drive	1994		37.5%	36.9%	25.6%
Car	Rear Wheel Drive	1995		38.7%	40.0%	21.3%
Car	Rear Wheel Drive	1996		34.8%	36.1%	29.1%
Car	Rear Wheel Drive	1997		39.5%	34.4%	26.1%
Car	Rear Wheel Drive	1998		43.1%	38.3%	18.6%
Car	Rear Wheel Drive	1999		38.5%	38.8%	22.7%
Car	Rear Wheel Drive	2000		45.1%	36.3%	18.6%
Car	Rear Wheel Drive	2001		47.3%	30.8%	21.9%
Car	Rear Wheel Drive	2002		55.3%	30.8%	13.9%
Car	Rear Wheel Drive	2003		50.3%	27.5%	22.2%
Car	Rear Wheel Drive	2004		50.4%	25.7%	23.9%
Car	Rear Wheel Drive	2005		44.2%	26.3%	29.5%
Car	Rear Wheel Drive	2006		43.5%	21.8%	34.6%
Car	Rear Wheel Drive	2007	0.3%	47.5%	26.3%	26.2%
Car	Rear Wheel Drive	2008	0.1%	45.6%	23.7%	30.8%
Car	Rear Wheel Drive	2009	0.1%	51.6%	17.4%	31.1%
Car	Rear Wheel Drive	2010	0.2%	56.9%	16.6%	26.5%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP					
Car	Rear Wheel Drive	2011	785	0.113	26.5	17.3	26.0	21.4	4025	105.1	236.7	306	7.3	1.318	0.0761	43.4	2271
Car	Rear Wheel Drive	2012	872	0.102	27.2	17.7	26.7	21.9	4017	102.5	236.3	328	7.0	1.426	0.0814	44.5	2277
Car	Four Wheel Drive	1975															
Car	Four Wheel Drive	1976															
Car	Four Wheel Drive	1977															
Car	Four Wheel Drive	1978															
Car	Four Wheel Drive	1979	37	0.003	27.6	21.7	26.1	23.5	2500	100.5	97.0	67	16.0	0.691	0.0268	29.4	2360
Car	Four Wheel Drive	1980	85	0.009	20.9	16.7	19.2	17.8	3149	100.8	172.6	80	16.8	0.541	0.0257	28.0	1880
Car	Four Wheel Drive	1981	62	0.007	24.3	19.4	22.5	20.7	2930	102.7	156.9	83	15.4	0.576	0.0284	30.3	2224
Car	Four Wheel Drive	1982	63	0.008	25.3	20.1	23.4	21.5	3122	103.1	164.9	85	16.0	0.564	0.0271	33.4	2266
Car	Four Wheel Drive	1983	245	0.031	31.6	25.3	29.0	26.8	2689	98.9	118.5	75	15.7	0.675	0.0279	36.3	2722
Car	Four Wheel Drive	1984	107	0.010	27.6	21.9	25.9	23.5	2913	106.6	135.4	80	16.0	0.643	0.0274	34.4	2605
Car	Four Wheel Drive	1985	224	0.021	32.5	25.7	30.5	27.7	2584	115.8	101.4	72	15.9	0.703	0.0275	36.1	3259
Car	Four Wheel Drive	1986	116	0.010	26.9	21.1	25.3	22.8	2929	113.2	120.2	92	14.5	0.789	0.0312	33.5	2618
Car	Four Wheel Drive	1987	118	0.011	26.8	20.9	25.1	22.7	2928	114.7	115.4	92	14.5	0.811	0.0313	33.3	2632
Car	Four Wheel Drive	1988	89	0.008	28.8	22.4	26.5	24.2	2827	109.2	112.2	98	13.4	0.890	0.0346	34.2	2678
Car	Four Wheel Drive	1989	97	0.010	28.9	22.3	26.7	24.2	2845	95.3	114.8	107	12.6	0.948	0.0378	34.7	2305
Car	Four Wheel Drive	1990	86	0.010	26.8	20.3	25.4	22.5	3234	115.7	124.9	120	12.8	0.959	0.0367	36.3	2615
Car	Four Wheel Drive	1991	118	0.013	26.6	19.9	25.2	22.2	3289	109.5	129.9	145	11.6	1.104	0.0433	36.5	2456
Car	Four Wheel Drive	1992	90	0.011	25.9	19.2	24.5	21.5	3492	109.1	140.3	191	9.8	1.400	0.0552	37.6	2380
Car	Four Wheel Drive	1993	100	0.011	28.0	20.7	26.3	23.2	3217	111.2	127.5	130	12.1	1.008	0.0400	37.2	2587
Car	Four Wheel Drive	1994	36	0.004	26.2	19.2	24.7	21.6	3443	117.3	140.4	140	12.0	0.991	0.0404	37.3	2557
Car	Four Wheel Drive	1995	109	0.011	27.7	20.0	26.3	22.8	3310	115.4	135.2	143	11.3	1.056	0.0430	37.7	2640
Car	Four Wheel Drive	1996	118	0.014	26.7	19.1	25.4	21.9	3397	118.6	145.4	153	11.0	1.045	0.0449	37.3	2624
Car	Four Wheel Drive	1997	144	0.017	27.3	19.3	26.0	22.3	3397	119.3	147.2	160	10.6	1.086	0.0470	38.0	2684
Car	Four Wheel Drive	1998	179	0.021	26.5	18.7	25.2	21.6	3526	120.8	149.1	169	10.4	1.136	0.0479	38.2	2627
Car	Four Wheel Drive	1999	186	0.021	26.2	18.2	25.2	21.4	3558	119.8	149.2	172	10.3	1.152	0.0481	38.1	2577
Car	Four Wheel Drive	2000	190	0.020	26.3	18.4	24.7	21.3	3603	119.0	152.7	181	10.0	1.191	0.0501	38.4	2555
Car	Four Wheel Drive	2001	273	0.030	25.2	17.5	23.8	20.5	3831	115.2	156.9	200	9.8	1.292	0.0523	39.4	2375
Car	Four Wheel Drive	2002	318	0.036	25.8	17.7	24.4	20.8	3828	112.8	155.3	201	9.7	1.320	0.0528	39.9	2362
Car	Four Wheel Drive	2003	276	0.032	26.2	17.8	24.7	21.1	3801	113.4	153.7	194	10.0	1.272	0.0509	40.2	2416
Car	Four Wheel Drive	2004	431	0.053	24.5	16.6	23.1	19.7	4035	119.4	177.7	222	9.5	1.272	0.0550	39.9	2364
Car	Four Wheel Drive	2005	580	0.066	24.8	16.7	23.3	19.9	3996	126.9	183.7	220	9.5	1.221	0.0549	39.7	2535
Car	Four Wheel Drive	2006	526	0.060	25.1	16.9	23.4	20.1	4020	123.6	185.9	231	9.1	1.266	0.0573	40.4	2496
Car	Four Wheel Drive	2007	506	0.056	25.4	17.0	23.9	20.4	4011	117.8	188.1	236	9.0	1.266	0.0586	40.9	2412
Car	Four Wheel Drive	2008	584	0.071	25.6	17.2	24.2	20.6	3983	116.5	187.5	240	8.8	1.288	0.0599	41.0	2412
Car	Four Wheel Drive	2009	394	0.063	26.5	17.8	24.8	21.2	3932	112.1	181.0	236	8.9	1.309	0.0595	41.7	2392

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Cu-Ft-Ton-MPG	Transmission			Fuel Metering				Number of Valves				VVT
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five	
Car	Rear Wheel Drive	2011	4589	10.4%	87.4%	0.1%	27.3%	71.4%		1.3%	16.6%	2.9%	80.5%		81.8%
Car	Rear Wheel Drive	2012	4599	13.9%	84.0%		52.1%	47.6%		0.3%	12.7%	3.9%	83.3%		93.7%
Car	Four Wheel Drive	1975													
Car	Four Wheel Drive	1976													
Car	Four Wheel Drive	1977													
Car	Four Wheel Drive	1978													
Car	Four Wheel Drive	1979	2950	100.0%											
Car	Four Wheel Drive	1980	2819	53.5%											
Car	Four Wheel Drive	1981	3117	73.3%	26.7%										
Car	Four Wheel Drive	1982	3439	67.5%	32.5%										
Car	Four Wheel Drive	1983	3586	55.8%	14.5%			1.0%							
Car	Four Wheel Drive	1984	3672	59.2%	35.4%			7.8%							
Car	Four Wheel Drive	1985	4181	54.0%	36.7%			9.8%							
Car	Four Wheel Drive	1986	3793	72.4%	0.0%			34.7%			100.0%				
Car	Four Wheel Drive	1987	3821	69.7%	0.5%			27.6%	6.8%		94.9%	5.1%			
Car	Four Wheel Drive	1988	3754	76.8%	6.2%			35.2%	44.3%		75.2%	14.7%	10.1%		
Car	Four Wheel Drive	1989	3291	60.9%	15.4%			78.1%	21.0%		58.2%	1.1%	40.7%		
Car	Four Wheel Drive	1990	4212	45.8%	45.1%	2.4%		82.1%	17.9%		28.6%	5.9%	65.5%		
Car	Four Wheel Drive	1991	4008	42.4%	45.0%	3.1%		87.5%	12.5%		15.1%	5.2%	79.6%		
Car	Four Wheel Drive	1992	4104	49.3%	38.0%	0.1%		100.0%			37.7%	0.5%	61.9%		
Car	Four Wheel Drive	1993	4156	32.6%	63.9%	0.8%		93.4%	6.6%		14.6%	2.0%	83.3%		
Car	Four Wheel Drive	1994	4385	36.5%	61.6%			100.0%			83.3%		16.7%		
Car	Four Wheel Drive	1995	4361	30.7%	69.3%			100.0%			5.8%		94.2%		
Car	Four Wheel Drive	1996	4451	32.5%	67.5%			100.0%			15.4%		84.6%		2.4%
Car	Four Wheel Drive	1997	4549	27.9%	72.1%			100.0%			11.3%		84.8%	4.0%	1.4%
Car	Four Wheel Drive	1998	4621	24.3%	75.7%			100.0%			1.2%		77.8%	21.0%	17.9%
Car	Four Wheel Drive	1999	4576	22.7%	77.1%			100.0%			1.2%		70.9%	27.9%	22.7%
Car	Four Wheel Drive	2000	4588	25.4%	74.4%			100.0%					69.0%	31.0%	23.7%
Car	Four Wheel Drive	2001	4565	27.7%	71.9%			100.0%				3.7%	56.7%	39.6%	32.9%
Car	Four Wheel Drive	2002	4531	27.5%	72.2%			100.0%				2.9%	72.1%	25.1%	30.3%
Car	Four Wheel Drive	2003	4580	18.9%	81.1%			100.0%				2.1%	72.8%	25.1%	36.6%
Car	Four Wheel Drive	2004	4805	16.3%	83.5%			100.0%				9.5%	71.9%	18.6%	43.8%
Car	Four Wheel Drive	2005	5063	11.3%	83.1%	5.6%		100.0%			19.1%	5.2%	68.5%	7.2%	33.4%
Car	Four Wheel Drive	2006	5008	11.7%	83.8%	4.5%		100.0%			3.2%	4.3%	89.7%	2.8%	54.8%
Car	Four Wheel Drive	2007	4832	12.6%	81.9%	5.5%		99.7%		0.3%	7.6%	0.2%	91.8%	0.4%	50.7%
Car	Four Wheel Drive	2008	4783	10.3%	89.1%	0.6%	9.8%	90.0%		0.2%	5.5%		94.3%	0.2%	45.8%
Car	Four Wheel Drive	2009	4679	8.6%	91.1%		23.9%	76.0%		0.1%	3.2%		96.7%	0.0%	61.8%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Hybrid	Vehicle Size		
				Small	Midsize	Large
Car	Rear Wheel Drive	2011	0.2%	59.5%	19.4%	21.1%
Car	Rear Wheel Drive	2012	0.7%	60.0%	20.6%	19.4%
Car	Four Wheel Drive	1975				
Car	Four Wheel Drive	1976				
Car	Four Wheel Drive	1977				
Car	Four Wheel Drive	1978				
Car	Four Wheel Drive	1979		100.0%		
Car	Four Wheel Drive	1980		100.0%		
Car	Four Wheel Drive	1981		100.0%		
Car	Four Wheel Drive	1982		100.0%		
Car	Four Wheel Drive	1983		100.0%		
Car	Four Wheel Drive	1984		100.0%		
Car	Four Wheel Drive	1985		93.1%	6.9%	
Car	Four Wheel Drive	1986		90.3%	9.7%	
Car	Four Wheel Drive	1987		94.9%	5.1%	
Car	Four Wheel Drive	1988		95.3%	4.7%	
Car	Four Wheel Drive	1989		77.1%	22.9%	
Car	Four Wheel Drive	1990		95.0%	5.0%	
Car	Four Wheel Drive	1991		97.3%	2.7%	
Car	Four Wheel Drive	1992		97.7%	2.3%	
Car	Four Wheel Drive	1993		93.8%	6.2%	
Car	Four Wheel Drive	1994		98.4%	1.6%	
Car	Four Wheel Drive	1995		55.1%	44.9%	
Car	Four Wheel Drive	1996		44.4%	55.6%	
Car	Four Wheel Drive	1997		45.3%	54.7%	
Car	Four Wheel Drive	1998		36.7%	63.3%	
Car	Four Wheel Drive	1999		36.7%	63.3%	
Car	Four Wheel Drive	2000		32.0%	67.6%	0.3%
Car	Four Wheel Drive	2001		39.9%	59.4%	0.7%
Car	Four Wheel Drive	2002		59.5%	40.3%	0.2%
Car	Four Wheel Drive	2003		60.6%	38.2%	1.1%
Car	Four Wheel Drive	2004		52.0%	27.2%	20.8%
Car	Four Wheel Drive	2005		33.7%	29.8%	36.6%
Car	Four Wheel Drive	2006		36.0%	32.3%	31.7%
Car	Four Wheel Drive	2007		40.8%	35.9%	23.3%
Car	Four Wheel Drive	2008	0.4%	40.4%	41.6%	18.0%
Car	Four Wheel Drive	2009	0.1%	55.2%	33.0%	11.7%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP					
Car	Four Wheel Drive	2010	440	0.063	26.8	17.9	25.1	21.4	4098	118.1	184.9	251	8.7	1.366	0.0608	44.1	2560
Car	Four Wheel Drive	2011	597	0.086	27.2	18.2	25.7	21.8	4068	116.6	179.2	248	8.8	1.398	0.0604	44.6	2561
Car	Four Wheel Drive	2012	570	0.067	28.6	19.0	27.0	22.9	4027	118.1	177.5	254	8.7	1.437	0.0621	46.4	2752
Van	Front Wheel Drive	1975															
Van	Front Wheel Drive	1976															
Van	Front Wheel Drive	1977															
Van	Front Wheel Drive	1978															
Van	Front Wheel Drive	1979															
Van	Front Wheel Drive	1980															
Van	Front Wheel Drive	1981	1	0.003	17.9	13.8	17.5	15.2	4115		318.0	135	13.7	0.425	0.0329	31.3	
Van	Front Wheel Drive	1982															
Van	Front Wheel Drive	1983	1	0.002	39.0	33.5	32.3	32.9	2250		97.0	52	18.3	0.536	0.0231	37.2	
Van	Front Wheel Drive	1984	151	0.223	24.7	19.6	23.1	21.0	3341		143.3	97	15.3	0.680	0.0293	35.3	
Van	Front Wheel Drive	1985	260	0.304	23.7	18.9	21.9	20.1	3422		148.3	100	15.2	0.681	0.0294	34.5	
Van	Front Wheel Drive	1986	255	0.244	24.4	19.2	22.8	20.7	3442		150.3	100	15.4	0.669	0.0291	35.7	
Van	Front Wheel Drive	1987	307	0.275	24.6	19.1	23.1	20.8	3503		163.4	122	13.6	0.741	0.0347	36.4	
Van	Front Wheel Drive	1988	411	0.363	24.1	18.3	23.1	20.3	3714		173.3	133	13.2	0.765	0.0359	37.7	
Van	Front Wheel Drive	1989	439	0.344	24.1	18.4	22.8	20.2	3724		167.9	131	13.5	0.776	0.0350	37.7	
Van	Front Wheel Drive	1990	590	0.468	23.9	17.9	23.0	20.0	3828		184.3	135	13.3	0.733	0.0354	38.4	
Van	Front Wheel Drive	1991	395	0.382	23.8	17.9	22.5	19.9	3919		186.3	136	13.5	0.727	0.0346	38.9	
Van	Front Wheel Drive	1992	554	0.454	23.8	17.6	22.7	19.8	3894		187.5	139	13.2	0.742	0.0355	38.6	
Van	Front Wheel Drive	1993	718	0.498	23.8	17.4	22.9	19.8	3838		188.0	143	12.7	0.763	0.0373	37.9	
Van	Front Wheel Drive	1994	742	0.523	23.5	17.1	22.5	19.5	3902		193.4	145	12.7	0.755	0.0373	38.1	
Van	Front Wheel Drive	1995	1019	0.613	23.5	16.9	22.8	19.5	3889		206.3	146	12.6	0.722	0.0375	37.9	
Van	Front Wheel Drive	1996	1040	0.738	23.5	16.7	22.7	19.4	4061		202.6	166	11.8	0.824	0.0409	39.4	
Van	Front Wheel Drive	1997	819	0.648	23.5	16.7	22.7	19.4	4048		195.4	162	12.0	0.832	0.0400	39.2	
Van	Front Wheel Drive	1998	1166	0.783	23.8	16.7	23.1	19.6	4025		201.5	173	11.3	0.864	0.0431	39.4	
Van	Front Wheel Drive	1999	1112	0.760	23.5	16.4	22.9	19.3	4147		204.2	176	11.4	0.863	0.0423	40.1	
Van	Front Wheel Drive	2000	1363	0.806	23.8	16.5	23.0	19.5	4168		201.6	178	11.4	0.888	0.0427	40.5	
Van	Front Wheel Drive	2001	854	0.693	24.3	16.7	23.3	19.8	4242		200.9	189	10.9	0.946	0.0447	42.0	
Van	Front Wheel Drive	2002	1048	0.843	24.0	16.5	22.9	19.5	4319		206.8	198	10.8	0.959	0.0458	42.1	
Van	Front Wheel Drive	2003	1029	0.835	24.4	16.6	23.2	19.7	4293		209.2	199	10.6	0.955	0.0464	42.3	
Van	Front Wheel Drive	2004	826	0.866	24.3	16.3	23.4	19.6	4428		212.0	212	10.4	1.007	0.0480	43.5	
Van	Front Wheel Drive	2005	1321	0.892	24.4	16.3	23.3	19.6	4392		212.5	208	10.5	0.984	0.0474	43.2	
Van	Front Wheel Drive	2006	1047	0.898	24.7	16.5	23.7	19.9	4424		212.6	210	10.4	0.992	0.0475	44.1	
Van	Front Wheel Drive	2007	795	0.938	24.4	16.3	23.4	19.7	4449		217.1	225	10.0	1.040	0.0505	43.8	
Van	Front Wheel Drive	2008	734	0.929	24.9	16.6	23.8	20.1	4500		217.8	219	10.4	1.009	0.0486	45.2	

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Cu-Ft-Ton-MPG	Transmission			Fuel Metering				Number of Valves				VVT
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five	
Car	Four Wheel Drive	2010	5229	5.9%	84.8%	8.2%	42.1%	57.9%			0.5%		99.5%		98.7%
Car	Four Wheel Drive	2011	5194	6.8%	80.6%	12.4%	48.5%	51.5%			0.8%		99.2%		99.0%
Car	Four Wheel Drive	2012	5488	8.8%	73.3%	17.3%	54.3%	45.5%		0.2%	1.5%		98.5%		98.8%
Van	Front Wheel Drive	1975													
Van	Front Wheel Drive	1976													
Van	Front Wheel Drive	1977													
Van	Front Wheel Drive	1978													
Van	Front Wheel Drive	1979													
Van	Front Wheel Drive	1980													
Van	Front Wheel Drive	1981		100.0%											
Van	Front Wheel Drive	1982													
Van	Front Wheel Drive	1983		33.3%						100.0%					
Van	Front Wheel Drive	1984		25.1%	5.6%					1.3%					
Van	Front Wheel Drive	1985		12.4%	4.4%			0.1%							
Van	Front Wheel Drive	1986		8.7%	6.1%				0.1%						
Van	Front Wheel Drive	1987		5.5%	54.1%			51.6%	0.2%						
Van	Front Wheel Drive	1988		3.0%	78.4%			79.2%	20.8%						
Van	Front Wheel Drive	1989		2.6%	58.8%			72.7%	27.3%						
Van	Front Wheel Drive	1990		1.9%	96.7%			67.9%	32.1%						
Van	Front Wheel Drive	1991		0.2%	99.8%			70.5%	29.5%						
Van	Front Wheel Drive	1992		2.4%	97.6%			82.0%	18.0%						
Van	Front Wheel Drive	1993		1.6%	98.4%			88.8%	11.2%						
Van	Front Wheel Drive	1994		0.6%	99.4%			90.8%	9.2%		99.7%		0.3%		
Van	Front Wheel Drive	1995		0.1%	99.9%			93.2%	6.8%		96.7%		3.3%		
Van	Front Wheel Drive	1996		0.0%	100.0%			100.0%			94.4%		5.6%		
Van	Front Wheel Drive	1997			100.0%			100.0%			92.5%		7.5%		
Van	Front Wheel Drive	1998			100.0%			100.0%			88.0%		12.0%		
Van	Front Wheel Drive	1999			100.0%			100.0%			83.6%		16.4%		10.8%
Van	Front Wheel Drive	2000			100.0%			100.0%			73.2%		26.8%		18.6%
Van	Front Wheel Drive	2001			100.0%			100.0%			67.4%		32.6%		24.5%
Van	Front Wheel Drive	2002			100.0%			100.0%			66.3%		33.7%		24.7%
Van	Front Wheel Drive	2003			100.0%			100.0%			69.1%		30.9%		23.5%
Van	Front Wheel Drive	2004			100.0%			100.0%			42.7%		57.3%		50.1%
Van	Front Wheel Drive	2005			97.0%	3.0%		100.0%			62.0%		38.0%		26.2%
Van	Front Wheel Drive	2006			96.6%	3.4%		100.0%			51.8%		48.2%		38.6%
Van	Front Wheel Drive	2007			96.8%	3.2%		100.0%			46.1%		53.9%		51.0%
Van	Front Wheel Drive	2008		0.1%	99.9%			100.0%			46.9%		53.1%		50.0%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Hybrid	Vehicle Size		
				Small	Midsize	Large
Car	Four Wheel Drive	2010	0.0%	36.9%	35.1%	27.9%
Car	Four Wheel Drive	2011	0.0%	44.2%	30.4%	25.3%
Car	Four Wheel Drive	2012	0.1%	38.7%	35.7%	25.6%
Van	Front Wheel Drive	1975				
Van	Front Wheel Drive	1976				
Van	Front Wheel Drive	1977				
Van	Front Wheel Drive	1978				
Van	Front Wheel Drive	1979				
Van	Front Wheel Drive	1980				
Van	Front Wheel Drive	1981			100.0%	
Van	Front Wheel Drive	1982				
Van	Front Wheel Drive	1983		100.0%		
Van	Front Wheel Drive	1984		11.0%	89.0%	
Van	Front Wheel Drive	1985		6.7%	93.3%	
Van	Front Wheel Drive	1986		9.0%	91.0%	
Van	Front Wheel Drive	1987		8.4%	91.6%	
Van	Front Wheel Drive	1988		2.9%	97.1%	
Van	Front Wheel Drive	1989		2.2%	97.8%	
Van	Front Wheel Drive	1990		2.9%	97.1%	
Van	Front Wheel Drive	1991		1.6%	98.4%	
Van	Front Wheel Drive	1992		6.1%	93.9%	
Van	Front Wheel Drive	1993		1.7%	98.3%	
Van	Front Wheel Drive	1994		1.0%	99.0%	
Van	Front Wheel Drive	1995		0.2%	99.7%	0.2%
Van	Front Wheel Drive	1996		0.1%	99.9%	
Van	Front Wheel Drive	1997			99.8%	0.2%
Van	Front Wheel Drive	1998			100.0%	
Van	Front Wheel Drive	1999			99.9%	0.1%
Van	Front Wheel Drive	2000			99.9%	0.1%
Van	Front Wheel Drive	2001			100.0%	
Van	Front Wheel Drive	2002			99.9%	0.1%
Van	Front Wheel Drive	2003			99.6%	0.4%
Van	Front Wheel Drive	2004			100.0%	
Van	Front Wheel Drive	2005			100.0%	
Van	Front Wheel Drive	2006			100.0%	
Van	Front Wheel Drive	2007			100.0%	
Van	Front Wheel Drive	2008		2.2%	97.8%	

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP					
Van	Front Wheel Drive	2009	346	0.941	25.3	16.8	24.1	20.3	4543		212.2	219	10.4	1.038	0.0481	46.2	
Van	Front Wheel Drive	2010	538	0.963	25.2	16.8	24.0	20.3	4511		212.2	211	10.6	1.003	0.0466	45.8	
Van	Front Wheel Drive	2011	476	0.915	26.8	17.9	25.3	21.5	4441		208.7	259	8.9	1.237	0.0580	47.7	
Van	Front Wheel Drive	2012	634	0.925	26.9	17.8	25.6	21.5	4424		209.1	260	8.9	1.237	0.0583	47.6	
Van	Rear Wheel Drive	1975	457	1.000	13.1	10.6	11.9	11.1	4196		317.5	143	13.9	0.448	0.0341	23.8	
Van	Rear Wheel Drive	1976	502	1.000	13.9	11.1	12.8	11.8	4200		323.7	146	13.7	0.447	0.0347	25.2	
Van	Rear Wheel Drive	1977	514	1.000	14.7	11.9	13.3	12.5	4252		331.8	152	13.3	0.458	0.0359	26.9	
Van	Rear Wheel Drive	1978	625	1.000	14.2	11.6	12.7	12.1	4250		329.2	149	13.4	0.453	0.0351	26.1	
Van	Rear Wheel Drive	1979	481	1.000	13.5	11.1	12.1	11.5	4541		321.9	144	14.6	0.451	0.0317	26.5	
Van	Rear Wheel Drive	1980	242	1.000	16.6	13.3	15.4	14.1	4353		287.9	131	15.2	0.459	0.0299	31.0	
Van	Rear Wheel Drive	1981	244	0.997	17.5	14.0	16.0	14.8	4325		283.9	129	15.3	0.458	0.0298	32.3	
Van	Rear Wheel Drive	1982	311	1.000	17.3	13.9	15.9	14.7	4342		286.9	132	15.2	0.463	0.0303	32.3	
Van	Rear Wheel Drive	1983	382	0.998	17.7	14.1	16.5	15.1	4418		294.7	136	15.0	0.466	0.0307	33.7	
Van	Rear Wheel Drive	1984	525	0.777	17.7	14.0	16.6	15.1	4286		279.7	134	14.8	0.497	0.0311	32.9	
Van	Rear Wheel Drive	1985	593	0.693	18.0	14.3	16.8	15.3	4222		275.1	142	14.0	0.533	0.0335	32.9	
Van	Rear Wheel Drive	1986	776	0.743	19.5	15.3	18.4	16.6	4198		255.1	137	14.2	0.559	0.0327	35.1	
Van	Rear Wheel Drive	1987	786	0.705	19.6	15.2	18.7	16.6	4169		253.0	151	13.1	0.622	0.0362	34.9	
Van	Rear Wheel Drive	1988	713	0.630	19.8	15.1	19.0	16.7	4256		262.1	155	12.9	0.615	0.0366	35.7	
Van	Rear Wheel Drive	1989	830	0.649	19.8	15.0	19.1	16.7	4239		256.8	155	13.0	0.627	0.0366	35.7	
Van	Rear Wheel Drive	1990	589	0.467	19.3	14.5	18.6	16.2	4369		269.9	162	12.8	0.619	0.0372	35.6	
Van	Rear Wheel Drive	1991	526	0.509	20.1	15.0	19.3	16.8	4305		248.9	157	12.9	0.664	0.0366	36.4	
Van	Rear Wheel Drive	1992	600	0.491	19.8	14.7	19.0	16.6	4360		255.6	163	12.7	0.664	0.0375	36.3	
Van	Rear Wheel Drive	1993	658	0.456	20.2	14.9	19.5	16.9	4351		249.1	166	12.5	0.692	0.0383	36.8	
Van	Rear Wheel Drive	1994	585	0.413	19.5	14.3	18.6	16.2	4439		268.4	176	12.1	0.669	0.0397	36.1	
Van	Rear Wheel Drive	1995	492	0.296	19.0	13.9	18.0	15.7	4536		288.8	186	11.7	0.660	0.0414	35.8	
Van	Rear Wheel Drive	1996	336	0.239	19.2	13.9	18.2	15.9	4560		272.9	185	11.9	0.691	0.0406	36.3	
Van	Rear Wheel Drive	1997	387	0.306	19.8	14.2	18.8	16.3	4578		269.1	200	11.2	0.748	0.0437	37.4	
Van	Rear Wheel Drive	1998	274	0.184	19.5	13.9	18.5	16.0	4758		279.9	209	11.1	0.750	0.0441	38.1	
Van	Rear Wheel Drive	1999	311	0.213	18.9	13.5	17.8	15.5	4821		285.1	208	11.3	0.731	0.0431	37.3	
Van	Rear Wheel Drive	2000	282	0.167	19.1	13.6	17.8	15.6	4717		282.9	208	11.1	0.735	0.0440	36.9	
Van	Rear Wheel Drive	2001	272	0.221	18.9	13.3	17.9	15.4	4957		289.6	225	10.8	0.779	0.0454	38.3	
Van	Rear Wheel Drive	2002	157	0.126	18.7	13.2	17.2	15.1	4806		284.2	213	11.0	0.752	0.0445	36.5	
Van	Rear Wheel Drive	2003	141	0.114	19.4	13.6	17.7	15.6	4930		283.2	218	11.1	0.767	0.0441	38.6	
Van	Rear Wheel Drive	2004	81	0.085	20.1	13.9	18.5	16.2	4947		280.9	222	10.9	0.785	0.0448	39.9	
Van	Rear Wheel Drive	2005	79	0.054	19.9	13.8	18.2	16.0	4847		277.0	214	11.1	0.769	0.0442	38.6	
Van	Rear Wheel Drive	2006	66	0.057	19.4	13.4	17.7	15.6	5139		281.0	226	11.1	0.800	0.0438	40.0	
Van	Rear Wheel Drive	2007	28	0.033	20.0	13.8	18.4	16.1	5159		277.5	220	11.5	0.785	0.0424	41.5	

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Cu-Ft-Ton-MPG	Transmission			Fuel Metering				Number of Valves				VVT
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five	
Van	Front Wheel Drive	2009		0.3%	99.7%			100.0%			39.3%		60.7%		48.1%
Van	Front Wheel Drive	2010		0.2%	99.8%			100.0%			47.3%		52.7%		36.9%
Van	Front Wheel Drive	2011			96.6%	3.4%		100.0%					100.0%		94.1%
Van	Front Wheel Drive	2012			91.1%	8.9%		100.0%					100.0%		92.4%
Van	Rear Wheel Drive	1975		23.3%					0.2%						
Van	Rear Wheel Drive	1976		20.5%					0.3%						
Van	Rear Wheel Drive	1977		14.3%					0.4%						
Van	Rear Wheel Drive	1978		13.0%					0.4%						
Van	Rear Wheel Drive	1979		14.8%	6.8%				1.8%						
Van	Rear Wheel Drive	1980		26.0%	39.0%				6.5%						
Van	Rear Wheel Drive	1981		21.7%	46.8%				4.6%						
Van	Rear Wheel Drive	1982		15.7%	45.8%				3.0%	1.8%					
Van	Rear Wheel Drive	1983		12.0%	59.4%				3.5%	4.4%					
Van	Rear Wheel Drive	1984		12.7%	57.1%			8.6%	4.0%	1.2%					
Van	Rear Wheel Drive	1985		8.4%	66.5%			9.1%	4.2%	0.4%					
Van	Rear Wheel Drive	1986		6.9%	78.8%			29.4%	21.9%	0.5%					
Van	Rear Wheel Drive	1987		5.1%	74.1%			43.0%	42.8%	0.1%					
Van	Rear Wheel Drive	1988		3.1%	79.6%			43.5%	56.0%	0.2%					
Van	Rear Wheel Drive	1989		2.5%	86.3%			49.9%	50.0%	0.1%					
Van	Rear Wheel Drive	1990		1.6%	90.4%			44.4%	55.4%	0.1%					
Van	Rear Wheel Drive	1991		1.5%	94.3%			53.1%	46.7%	0.1%					
Van	Rear Wheel Drive	1992		0.7%	95.2%			60.3%	39.6%	0.1%					
Van	Rear Wheel Drive	1993		0.8%	95.6%			66.3%	33.7%						
Van	Rear Wheel Drive	1994		0.3%	94.7%			66.6%	33.4%		97.4%	0.2%	2.4%		
Van	Rear Wheel Drive	1995			94.4%			71.6%	28.4%		96.7%		3.3%		
Van	Rear Wheel Drive	1996			93.2%			100.0%			94.7%	3.2%	2.1%		
Van	Rear Wheel Drive	1997			98.6%			100.0%			96.9%	2.2%	0.9%		
Van	Rear Wheel Drive	1998			100.0%			100.0%			97.7%		2.3%		
Van	Rear Wheel Drive	1999			100.0%			100.0%			100.0%				
Van	Rear Wheel Drive	2000			100.0%			100.0%			100.0%				
Van	Rear Wheel Drive	2001			100.0%			100.0%			100.0%				
Van	Rear Wheel Drive	2002			100.0%			100.0%			100.0%				
Van	Rear Wheel Drive	2003			100.0%			100.0%			100.0%				
Van	Rear Wheel Drive	2004			100.0%			100.0%			100.0%				
Van	Rear Wheel Drive	2005			100.0%			100.0%			100.0%				
Van	Rear Wheel Drive	2006			100.0%			100.0%			100.0%				
Van	Rear Wheel Drive	2007			100.0%			100.0%			100.0%				

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Hybrid	Vehicle Size		
				Small	Midsize	Large
Van	Front Wheel Drive	2009		6.4%	93.6%	
Van	Front Wheel Drive	2010		3.7%	96.3%	
Van	Front Wheel Drive	2011			100.0%	
Van	Front Wheel Drive	2012			100.0%	
Van	Rear Wheel Drive	1975		0.4%	66.1%	33.6%
Van	Rear Wheel Drive	1976		0.3%	61.4%	38.3%
Van	Rear Wheel Drive	1977		0.4%	61.0%	38.6%
Van	Rear Wheel Drive	1978		0.4%	63.8%	35.8%
Van	Rear Wheel Drive	1979		1.8%	65.1%	33.1%
Van	Rear Wheel Drive	1980		6.5%	53.8%	39.7%
Van	Rear Wheel Drive	1981		4.6%	56.1%	39.3%
Van	Rear Wheel Drive	1982		4.8%	58.0%	37.2%
Van	Rear Wheel Drive	1983		3.6%	60.2%	36.2%
Van	Rear Wheel Drive	1984		12.6%	54.3%	33.1%
Van	Rear Wheel Drive	1985		12.3%	60.3%	27.4%
Van	Rear Wheel Drive	1986		8.5%	70.9%	20.6%
Van	Rear Wheel Drive	1987		10.0%	72.2%	17.8%
Van	Rear Wheel Drive	1988		4.9%	75.9%	19.2%
Van	Rear Wheel Drive	1989		2.2%	80.7%	17.1%
Van	Rear Wheel Drive	1990		1.1%	80.6%	18.2%
Van	Rear Wheel Drive	1991		0.8%	84.8%	14.4%
Van	Rear Wheel Drive	1992			84.5%	15.5%
Van	Rear Wheel Drive	1993			83.8%	16.2%
Van	Rear Wheel Drive	1994			80.9%	19.1%
Van	Rear Wheel Drive	1995			79.2%	20.8%
Van	Rear Wheel Drive	1996			67.4%	32.6%
Van	Rear Wheel Drive	1997			64.5%	35.5%
Van	Rear Wheel Drive	1998			51.9%	48.1%
Van	Rear Wheel Drive	1999			45.5%	54.5%
Van	Rear Wheel Drive	2000			40.5%	59.5%
Van	Rear Wheel Drive	2001			19.8%	80.2%
Van	Rear Wheel Drive	2002			29.3%	70.7%
Van	Rear Wheel Drive	2003			29.4%	70.6%
Van	Rear Wheel Drive	2004			31.4%	68.6%
Van	Rear Wheel Drive	2005			35.1%	64.9%
Van	Rear Wheel Drive	2006				100.0%
Van	Rear Wheel Drive	2007				100.0%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP					
Van	Rear Wheel Drive	2008	24	0.031	20.3	14.1	18.3	16.2	5189		277.2	222	11.5	0.794	0.0425	42.0	
Van	Rear Wheel Drive	2009	13	0.034	20.5	14.2	18.5	16.4	5185		276.6	220	11.6	0.786	0.0420	42.6	
Van	Rear Wheel Drive	2010	12	0.021	20.7	14.3	18.9	16.6	5249		279.7	226	11.4	0.799	0.0426	43.5	
Van	Rear Wheel Drive	2011	15	0.029	19.3	13.4	17.7	15.6	5528		290.1	235	11.5	0.805	0.0423	43.0	
Van	Rear Wheel Drive	2012	31	0.045	19.1	13.1	17.6	15.4	5445		294.2	241	11.1	0.816	0.0442	41.9	
Van	Four Wheel Drive	1975															
Van	Four Wheel Drive	1976															
Van	Four Wheel Drive	1977															
Van	Four Wheel Drive	1978															
Van	Four Wheel Drive	1979															
Van	Four Wheel Drive	1980															
Van	Four Wheel Drive	1981															
Van	Four Wheel Drive	1982															
Van	Four Wheel Drive	1983															
Van	Four Wheel Drive	1984															
Van	Four Wheel Drive	1985	3	0.003	25.0	19.2	24.8	21.4	3000		122.0	88	14.9	0.721	0.0293	32.0	
Van	Four Wheel Drive	1986	13	0.013	25.1	19.1	24.8	21.4	3000		122.0	88	14.9	0.721	0.0293	32.0	
Van	Four Wheel Drive	1987	21	0.019	24.2	19.0	22.4	20.5	3459		127.8	94	15.8	0.739	0.0276	35.6	
Van	Four Wheel Drive	1988	9	0.008	26.2	20.0	25.1	22.1	3378		124.9	97	15.2	0.777	0.0289	37.2	
Van	Four Wheel Drive	1989	9	0.007	23.4	17.9	22.0	19.7	3567		135.6	106	15.1	0.781	0.0299	35.1	
Van	Four Wheel Drive	1990	83	0.066	20.1	15.2	19.1	16.9	4050		201.6	151	12.7	0.765	0.0375	34.2	
Van	Four Wheel Drive	1991	113	0.109	20.6	15.5	19.6	17.2	4076		199.6	152	12.6	0.778	0.0374	35.2	
Van	Four Wheel Drive	1992	67	0.055	20.3	15.1	19.3	16.9	4409		212.4	162	12.9	0.774	0.0366	37.3	
Van	Four Wheel Drive	1993	65	0.045	20.3	15.0	19.5	16.9	4571		229.2	174	12.5	0.765	0.0381	38.7	
Van	Four Wheel Drive	1994	91	0.064	20.7	15.1	19.9	17.2	4408		219.1	169	12.4	0.781	0.0383	37.8	
Van	Four Wheel Drive	1995	150	0.091	21.7	15.7	20.9	18.0	4210		208.5	159	12.5	0.775	0.0378	37.9	
Van	Four Wheel Drive	1996	33	0.023	20.0	14.5	19.0	16.5	4727		244.0	177	12.6	0.735	0.0375	39.0	
Van	Four Wheel Drive	1997	59	0.047	20.0	14.3	19.0	16.4	4693		242.7	179	12.4	0.741	0.0380	38.6	
Van	Four Wheel Drive	1998	48	0.032	20.2	14.4	19.3	16.6	4713		238.4	180	12.4	0.762	0.0382	39.2	
Van	Four Wheel Drive	1999	40	0.027	20.4	14.4	19.3	16.7	4747		250.5	186	12.1	0.745	0.0393	39.7	
Van	Four Wheel Drive	2000	46	0.027	20.5	14.5	19.2	16.7	4764		252.5	181	12.4	0.717	0.0380	39.9	
Van	Four Wheel Drive	2001	107	0.087	17.3	12.1	16.5	14.2	5614		300.4	241	11.3	0.805	0.0428	40.0	
Van	Four Wheel Drive	2002	38	0.030	19.8	13.8	18.8	16.1	4772		239.7	195	11.7	0.824	0.0411	39.1	
Van	Four Wheel Drive	2003	62	0.050	20.7	14.3	19.5	16.8	4839		238.7	202	11.6	0.854	0.0416	41.0	
Van	Four Wheel Drive	2004	47	0.049	21.6	14.8	20.1	17.4	4731		228.5	222	10.5	0.994	0.0471	41.5	
Van	Four Wheel Drive	2005	81	0.055	22.4	15.4	20.6	18.0	4645		206.4	213	10.7	1.051	0.0460	41.9	
Van	Four Wheel Drive	2006	53	0.045	22.7	15.5	20.9	18.2	4669		205.5	214	10.7	1.052	0.0459	42.5	

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Cu-Ft-Ton-MPG	Transmission			Fuel Metering				Number of Valves				VVT
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five	
Van	Rear Wheel Drive	2008			100.0%			100.0%			100.0%				
Van	Rear Wheel Drive	2009			100.0%			100.0%			100.0%				
Van	Rear Wheel Drive	2010			100.0%			100.0%			100.0%				29.1%
Van	Rear Wheel Drive	2011			100.0%			100.0%			97.5%		2.5%		26.5%
Van	Rear Wheel Drive	2012			100.0%			100.0%			100.0%				19.4%
Van	Four Wheel Drive	1975													
Van	Four Wheel Drive	1976													
Van	Four Wheel Drive	1977													
Van	Four Wheel Drive	1978													
Van	Four Wheel Drive	1979													
Van	Four Wheel Drive	1980													
Van	Four Wheel Drive	1981													
Van	Four Wheel Drive	1982													
Van	Four Wheel Drive	1983													
Van	Four Wheel Drive	1984													
Van	Four Wheel Drive	1985		100.0%											
Van	Four Wheel Drive	1986		100.0%											
Van	Four Wheel Drive	1987		66.4%	22.9%			67.5%							
Van	Four Wheel Drive	1988		89.7%	10.3%			100.0%							
Van	Four Wheel Drive	1989		59.4%	37.2%			100.0%							
Van	Four Wheel Drive	1990		3.2%	92.5%			85.0%	15.0%						
Van	Four Wheel Drive	1991		4.6%	95.4%			85.9%	14.1%						
Van	Four Wheel Drive	1992		3.3%	96.7%			91.1%	8.9%						
Van	Four Wheel Drive	1993		0.2%	99.5%			100.0%							
Van	Four Wheel Drive	1994		0.5%	99.5%			97.5%	2.5%		65.1%	31.7%	3.2%		
Van	Four Wheel Drive	1995		0.4%	99.6%			100.0%			83.0%	10.9%	6.2%		
Van	Four Wheel Drive	1996		0.1%	99.9%			100.0%			84.7%	11.8%	3.6%		
Van	Four Wheel Drive	1997			100.0%			100.0%			89.8%	8.0%	2.2%		
Van	Four Wheel Drive	1998			100.0%			100.0%			82.1%		17.9%		
Van	Four Wheel Drive	1999			100.0%			100.0%			100.0%				
Van	Four Wheel Drive	2000			100.0%			100.0%			100.0%				
Van	Four Wheel Drive	2001			100.0%			100.0%			100.0%				
Van	Four Wheel Drive	2002			100.0%			100.0%			100.0%				
Van	Four Wheel Drive	2003			100.0%			100.0%			100.0%				
Van	Four Wheel Drive	2004			100.0%			100.0%			44.4%		55.6%		55.6%
Van	Four Wheel Drive	2005			55.2%	44.8%		100.0%			25.2%		74.8%		30.0%
Van	Four Wheel Drive	2006			62.4%	37.6%		100.0%			23.1%		76.9%		39.3%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Hybrid	Vehicle Size		
				Small	Midsize	Large
Van	Rear Wheel Drive	2008			4.5%	95.5%
Van	Rear Wheel Drive	2009				100.0%
Van	Rear Wheel Drive	2010				100.0%
Van	Rear Wheel Drive	2011			2.5%	97.5%
Van	Rear Wheel Drive	2012			16.0%	84.0%
Van	Four Wheel Drive	1975				
Van	Four Wheel Drive	1976				
Van	Four Wheel Drive	1977				
Van	Four Wheel Drive	1978				
Van	Four Wheel Drive	1979				
Van	Four Wheel Drive	1980				
Van	Four Wheel Drive	1981				
Van	Four Wheel Drive	1982				
Van	Four Wheel Drive	1983				
Van	Four Wheel Drive	1984				
Van	Four Wheel Drive	1985		100.0%		
Van	Four Wheel Drive	1986		100.0%		
Van	Four Wheel Drive	1987		100.0%		
Van	Four Wheel Drive	1988		100.0%		
Van	Four Wheel Drive	1989		82.6%	17.4%	
Van	Four Wheel Drive	1990		8.4%	91.6%	
Van	Four Wheel Drive	1991		3.8%	96.2%	
Van	Four Wheel Drive	1992		9.3%	90.7%	
Van	Four Wheel Drive	1993		0.3%	99.4%	0.3%
Van	Four Wheel Drive	1994		4.0%	96.0%	
Van	Four Wheel Drive	1995		2.9%	97.1%	
Van	Four Wheel Drive	1996		0.4%	99.6%	
Van	Four Wheel Drive	1997			100.0%	
Van	Four Wheel Drive	1998			100.0%	
Van	Four Wheel Drive	1999			100.0%	
Van	Four Wheel Drive	2000			100.0%	
Van	Four Wheel Drive	2001			28.9%	71.1%
Van	Four Wheel Drive	2002			100.0%	
Van	Four Wheel Drive	2003			88.4%	11.6%
Van	Four Wheel Drive	2004			90.7%	9.3%
Van	Four Wheel Drive	2005			95.2%	4.8%
Van	Four Wheel Drive	2006			92.4%	7.6%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP					
Van	Four Wheel Drive	2007	25	0.029	22.7	15.6	20.8	18.2	4695		214.2	238	9.9	1.129	0.0507	42.7	
Van	Four Wheel Drive	2008	32	0.040	22.3	15.2	20.6	17.9	4651		226.3	270	8.8	1.211	0.0582	41.6	
Van	Four Wheel Drive	2009	9	0.025	21.4	14.7	19.5	17.1	4824		241.8	275	8.9	1.169	0.0574	41.3	
Van	Four Wheel Drive	2010	9	0.016	21.1	14.6	19.3	16.9	4919		250.0	278	9.0	1.146	0.0569	41.6	
Van	Four Wheel Drive	2011	29	0.056	22.7	15.5	21.0	18.2	4958		222.6	270	9.3	1.227	0.0545	45.2	
Van	Four Wheel Drive	2012	20	0.029	23.5	15.9	21.9	18.9	4951		227.4	272	9.2	1.217	0.0552	47.0	
Truck SUV	Front Wheel Drive	1975															
Truck SUV	Front Wheel Drive	1976															
Truck SUV	Front Wheel Drive	1977															
Truck SUV	Front Wheel Drive	1978															
Truck SUV	Front Wheel Drive	1979															
Truck SUV	Front Wheel Drive	1980															
Truck SUV	Front Wheel Drive	1981															
Truck SUV	Front Wheel Drive	1982															
Truck SUV	Front Wheel Drive	1983															
Truck SUV	Front Wheel Drive	1984															
Truck SUV	Front Wheel Drive	1985															
Truck SUV	Front Wheel Drive	1986															
Truck SUV	Front Wheel Drive	1987															
Truck SUV	Front Wheel Drive	1988															
Truck SUV	Front Wheel Drive	1989															
Truck SUV	Front Wheel Drive	1990															
Truck SUV	Front Wheel Drive	1991															
Truck SUV	Front Wheel Drive	1992															
Truck SUV	Front Wheel Drive	1993															
Truck SUV	Front Wheel Drive	1994															
Truck SUV	Front Wheel Drive	1995															
Truck SUV	Front Wheel Drive	1996															
Truck SUV	Front Wheel Drive	1997															
Truck SUV	Front Wheel Drive	1998															
Truck SUV	Front Wheel Drive	1999															
Truck SUV	Front Wheel Drive	2000															
Truck SUV	Front Wheel Drive	2001	200	0.074	23.5	16.3	22.3	19.1	4412		221.5	200	10.8	0.916	0.0455	42.2	
Truck SUV	Front Wheel Drive	2002	60	0.017	25.0	17.6	22.7	20.1	4000		171.8	201	10.1	1.163	0.0502	40.4	
Truck SUV	Front Wheel Drive	2003	94	0.026	25.7	18.0	23.0	20.5	3885		164.6	190	10.3	1.149	0.0489	40.0	
Truck SUV	Front Wheel Drive	2004	114	0.028	25.3	17.4	23.0	20.2	4060		186.8	196	10.4	1.074	0.0484	41.0	
Truck SUV	Front Wheel Drive	2005	97	0.029	25.9	17.8	23.2	20.5	3950		173.8	198	10.1	1.138	0.0500	40.6	

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Cu-Ft-Ton-MPG	Transmission			Fuel Metering				Number of Valves				VVT
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five	
Van	Four Wheel Drive	2007			48.4%	51.6%		100.0%			15.9%		84.1%		32.5%
Van	Four Wheel Drive	2008			100.0%			100.0%			12.6%		87.4%		41.0%
Van	Four Wheel Drive	2009			100.0%			100.0%			26.8%		73.2%		73.2%
Van	Four Wheel Drive	2010			100.0%			100.0%			34.8%		65.2%		100.0%
Van	Four Wheel Drive	2011			100.0%			100.0%			10.3%		89.7%		100.0%
Van	Four Wheel Drive	2012			100.0%			100.0%			14.6%		85.4%		100.0%
Truck SUV	Front Wheel Drive	1975													
Truck SUV	Front Wheel Drive	1976													
Truck SUV	Front Wheel Drive	1977													
Truck SUV	Front Wheel Drive	1978													
Truck SUV	Front Wheel Drive	1979													
Truck SUV	Front Wheel Drive	1980													
Truck SUV	Front Wheel Drive	1981													
Truck SUV	Front Wheel Drive	1982													
Truck SUV	Front Wheel Drive	1983													
Truck SUV	Front Wheel Drive	1984													
Truck SUV	Front Wheel Drive	1985													
Truck SUV	Front Wheel Drive	1986													
Truck SUV	Front Wheel Drive	1987													
Truck SUV	Front Wheel Drive	1988													
Truck SUV	Front Wheel Drive	1989													
Truck SUV	Front Wheel Drive	1990													
Truck SUV	Front Wheel Drive	1991													
Truck SUV	Front Wheel Drive	1992													
Truck SUV	Front Wheel Drive	1993													
Truck SUV	Front Wheel Drive	1994													
Truck SUV	Front Wheel Drive	1995													
Truck SUV	Front Wheel Drive	1996													
Truck SUV	Front Wheel Drive	1997													
Truck SUV	Front Wheel Drive	1998													
Truck SUV	Front Wheel Drive	1999													
Truck SUV	Front Wheel Drive	2000													
Truck SUV	Front Wheel Drive	2001			100.0%			100.0%			82.4%		17.6%		17.6%
Truck SUV	Front Wheel Drive	2002			100.0%			100.0%					100.0%		100.0%
Truck SUV	Front Wheel Drive	2003		4.3%	95.7%			100.0%					100.0%		100.0%
Truck SUV	Front Wheel Drive	2004		1.6%	98.4%			100.0%			18.2%		81.8%		81.8%
Truck SUV	Front Wheel Drive	2005		1.8%	98.2%			100.0%					100.0%		100.0%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Hybrid	Vehicle Size		
				Small	Midsize	Large
Van	Four Wheel Drive	2007			84.1%	15.9%
Van	Four Wheel Drive	2008			87.4%	12.6%
Van	Four Wheel Drive	2009			73.2%	26.8%
Van	Four Wheel Drive	2010			65.2%	34.8%
Van	Four Wheel Drive	2011			89.7%	10.3%
Van	Four Wheel Drive	2012			85.4%	14.6%
Truck SUV	Front Wheel Drive	1975				
Truck SUV	Front Wheel Drive	1976				
Truck SUV	Front Wheel Drive	1977				
Truck SUV	Front Wheel Drive	1978				
Truck SUV	Front Wheel Drive	1979				
Truck SUV	Front Wheel Drive	1980				
Truck SUV	Front Wheel Drive	1981				
Truck SUV	Front Wheel Drive	1982				
Truck SUV	Front Wheel Drive	1983				
Truck SUV	Front Wheel Drive	1984				
Truck SUV	Front Wheel Drive	1985				
Truck SUV	Front Wheel Drive	1986				
Truck SUV	Front Wheel Drive	1987				
Truck SUV	Front Wheel Drive	1988				
Truck SUV	Front Wheel Drive	1989				
Truck SUV	Front Wheel Drive	1990				
Truck SUV	Front Wheel Drive	1991				
Truck SUV	Front Wheel Drive	1992				
Truck SUV	Front Wheel Drive	1993				
Truck SUV	Front Wheel Drive	1994				
Truck SUV	Front Wheel Drive	1995				
Truck SUV	Front Wheel Drive	1996				
Truck SUV	Front Wheel Drive	1997				
Truck SUV	Front Wheel Drive	1998				
Truck SUV	Front Wheel Drive	1999				
Truck SUV	Front Wheel Drive	2000				
Truck SUV	Front Wheel Drive	2001			82.4%	17.6%
Truck SUV	Front Wheel Drive	2002			100.0%	
Truck SUV	Front Wheel Drive	2003			99.6%	0.4%
Truck SUV	Front Wheel Drive	2004			91.6%	8.4%
Truck SUV	Front Wheel Drive	2005			91.4%	8.6%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP					
Truck SUV	Front Wheel Drive	2006	154	0.051	26.0	17.9	23.2	20.6	4239		188.6	209	9.7	1.111	0.0493	44.1	
Truck SUV	Front Wheel Drive	2007	214	0.065	26.0	17.7	23.5	20.6	4283		187.8	217	9.8	1.154	0.0504	44.2	
Truck SUV	Front Wheel Drive	2008	309	0.101	25.7	17.4	23.8	20.5	4472		196.0	238	9.5	1.214	0.0529	45.9	
Truck SUV	Front Wheel Drive	2009	300	0.175	24.9	16.7	23.4	20.0	4537		200.7	251	9.3	1.255	0.0549	45.3	
Truck SUV	Front Wheel Drive	2010	327	0.142	25.6	17.2	24.0	20.5	4496		201.8	250	9.2	1.239	0.0552	46.1	
Truck SUV	Front Wheel Drive	2011	423	0.138	25.8	17.3	24.2	20.7	4537		202.1	263	9.0	1.301	0.0575	46.8	
Truck SUV	Front Wheel Drive	2012	430	0.154	27.1	18.1	25.3	21.6	4391		194.6	252	9.0	1.306	0.0570	47.4	
Truck SUV	Rear Wheel Drive	1975	20	0.111	13.5	10.8	12.4	11.5	4570		357.0	166	12.9	0.463	0.0362	26.4	
Truck SUV	Rear Wheel Drive	1976	24	0.105	13.6	10.8	12.7	11.6	4628		356.2	156	13.9	0.435	0.0335	27.1	
Truck SUV	Rear Wheel Drive	1977	31	0.116	14.7	11.9	13.4	12.5	4612		351.8	160	13.6	0.451	0.0344	29.3	
Truck SUV	Rear Wheel Drive	1978	28	0.076	14.0	11.3	12.7	11.9	4650		348.3	160	13.4	0.463	0.0345	28.0	
Truck SUV	Rear Wheel Drive	1979	107	0.278	11.1	9.3	9.5	9.4	5161		367.3	151	15.7	0.408	0.0291	24.3	
Truck SUV	Rear Wheel Drive	1980	20	0.111	14.4	11.4	13.6	12.3	5058		342.3	162	14.2	0.473	0.0321	31.1	
Truck SUV	Rear Wheel Drive	1981	13	0.095	15.9	12.7	14.7	13.6	4910		326.1	162	13.9	0.498	0.0330	33.3	
Truck SUV	Rear Wheel Drive	1982	21	0.138	19.0	14.5	18.8	16.2	5064		333.5	150	15.4	0.453	0.0299	42.1	
Truck SUV	Rear Wheel Drive	1983	22	0.087	17.6	13.6	17.0	15.0	5119		349.5	154	15.2	0.445	0.0302	40.0	
Truck SUV	Rear Wheel Drive	1984	38	0.067	16.8	13.0	16.4	14.4	5013		345.7	156	14.7	0.454	0.0313	36.7	
Truck SUV	Rear Wheel Drive	1985	56	0.087	16.4	12.8	15.8	14.0	4917		341.1	159	14.2	0.467	0.0325	35.1	
Truck SUV	Rear Wheel Drive	1986	48	0.067	17.0	13.1	16.7	14.5	4960		344.8	160	14.2	0.466	0.0325	36.4	
Truck SUV	Rear Wheel Drive	1987	46	0.059	17.0	12.9	16.6	14.4	5280		343.8	194	12.9	0.564	0.0367	38.3	
Truck SUV	Rear Wheel Drive	1988	49	0.057	17.2	12.9	16.9	14.5	5338		345.9	186	13.4	0.536	0.0348	38.9	
Truck SUV	Rear Wheel Drive	1989	53	0.065	17.4	13.0	17.4	14.7	5249		334.9	194	12.8	0.586	0.0369	38.8	
Truck SUV	Rear Wheel Drive	1990	48	0.075	17.4	12.8	17.4	14.7	5332		339.1	202	12.5	0.602	0.0379	39.2	
Truck SUV	Rear Wheel Drive	1991	33	0.037	17.7	13.1	17.4	14.9	5188		318.8	196	12.5	0.635	0.0379	38.6	
Truck SUV	Rear Wheel Drive	1992	35	0.046	17.6	13.1	16.9	14.7	5061		302.6	194	12.3	0.670	0.0384	37.1	
Truck SUV	Rear Wheel Drive	1993	58	0.069	17.6	12.9	16.9	14.7	5192		316.6	199	12.3	0.649	0.0383	37.9	
Truck SUV	Rear Wheel Drive	1994	56	0.043	17.0	12.4	16.4	14.1	5500		350.0	210	12.4	0.600	0.0382	38.9	
Truck SUV	Rear Wheel Drive	1995	157	0.099	18.8	13.7	18.0	15.6	4761		275.4	173	12.8	0.652	0.0364	37.2	
Truck SUV	Rear Wheel Drive	1996	260	0.162	19.3	13.9	18.5	16.0	4652		262.6	191	11.8	0.747	0.0409	37.1	
Truck SUV	Rear Wheel Drive	1997	378	0.181	19.5	14.1	18.6	16.1	4629		265.3	198	11.4	0.764	0.0426	37.3	
Truck SUV	Rear Wheel Drive	1998	293	0.138	19.3	13.8	18.3	15.8	4678		271.6	214	10.7	0.815	0.0457	37.0	
Truck SUV	Rear Wheel Drive	1999	483	0.206	18.5	13.1	17.6	15.2	4932		297.2	231	10.5	0.795	0.0467	37.4	
Truck SUV	Rear Wheel Drive	2000	416	0.165	18.9	13.4	17.8	15.5	4935		282.5	228	10.6	0.826	0.0463	38.3	
Truck SUV	Rear Wheel Drive	2001	435	0.161	19.0	13.6	17.5	15.5	4960		281.1	242	10.2	0.873	0.0489	38.2	
Truck SUV	Rear Wheel Drive	2002	856	0.239	19.7	13.7	18.5	16.0	4842		271.0	244	9.9	0.907	0.0506	38.7	
Truck SUV	Rear Wheel Drive	2003	846	0.237	19.3	13.4	18.1	15.6	5111		281.9	255	10.0	0.914	0.0504	39.9	
Truck SUV	Rear Wheel Drive	2004	913	0.224	19.5	13.5	18.1	15.8	5012		284.4	258	9.8	0.913	0.0519	39.4	

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Cu-Ft-Ton-MPG	Transmission			Fuel Metering				Number of Valves				VVT
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five	
Truck SUV	Front Wheel Drive	2006		1.1%	85.7%	13.2%		100.0%					100.0%		100.0%
Truck SUV	Front Wheel Drive	2007		2.4%	74.8%	22.8%		100.0%					100.0%		99.3%
Truck SUV	Front Wheel Drive	2008		1.6%	81.6%	16.8%		100.0%					100.0%		97.6%
Truck SUV	Front Wheel Drive	2009		0.9%	90.8%	8.3%	20.2%	79.8%					100.0%		83.9%
Truck SUV	Front Wheel Drive	2010		0.8%	86.7%	9.6%	35.7%	64.3%					100.0%		86.7%
Truck SUV	Front Wheel Drive	2011		0.7%	88.9%	10.4%	40.1%	59.9%					100.0%		100.0%
Truck SUV	Front Wheel Drive	2012		1.3%	87.0%	11.7%	27.0%	73.0%					100.0%		100.0%
Truck SUV	Rear Wheel Drive	1975		15.1%											
Truck SUV	Rear Wheel Drive	1976		20.1%											
Truck SUV	Rear Wheel Drive	1977		17.5%											
Truck SUV	Rear Wheel Drive	1978		24.2%											
Truck SUV	Rear Wheel Drive	1979		17.2%	1.5%										
Truck SUV	Rear Wheel Drive	1980		15.1%	84.1%					0.0%					
Truck SUV	Rear Wheel Drive	1981		2.3%	97.7%										
Truck SUV	Rear Wheel Drive	1982			92.4%					37.9%					
Truck SUV	Rear Wheel Drive	1983			95.1%					28.7%					
Truck SUV	Rear Wheel Drive	1984			88.8%					13.7%					
Truck SUV	Rear Wheel Drive	1985			70.4%					6.5%					
Truck SUV	Rear Wheel Drive	1986			91.0%					5.2%					
Truck SUV	Rear Wheel Drive	1987			91.4%				76.8%	2.7%					
Truck SUV	Rear Wheel Drive	1988			94.4%				96.6%	2.2%					
Truck SUV	Rear Wheel Drive	1989		3.5%	90.6%				98.2%	1.8%					
Truck SUV	Rear Wheel Drive	1990		1.6%	88.4%			5.1%	93.2%	1.7%					
Truck SUV	Rear Wheel Drive	1991		5.5%	89.1%			17.9%	79.9%	2.2%					
Truck SUV	Rear Wheel Drive	1992		8.0%	91.9%			30.0%	70.0%						
Truck SUV	Rear Wheel Drive	1993		4.7%	95.3%			21.0%	79.0%						
Truck SUV	Rear Wheel Drive	1994			100.0%				100.0%		100.0%				
Truck SUV	Rear Wheel Drive	1995		12.3%	87.7%			58.9%	41.1%		100.0%				
Truck SUV	Rear Wheel Drive	1996		5.3%	94.7%			100.0%			77.6%		22.4%		
Truck SUV	Rear Wheel Drive	1997		3.7%	96.3%			100.0%			73.8%		26.2%		
Truck SUV	Rear Wheel Drive	1998		1.1%	98.9%			100.0%			68.4%	13.5%	18.2%		
Truck SUV	Rear Wheel Drive	1999		0.6%	99.4%			100.0%			79.0%	7.4%	13.6%		
Truck SUV	Rear Wheel Drive	2000		0.4%	99.6%			100.0%			75.4%	8.6%	16.0%		1.3%
Truck SUV	Rear Wheel Drive	2001		0.4%	99.6%			100.0%			68.9%		31.1%		10.6%
Truck SUV	Rear Wheel Drive	2002		0.6%	99.4%			100.0%			70.4%		29.6%		17.7%
Truck SUV	Rear Wheel Drive	2003		0.0%	100.0%			100.0%			62.2%		37.8%		23.3%
Truck SUV	Rear Wheel Drive	2004		0.3%	99.7%			100.0%			58.4%		41.6%		30.1%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Hybrid	Vehicle Size		
				Small	Midsize	Large
Truck SUV	Front Wheel Drive	2006	13.2%		93.5%	6.5%
Truck SUV	Front Wheel Drive	2007	5.5%		72.6%	27.4%
Truck SUV	Front Wheel Drive	2008	1.9%		55.2%	44.8%
Truck SUV	Front Wheel Drive	2009	0.1%		44.6%	55.4%
Truck SUV	Front Wheel Drive	2010			34.9%	65.1%
Truck SUV	Front Wheel Drive	2011			37.7%	62.3%
Truck SUV	Front Wheel Drive	2012			35.0%	65.0%
Truck SUV	Rear Wheel Drive	1975			52.7%	47.3%
Truck SUV	Rear Wheel Drive	1976		5.1%	44.0%	51.0%
Truck SUV	Rear Wheel Drive	1977			53.7%	46.3%
Truck SUV	Rear Wheel Drive	1978			48.5%	51.5%
Truck SUV	Rear Wheel Drive	1979			14.5%	85.5%
Truck SUV	Rear Wheel Drive	1980			19.0%	81.0%
Truck SUV	Rear Wheel Drive	1981			18.3%	81.7%
Truck SUV	Rear Wheel Drive	1982			25.1%	74.9%
Truck SUV	Rear Wheel Drive	1983			4.9%	95.1%
Truck SUV	Rear Wheel Drive	1984			11.2%	88.8%
Truck SUV	Rear Wheel Drive	1985			29.6%	70.4%
Truck SUV	Rear Wheel Drive	1986			18.4%	81.6%
Truck SUV	Rear Wheel Drive	1987			20.5%	79.5%
Truck SUV	Rear Wheel Drive	1988			16.3%	83.7%
Truck SUV	Rear Wheel Drive	1989			21.9%	78.1%
Truck SUV	Rear Wheel Drive	1990			15.1%	84.9%
Truck SUV	Rear Wheel Drive	1991			23.3%	76.7%
Truck SUV	Rear Wheel Drive	1992			30.1%	69.9%
Truck SUV	Rear Wheel Drive	1993			21.0%	79.0%
Truck SUV	Rear Wheel Drive	1994				100.0%
Truck SUV	Rear Wheel Drive	1995			58.9%	41.1%
Truck SUV	Rear Wheel Drive	1996			77.5%	22.5%
Truck SUV	Rear Wheel Drive	1997			60.7%	39.3%
Truck SUV	Rear Wheel Drive	1998			30.9%	69.1%
Truck SUV	Rear Wheel Drive	1999			27.7%	72.3%
Truck SUV	Rear Wheel Drive	2000			22.5%	77.5%
Truck SUV	Rear Wheel Drive	2001		1.4%	22.2%	76.4%
Truck SUV	Rear Wheel Drive	2002		0.6%	19.5%	79.8%
Truck SUV	Rear Wheel Drive	2003		0.3%	23.7%	76.0%
Truck SUV	Rear Wheel Drive	2004		0.5%	27.8%	71.7%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP					
Truck SUV	Rear Wheel Drive	2005	650	0.199	19.9	13.6	18.6	16.0	5083		279.8	266	9.7	0.954	0.0523	40.8	
Truck SUV	Rear Wheel Drive	2006	532	0.177	20.0	13.7	18.9	16.2	4993		273.2	260	9.7	0.954	0.0521	40.4	
Truck SUV	Rear Wheel Drive	2007	603	0.182	20.5	14.0	19.3	16.6	5293		288.0	276	9.7	0.961	0.0523	43.9	
Truck SUV	Rear Wheel Drive	2008	436	0.142	20.7	14.0	19.6	16.8	5197		283.9	282	9.5	0.991	0.0542	43.5	
Truck SUV	Rear Wheel Drive	2009	129	0.075	21.0	14.2	19.9	17.0	5339		293.0	287	9.5	0.979	0.0535	45.3	
Truck SUV	Rear Wheel Drive	2010	187	0.081	21.5	14.5	20.3	17.4	5288		282.9	274	9.8	0.973	0.0518	45.8	
Truck SUV	Rear Wheel Drive	2011	273	0.089	22.2	15.0	20.8	17.8	5331		281.5	299	9.1	1.078	0.0561	47.5	
Truck SUV	Rear Wheel Drive	2012	229	0.082	22.4	15.1	21.1	18.0	5403		292.9	309	9.0	1.072	0.0575	48.7	
Truck SUV	Four Wheel Drive	1975	158	0.889	12.9	10.6	11.5	11.0	4169		329.0	146	13.2	0.440	0.0361	22.6	
Truck SUV	Four Wheel Drive	1976	208	0.895	13.9	11.3	12.5	11.8	4293		336.8	140	14.0	0.412	0.0332	25.1	
Truck SUV	Four Wheel Drive	1977	234	0.884	15.2	12.3	13.7	12.9	4201		334.7	143	13.5	0.425	0.0345	26.9	
Truck SUV	Four Wheel Drive	1978	336	0.924	14.5	11.7	13.2	12.3	4251		341.7	149	13.2	0.433	0.0353	26.0	
Truck SUV	Four Wheel Drive	1979	278	0.722	13.0	10.8	11.4	11.1	4329		325.0	143	13.9	0.442	0.0336	23.9	
Truck SUV	Four Wheel Drive	1980	164	0.889	15.7	12.6	14.2	13.3	4135		288.6	127	14.8	0.451	0.0306	27.6	
Truck SUV	Four Wheel Drive	1981	123	0.905	16.9	13.5	15.6	14.4	4135		286.3	128	14.5	0.456	0.0313	29.8	
Truck SUV	Four Wheel Drive	1982	129	0.862	17.0	13.6	15.8	14.5	4403		300.5	130	15.1	0.443	0.0300	32.7	
Truck SUV	Four Wheel Drive	1983	233	0.913	18.6	14.6	17.8	15.9	4188		257.4	124	15.1	0.513	0.0300	33.8	
Truck SUV	Four Wheel Drive	1984	531	0.933	19.2	15.1	18.2	16.3	3979		223.1	119	15.1	0.561	0.0299	33.0	
Truck SUV	Four Wheel Drive	1985	592	0.913	19.7	15.4	19.1	16.8	4014		210.4	120	15.1	0.594	0.0297	34.2	
Truck SUV	Four Wheel Drive	1986	666	0.933	20.3	15.9	19.3	17.3	3886		200.3	125	14.2	0.666	0.0323	33.8	
Truck SUV	Four Wheel Drive	1987	733	0.941	20.7	16.0	19.7	17.5	3795		204.1	134	13.4	0.688	0.0352	33.3	
Truck SUV	Four Wheel Drive	1988	810	0.943	20.4	15.7	19.3	17.2	3819		214.3	142	12.9	0.691	0.0370	32.9	
Truck SUV	Four Wheel Drive	1989	765	0.935	19.8	15.2	18.7	16.7	4005		237.3	153	12.5	0.671	0.0385	33.6	
Truck SUV	Four Wheel Drive	1990	594	0.925	19.8	15.0	18.8	16.6	3998		226.3	151	12.6	0.701	0.0381	33.2	
Truck SUV	Four Wheel Drive	1991	839	0.963	20.1	15.1	19.2	16.8	4117		230.0	160	12.3	0.712	0.0391	34.7	
Truck SUV	Four Wheel Drive	1992	726	0.954	19.5	14.5	18.6	16.3	4162		231.9	168	11.9	0.741	0.0409	33.9	
Truck SUV	Four Wheel Drive	1993	780	0.931	19.7	14.6	18.7	16.4	4267		238.7	177	11.6	0.761	0.0421	35.0	
Truck SUV	Four Wheel Drive	1994	1235	0.957	19.4	14.4	18.3	16.1	4278		240.2	179	11.6	0.763	0.0422	34.5	
Truck SUV	Four Wheel Drive	1995	1439	0.901	19.4	14.3	18.2	16.0	4275		241.2	178	11.6	0.761	0.0420	34.3	
Truck SUV	Four Wheel Drive	1996	1343	0.838	19.7	14.3	18.7	16.3	4335		258.1	188	11.3	0.744	0.0436	35.3	
Truck SUV	Four Wheel Drive	1997	1711	0.819	19.6	14.2	18.4	16.1	4427		253.2	189	11.4	0.765	0.0427	35.7	
Truck SUV	Four Wheel Drive	1998	1834	0.862	19.7	14.2	18.6	16.2	4414		249.4	188	11.4	0.781	0.0428	35.8	
Truck SUV	Four Wheel Drive	1999	1859	0.794	20.0	14.3	18.6	16.3	4411		241.3	197	11.0	0.847	0.0448	36.0	
Truck SUV	Four Wheel Drive	2000	2110	0.835	19.8	14.1	18.3	16.1	4536		247.4	202	11.0	0.842	0.0446	36.5	
Truck SUV	Four Wheel Drive	2001	2072	0.765	20.2	14.4	18.5	16.4	4472		231.9	208	10.6	0.930	0.0466	36.6	
Truck SUV	Four Wheel Drive	2002	2672	0.745	20.2	14.2	18.6	16.3	4585		237.8	224	10.2	0.962	0.0489	37.4	
Truck SUV	Four Wheel Drive	2003	2631	0.737	20.5	14.3	19.0	16.6	4670		239.3	228	10.2	0.978	0.0489	38.6	

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Cu-Ft-Ton-MPG	Transmission			Fuel Metering				Number of Valves				VVT
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five	
Truck SUV	Rear Wheel Drive	2005		0.5%	99.5%			100.0%			46.7%	10.3%	43.0%		41.9%
Truck SUV	Rear Wheel Drive	2006		0.4%	99.6%			100.0%			39.5%	13.3%	47.2%		53.8%
Truck SUV	Rear Wheel Drive	2007		0.2%	99.8%			99.9%		0.1%	66.0%	7.0%	27.0%		32.8%
Truck SUV	Rear Wheel Drive	2008		0.4%	98.7%	0.9%		99.9%		0.1%	54.9%	8.8%	36.3%		38.0%
Truck SUV	Rear Wheel Drive	2009		0.2%	97.8%	2.0%		100.0%			77.4%	5.0%	17.7%		28.6%
Truck SUV	Rear Wheel Drive	2010		0.1%	99.6%	0.3%		100.0%			57.2%	12.4%	30.5%		57.7%
Truck SUV	Rear Wheel Drive	2011		0.1%	99.7%	0.2%	2.3%	97.7%			45.6%	8.1%	46.4%		88.8%
Truck SUV	Rear Wheel Drive	2012		0.1%	96.5%	3.4%	0.6%	99.4%			53.1%	12.4%	34.5%		92.4%
Truck SUV	Four Wheel Drive	1975		42.9%											
Truck SUV	Four Wheel Drive	1976		33.6%											
Truck SUV	Four Wheel Drive	1977		34.6%											
Truck SUV	Four Wheel Drive	1978		32.8%											
Truck SUV	Four Wheel Drive	1979		39.2%						0.3%					
Truck SUV	Four Wheel Drive	1980		47.2%	18.8%					2.6%					
Truck SUV	Four Wheel Drive	1981		45.0%	35.1%										
Truck SUV	Four Wheel Drive	1982		37.0%	37.4%					13.2%					
Truck SUV	Four Wheel Drive	1983		37.0%	48.2%					5.6%					
Truck SUV	Four Wheel Drive	1984		32.5%	37.4%					1.7%					
Truck SUV	Four Wheel Drive	1985		32.3%	55.6%			4.8%	1.1%	1.2%					
Truck SUV	Four Wheel Drive	1986		41.7%	50.9%			27.8%	22.1%	1.4%					
Truck SUV	Four Wheel Drive	1987		42.1%	48.5%			35.1%	36.3%	0.3%					
Truck SUV	Four Wheel Drive	1988		36.6%	55.3%			50.2%	31.1%	0.2%					
Truck SUV	Four Wheel Drive	1989		27.5%	63.8%			49.5%	42.9%	0.2%					
Truck SUV	Four Wheel Drive	1990		31.3%	65.0%			60.9%	33.3%	0.2%					
Truck SUV	Four Wheel Drive	1991		22.4%	76.0%			63.9%	35.5%	0.1%					
Truck SUV	Four Wheel Drive	1992		22.4%	76.7%			76.7%	23.3%						
Truck SUV	Four Wheel Drive	1993		20.2%	78.8%			87.5%	12.5%						
Truck SUV	Four Wheel Drive	1994		15.9%	84.1%			88.5%	11.5%		86.0%	5.6%	8.4%		
Truck SUV	Four Wheel Drive	1995		15.3%	84.7%			87.8%	12.2%		83.2%		16.8%		
Truck SUV	Four Wheel Drive	1996		6.2%	93.8%			100.0%		0.0%	88.2%		11.8%		
Truck SUV	Four Wheel Drive	1997		11.0%	89.0%			100.0%		0.0%	82.5%		17.5%		
Truck SUV	Four Wheel Drive	1998		8.5%	91.5%			100.0%		0.0%	79.6%		20.4%		
Truck SUV	Four Wheel Drive	1999		7.3%	92.7%			100.0%			72.2%	0.9%	26.9%		3.7%
Truck SUV	Four Wheel Drive	2000		5.8%	94.2%			100.0%			77.7%		22.3%		2.8%
Truck SUV	Four Wheel Drive	2001		4.8%	95.2%			100.0%			56.5%	1.9%	41.5%		14.9%
Truck SUV	Four Wheel Drive	2002		4.1%	95.8%	0.1%		100.0%			52.4%	1.6%	46.0%		25.7%
Truck SUV	Four Wheel Drive	2003		2.9%	95.4%	1.8%		100.0%			45.7%	1.4%	52.9%		34.3%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Hybrid	Vehicle Size		
				Small	Midsize	Large
Truck SUV	Rear Wheel Drive	2005		0.7%	26.9%	72.4%
Truck SUV	Rear Wheel Drive	2006			37.3%	62.7%
Truck SUV	Rear Wheel Drive	2007		1.5%	20.8%	77.7%
Truck SUV	Rear Wheel Drive	2008	0.9%	1.3%	23.4%	75.3%
Truck SUV	Rear Wheel Drive	2009	2.0%	1.9%	20.6%	77.4%
Truck SUV	Rear Wheel Drive	2010	0.3%	1.5%	25.9%	72.6%
Truck SUV	Rear Wheel Drive	2011	0.2%		19.1%	80.9%
Truck SUV	Rear Wheel Drive	2012	3.4%		14.8%	85.2%
Truck SUV	Four Wheel Drive	1975		30.0%	69.1%	0.9%
Truck SUV	Four Wheel Drive	1976		24.7%	73.5%	1.8%
Truck SUV	Four Wheel Drive	1977		24.3%	74.3%	1.4%
Truck SUV	Four Wheel Drive	1978		23.1%	75.3%	1.6%
Truck SUV	Four Wheel Drive	1979		32.8%	60.9%	6.3%
Truck SUV	Four Wheel Drive	1980		37.0%	58.7%	4.3%
Truck SUV	Four Wheel Drive	1981		34.7%	62.4%	2.9%
Truck SUV	Four Wheel Drive	1982		24.5%	70.7%	4.8%
Truck SUV	Four Wheel Drive	1983		18.3%	77.7%	4.0%
Truck SUV	Four Wheel Drive	1984		26.7%	70.5%	2.8%
Truck SUV	Four Wheel Drive	1985		19.5%	77.5%	3.0%
Truck SUV	Four Wheel Drive	1986		26.5%	70.6%	2.9%
Truck SUV	Four Wheel Drive	1987		31.6%	65.6%	2.8%
Truck SUV	Four Wheel Drive	1988		30.8%	65.7%	3.5%
Truck SUV	Four Wheel Drive	1989		25.3%	70.5%	4.2%
Truck SUV	Four Wheel Drive	1990		27.4%	67.5%	5.2%
Truck SUV	Four Wheel Drive	1991		10.6%	85.9%	3.5%
Truck SUV	Four Wheel Drive	1992		11.1%	81.9%	7.0%
Truck SUV	Four Wheel Drive	1993		12.2%	77.1%	10.7%
Truck SUV	Four Wheel Drive	1994		10.2%	80.6%	9.2%
Truck SUV	Four Wheel Drive	1995		11.4%	77.1%	11.5%
Truck SUV	Four Wheel Drive	1996		5.9%	80.5%	13.6%
Truck SUV	Four Wheel Drive	1997		19.9%	56.1%	24.0%
Truck SUV	Four Wheel Drive	1998		12.7%	63.4%	24.0%
Truck SUV	Four Wheel Drive	1999		13.4%	65.1%	21.5%
Truck SUV	Four Wheel Drive	2000		12.7%	61.0%	26.2%
Truck SUV	Four Wheel Drive	2001		11.9%	54.2%	34.0%
Truck SUV	Four Wheel Drive	2002		8.9%	41.9%	49.1%
Truck SUV	Four Wheel Drive	2003		7.7%	51.3%	41.0%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP					
Truck SUV	Four Wheel Drive	2004	3048	0.748	20.6	14.2	19.1	16.6	4705		244.7	236	10.0	0.988	0.0502	39.0	
Truck SUV	Four Wheel Drive	2005	2525	0.772	20.9	14.4	19.2	16.8	4702		237.8	240	9.9	1.030	0.0509	39.5	
Truck SUV	Four Wheel Drive	2006	2320	0.772	21.5	14.8	19.7	17.2	4683		231.2	237	9.9	1.040	0.0504	40.5	
Truck SUV	Four Wheel Drive	2007	2497	0.753	22.1	15.2	20.3	17.7	4722		233.4	249	9.7	1.087	0.0524	42.0	
Truck SUV	Four Wheel Drive	2008	2327	0.757	22.8	15.6	20.8	18.2	4673		223.9	245	9.7	1.111	0.0521	42.7	
Truck SUV	Four Wheel Drive	2009	1284	0.750	24.3	16.6	22.2	19.4	4470		205.3	238	9.6	1.169	0.0528	43.5	
Truck SUV	Four Wheel Drive	2010	1792	0.777	24.9	17.0	22.6	19.8	4490		206.7	239	9.6	1.169	0.0529	44.8	
Truck SUV	Four Wheel Drive	2011	2373	0.773	25.0	17.0	22.9	20.0	4612		212.4	251	9.5	1.200	0.0540	46.1	
Truck SUV	Four Wheel Drive	2012	2138	0.765	25.4	17.2	23.2	20.2	4558		210.6	258	9.1	1.240	0.0561	46.2	
Pickup	Front Wheel Drive	1975															
Pickup	Front Wheel Drive	1976															
Pickup	Front Wheel Drive	1977															
Pickup	Front Wheel Drive	1978															
Pickup	Front Wheel Drive	1979															
Pickup	Front Wheel Drive	1980	26	0.018	31.3	24.8	29.4	26.7	2265		94.0	65	15.8	0.685	0.0286	32.0	
Pickup	Front Wheel Drive	1981	33	0.023	36.9	29.1	34.8	31.4	2318		99.2	59	16.9	0.592	0.0253	37.1	
Pickup	Front Wheel Drive	1982	32	0.022	33.0	25.8	31.7	28.1	2439		118.9	72	15.2	0.605	0.0295	35.1	
Pickup	Front Wheel Drive	1983	31	0.019	31.1	23.8	31.0	26.5	2604		133.1	89	13.5	0.665	0.0341	34.8	
Pickup	Front Wheel Drive	1984	12	0.006	28.1	21.2	28.6	24.0	2640		135.0	90	13.3	0.667	0.0342	31.7	
Pickup	Front Wheel Drive	1985															
Pickup	Front Wheel Drive	1986															
Pickup	Front Wheel Drive	1987	0	0.000	20.0	14.5	21.4	17.0	4000		249.0	135	13.7	0.542	0.0338	34.1	
Pickup	Front Wheel Drive	1988	0	0.000	20.8	15.2	21.9	17.7	4000		275.0	155	12.2	0.564	0.0388	35.4	
Pickup	Front Wheel Drive	1989															
Pickup	Front Wheel Drive	1990															
Pickup	Front Wheel Drive	1991															
Pickup	Front Wheel Drive	1992															
Pickup	Front Wheel Drive	1993	0	0.000	20.9	14.4	22.7	17.6	4500		299.0	200	10.9	0.669	0.0444	39.7	
Pickup	Front Wheel Drive	1994															
Pickup	Front Wheel Drive	1995															
Pickup	Front Wheel Drive	1996															
Pickup	Front Wheel Drive	1997															
Pickup	Front Wheel Drive	1998															
Pickup	Front Wheel Drive	1999															
Pickup	Front Wheel Drive	2000															
Pickup	Front Wheel Drive	2001															
Pickup	Front Wheel Drive	2002															

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Cu-Ft-Ton-MPG	Transmission			Fuel Metering				Number of Valves				VVT
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five	
Truck SUV	Four Wheel Drive	2004		2.8%	95.8%	1.4%		100.0%		0.0%	44.4%	0.6%	54.4%	0.6%	39.3%
Truck SUV	Four Wheel Drive	2005		2.7%	95.4%	1.9%		99.7%		0.3%	34.3%	2.8%	62.6%	0.3%	50.2%
Truck SUV	Four Wheel Drive	2006		2.9%	91.9%	5.1%		99.7%		0.3%	30.0%	5.5%	64.3%	0.2%	59.1%
Truck SUV	Four Wheel Drive	2007		2.5%	91.8%	5.7%		99.7%		0.3%	34.8%	0.8%	64.4%		55.7%
Truck SUV	Four Wheel Drive	2008		2.0%	91.6%	6.4%	2.6%	96.8%		0.6%	27.0%	0.6%	72.4%		59.7%
Truck SUV	Four Wheel Drive	2009		1.3%	86.6%	12.1%	5.4%	93.9%		0.7%	15.8%	0.4%	83.7%		69.7%
Truck SUV	Four Wheel Drive	2010		2.2%	85.5%	11.8%	9.1%	90.1%		0.8%	16.2%	1.3%	82.5%		85.0%
Truck SUV	Four Wheel Drive	2011		1.4%	85.7%	12.9%	12.1%	86.8%		1.1%	15.9%	1.3%	82.8%		91.7%
Truck SUV	Four Wheel Drive	2012		2.3%	85.6%	12.1%	15.3%	83.7%		1.0%	11.4%	1.3%	87.3%		96.2%
Pickup	Front Wheel Drive	1975													
Pickup	Front Wheel Drive	1976													
Pickup	Front Wheel Drive	1977													
Pickup	Front Wheel Drive	1978													
Pickup	Front Wheel Drive	1979													
Pickup	Front Wheel Drive	1980		94.0%					57.3%	42.7%					
Pickup	Front Wheel Drive	1981		100.0%					27.2%	72.8%					
Pickup	Front Wheel Drive	1982		77.4%					10.7%	34.0%					
Pickup	Front Wheel Drive	1983		55.7%					2.8%	2.7%					
Pickup	Front Wheel Drive	1984		71.0%											
Pickup	Front Wheel Drive	1985													
Pickup	Front Wheel Drive	1986													
Pickup	Front Wheel Drive	1987			100.0%				100.0%						
Pickup	Front Wheel Drive	1988			100.0%				100.0%						
Pickup	Front Wheel Drive	1989													
Pickup	Front Wheel Drive	1990													
Pickup	Front Wheel Drive	1991													
Pickup	Front Wheel Drive	1992													
Pickup	Front Wheel Drive	1993			100.0%			100.0%							
Pickup	Front Wheel Drive	1994													
Pickup	Front Wheel Drive	1995													
Pickup	Front Wheel Drive	1996													
Pickup	Front Wheel Drive	1997													
Pickup	Front Wheel Drive	1998													
Pickup	Front Wheel Drive	1999													
Pickup	Front Wheel Drive	2000													
Pickup	Front Wheel Drive	2001													
Pickup	Front Wheel Drive	2002													

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Hybrid	Vehicle Size		
				Small	Midsize	Large
Truck SUV	Four Wheel Drive	2004		6.8%	53.9%	39.3%
Truck SUV	Four Wheel Drive	2005	0.3%	6.7%	53.0%	40.3%
Truck SUV	Four Wheel Drive	2006	3.1%	5.7%	55.2%	39.1%
Truck SUV	Four Wheel Drive	2007	1.4%	5.4%	50.4%	44.2%
Truck SUV	Four Wheel Drive	2008	2.7%	6.2%	55.8%	38.0%
Truck SUV	Four Wheel Drive	2009	1.9%	4.2%	62.7%	33.1%
Truck SUV	Four Wheel Drive	2010	1.9%	5.3%	64.0%	30.7%
Truck SUV	Four Wheel Drive	2011	0.8%		61.6%	38.4%
Truck SUV	Four Wheel Drive	2012	1.7%		55.9%	44.1%
Pickup	Front Wheel Drive	1975				
Pickup	Front Wheel Drive	1976				
Pickup	Front Wheel Drive	1977				
Pickup	Front Wheel Drive	1978				
Pickup	Front Wheel Drive	1979				
Pickup	Front Wheel Drive	1980		100.0%		
Pickup	Front Wheel Drive	1981		100.0%		
Pickup	Front Wheel Drive	1982		100.0%		
Pickup	Front Wheel Drive	1983		100.0%		
Pickup	Front Wheel Drive	1984		100.0%		
Pickup	Front Wheel Drive	1985				
Pickup	Front Wheel Drive	1986				
Pickup	Front Wheel Drive	1987				100.0%
Pickup	Front Wheel Drive	1988				100.0%
Pickup	Front Wheel Drive	1989				
Pickup	Front Wheel Drive	1990				
Pickup	Front Wheel Drive	1991				
Pickup	Front Wheel Drive	1992				
Pickup	Front Wheel Drive	1993				100.0%
Pickup	Front Wheel Drive	1994				
Pickup	Front Wheel Drive	1995				
Pickup	Front Wheel Drive	1996				
Pickup	Front Wheel Drive	1997				
Pickup	Front Wheel Drive	1998				
Pickup	Front Wheel Drive	1999				
Pickup	Front Wheel Drive	2000				
Pickup	Front Wheel Drive	2001				
Pickup	Front Wheel Drive	2002				

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP					
Pickup	Front Wheel Drive	2003															
Pickup	Front Wheel Drive	2004															
Pickup	Front Wheel Drive	2005															
Pickup	Front Wheel Drive	2006															
Pickup	Front Wheel Drive	2007															
Pickup	Front Wheel Drive	2008															
Pickup	Front Wheel Drive	2009															
Pickup	Front Wheel Drive	2010															
Pickup	Front Wheel Drive	2011															
Pickup	Front Wheel Drive	2012															
Pickup	Rear Wheel Drive	1975	1161	0.865	14.5	11.4	13.8	12.4	3885		298.7	139	13.4	0.499	0.0355	24.6	
Pickup	Rear Wheel Drive	1976	1476	0.791	15.4	12.3	14.2	13.1	3948		305.0	136	13.8	0.476	0.0343	26.5	
Pickup	Rear Wheel Drive	1977	1593	0.786	16.8	13.5	15.3	14.2	3928		298.9	142	13.2	0.508	0.0359	28.7	
Pickup	Rear Wheel Drive	1978	1656	0.730	16.7	13.6	15.0	14.2	3901		290.9	138	13.3	0.506	0.0352	28.6	
Pickup	Rear Wheel Drive	1979	1930	0.874	15.5	12.7	13.8	13.2	4170		290.9	136	14.3	0.495	0.0327	28.1	
Pickup	Rear Wheel Drive	1980	1108	0.771	20.1	16.0	18.6	17.1	3689		235.0	117	14.3	0.545	0.0318	31.8	
Pickup	Rear Wheel Drive	1981	1164	0.808	21.1	16.7	19.6	17.9	3708		243.3	117	14.4	0.511	0.0316	33.7	
Pickup	Rear Wheel Drive	1982	1154	0.801	22.0	17.4	20.6	18.7	3595		229.6	117	14.1	0.542	0.0326	34.2	
Pickup	Rear Wheel Drive	1983	1239	0.761	22.6	17.9	21.3	19.2	3463		210.3	112	14.3	0.564	0.0320	34.0	
Pickup	Rear Wheel Drive	1984	1526	0.747	22.1	17.4	20.9	18.8	3519		212.4	112	14.4	0.562	0.0318	33.6	
Pickup	Rear Wheel Drive	1985	1550	0.746	21.9	17.3	20.6	18.7	3527		218.5	121	13.6	0.585	0.0340	33.5	
Pickup	Rear Wheel Drive	1986	1895	0.748	23.0	18.1	21.6	19.5	3439		201.6	117	13.6	0.619	0.0340	33.9	
Pickup	Rear Wheel Drive	1987	1598	0.745	23.5	18.2	22.2	19.9	3386		195.2	119	13.4	0.635	0.0348	34.0	
Pickup	Rear Wheel Drive	1988	1760	0.716	22.5	17.3	21.4	19.0	3578		219.7	130	13.1	0.620	0.0360	34.2	
Pickup	Rear Wheel Drive	1989	1586	0.711	22.2	16.9	21.0	18.7	3633		226.3	137	12.7	0.630	0.0373	34.1	
Pickup	Rear Wheel Drive	1990	1322	0.721	21.7	16.4	20.7	18.2	3759		236.3	146	12.4	0.651	0.0386	34.6	
Pickup	Rear Wheel Drive	1991	1444	0.752	22.9	17.1	21.8	19.1	3608		221.8	139	12.4	0.656	0.0383	34.7	
Pickup	Rear Wheel Drive	1992	1356	0.737	21.9	16.3	21.1	18.3	3810		234.8	145	12.5	0.645	0.0380	35.1	
Pickup	Rear Wheel Drive	1993	1449	0.724	22.2	16.3	21.2	18.5	3825		233.9	150	12.2	0.668	0.0391	35.4	
Pickup	Rear Wheel Drive	1994	1886	0.707	22.3	16.3	21.1	18.4	3861		234.7	156	12.0	0.695	0.0403	35.8	
Pickup	Rear Wheel Drive	1995	1521	0.670	21.8	15.9	20.7	18.0	3960		239.0	158	12.0	0.703	0.0399	36.1	
Pickup	Rear Wheel Drive	1996	1382	0.707	22.0	15.9	20.8	18.1	3992		234.9	167	11.7	0.744	0.0416	36.5	
Pickup	Rear Wheel Drive	1997	1573	0.653	21.9	15.7	20.7	18.0	4123		243.6	184	11.2	0.770	0.0440	37.3	
Pickup	Rear Wheel Drive	1998	1574	0.652	22.3	15.9	21.0	18.2	4021		231.2	177	11.3	0.788	0.0436	36.9	
Pickup	Rear Wheel Drive	1999	1392	0.547	21.5	15.3	20.3	17.6	4113		240.9	186	11.0	0.787	0.0448	36.3	
Pickup	Rear Wheel Drive	2000	1609	0.616	21.6	15.3	20.1	17.5	4112		237.1	190	11.0	0.810	0.0455	36.1	
Pickup	Rear Wheel Drive	2001	1544	0.613	20.7	14.6	19.2	16.8	4341		251.9	204	10.7	0.818	0.0464	36.5	

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Cu-Ft-Ton-MPG	Transmission			Fuel Metering				Number of Valves				VVT
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five	
Pickup	Front Wheel Drive	2003													
Pickup	Front Wheel Drive	2004													
Pickup	Front Wheel Drive	2005													
Pickup	Front Wheel Drive	2006													
Pickup	Front Wheel Drive	2007													
Pickup	Front Wheel Drive	2008													
Pickup	Front Wheel Drive	2009													
Pickup	Front Wheel Drive	2010													
Pickup	Front Wheel Drive	2011													
Pickup	Front Wheel Drive	2012													
Pickup	Rear Wheel Drive	1975		41.5%											
Pickup	Rear Wheel Drive	1976		40.3%											
Pickup	Rear Wheel Drive	1977		39.0%											
Pickup	Rear Wheel Drive	1978		40.0%						1.6%					
Pickup	Rear Wheel Drive	1979		36.3%	1.5%					2.8%					
Pickup	Rear Wheel Drive	1980		55.8%	23.4%					4.3%					
Pickup	Rear Wheel Drive	1981		52.6%	31.0%					6.2%					
Pickup	Rear Wheel Drive	1982		49.4%	32.9%					9.8%					
Pickup	Rear Wheel Drive	1983		53.3%	31.1%				0.0%	4.3%					
Pickup	Rear Wheel Drive	1984		52.1%	32.9%			1.3%		2.7%					
Pickup	Rear Wheel Drive	1985		47.9%	36.2%			11.0%	5.7%	1.1%					
Pickup	Rear Wheel Drive	1986		56.7%	30.8%			18.6%	17.5%	0.6%					
Pickup	Rear Wheel Drive	1987		58.0%	28.4%			23.7%	33.1%	0.3%					
Pickup	Rear Wheel Drive	1988		51.5%	37.9%			30.1%	48.7%	0.1%					
Pickup	Rear Wheel Drive	1989		52.5%	41.5%			34.0%	52.4%	0.1%					
Pickup	Rear Wheel Drive	1990		46.2%	49.1%			52.0%	39.6%	0.1%					
Pickup	Rear Wheel Drive	1991		53.7%	44.9%			46.1%	49.6%	0.1%					
Pickup	Rear Wheel Drive	1992		48.3%	50.6%			57.4%	38.1%	0.1%					
Pickup	Rear Wheel Drive	1993		45.2%	53.7%			60.6%	36.5%						
Pickup	Rear Wheel Drive	1994		42.3%	56.4%			72.5%	26.4%		99.3%	0.7%	0.1%		
Pickup	Rear Wheel Drive	1995		45.2%	53.4%			72.9%	27.1%		96.4%		3.6%		
Pickup	Rear Wheel Drive	1996		38.5%	59.6%			99.9%		0.1%	88.3%	5.3%	6.4%		
Pickup	Rear Wheel Drive	1997		31.2%	68.8%			100.0%		0.0%	92.5%	6.6%	0.9%		
Pickup	Rear Wheel Drive	1998		31.3%	66.3%			100.0%		0.0%	89.7%		10.3%		
Pickup	Rear Wheel Drive	1999		22.6%	75.7%			100.0%			91.6%		8.4%		
Pickup	Rear Wheel Drive	2000		20.4%	78.3%			100.0%			87.7%		12.3%		
Pickup	Rear Wheel Drive	2001		14.5%	84.1%			100.0%			86.2%		13.8%		

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Hybrid	Vehicle Size		
				Small	Midsize	Large
Pickup	Front Wheel Drive	2003				
Pickup	Front Wheel Drive	2004				
Pickup	Front Wheel Drive	2005				
Pickup	Front Wheel Drive	2006				
Pickup	Front Wheel Drive	2007				
Pickup	Front Wheel Drive	2008				
Pickup	Front Wheel Drive	2009				
Pickup	Front Wheel Drive	2010				
Pickup	Front Wheel Drive	2011				
Pickup	Front Wheel Drive	2012				
Pickup	Rear Wheel Drive	1975		13.8%	4.8%	81.4%
Pickup	Rear Wheel Drive	1976		11.7%	3.7%	84.6%
Pickup	Rear Wheel Drive	1977		14.9%	4.3%	80.8%
Pickup	Rear Wheel Drive	1978		14.5%	4.5%	80.9%
Pickup	Rear Wheel Drive	1979		13.7%	5.2%	81.1%
Pickup	Rear Wheel Drive	1980		28.4%	8.8%	62.8%
Pickup	Rear Wheel Drive	1981		18.8%	11.2%	70.0%
Pickup	Rear Wheel Drive	1982		18.0%	26.2%	55.8%
Pickup	Rear Wheel Drive	1983		14.9%	41.5%	43.6%
Pickup	Rear Wheel Drive	1984		17.9%	37.0%	45.0%
Pickup	Rear Wheel Drive	1985		21.9%	31.9%	46.2%
Pickup	Rear Wheel Drive	1986		27.5%	34.6%	37.9%
Pickup	Rear Wheel Drive	1987		19.4%	52.3%	28.3%
Pickup	Rear Wheel Drive	1988		11.9%	48.1%	40.0%
Pickup	Rear Wheel Drive	1989		13.9%	45.5%	40.7%
Pickup	Rear Wheel Drive	1990		15.0%	37.8%	47.2%
Pickup	Rear Wheel Drive	1991		14.0%	51.5%	34.5%
Pickup	Rear Wheel Drive	1992		11.7%	44.6%	43.7%
Pickup	Rear Wheel Drive	1993		13.2%	42.1%	44.7%
Pickup	Rear Wheel Drive	1994		11.5%	45.8%	42.7%
Pickup	Rear Wheel Drive	1995		12.2%	38.9%	48.9%
Pickup	Rear Wheel Drive	1996		10.1%	43.3%	46.6%
Pickup	Rear Wheel Drive	1997		6.6%	36.2%	57.2%
Pickup	Rear Wheel Drive	1998		10.0%	42.2%	47.9%
Pickup	Rear Wheel Drive	1999		8.4%	39.2%	52.4%
Pickup	Rear Wheel Drive	2000		6.2%	33.9%	59.9%
Pickup	Rear Wheel Drive	2001		5.3%	24.5%	70.2%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP					
Pickup	Rear Wheel Drive	2002	1372	0.576	20.5	14.5	18.8	16.6	4473		256.4	214	10.5	0.841	0.0475	37.0	
Pickup	Rear Wheel Drive	2003	1498	0.605	21.0	14.7	19.2	16.9	4444		247.1	206	10.8	0.843	0.0459	37.5	
Pickup	Rear Wheel Drive	2004	1344	0.537	20.4	14.2	18.6	16.4	4712		267.0	234	10.2	0.878	0.0492	38.6	
Pickup	Rear Wheel Drive	2005	1226	0.533	20.4	14.0	18.8	16.4	4752		272.0	247	9.9	0.910	0.0518	38.9	
Pickup	Rear Wheel Drive	2006	1185	0.542	20.9	14.4	19.1	16.8	4747		266.6	242	10.0	0.911	0.0507	39.7	
Pickup	Rear Wheel Drive	2007	1154	0.546	20.9	14.3	19.3	16.8	4915		273.2	251	10.0	0.920	0.0508	41.2	
Pickup	Rear Wheel Drive	2008	942	0.525	21.4	14.6	19.7	17.1	4929		271.2	259	9.9	0.951	0.0519	42.4	
Pickup	Rear Wheel Drive	2009	489	0.494	21.9	15.0	20.3	17.6	4935		271.8	261	9.7	0.963	0.0524	43.3	
Pickup	Rear Wheel Drive	2010	549	0.430	21.9	15.0	20.3	17.6	4996		273.6	269	9.6	0.984	0.0534	43.8	
Pickup	Rear Wheel Drive	2011	588	0.397	22.4	15.2	20.7	18.0	4954		262.8	277	9.4	1.058	0.0552	44.4	
Pickup	Rear Wheel Drive	2012	622	0.465	22.2	15.1	20.6	17.8	5040		277.1	294	9.0	1.065	0.0578	45.0	
Pickup	Four Wheel Drive	1975	182	0.135	11.4	9.3	10.2	9.7	4822		353.3	154	14.2	0.437	0.0322	23.6	
Pickup	Four Wheel Drive	1976	390	0.209	12.4	10.1	11.2	10.5	4780		358.7	154	14.2	0.428	0.0323	25.3	
Pickup	Four Wheel Drive	1977	433	0.214	13.6	11.1	12.1	11.5	4695		362.7	164	13.4	0.452	0.0351	27.2	
Pickup	Four Wheel Drive	1978	612	0.270	13.5	11.1	12.0	11.5	4654		347.8	161	13.5	0.468	0.0345	26.8	
Pickup	Four Wheel Drive	1979	277	0.126	15.6	13.0	14.2	13.5	3947		260.1	132	14.2	0.551	0.0325	27.3	
Pickup	Four Wheel Drive	1980	302	0.211	16.9	13.6	15.4	14.3	4054		251.1	126	14.6	0.552	0.0308	29.1	
Pickup	Four Wheel Drive	1981	243	0.168	19.6	15.7	18.1	16.7	3732		223.8	115	14.6	0.561	0.0307	31.4	
Pickup	Four Wheel Drive	1982	255	0.177	19.7	15.8	18.2	16.8	3934		235.9	119	14.7	0.552	0.0306	33.5	
Pickup	Four Wheel Drive	1983	359	0.221	20.3	16.1	19.0	17.3	3901		223.6	117	14.8	0.564	0.0301	34.1	
Pickup	Four Wheel Drive	1984	505	0.247	19.7	15.6	18.4	16.8	3943		226.4	120	14.8	0.564	0.0302	33.5	
Pickup	Four Wheel Drive	1985	528	0.254	19.9	15.7	18.7	16.9	3981		229.8	129	14.0	0.597	0.0323	34.1	
Pickup	Four Wheel Drive	1986	638	0.252	20.2	15.9	18.9	17.1	3974		219.0	130	14.0	0.634	0.0327	34.4	
Pickup	Four Wheel Drive	1987	548	0.255	20.0	15.7	18.7	16.9	3937		222.2	137	13.4	0.648	0.0347	33.6	
Pickup	Four Wheel Drive	1988	699	0.284	19.3	14.9	18.2	16.3	4137		253.4	156	12.6	0.644	0.0375	33.9	
Pickup	Four Wheel Drive	1989	645	0.289	19.0	14.6	17.9	16.0	4221		259.0	158	12.7	0.638	0.0372	33.9	
Pickup	Four Wheel Drive	1990	512	0.279	18.6	14.0	17.7	15.6	4364		273.1	166	12.5	0.637	0.0380	34.2	
Pickup	Four Wheel Drive	1991	477	0.248	18.9	14.2	17.9	15.8	4299		262.5	167	12.2	0.666	0.0388	34.2	
Pickup	Four Wheel Drive	1992	484	0.263	18.5	13.8	17.7	15.5	4443		272.2	167	12.6	0.638	0.0376	34.5	
Pickup	Four Wheel Drive	1993	553	0.276	18.8	13.9	17.8	15.6	4444		270.0	172	12.3	0.661	0.0386	34.8	
Pickup	Four Wheel Drive	1994	783	0.293	18.6	13.7	17.5	15.4	4528		278.5	180	12.1	0.668	0.0396	35.0	
Pickup	Four Wheel Drive	1995	750	0.330	18.0	13.2	17.0	14.9	4633		292.1	186	11.9	0.655	0.0400	34.7	
Pickup	Four Wheel Drive	1996	573	0.293	18.3	13.3	17.3	15.1	4668		291.2	204	11.2	0.719	0.0437	35.4	
Pickup	Four Wheel Drive	1997	834	0.347	18.2	13.1	17.3	15.0	4965		302.4	218	11.1	0.729	0.0439	37.2	
Pickup	Four Wheel Drive	1998	841	0.348	18.3	13.1	17.4	15.1	4771		290.8	213	11.0	0.745	0.0445	35.8	
Pickup	Four Wheel Drive	1999	1153	0.453	18.2	13.1	17.0	14.9	4938		299.5	227	10.8	0.763	0.0459	36.8	
Pickup	Four Wheel Drive	2000	1003	0.384	18.9	13.6	17.3	15.4	4705		284.2	224	10.5	0.791	0.0473	36.1	

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Cu-Ft-Ton-MPG	Transmission			Fuel Metering				Number of Valves				VVT
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five	
Pickup	Rear Wheel Drive	2002		11.4%	87.1%			100.0%			78.9%		21.1%		
Pickup	Rear Wheel Drive	2003		12.3%	86.2%			100.0%			84.2%		15.8%		
Pickup	Rear Wheel Drive	2004		8.6%	89.6%			100.0%			69.8%	8.3%	22.0%		13.5%
Pickup	Rear Wheel Drive	2005		7.2%	92.8%			100.0%			61.6%	8.6%	29.8%		35.8%
Pickup	Rear Wheel Drive	2006		7.8%	92.2%			100.0%			55.2%	8.9%	35.8%		42.6%
Pickup	Rear Wheel Drive	2007		5.6%	94.4%			100.0%			63.4%	7.5%	29.0%		38.5%
Pickup	Rear Wheel Drive	2008		5.1%	94.9%			100.0%			61.6%	6.5%	31.9%		34.3%
Pickup	Rear Wheel Drive	2009		4.4%	95.4%	0.2%		100.0%			58.5%	11.9%	29.5%		34.1%
Pickup	Rear Wheel Drive	2010		2.6%	97.2%	0.2%		100.0%			41.6%	23.4%	35.0%		60.9%
Pickup	Rear Wheel Drive	2011		2.5%	97.4%	0.1%	4.8%	95.2%			46.0%		54.0%		76.0%
Pickup	Rear Wheel Drive	2012		3.1%	96.8%	0.1%	4.8%	95.2%			46.7%		53.3%		87.1%
Pickup	Four Wheel Drive	1975		38.4%											
Pickup	Four Wheel Drive	1976		33.3%											
Pickup	Four Wheel Drive	1977		24.7%											
Pickup	Four Wheel Drive	1978		30.2%						0.0%					
Pickup	Four Wheel Drive	1979		64.9%						0.0%					
Pickup	Four Wheel Drive	1980		66.8%	18.6%					0.3%					
Pickup	Four Wheel Drive	1981		76.4%	14.7%					2.3%					
Pickup	Four Wheel Drive	1982		71.4%	17.7%					9.6%					
Pickup	Four Wheel Drive	1983		66.6%	19.9%				0.1%	4.8%					
Pickup	Four Wheel Drive	1984		62.7%	19.1%			0.1%		2.7%					
Pickup	Four Wheel Drive	1985		62.4%	26.2%			12.7%	1.1%	1.5%					
Pickup	Four Wheel Drive	1986		63.3%	29.4%			29.0%	17.7%	0.7%					
Pickup	Four Wheel Drive	1987		59.9%	30.1%			36.4%	28.8%	0.4%					
Pickup	Four Wheel Drive	1988		49.7%	40.9%			48.7%	47.1%	0.4%					
Pickup	Four Wheel Drive	1989		52.3%	41.5%			50.5%	47.8%	0.3%					
Pickup	Four Wheel Drive	1990		44.9%	51.7%			53.5%	46.1%	0.3%					
Pickup	Four Wheel Drive	1991		47.5%	50.8%			53.5%	46.1%	0.4%					
Pickup	Four Wheel Drive	1992		43.7%	56.2%			59.7%	40.0%	0.3%					
Pickup	Four Wheel Drive	1993		40.5%	59.5%			62.9%	37.1%						
Pickup	Four Wheel Drive	1994		34.6%	65.4%			62.2%	37.8%		94.3%	5.7%			
Pickup	Four Wheel Drive	1995		28.3%	71.7%			62.8%	37.2%		90.5%		9.5%		
Pickup	Four Wheel Drive	1996		25.4%	74.5%			99.6%		0.4%	82.9%	2.8%	14.3%		
Pickup	Four Wheel Drive	1997		14.0%	86.0%			99.9%		0.1%	94.7%	3.3%	2.0%		
Pickup	Four Wheel Drive	1998		19.9%	80.1%			99.9%		0.1%	87.0%		13.0%		
Pickup	Four Wheel Drive	1999		11.4%	88.6%			100.0%		0.0%	93.1%		6.9%		
Pickup	Four Wheel Drive	2000		10.7%	89.3%			100.0%			86.7%		13.3%		

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Hybrid	Vehicle Size		
				Small	Midsize	Large
Pickup	Rear Wheel Drive	2002		9.6%	19.8%	70.6%
Pickup	Rear Wheel Drive	2003		7.9%	25.2%	66.9%
Pickup	Rear Wheel Drive	2004	0.0%	7.1%	16.3%	76.6%
Pickup	Rear Wheel Drive	2005	0.1%		12.5%	87.5%
Pickup	Rear Wheel Drive	2006	0.1%		19.7%	80.3%
Pickup	Rear Wheel Drive	2007	0.0%		16.3%	83.7%
Pickup	Rear Wheel Drive	2008			19.9%	80.1%
Pickup	Rear Wheel Drive	2009	0.2%		23.0%	77.0%
Pickup	Rear Wheel Drive	2010	0.2%		17.0%	83.0%
Pickup	Rear Wheel Drive	2011	0.1%		2.4%	97.6%
Pickup	Rear Wheel Drive	2012	0.1%		3.6%	96.4%
Pickup	Four Wheel Drive	1975				100.0%
Pickup	Four Wheel Drive	1976				100.0%
Pickup	Four Wheel Drive	1977				100.0%
Pickup	Four Wheel Drive	1978		3.8%		96.2%
Pickup	Four Wheel Drive	1979		34.0%		66.0%
Pickup	Four Wheel Drive	1980		36.7%		63.3%
Pickup	Four Wheel Drive	1981		48.1%		51.9%
Pickup	Four Wheel Drive	1982		41.8%	5.1%	53.1%
Pickup	Four Wheel Drive	1983		26.8%	30.0%	43.2%
Pickup	Four Wheel Drive	1984		27.2%	27.3%	45.5%
Pickup	Four Wheel Drive	1985		29.8%	23.1%	47.1%
Pickup	Four Wheel Drive	1986		34.9%	20.7%	44.4%
Pickup	Four Wheel Drive	1987		23.8%	39.4%	36.7%
Pickup	Four Wheel Drive	1988		18.7%	29.9%	51.4%
Pickup	Four Wheel Drive	1989		20.9%	25.7%	53.4%
Pickup	Four Wheel Drive	1990		17.8%	19.6%	62.6%
Pickup	Four Wheel Drive	1991		22.5%	27.2%	50.3%
Pickup	Four Wheel Drive	1992		19.2%	22.9%	57.9%
Pickup	Four Wheel Drive	1993		12.9%	24.2%	63.0%
Pickup	Four Wheel Drive	1994		18.1%	22.5%	59.5%
Pickup	Four Wheel Drive	1995		15.0%	14.5%	70.5%
Pickup	Four Wheel Drive	1996		14.1%	17.4%	68.5%
Pickup	Four Wheel Drive	1997		3.3%	14.4%	82.4%
Pickup	Four Wheel Drive	1998		12.3%	19.7%	68.1%
Pickup	Four Wheel Drive	1999		8.4%	18.6%	73.0%
Pickup	Four Wheel Drive	2000		0.1%	22.0%	77.9%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP					
Pickup	Four Wheel Drive	2001	975	0.387	18.1	12.9	16.6	14.7	4885		295.6	235	10.3	0.802	0.0481	36.0	
Pickup	Four Wheel Drive	2002	1008	0.424	18.2	12.9	16.7	14.8	4985		291.5	242	10.3	0.834	0.0486	36.8	
Pickup	Four Wheel Drive	2003	976	0.395	18.5	13.1	16.9	14.9	4944		290.7	248	10.1	0.855	0.0500	36.9	
Pickup	Four Wheel Drive	2004	1161	0.463	18.7	13.1	17.0	15.0	5202		298.3	266	9.9	0.892	0.0511	39.0	
Pickup	Four Wheel Drive	2005	1075	0.467	19.0	13.2	17.4	15.3	5257		297.6	274	9.7	0.926	0.0523	40.1	
Pickup	Four Wheel Drive	2006	1003	0.458	19.3	13.4	17.6	15.5	5228		291.3	272	9.7	0.942	0.0522	40.3	
Pickup	Four Wheel Drive	2007	960	0.454	19.3	13.3	17.7	15.5	5420		302.2	290	9.5	0.960	0.0534	41.9	
Pickup	Four Wheel Drive	2008	852	0.475	19.6	13.5	18.1	15.8	5417		303.2	295	9.4	0.974	0.0544	42.7	
Pickup	Four Wheel Drive	2009	501	0.506	20.2	13.9	18.7	16.3	5411		301.5	294	9.4	0.979	0.0543	43.9	
Pickup	Four Wheel Drive	2010	728	0.570	20.3	13.9	18.8	16.3	5544		307.1	304	9.3	0.990	0.0548	45.3	
Pickup	Four Wheel Drive	2011	891	0.603	20.8	14.2	19.3	16.7	5475		295.0	321	8.8	1.104	0.0584	45.9	
Pickup	Four Wheel Drive	2012	715	0.535	20.9	14.3	19.5	16.8	5528		291.7	328	8.8	1.146	0.0590	46.6	

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Cu-Ft-Ton-MPG	Transmission			Fuel Metering				Number of Valves				VVT
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five	
Pickup	Four Wheel Drive	2001		8.0%	92.0%			100.0%			88.9%		11.1%		
Pickup	Four Wheel Drive	2002		7.0%	93.0%			100.0%			86.8%		13.2%		
Pickup	Four Wheel Drive	2003		7.3%	92.7%			100.0%			87.6%		12.4%		
Pickup	Four Wheel Drive	2004		5.1%	94.9%			100.0%			65.1%	21.3%	13.6%		25.0%
Pickup	Four Wheel Drive	2005		4.0%	96.0%			100.0%			56.3%	20.2%	23.4%		42.9%
Pickup	Four Wheel Drive	2006		4.2%	95.8%			100.0%			45.9%	21.9%	32.2%		53.3%
Pickup	Four Wheel Drive	2007		2.8%	97.2%			100.0%			55.8%	18.6%	25.7%		41.7%
Pickup	Four Wheel Drive	2008		2.9%	97.1%			100.0%			55.5%	16.0%	28.4%		41.7%
Pickup	Four Wheel Drive	2009		3.8%	95.9%	0.2%		100.0%			56.7%	20.8%	22.6%		39.5%
Pickup	Four Wheel Drive	2010		2.3%	97.7%	0.1%		100.0%			39.0%	34.6%	26.4%		63.3%
Pickup	Four Wheel Drive	2011		1.8%	98.1%	0.1%	9.5%	90.5%			52.5%		47.5%		92.8%
Pickup	Four Wheel Drive	2012		2.4%	97.3%	0.3%	13.8%	86.2%			42.9%		57.1%		96.2%

2012 FE Trends Report

Appendix H: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type*	Drive Type	Model Year	Hybrid	Vehicle Size		
				Small	Midsize	Large
Pickup	Four Wheel Drive	2001			17.0%	83.0%
Pickup	Four Wheel Drive	2002		6.4%	19.3%	74.2%
Pickup	Four Wheel Drive	2003		7.8%	15.4%	76.8%
Pickup	Four Wheel Drive	2004	0.0%	5.6%	13.7%	80.7%
Pickup	Four Wheel Drive	2005	0.0%	0.8%	5.9%	93.3%
Pickup	Four Wheel Drive	2006	0.2%	0.7%	4.0%	95.2%
Pickup	Four Wheel Drive	2007	0.0%		7.9%	92.1%
Pickup	Four Wheel Drive	2008			10.6%	89.4%
Pickup	Four Wheel Drive	2009	0.2%		14.4%	85.6%
Pickup	Four Wheel Drive	2010	0.1%		8.3%	91.7%
Pickup	Four Wheel Drive	2011	0.1%		0.8%	99.2%
Pickup	Four Wheel Drive	2012	0.3%		1.2%	98.8%

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix I Fuel Economy Data Stratified by Vehicle Type and Transmission Type

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	A3	1975																
Car	A3	1976																
Car	A3	1977																
Car	A3	1978	8128	0.726	18.6	14.6	17.8	15.9	3819	114.4	283	134	13.6	0.493	0.0347	30.4	1845	3491
Car	A3	1979	7472	0.691	19.0	15.0	17.8	16.2	3728	114.9	269	129	13.7	0.502	0.0343	30.2	1882	3486
Car	A3	1980	4814	0.510	22.3	17.6	21.2	19.0	3215	107.8	203	106	14.1	0.562	0.0328	30.6	2075	3316
Car	A3	1981	3027	0.347	24.4	19.2	22.9	20.7	2958	106.5	165	95	14.4	0.621	0.0321	30.7	2238	3279
Car	A3	1982	1262	0.161	27.9	22.2	25.7	23.7	2678	101.1	124	84	14.8	0.683	0.0311	31.9	2430	3233
Car	A3	1983	1170	0.146	28.2	22.6	25.8	23.9	2747	106.1	130	85	14.8	0.669	0.0309	33.0	2581	3510
Car	A3	1984	1676	0.156	28.2	22.4	26.4	24.0	2745	106.0	129	89	14.4	0.690	0.0321	33.1	2574	3508
Car	A3	1985	1798	0.165	28.8	22.8	26.9	24.5	2764	105.8	129	99	13.3	0.769	0.0356	34.0	2626	3600
Car	A3	1986	1743	0.157	28.8	22.7	26.8	24.4	2778	105.5	130	97	13.6	0.756	0.0348	34.0	2608	3584
Car	A3	1987	1498	0.138	28.2	21.9	26.5	23.9	2763	105.1	130	97	13.6	0.752	0.0349	33.1	2538	3478
Car	A3	1988	892	0.082	28.7	22.3	26.7	24.2	2792	103.4	125	98	13.5	0.795	0.0350	33.9	2540	3502
Car	A3	1989	815	0.080	28.8	22.2	26.5	24.1	2819	102.8	126	97	13.7	0.774	0.0341	34.0	2526	3500
Car	A3	1990	535	0.060	28.8	22.1	26.5	24.0	2869	101.6	129	98	13.7	0.774	0.0341	34.6	2480	3517
Car	A3	1991	368	0.042	27.3	20.8	25.1	22.7	2834	99.5	125	96	13.9	0.784	0.0334	32.4	2314	3217
Car	A3	1992	394	0.047	29.3	22.0	27.0	24.3	2799	99.2	126	98	13.7	0.797	0.0345	34.1	2454	3378
Car	A3	1993	351	0.039	29.5	22.1	27.1	24.3	2819	100.6	128	96	13.8	0.767	0.0338	34.4	2483	3460
Car	A3	1994	292	0.033	29.6	22.1	26.8	24.3	2801	100.2	121	93	14.0	0.792	0.0331	34.2	2507	3426
Car	A3	1995	67	0.007	36.8	27.5	32.2	29.7	2358	99.8	84	80	13.8	0.945	0.0336	35.0	2971	3499
Car	A3	1996	71	0.009	36.7	27.2	32.0	29.5	2322	99.9	94	77	14.0	0.818	0.0329	34.3	2950	3422
Car	A3	1997	49	0.006	37.2	27.4	32.3	29.8	2250	90.5	79	70	14.6	0.886	0.0311	33.5	2693	3030
Car	A3	1998	20	0.002	37.5	27.4	32.4	29.8	2250	89.7	79	79	13.2	1.000	0.0351	33.6	2678	3013
Car	A3	1999	17	0.002	37.4	27.0	32.3	29.6	2250	87.8	79	79	13.2	1.000	0.0351	33.3	2602	2927
Car	A3	2000	26	0.003	37.4	26.8	32.1	29.5	2250	87.8	79	79	13.2	1.000	0.0351	33.1	2587	2911
Car	A3	2001	19	0.002	37.3	26.5	32.0	29.3	2250	87.6	80	79	13.2	0.990	0.0351	32.9	2565	2886
Car	A3	2002																
Car	A3	2003																
Car	A3	2004																
Car	A3	2005																
Car	A3	2006																
Car	A3	2007																
Car	A3	2008																
Car	A3	2009																
Car	A3	2010																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	A3	1975												
Car	A3	1976												
Car	A3	1977												
Car	A3	1978	3.9%			3.2%		0.5%						
Car	A3	1979	5.6%			3.0%		1.9%						
Car	A3	1980	29.3%	0.8%		3.9%	0.9%	2.3%						
Car	A3	1981	56.9%	0.0%		5.9%	5.1%	1.8%						
Car	A3	1982	75.8%			8.8%	0.1%	1.7%						
Car	A3	1983	75.3%	5.6%		6.9%	7.0%	1.0%						
Car	A3	1984	93.5%	0.3%		13.1%	12.1%	0.4%						
Car	A3	1985	92.8%	1.1%		18.0%	34.9%	0.1%						
Car	A3	1986	92.0%	1.8%		22.6%	42.7%		99.6%		0.4%			
Car	A3	1987	96.0%	2.4%		22.2%	56.9%		99.4%		0.6%			
Car	A3	1988	96.9%	1.7%		54.3%	37.3%		98.9%	0.1%	1.1%			
Car	A3	1989	95.9%	2.8%		64.8%	30.3%		97.7%		2.3%			
Car	A3	1990	97.9%	1.0%		73.6%	26.4%		94.2%	4.7%	1.1%			
Car	A3	1991	97.8%	1.2%		79.6%	20.4%		89.0%	9.2%	1.9%			
Car	A3	1992	97.8%	1.6%		77.4%	22.6%		90.7%	8.0%	1.3%			
Car	A3	1993	99.4%	0.6%		85.4%	14.6%		86.7%	12.4%	1.0%			
Car	A3	1994	91.1%	0.2%		82.8%	17.2%		88.1%	11.2%	0.7%			
Car	A3	1995	100.0%			43.4%	56.6%		56.6%	43.4%				
Car	A3	1996	100.0%			30.8%	69.2%		69.2%	30.8%				
Car	A3	1997	100.0%				100.0%		100.0%					
Car	A3	1998	100.0%			100.0%					100.0%			
Car	A3	1999	100.0%			100.0%					100.0%			
Car	A3	2000	7.1%			100.0%					100.0%			
Car	A3	2001	100.0%			100.0%			83.6%		16.4%			
Car	A3	2002												
Car	A3	2003												
Car	A3	2004												
Car	A3	2005												
Car	A3	2006												
Car	A3	2007												
Car	A3	2008												
Car	A3	2009												
Car	A3	2010												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	A3	2011																
Car	A3	2012																
Car	A4	1975																
Car	A4	1976																
Car	A4	1977																
Car	A4	1978	42	0.004	22.0	17.7	20.0	18.7	3589	102.4	167	105	15.8	0.632	0.0298	34.4	1959	3515
Car	A4	1979	58	0.005	22.8	18.4	20.7	19.4	3567	100.6	168	102	16.2	0.609	0.0291	35.6	2004	3630
Car	A4	1980	57	0.006	24.5	20.2	21.6	20.8	3477	101.0	169	95	16.6	0.569	0.0280	36.8	2129	3763
Car	A4	1981	136	0.016	26.0	20.9	23.9	22.1	3277	94.6	165	105	14.6	0.635	0.0322	36.7	2136	3504
Car	A4	1982	230	0.029	24.4	19.2	23.1	20.8	3456	107.6	194	114	14.0	0.624	0.0332	36.3	2256	3912
Car	A4	1983	183	0.023	27.1	21.7	24.8	23.0	3325	99.1	156	112	13.9	0.723	0.0338	38.7	2331	3871
Car	A4	1984	206	0.019	25.4	20.1	23.8	21.6	3377	99.5	166	127	12.8	0.775	0.0377	37.1	2205	3715
Car	A4	1985	200	0.018	24.7	19.8	22.7	21.0	3408	100.5	168	129	12.6	0.790	0.0381	36.3	2165	3661
Car	A4	1986	154	0.014	22.6	17.9	21.0	19.2	3514	105.6	191	158	11.3	0.852	0.0443	34.2	2105	3647
Car	A4	1987	181	0.017	23.1	18.1	21.5	19.5	3519	105.9	191	161	11.0	0.871	0.0452	34.9	2143	3734
Car	A4	1988	142	0.013	22.5	17.4	21.0	18.9	3504	104.6	188	161	11.0	0.886	0.0455	33.4	2039	3523
Car	A4	1989	147	0.015	22.4	17.2	21.0	18.8	3546	106.6	184	163	10.9	0.912	0.0455	33.6	2050	3600
Car	A4	1990	118	0.013	22.7	17.2	21.3	19.0	3655	110.2	175	160	11.5	0.925	0.0433	34.9	2124	3847
Car	A4	1991	131	0.015	23.1	17.3	21.9	19.3	3663	106.3	177	167	11.2	0.969	0.0452	35.6	2090	3788
Car	A4	1992	100	0.012	22.9	17.0	21.9	19.1	3757	107.3	182	181	10.9	0.986	0.0472	36.1	2094	3877
Car	A4	1993	83	0.009	23.6	17.4	22.5	19.6	3853	109.5	186	186	10.9	0.991	0.0474	37.9	2175	4148
Car	A4	1994	65	0.007	23.7	17.2	22.8	19.7	3946	106.1	201	219	9.4	1.098	0.0548	38.9	2118	4136
Car	A4	1995	91	0.009	24.7	17.9	23.7	20.4	3996	103.8	202	217	9.7	1.079	0.0537	41.2	2176	4297
Car	A4	1996	44	0.005	27.1	19.3	26.1	22.3	3720	104.4	171	172	10.9	1.008	0.0460	41.8	2351	4383
Car	A4	1997	23	0.003	25.8	19.2	22.6	20.9	3019	98.5	152	147	10.3	0.963	0.0484	31.5	2061	3101
Car	A4	1998	7	0.001	30.6	20.7	31.3	25.2	2920	102.0	109	109	13.3	0.981	0.0367	36.9	2608	3773
Car	A4	1999	28	0.003	28.2	19.3	28.0	23.1	3192	109.1	123	125	12.1	1.023	0.0392	36.8	2525	4022
Car	A4	2000	70	0.007	28.1	19.0	27.9	23.0	3104	107.6	119	122	12.1	1.031	0.0395	35.6	2477	3840
Car	A4	2001	48	0.005	28.0	18.8	27.7	22.8	3117	107.8	119	121	12.2	1.027	0.0390	35.4	2458	3826
Car	A4	2002	15	0.002	27.7	18.6	26.9	22.4	3095	107.7	118	121	12.1	1.028	0.0392	34.7	2421	3740
Car	A4	2003																
Car	A4	2004	16	0.002	26.4	17.6	25.4	21.3	3500	114.5	152	113	14.2	0.743	0.0323	37.3	2437	4265
Car	A4	2005	7	0.001	26.4	17.5	25.3	21.2	3500	114.5	152	113	14.2	0.743	0.0323	37.1	2430	4252
Car	A4	2006	2	0.000	26.2	17.3	25.1	21.0	3500	114.5	152	154	11.0	1.013	0.0440	36.8	2409	4216
Car	A4	2007																
Car	A4	2008																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	A3	2011												
Car	A3	2012												
Car	A4	1975												
Car	A4	1976												
Car	A4	1977												
Car	A4	1978				15.1%		48.3%						
Car	A4	1979				23.5%		56.1%						
Car	A4	1980				39.8%		60.2%						
Car	A4	1981				32.1%		26.5%						
Car	A4	1982				32.7%	24.5%	19.4%						
Car	A4	1983	10.1%	4.2%		59.5%		27.5%						
Car	A4	1984				80.0%		20.0%						
Car	A4	1985				82.3%		17.7%						
Car	A4	1986				95.8%		4.2%	99.5%		0.5%			
Car	A4	1987				87.1%		12.9%	98.9%		1.1%			
Car	A4	1988	5.9%			99.5%		0.5%	99.2%		0.8%			
Car	A4	1989	4.0%			99.8%		0.2%	96.9%		3.1%			
Car	A4	1990	7.5%	0.4%		98.3%		1.7%	95.5%		4.5%			
Car	A4	1991	11.3%	5.1%		95.4%		4.6%	86.2%		13.8%			
Car	A4	1992	10.4%	5.0%		96.0%		4.0%	82.3%		17.7%		20.3%	
Car	A4	1993	10.8%	0.9%		100.0%			58.8%		41.2%		19.6%	
Car	A4	1994	2.2%	0.0%		98.9%		1.1%	16.6%		83.4%		25.7%	
Car	A4	1995				93.8%		6.2%	4.7%		95.3%		27.7%	
Car	A4	1996				94.0%		6.0%	1.8%		98.2%		2.6%	
Car	A4	1997				100.0%			3.7%		96.3%		3.7%	
Car	A4	1998	95.2%			100.0%			64.7%		35.3%		4.8%	
Car	A4	1999	100.0%			100.0%			0.0%		100.0%			
Car	A4	2000	100.0%			100.0%			0.0%		100.0%			
Car	A4	2001	100.0%			100.0%			0.0%		100.0%			
Car	A4	2002	100.0%			100.0%					100.0%			
Car	A4	2003												
Car	A4	2004	100.0%			100.0%					100.0%			
Car	A4	2005	100.0%			100.0%					100.0%			
Car	A4	2006	100.0%			100.0%					100.0%			
Car	A4	2007												
Car	A4	2008												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	A4	2009																
Car	A4	2010																
Car	A4	2011																
Car	A4	2012																
Car	A5	1975																
Car	A5	1976																
Car	A5	1977																
Car	A5	1978																
Car	A5	1979																
Car	A5	1980																
Car	A5	1981																
Car	A5	1982																
Car	A5	1983																
Car	A5	1984																
Car	A5	1985																
Car	A5	1986																
Car	A5	1987																
Car	A5	1988																
Car	A5	1989																
Car	A5	1990	2	0.000	21.5	15.9	21.5	18.1	4000	50.0	181	228	9.0	1.260	0.0570	36.3	907	1815
Car	A5	1991	3	0.000	21.9	15.8	22.3	18.4	4000	50.0	181	228	9.0	1.260	0.0570	36.8	921	1842
Car	A5	1992	6	0.001	20.1	14.7	19.7	16.8	4372	104.8	191	228	9.6	1.192	0.0523	36.8	1739	3854
Car	A5	1993	6	0.001	19.7	14.4	19.1	16.4	4941	114.6	193	228	10.6	1.180	0.0462	40.6	1869	4647
Car	A5	1994	5	0.001	22.8	16.1	23.3	19.1	4853	102.1	195	217	10.9	1.113	0.0448	46.3	1941	4780
Car	A5	1995	13	0.001	23.1	16.2	23.4	19.3	4500	109.6	195	217	10.2	1.113	0.0482	43.3	2112	4751
Car	A5	1996	9	0.001	23.1	16.2	23.3	19.2	4500	105.4	195	217	10.2	1.113	0.0482	43.2	2025	4557
Car	A5	1997	1	0.000	22.4	15.5	22.8	18.6	3000	50.0	151	201	7.9	1.331	0.0670	27.9	931	1397
Car	A5	1998	1	0.000	22.4	15.4	22.7	18.6	3000	50.0	151	201	7.9	1.331	0.0670	27.9	929	1393
Car	A5	1999	6	0.001	22.5	15.3	23.1	18.7	3239	62.0	178	246	7.2	1.378	0.0754	30.2	1158	1906
Car	A5	2000	5	0.000	23.0	15.5	23.2	18.9	3292	59.9	187	255	7.1	1.358	0.0770	31.1	1133	1882
Car	A5	2001	6	0.001	22.6	15.2	22.8	18.6	3338	62.5	193	276	6.8	1.423	0.0823	31.0	1158	1949
Car	A5	2002	5	0.001	23.6	15.9	23.1	19.2	3327	61.4	197	273	6.8	1.381	0.0816	32.0	1184	1990
Car	A5	2003																
Car	A5	2004	3	0.000	23.6	15.7	23.2	19.2	3500	62.8	199	282	6.9	1.410	0.0806	33.7	1204	2107
Car	A5	2005	1	0.000	26.0	17.4	24.4	20.8	3500	50.0	176	255	7.4	1.453	0.0729	36.4	1041	1822
Car	A5	2006	3	0.000	26.4	17.7	24.7	21.1	3500	50.0	182	269	7.1	1.478	0.0769	36.9	1055	1846

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	A4	2009												
Car	A4	2010												
Car	A4	2011												
Car	A4	2012												
Car	A5	1975												
Car	A5	1976												
Car	A5	1977												
Car	A5	1978												
Car	A5	1979												
Car	A5	1980												
Car	A5	1981												
Car	A5	1982												
Car	A5	1983												
Car	A5	1984												
Car	A5	1985												
Car	A5	1986												
Car	A5	1987												
Car	A5	1988												
Car	A5	1989												
Car	A5	1990				100.0%					100.0%			
Car	A5	1991				100.0%					100.0%			
Car	A5	1992				100.0%					100.0%			
Car	A5	1993				100.0%					100.0%			
Car	A5	1994				100.0%					100.0%			
Car	A5	1995				100.0%					100.0%			
Car	A5	1996				100.0%					100.0%			
Car	A5	1997				100.0%					100.0%	100.0%		
Car	A5	1998				100.0%					100.0%	100.0%		
Car	A5	1999		5.4%		100.0%					100.0%	100.0%		
Car	A5	2000		6.7%		100.0%					100.0%	100.0%		
Car	A5	2001		22.2%		100.0%					100.0%	100.0%		
Car	A5	2002		14.4%		100.0%					100.0%	100.0%		
Car	A5	2003												
Car	A5	2004		28.0%		100.0%					100.0%	100.0%		
Car	A5	2005				100.0%					100.0%	100.0%		
Car	A5	2006				100.0%					100.0%	100.0%		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	A5	2007																
Car	A5	2008	22	0.003	49.5	33.4	40.5	37.1	2000	50.0	61	70	13.3	1.148	0.0350	37.1	1857	1857
Car	A5	2009	14	0.002	49.5	33.4	40.5	37.1	2000	50.0	61	70	13.3	1.148	0.0350	37.1	1857	1857
Car	A5	2010	3	0.000	49.1	33.3	40.0	36.8	2000	50.0	61	70	13.3	1.148	0.0350	36.8	1841	1841
Car	A5	2011	3	0.000	48.7	33.1	39.5	36.5	2000	50.0	61	70	13.3	1.148	0.0350	36.5	1826	1826
Car	A5	2012	3	0.000	50.3	34.5	38.2	36.5	2000	50.0	61	70	13.3	1.148	0.0350	36.5	1824	1824
Car	A6	1975																
Car	A6	1976																
Car	A6	1977																
Car	A6	1978																
Car	A6	1979																
Car	A6	1980																
Car	A6	1981																
Car	A6	1982																
Car	A6	1983																
Car	A6	1984																
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Car	A6	1991																
Car	A6	1992																
Car	A6	1993																
Car	A6	1994																
Car	A6	1995																
Car	A6	1996																
Car	A6	1997																
Car	A6	1998	0	0.000	13.3	9.3	13.4	11.1	3500	50.0	213	375	5.4	1.761	0.1071	19.5	557	974
Car	A6	1999	1	0.000	13.9	9.7	14.1	11.6	3500	50.0	215	382	5.3	1.775	0.1091	20.4	583	1021
Car	A6	2000																
Car	A6	2001																
Car	A6	2002																
Car	A6	2003																
Car	A6	2004																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	A5	2007												
Car	A5	2008				100.0%					100.0%		100.0%	
Car	A5	2009				100.0%					100.0%		100.0%	
Car	A5	2010				100.0%					100.0%		100.0%	
Car	A5	2011				100.0%					100.0%		100.0%	
Car	A5	2012				100.0%					100.0%		100.0%	
Car	A6	1975												
Car	A6	1976												
Car	A6	1977												
Car	A6	1978												
Car	A6	1979												
Car	A6	1980												
Car	A6	1981												
Car	A6	1982												
Car	A6	1983												
Car	A6	1984												
Car	A6	1985												
Car	A6	1986												
Car	A6	1987												
Car	A6	1988												
Car	A6	1989												
Car	A6	1990												
Car	A6	1991												
Car	A6	1992												
Car	A6	1993												
Car	A6	1994												
Car	A6	1995												
Car	A6	1996												
Car	A6	1997												
Car	A6	1998				100.0%						100.0%	100.0%	
Car	A6	1999				100.0%						100.0%	100.0%	
Car	A6	2000												
Car	A6	2001												
Car	A6	2002												
Car	A6	2003												
Car	A6	2004												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	A6	2005	1	0.000	15.9	11.2	14.4	12.8	4500	129.5	259	396	6.3	1.529	0.0880	28.9	1662	3739
Car	A6	2006	2	0.000	16.9	11.3	16.8	13.9	4337	116.9	259	392	6.2	1.515	0.0907	30.0	1616	3531
Car	A6	2007	1	0.000	16.8	11.4	16.4	13.8	4500	129.5	259	396	6.3	1.529	0.0880	31.0	1781	4007
Car	A6	2008	3	0.000	18.5	12.2	18.5	15.2	4485	107.4	260	399	6.3	1.536	0.0891	34.1	1621	3641
Car	A6	2009	3	0.000	17.6	11.7	17.7	14.5	4245	92.2	275	431	5.7	1.572	0.1037	31.0	1356	2963
Car	A6	2010	105	0.015	36.2	23.8	33.2	28.4	3552	109.1	126	184	8.8	1.453	0.0515	52.0	3234	5709
Car	A6	2011	16	0.002	44.0	29.8	35.7	32.9	3537	108.7	160	197	8.4	1.182	0.0548	61.4	3899	6838
Car	A6	2012	415	0.049	41.0	27.1	36.8	31.9	3146	108.6	126	166	9.1	1.323	0.0528	50.6	3499	5505
Car	A7	1975																
Car	A7	1976																
Car	A7	1977																
Car	A7	1978																
Car	A7	1979																
Car	A7	1980																
Car	A7	1981																
Car	A7	1982																
Car	A7	1983																
Car	A7	1984																
Car	A7	1985																
Car	A7	1986																
Car	A7	1987																
Car	A7	1988																
Car	A7	1989																
Car	A7	1990																
Car	A7	1991																
Car	A7	1992																
Car	A7	1993																
Car	A7	1994																
Car	A7	1995																
Car	A7	1996																
Car	A7	1997																
Car	A7	1998																
Car	A7	1999																
Car	A7	2000																
Car	A7	2001																
Car	A7	2002																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	A6	2005				100.0%					100.0%		100.0%	
Car	A6	2006				100.0%					100.0%		100.0%	
Car	A6	2007				100.0%					100.0%		100.0%	
Car	A6	2008				100.0%					100.0%		100.0%	
Car	A6	2009				100.0%					100.0%		100.0%	
Car	A6	2010	94.8%	3.8%	55.1%	2.9%		42.0%			100.0%		60.1%	
Car	A6	2011	91.7%	6.8%	6.8%	93.2%					100.0%		100.0%	91.7%
Car	A6	2012	98.8%	0.8%	79.6%	4.1%		16.2%			100.0%		83.8%	3.7%
Car	A7	1975												
Car	A7	1976												
Car	A7	1977												
Car	A7	1978												
Car	A7	1979												
Car	A7	1980												
Car	A7	1981												
Car	A7	1982												
Car	A7	1983												
Car	A7	1984												
Car	A7	1985												
Car	A7	1986												
Car	A7	1987												
Car	A7	1988												
Car	A7	1989												
Car	A7	1990												
Car	A7	1991												
Car	A7	1992												
Car	A7	1993												
Car	A7	1994												
Car	A7	1995												
Car	A7	1996												
Car	A7	1997												
Car	A7	1998												
Car	A7	1999												
Car	A7	2000												
Car	A7	2001												
Car	A7	2002												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	A7	2003																
Car	A7	2004																
Car	A7	2005																
Car	A7	2006																
Car	A7	2007																
Car	A7	2008																
Car	A7	2009	4	0.001	28.0	18.6	26.5	22.4	3590	73.8	229	373	5.5	1.633	0.1042	40.2	1652	2965
Car	A7	2010	4	0.001	23.7	15.7	23.1	19.2	3679	67.2	233	395	5.6	1.673	0.1072	36.6	1326	2440
Car	A7	2011	14	0.002	22.6	15.1	21.8	18.3	3994	87.2	214	372	6.1	1.732	0.0934	37.0	1615	3222
Car	A7	2012	14	0.002	24.0	16.0	23.0	19.3	3850	80.2	217	376	6.0	1.726	0.0980	37.9	1594	3059
Car	CVT	1975																
Car	CVT	1976																
Car	CVT	1977																
Car	CVT	1978																
Car	CVT	1979																
Car	CVT	1980																
Car	CVT	1981																
Car	CVT	1982																
Car	CVT	1983																
Car	CVT	1984																
Car	CVT	1985																
Car	CVT	1986																
Car	CVT	1987																
Car	CVT	1988																
Car	CVT	1989	13	0.001	39.6	32.0	33.6	32.8	2250	88.6	73	66	15.3	0.904	0.0293	36.9	2906	3269
Car	CVT	1990	3	0.000	37.7	31.2	30.5	30.9	2299	88.7	73	73	14.3	1.000	0.0318	35.5	2744	3154
Car	CVT	1991	4	0.000	37.3	30.7	30.0	30.4	2289	88.7	73	73	14.3	1.000	0.0319	34.8	2696	3087
Car	CVT	1992	0	0.000	38.8	31.0	32.1	31.6	2295	88.5	73	73	14.3	1.000	0.0319	36.3	2800	3209
Car	CVT	1993	1	0.000	37.2	30.0	29.9	30.0	2290	88.5	73	73	14.3	1.000	0.0319	34.4	2658	3044
Car	CVT	1994																
Car	CVT	1995																
Car	CVT	1996	1	0.000	40.4	30.1	34.5	32.3	2750	97.1	97	115	11.5	1.186	0.0418	44.4	3136	4312
Car	CVT	1997	7	0.001	41.9	31.0	35.7	33.3	2750	99.5	97	115	11.5	1.186	0.0418	45.8	3314	4557
Car	CVT	1998	5	0.001	42.4	30.9	36.2	33.5	2750	97.1	97	115	11.5	1.186	0.0418	46.1	3257	4478
Car	CVT	1999	2	0.000	41.8	30.2	35.6	32.9	2750	97.1	97	115	11.5	1.186	0.0418	45.2	3195	4393
Car	CVT	2000	2	0.000	41.9	30.0	35.5	32.8	2750	97.1	97	115	11.5	1.186	0.0418	45.1	3184	4377

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	A7	2003												
Car	A7	2004												
Car	A7	2005												
Car	A7	2006												
Car	A7	2007												
Car	A7	2008												
Car	A7	2009		32.9%	100.0%						100.0%		100.0%	
Car	A7	2010		14.3%	84.4%	15.6%					100.0%		100.0%	
Car	A7	2011			60.4%	39.6%					100.0%		100.0%	
Car	A7	2012		3.2%	86.4%	13.6%					100.0%		100.0%	
Car	CVT	1975												
Car	CVT	1976												
Car	CVT	1977												
Car	CVT	1978												
Car	CVT	1979												
Car	CVT	1980												
Car	CVT	1981												
Car	CVT	1982												
Car	CVT	1983												
Car	CVT	1984												
Car	CVT	1985												
Car	CVT	1986												
Car	CVT	1987												
Car	CVT	1988												
Car	CVT	1989	100.0%							100.0%				
Car	CVT	1990	30.8%	69.2%		100.0%				100.0%				
Car	CVT	1991		100.0%		100.0%				100.0%				
Car	CVT	1992	54.5%	45.5%		100.0%				100.0%				
Car	CVT	1993		100.0%		100.0%				100.0%				
Car	CVT	1994												
Car	CVT	1995												
Car	CVT	1996	100.0%			100.0%					100.0%		100.0%	
Car	CVT	1997	100.0%			100.0%					100.0%		100.0%	
Car	CVT	1998	100.0%			100.0%					100.0%		100.0%	
Car	CVT	1999	100.0%			100.0%					100.0%		100.0%	
Car	CVT	2000	100.0%			100.0%					100.0%		100.0%	

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	CVT	2001	19	0.002	56.9	42.8	41.8	42.3	2921	96.2	89	73	17.3	0.821	0.0252	62.0	4063	5989
Car	CVT	2002	36	0.004	42.8	30.6	35.1	33.0	3099	98.9	104	102	15.4	0.951	0.0320	54.7	3531	5410
Car	CVT	2003	123	0.014	34.2	23.8	29.8	26.8	3371	113.8	131	145	10.8	1.084	0.0416	47.8	3213	5346
Car	CVT	2004	143	0.017	38.5	26.7	32.5	29.7	3289	110.4	125	134	10.4	1.041	0.0392	53.1	3661	5860
Car	CVT	2005	244	0.028	41.2	28.6	33.6	31.3	3340	116.8	124	128	10.0	0.994	0.0365	57.2	4072	6587
Car	CVT	2006	233	0.027	39.1	26.9	32.7	29.9	3427	117.1	129	141	10.0	1.074	0.0395	55.8	3885	6434
Car	CVT	2007	874	0.097	37.3	25.7	31.4	28.6	3435	113.9	136	158	9.9	1.143	0.0451	51.6	3466	5856
Car	CVT	2008	894	0.108	38.2	26.2	32.2	29.3	3365	112.5	133	152	9.9	1.124	0.0446	51.5	3491	5789
Car	CVT	2009	693	0.111	36.5	25.1	31.0	28.2	3473	114.4	144	168	9.7	1.146	0.0474	50.6	3362	5770
Car	CVT	2010	970	0.139	41.2	28.3	34.2	31.4	3501	113.8	138	155	9.8	1.109	0.0439	59.3	3863	6751
Car	CVT	2011	827	0.119	38.7	26.4	32.8	29.7	3480	112.7	140	163	9.8	1.161	0.0465	54.8	3549	6171
Car	CVT	2012	1014	0.119	43.9	30.2	35.7	33.1	3324	111.4	126	141	10.2	1.108	0.0421	58.2	3914	6506
Car	L2	1975																
Car	L2	1976																
Car	L2	1977																
Car	L2	1978	45	0.004	28.7	23.8	25.1	24.3	2151	85.7	92	64	14.7	0.698	0.0299	26.3	2097	2272
Car	L2	1979	82	0.008	26.1	21.7	22.6	22.1	2330	85.1	98	65	15.5	0.662	0.0279	25.7	1882	2208
Car	L2	1980	31	0.003	30.3	25.4	26.0	25.6	2069	90.4	91	67	13.8	0.736	0.0325	26.5	2312	2405
Car	L2	1981																
Car	L2	1982																
Car	L2	1983																
Car	L2	1984																
Car	L2	1985																
Car	L2	1986																
Car	L2	1987																
Car	L2	1988																
Car	L2	1989																
Car	L2	1990																
Car	L2	1991																
Car	L2	1992																
Car	L2	1993																
Car	L2	1994																
Car	L2	1995																
Car	L2	1996																
Car	L2	1997																
Car	L2	1998																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	CVT	2001	100.0%			100.0%					100.0%		100.0%	8.1%
Car	CVT	2002	100.0%			100.0%			1.0%		78.5%	20.5%	67.8%	66.3%
Car	CVT	2003	100.0%			100.0%			21.6%		65.8%	12.6%	52.8%	33.3%
Car	CVT	2004	100.0%			100.0%			12.8%		78.1%	9.1%	66.7%	46.7%
Car	CVT	2005	86.7%	13.3%		100.0%			9.1%		87.3%	3.6%	72.5%	60.5%
Car	CVT	2006	89.7%	10.3%		100.0%			13.4%		84.5%	2.2%	68.1%	54.6%
Car	CVT	2007	96.8%	3.2%		100.0%			3.7%		96.3%		96.0%	31.4%
Car	CVT	2008	99.6%	0.4%	1.7%	98.3%			3.6%		96.4%		92.4%	29.4%
Car	CVT	2009	100.0%		1.0%	99.0%			2.8%		97.2%		98.9%	24.9%
Car	CVT	2010	96.2%	3.7%	1.0%	99.0%			5.3%		94.7%		100.0%	39.2%
Car	CVT	2011	91.0%	9.0%	6.1%	93.9%			1.7%		98.3%		98.7%	26.3%
Car	CVT	2012	90.3%	9.7%	3.7%	96.3%			5.2%		94.8%		98.6%	39.5%
Car	L2	1975												
Car	L2	1976												
Car	L2	1977												
Car	L2	1978	100.0%											
Car	L2	1979	100.0%											
Car	L2	1980	100.0%											
Car	L2	1981												
Car	L2	1982												
Car	L2	1983												
Car	L2	1984												
Car	L2	1985												
Car	L2	1986												
Car	L2	1987												
Car	L2	1988												
Car	L2	1989												
Car	L2	1990												
Car	L2	1991												
Car	L2	1992												
Car	L2	1993												
Car	L2	1994												
Car	L2	1995												
Car	L2	1996												
Car	L2	1997												
Car	L2	1998												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	L2	1999																
Car	L2	2000																
Car	L2	2001																
Car	L2	2002																
Car	L2	2003																
Car	L2	2004																
Car	L2	2005																
Car	L2	2006																
Car	L2	2007																
Car	L2	2008																
Car	L2	2009																
Car	L2	2010																
Car	L2	2011																
Car	L2	2012																
Car	L3	1975																
Car	L3	1976																
Car	L3	1977																
Car	L3	1978	749	0.067	17.2	13.3	16.9	14.7	4133	114.8	311	146	13.3	0.471	0.0352	30.4	1701	3486
Car	L3	1979	869	0.080	18.5	14.4	17.9	15.8	3822	116.0	301	142	12.8	0.472	0.0373	30.2	1842	3507
Car	L3	1980	1339	0.142	19.9	15.4	19.4	17.0	3759	117.5	270	120	14.5	0.449	0.0322	32.2	2020	3826
Car	L3	1981	2262	0.259	22.4	17.4	21.8	19.1	3641	115.3	254	115	14.6	0.466	0.0317	35.1	2235	4086
Car	L3	1982	3032	0.387	24.4	18.7	24.0	20.8	3266	111.6	204	105	14.4	0.549	0.0322	34.2	2358	3838
Car	L3	1983	2832	0.352	24.4	18.8	24.0	20.8	3235	112.1	202	108	14.0	0.563	0.0331	33.9	2372	3803
Car	L3	1984	3927	0.366	25.5	19.6	25.1	21.7	3184	111.1	190	106	14.0	0.594	0.0332	34.7	2447	3858
Car	L3	1985	3206	0.295	26.8	20.6	26.4	22.9	3104	109.6	180	104	13.9	0.611	0.0333	35.6	2543	3910
Car	L3	1986	2998	0.271	27.6	21.2	27.1	23.5	3024	107.6	167	100	14.0	0.633	0.0331	35.6	2562	3841
Car	L3	1987	2679	0.247	29.1	22.2	28.2	24.6	2925	107.0	151	99	13.9	0.684	0.0335	36.1	2659	3866
Car	L3	1988	3028	0.279	29.8	22.7	28.7	25.1	2866	105.8	140	101	13.5	0.736	0.0350	36.1	2679	3825
Car	L3	1989	2467	0.244	30.0	22.6	28.9	25.2	2865	104.8	138	105	13.1	0.775	0.0365	36.1	2649	3789
Car	L3	1990	1980	0.223	29.7	22.1	28.7	24.9	2913	104.1	139	111	12.7	0.814	0.0379	36.3	2597	3778
Car	L3	1991	1796	0.205	28.9	21.4	27.9	24.1	2928	104.0	144	113	12.5	0.802	0.0387	35.4	2524	3688
Car	L3	1992	1659	0.199	28.3	20.7	27.5	23.6	3007	104.0	151	123	11.9	0.832	0.0407	35.5	2467	3700
Car	L3	1993	1449	0.162	28.2	20.5	27.4	23.4	3025	104.9	157	125	11.8	0.806	0.0412	35.5	2473	3732
Car	L3	1994	911	0.104	30.1	22.0	28.5	24.8	2896	102.2	132	110	12.6	0.852	0.0379	36.0	2545	3682
Car	L3	1995	901	0.094	31.3	22.6	29.4	25.6	2840	103.1	124	121	11.5	0.981	0.0426	36.4	2647	3756
Car	L3	1996	678	0.083	31.6	22.8	29.2	25.7	2825	101.6	119	121	11.5	1.020	0.0430	36.4	2619	3697

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

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			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	L2	1999												
Car	L2	2000												
Car	L2	2001												
Car	L2	2002												
Car	L2	2003												
Car	L2	2004												
Car	L2	2005												
Car	L2	2006												
Car	L2	2007												
Car	L2	2008												
Car	L2	2009												
Car	L2	2010												
Car	L2	2011												
Car	L2	2012												
Car	L3	1975												
Car	L3	1976												
Car	L3	1977												
Car	L3	1978												
Car	L3	1979												
Car	L3	1980	2.0%					8.3%						
Car	L3	1981		0.7%			0.3%	11.9%						
Car	L3	1982	33.0%	0.7%		2.0%	15.7%	5.2%						
Car	L3	1983	41.4%	1.3%		1.0%	21.8%	1.4%						
Car	L3	1984	51.2%	1.0%		6.5%	31.0%	0.7%						
Car	L3	1985	59.4%	1.3%		7.0%	49.1%	0.1%						
Car	L3	1986	71.9%			9.7%	61.7%		100.0%					
Car	L3	1987	88.4%			14.4%	56.2%		94.5%	4.5%	1.0%			
Car	L3	1988	97.7%			25.3%	58.8%		87.9%	5.8%	6.4%			
Car	L3	1989	99.2%	0.1%		27.8%	60.3%		81.2%	7.3%	11.5%			
Car	L3	1990	99.9%	0.1%		42.1%	56.0%		75.1%	2.3%	22.6%			
Car	L3	1991	98.3%			42.4%	57.6%		81.6%	4.5%	13.8%		1.4%	
Car	L3	1992	98.5%			78.0%	22.0%		80.3%	3.0%	16.6%		1.2%	
Car	L3	1993	98.1%			78.9%	21.1%		90.8%	2.4%	6.8%			
Car	L3	1994	98.7%			77.5%	22.5%		81.9%	4.9%	13.2%			
Car	L3	1995	99.1%			96.1%	3.9%		41.3%		58.7%			
Car	L3	1996	99.0%			100.0%			46.6%		53.4%			

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	L3	1997	613	0.071	31.3	22.6	28.5	25.4	2816	99.8	116	114	12.0	0.988	0.0404	35.7	2532	3564
Car	L3	1998	441	0.052	31.2	22.1	29.0	25.3	2840	100.8	123	124	11.1	1.016	0.0439	36.0	2558	3625
Car	L3	1999	360	0.041	31.6	22.4	28.8	25.4	2855	100.2	122	122	11.3	1.010	0.0429	36.4	2559	3643
Car	L3	2000	506	0.052	31.2	22.0	28.3	25.0	2924	101.4	124	126	11.2	1.025	0.0433	36.5	2539	3707
Car	L3	2001	289	0.032	32.7	22.9	29.3	26.0	2909	102.0	120	127	11.1	1.065	0.0437	37.9	2666	3870
Car	L3	2002	70	0.008	36.0	25.3	30.9	28.1	2750	100.1	109	125	10.7	1.142	0.0455	38.7	2818	3875
Car	L3	2003																
Car	L3	2004																
Car	L3	2005																
Car	L3	2006																
Car	L3	2007																
Car	L3	2008																
Car	L3	2009																
Car	L3	2010																
Car	L3	2011																
Car	L3	2012																
Car	L4	1975																
Car	L4	1976																
Car	L4	1977																
Car	L4	1978																
Car	L4	1979																
Car	L4	1980	219	0.023	19.3	14.5	20.0	16.5	3975	128.1	321	141	13.1	0.438	0.0356	32.8	2114	4220
Car	L4	1981	651	0.074	19.8	14.8	20.5	16.9	4001	132.8	297	140	13.3	0.472	0.0351	33.9	2247	4508
Car	L4	1982	986	0.126	20.2	15.1	20.9	17.3	4016	128.3	288	141	13.4	0.495	0.0352	34.9	2225	4495
Car	L4	1983	1722	0.214	21.4	16.1	22.1	18.3	3820	123.3	267	134	13.3	0.524	0.0352	35.1	2273	4337
Car	L4	1984	2331	0.217	21.9	16.4	22.5	18.7	3733	118.4	260	133	13.1	0.543	0.0359	35.1	2239	4177
Car	L4	1985	3197	0.294	23.1	17.3	24.0	19.8	3630	119.5	246	137	12.7	0.584	0.0376	36.0	2385	4321
Car	L4	1986	3441	0.311	25.0	18.5	26.0	21.3	3478	117.3	223	137	12.2	0.653	0.0395	37.0	2511	4362
Car	L4	1987	3783	0.349	25.2	18.6	26.0	21.4	3446	115.2	211	138	12.2	0.693	0.0399	37.0	2485	4274
Car	L4	1988	4152	0.383	25.7	18.9	26.4	21.8	3465	115.5	210	141	11.9	0.714	0.0406	37.8	2530	4380
Car	L4	1989	4553	0.450	25.7	18.7	26.3	21.7	3443	115.0	203	141	11.8	0.740	0.0411	37.4	2504	4311
Car	L4	1990	4483	0.505	25.8	18.7	26.3	21.7	3467	113.4	194	145	11.7	0.789	0.0417	37.7	2477	4287
Car	L4	1991	4648	0.531	26.2	18.9	26.4	22.0	3421	113.2	191	148	11.4	0.818	0.0430	37.6	2509	4273
Car	L4	1992	4719	0.565	25.8	18.5	26.3	21.7	3504	114.8	196	156	11.2	0.837	0.0443	38.0	2504	4373
Car	L4	1993	5470	0.613	26.3	18.8	26.4	21.9	3445	114.1	189	153	11.3	0.846	0.0440	37.9	2533	4333
Car	L4	1994	5972	0.683	26.4	18.7	26.5	22.0	3438	112.7	187	155	11.1	0.862	0.0447	37.9	2499	4272

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	L3	1997	99.5%			100.0%			39.0%		61.0%			
Car	L3	1998	99.3%			100.0%			37.7%		62.3%			
Car	L3	1999	99.8%			100.0%			43.2%		56.8%			
Car	L3	2000	94.4%			100.0%			37.1%		62.9%		17.0%	
Car	L3	2001	87.2%			100.0%			19.4%		80.6%		36.2%	
Car	L3	2002	100.0%			100.0%					100.0%		100.0%	
Car	L3	2003												
Car	L3	2004												
Car	L3	2005												
Car	L3	2006												
Car	L3	2007												
Car	L3	2008												
Car	L3	2009												
Car	L3	2010												
Car	L3	2011												
Car	L3	2012												
Car	L4	1975												
Car	L4	1976												
Car	L4	1977												
Car	L4	1978												
Car	L4	1979												
Car	L4	1980					8.9%							
Car	L4	1981					10.4%							
Car	L4	1982	14.8%			2.3%	19.7%	4.6%						
Car	L4	1983	17.3%			6.5%	36.7%	1.8%						
Car	L4	1984	17.9%			14.3%	35.2%	0.8%						
Car	L4	1985	41.5%	1.3%		27.8%	30.8%	0.5%						
Car	L4	1986	56.7%	0.0%		61.6%	7.8%	0.1%	94.8%	4.0%	1.2%			
Car	L4	1987	60.8%	0.0%		68.8%	12.8%		83.3%	8.7%	8.0%			
Car	L4	1988	65.1%	0.1%		79.1%	10.7%		80.2%	8.1%	11.7%			
Car	L4	1989	70.8%	0.3%		83.3%	11.7%		78.1%	9.9%	12.0%			
Car	L4	1990	77.5%	0.8%		94.9%	4.3%		71.1%	4.2%	24.7%		1.2%	
Car	L4	1991	74.5%	1.1%		90.9%	9.1%		69.5%	4.0%	26.5%		2.6%	
Car	L4	1992	70.1%	0.7%		94.4%	5.6%		67.3%	2.5%	30.2%		4.6%	
Car	L4	1993	74.4%	1.2%		96.6%	3.4%		63.9%	0.5%	35.6%		4.8%	
Car	L4	1994	78.8%	0.4%		99.1%	0.9%		61.1%		38.9%		7.7%	

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	L4	1995	6946	0.722	26.9	18.9	27.1	22.4	3409	112.2	182	162	10.7	0.915	0.0469	38.2	2532	4288
Car	L4	1996	6131	0.750	26.9	18.8	26.9	22.3	3423	112.4	180	163	10.6	0.932	0.0471	38.1	2518	4292
Car	L4	1997	6628	0.762	27.4	19.0	27.2	22.5	3382	111.8	175	163	10.6	0.954	0.0476	38.2	2537	4270
Car	L4	1998	6512	0.773	27.7	19.1	27.3	22.7	3385	111.2	172	163	10.6	0.971	0.0476	38.5	2547	4288
Car	L4	1999	6990	0.789	27.5	18.9	26.9	22.5	3433	111.9	172	166	10.5	0.985	0.0479	38.7	2533	4331
Car	L4	2000	7315	0.751	27.5	18.8	26.7	22.4	3441	112.5	172	170	10.4	1.005	0.0488	38.6	2541	4353
Car	L4	2001	6820	0.746	27.9	19.0	26.9	22.6	3426	112.5	170	167	10.4	1.002	0.0483	38.9	2573	4384
Car	L4	2002	6803	0.764	28.3	19.3	26.9	22.8	3405	113.1	168	169	10.3	1.025	0.0492	39.1	2608	4422
Car	L4	2003	5734	0.675	28.9	19.5	27.3	23.2	3406	113.5	167	167	10.3	1.025	0.0485	39.6	2657	4502
Car	L4	2004	5253	0.643	28.9	19.3	27.3	23.2	3434	114.4	169	172	10.2	1.042	0.0497	39.8	2674	4569
Car	L4	2005	5059	0.572	29.8	19.9	27.6	23.6	3382	114.6	161	168	10.2	1.067	0.0491	40.0	2730	4594
Car	L4	2006	4153	0.475	29.5	19.7	27.5	23.5	3444	116.0	164	173	10.1	1.078	0.0497	40.5	2744	4702
Car	L4	2007	3315	0.368	30.6	20.4	28.4	24.3	3372	113.0	158	165	10.3	1.073	0.0486	41.0	2774	4637
Car	L4	2008	3242	0.393	30.4	20.2	28.3	24.1	3454	113.3	160	171	10.2	1.093	0.0490	41.7	2763	4732
Car	L4	2009	2190	0.351	32.8	21.9	29.9	25.8	3332	111.7	144	160	10.5	1.126	0.0474	43.2	2920	4828
Car	L4	2010	2057	0.295	34.1	22.7	30.9	26.8	3268	111.7	140	157	10.5	1.138	0.0475	43.8	3016	4891
Car	L4	2011	1096	0.158	33.3	22.2	30.6	26.3	3335	114.8	147	157	10.6	1.100	0.0466	43.8	3044	5036
Car	L4	2012	611	0.072	36.3	24.4	32.2	28.3	3107	109.0	120	141	10.9	1.174	0.0451	43.9	3093	4789
Car	L5	1975																
Car	L5	1976																
Car	L5	1977																
Car	L5	1978																
Car	L5	1979																
Car	L5	1980																
Car	L5	1981																
Car	L5	1982																
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Car	L5	1985																
Car	L5	1986																
Car	L5	1987																
Car	L5	1988																
Car	L5	1989																
Car	L5	1990																
Car	L5	1991																
Car	L5	1992																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	L4	1995	78.5%	1.1%		100.0%			53.7%	0.5%	45.7%		9.7%	
Car	L4	1996	83.2%	1.3%		100.0%			45.6%	0.5%	53.9%		11.0%	
Car	L4	1997	85.2%	1.4%		100.0%			44.2%	0.7%	55.1%		9.9%	
Car	L4	1998	87.4%	1.7%		100.0%		0.0%	42.4%	0.7%	56.9%		16.2%	
Car	L4	1999	88.3%	1.4%		100.0%		0.0%	38.2%	0.8%	61.0%	0.0%	14.6%	
Car	L4	2000	86.9%	1.4%		100.0%			39.5%	0.7%	59.6%	0.2%	18.8%	
Car	L4	2001	88.3%	1.3%		99.9%		0.1%	39.8%	0.1%	60.1%		21.5%	
Car	L4	2002	91.3%	1.4%		99.7%		0.3%	35.6%	0.1%	64.2%	0.1%	27.9%	
Car	L4	2003	89.6%	1.8%		99.8%		0.2%	35.7%		64.2%	0.1%	31.7%	
Car	L4	2004	89.1%	2.6%		100.0%			32.5%		67.4%	0.1%	31.1%	
Car	L4	2005	90.0%	2.8%		100.0%			29.8%		70.2%		35.7%	
Car	L4	2006	90.4%	2.9%		100.0%			29.3%		70.7%		40.2%	
Car	L4	2007	94.5%	2.3%		100.0%			31.0%		69.0%		46.4%	0.3%
Car	L4	2008	88.2%	3.6%		100.0%			22.5%		77.5%		48.0%	0.1%
Car	L4	2009	90.2%	4.8%	0.1%	99.9%			15.1%		84.9%		71.8%	0.4%
Car	L4	2010	90.5%	1.6%	0.0%	100.0%			10.5%		89.5%		82.3%	0.0%
Car	L4	2011	93.5%	2.5%		100.0%			22.6%		77.4%		86.1%	
Car	L4	2012	99.9%	0.1%		100.0%					100.0%		100.0%	
Car	L5	1975												
Car	L5	1976												
Car	L5	1977												
Car	L5	1978												
Car	L5	1979												
Car	L5	1980												
Car	L5	1981												
Car	L5	1982												
Car	L5	1983												
Car	L5	1984												
Car	L5	1985												
Car	L5	1986												
Car	L5	1987												
Car	L5	1988												
Car	L5	1989												
Car	L5	1990												
Car	L5	1991												
Car	L5	1992												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	L5	1993	9	0.001	20.7	14.6	21.3	17.4	4247	116.2	243	280	8.0	1.153	0.0662	36.8	2017	4286
Car	L5	1994	22	0.003	21.8	15.3	22.7	18.3	4011	110.0	222	258	8.2	1.164	0.0643	36.7	2013	4035
Car	L5	1995	29	0.003	22.5	15.7	23.2	18.8	4301	110.8	233	271	8.3	1.167	0.0630	40.5	2086	4493
Car	L5	1996	27	0.003	22.1	15.4	22.4	18.4	4310	106.7	246	258	8.8	1.054	0.0592	39.5	1972	4236
Car	L5	1997	168	0.019	24.1	16.8	23.9	19.9	4024	109.2	220	228	9.3	1.049	0.0562	40.2	2193	4394
Car	L5	1998	410	0.049	23.6	16.6	22.9	19.4	3951	112.7	217	207	10.0	0.980	0.0521	38.7	2201	4340
Car	L5	1999	506	0.057	24.2	16.8	23.6	19.8	3875	111.7	203	205	9.9	1.056	0.0528	38.7	2231	4313
Car	L5	2000	763	0.078	23.9	16.4	23.3	19.5	3855	112.7	204	211	9.6	1.062	0.0545	37.9	2218	4259
Car	L5	2001	944	0.103	24.3	16.7	23.5	19.8	3817	111.4	193	219	9.1	1.167	0.0572	38.0	2212	4223
Car	L5	2002	979	0.110	25.3	17.2	24.5	20.6	3794	106.8	186	218	9.0	1.207	0.0574	39.1	2214	4186
Car	L5	2003	1641	0.193	26.8	18.0	25.9	21.7	3660	107.1	178	211	9.1	1.202	0.0575	39.9	2352	4281
Car	L5	2004	1752	0.214	26.8	17.9	25.8	21.6	3740	109.7	178	214	9.1	1.215	0.0570	40.7	2398	4470
Car	L5	2005	2390	0.270	27.0	17.9	25.9	21.7	3794	115.3	189	214	9.3	1.150	0.0561	41.5	2536	4792
Car	L5	2006	2563	0.293	27.8	18.4	26.4	22.2	3757	115.8	190	219	9.1	1.164	0.0575	42.2	2617	4881
Car	L5	2007	2656	0.295	28.9	19.1	27.2	23.0	3656	114.8	174	201	9.5	1.170	0.0543	42.4	2686	4872
Car	L5	2008	1909	0.232	29.6	19.6	27.8	23.6	3629	115.0	169	200	9.5	1.201	0.0544	43.1	2760	4962
Car	L5	2009	1695	0.271	31.6	20.8	29.6	25.0	3521	115.3	155	183	9.9	1.191	0.0512	44.2	2915	5096
Car	L5	2010	1236	0.177	32.4	21.4	30.3	25.7	3440	111.6	154	188	9.6	1.234	0.0537	44.4	2911	4954
Car	L5	2011	780	0.113	32.7	21.5	30.8	26.0	3488	114.3	157	193	9.5	1.240	0.0544	45.4	3003	5192
Car	L5	2012	971	0.114	34.7	22.7	32.3	27.3	3421	113.8	151	184	9.7	1.232	0.0527	47.0	3152	5337
Car	L6	1975																
Car	L6	1976																
Car	L6	1977																
Car	L6	1978																
Car	L6	1979																
Car	L6	1980																
Car	L6	1981																
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Car	L6	1986																
Car	L6	1987																
Car	L6	1988																
Car	L6	1989																
Car	L6	1990																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	L5	1993				100.0%					100.0%			
Car	L5	1994				100.0%					100.0%		35.2%	
Car	L5	1995				100.0%			2.0%		98.0%		21.5%	
Car	L5	1996	16.2%	11.4%		100.0%			32.2%		67.8%		72.4%	
Car	L5	1997	1.8%	4.8%		98.4%		1.6%	13.1%	7.0%	76.7%	3.2%	41.5%	
Car	L5	1998	4.8%	6.7%		99.2%		0.8%	36.6%	13.1%	39.3%	11.0%	35.8%	
Car	L5	1999	12.4%	8.4%		99.0%		1.0%	28.8%	18.4%	32.4%	20.4%	36.0%	
Car	L5	2000	21.8%	5.4%		99.1%		0.9%	21.5%	11.7%	55.0%	11.7%	44.7%	
Car	L5	2001	27.9%	11.5%		100.0%			12.3%	15.2%	57.3%	15.2%	53.6%	
Car	L5	2002	36.9%	13.8%		100.0%			2.9%	14.4%	66.4%	16.2%	56.1%	
Car	L5	2003	55.4%	7.3%		100.0%			2.1%	11.3%	77.2%	9.4%	64.5%	
Car	L5	2004	65.7%	12.0%		99.4%		0.6%	0.6%	6.0%	87.1%	6.4%	74.7%	
Car	L5	2005	62.6%	12.6%		99.1%		0.9%	15.3%	5.0%	77.8%	1.9%	73.9%	0.8%
Car	L5	2006	67.9%	8.3%		99.8%		0.2%	9.9%	2.2%	87.8%	0.1%	77.6%	0.2%
Car	L5	2007	76.1%	5.7%	0.1%	99.9%			9.3%	1.2%	89.5%		77.9%	0.1%
Car	L5	2008	79.3%	6.8%		100.0%			8.9%	0.8%	90.3%		78.7%	
Car	L5	2009	91.4%	2.8%	0.1%	99.9%			5.2%	0.3%	94.5%		87.9%	
Car	L5	2010	87.6%	2.4%		100.0%			5.8%	0.8%	93.4%		93.7%	
Car	L5	2011	85.7%	1.5%		100.0%			4.1%	0.0%	95.9%		95.7%	
Car	L5	2012	90.3%	1.4%		100.0%			5.4%	0.0%	94.6%		99.4%	
Car	L6	1975												
Car	L6	1976												
Car	L6	1977												
Car	L6	1978												
Car	L6	1979												
Car	L6	1980												
Car	L6	1981												
Car	L6	1982												
Car	L6	1983												
Car	L6	1984												
Car	L6	1985												
Car	L6	1986												
Car	L6	1987												
Car	L6	1988												
Car	L6	1989												
Car	L6	1990												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	L6	1991																
Car	L6	1992																
Car	L6	1993																
Car	L6	1994																
Car	L6	1995																
Car	L6	1996																
Car	L6	1997																
Car	L6	1998																
Car	L6	1999																
Car	L6	2000	0	0.000	14.5	9.8	15.2	12.1	3500	50.0	219	394	5.2	1.799	0.1126	21.2	606	1060
Car	L6	2001	1	0.000	14.5	9.7	15.1	12.1	3500	50.0	219	394	5.2	1.799	0.1126	21.2	605	1058
Car	L6	2002	23	0.003	22.5	15.1	22.5	18.5	4351	113.6	258	334	7.1	1.311	0.0773	40.8	2153	4743
Car	L6	2003	71	0.008	24.4	16.3	23.9	19.8	3980	101.7	206	263	8.7	1.269	0.0651	39.7	2024	4081
Car	L6	2004	172	0.021	24.6	16.3	24.3	20.0	3996	109.1	216	264	8.5	1.218	0.0653	40.1	2199	4410
Car	L6	2005	322	0.036	26.2	17.3	25.2	21.1	3897	113.0	193	229	9.2	1.179	0.0578	41.3	2417	4702
Car	L6	2006	851	0.097	27.6	18.2	26.4	22.1	3745	107.0	183	224	9.0	1.239	0.0595	41.7	2396	4483
Car	L6	2007	1250	0.139	26.9	17.7	25.9	21.6	3927	113.9	195	243	8.6	1.265	0.0618	42.6	2471	4873
Car	L6	2008	1371	0.166	26.8	17.6	25.9	21.6	3935	113.7	196	250	8.4	1.296	0.0634	42.6	2466	4866
Car	L6	2009	1071	0.172	28.1	18.5	26.8	22.5	3840	113.0	187	237	8.6	1.279	0.0611	43.6	2575	4929
Car	L6	2010	2016	0.289	29.4	19.4	27.9	23.5	3837	119.0	179	225	9.0	1.257	0.0584	45.3	2824	5408
Car	L6	2011	3510	0.506	31.3	20.6	29.8	25.0	3724	118.4	165	212	9.3	1.293	0.0564	46.8	3000	5560
Car	L6	2012	4330	0.508	33.3	21.9	31.2	26.4	3565	115.6	155	200	9.5	1.305	0.0554	47.3	3094	5478
Car	L7	1975																
Car	L7	1976																
Car	L7	1977																
Car	L7	1978																
Car	L7	1979																
Car	L7	1980																
Car	L7	1981																
Car	L7	1982																
Car	L7	1983																
Car	L7	1984																
Car	L7	1985																
Car	L7	1986																
Car	L7	1987																
Car	L7	1988																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	L6	1991												
Car	L6	1992												
Car	L6	1993												
Car	L6	1994												
Car	L6	1995												
Car	L6	1996												
Car	L6	1997												
Car	L6	1998												
Car	L6	1999												
Car	L6	2000				100.0%						100.0%	100.0%	
Car	L6	2001				100.0%						100.0%	100.0%	
Car	L6	2002				100.0%					98.0%	2.0%	100.0%	
Car	L6	2003	25.0%			100.0%			16.8%		74.2%	9.0%	75.0%	
Car	L6	2004	14.2%	8.4%		99.4%		0.6%	9.0%		77.3%	13.7%	84.7%	
Car	L6	2005	55.8%	11.9%		98.7%		1.3%	7.7%		86.0%	6.3%	43.4%	
Car	L6	2006	48.7%	10.6%		96.7%		3.3%	5.8%		92.8%	1.3%	73.2%	
Car	L6	2007	65.1%	13.1%	0.7%	99.3%			1.9%		98.0%	0.1%	57.0%	0.3%
Car	L6	2008	60.3%	16.7%	14.3%	85.7%			1.9%		98.1%	0.0%	57.4%	0.1%
Car	L6	2009	66.0%	14.2%	19.2%	78.0%		2.8%	2.4%		97.6%	0.0%	68.2%	0.0%
Car	L6	2010	76.8%	11.3%	25.3%	74.6%		0.1%	2.1%		97.9%		99.2%	
Car	L6	2011	82.5%	7.8%	29.9%	68.7%		1.4%	1.5%	0.2%	98.3%		97.0%	
Car	L6	2012	87.5%	5.0%	38.8%	61.2%			1.0%	0.4%	98.7%		99.2%	0.6%
Car	L7	1975												
Car	L7	1976												
Car	L7	1977												
Car	L7	1978												
Car	L7	1979												
Car	L7	1980												
Car	L7	1981												
Car	L7	1982												
Car	L7	1983												
Car	L7	1984												
Car	L7	1985												
Car	L7	1986												
Car	L7	1987												
Car	L7	1988												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	L7	1989																
Car	L7	1990																
Car	L7	1991																
Car	L7	1992																
Car	L7	1993																
Car	L7	1994																
Car	L7	1995																
Car	L7	1996																
Car	L7	1997																
Car	L7	1998																
Car	L7	1999																
Car	L7	2000																
Car	L7	2001																
Car	L7	2002																
Car	L7	2003																
Car	L7	2004	35	0.004	21.9	14.6	21.6	17.9	4161	93.4	296	298	7.5	1.006	0.0718	37.3	1684	3547
Car	L7	2005	39	0.004	22.9	15.2	22.5	18.6	3951	79.1	279	293	7.3	1.066	0.0745	36.8	1469	2965
Car	L7	2006	166	0.019	23.7	15.8	22.7	19.1	4171	111.0	226	268	8.3	1.211	0.0650	40.1	2136	4522
Car	L7	2007	170	0.019	23.0	15.3	22.4	18.6	4295	108.8	246	300	7.9	1.236	0.0698	40.2	2039	4423
Car	L7	2008	178	0.022	23.9	15.8	23.0	19.3	4227	106.5	239	295	7.8	1.240	0.0695	41.1	2070	4402
Car	L7	2009	179	0.029	25.0	16.6	24.1	20.2	4104	100.7	228	299	7.5	1.317	0.0729	41.6	2047	4217
Car	L7	2010	214	0.031	25.0	16.7	23.9	20.1	4180	106.4	226	294	7.7	1.302	0.0703	42.2	2146	4493
Car	L7	2011	259	0.037	25.7	17.1	24.5	20.7	4142	104.0	220	291	7.7	1.326	0.0702	43.0	2157	4479
Car	L7	2012	283	0.033	27.8	18.3	26.7	22.3	4097	101.4	205	298	7.6	1.481	0.0724	46.0	2284	4703
Car	L8	1975																
Car	L8	1976																
Car	L8	1977																
Car	L8	1978																
Car	L8	1979																
Car	L8	1980																
Car	L8	1981																
Car	L8	1982																
Car	L8	1983																
Car	L8	1984																
Car	L8	1985																
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2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	L7	1989												
Car	L7	1990												
Car	L7	1991												
Car	L7	1992												
Car	L7	1993												
Car	L7	1994												
Car	L7	1995												
Car	L7	1996												
Car	L7	1997												
Car	L7	1998												
Car	L7	1999												
Car	L7	2000												
Car	L7	2001												
Car	L7	2002												
Car	L7	2003												
Car	L7	2004				100.0%				100.0%				
Car	L7	2005				100.0%				75.9%	24.1%		26.1%	
Car	L7	2006		11.7%		100.0%				37.4%	62.6%		71.5%	
Car	L7	2007		12.7%		97.7%		2.3%		0.7%	99.3%		38.3%	
Car	L7	2008		23.4%		97.4%		2.6%		0.2%	99.8%		24.4%	
Car	L7	2009		28.1%	1.0%	98.1%		0.9%		1.8%	98.2%		73.3%	
Car	L7	2010		37.1%	4.6%	95.4%				0.0%	100.0%		100.0%	0.7%
Car	L7	2011		42.0%	7.6%	91.1%		1.3%			100.0%		100.0%	0.1%
Car	L7	2012		33.4%	54.4%	44.4%		1.2%			100.0%		99.6%	1.4%
Car	L8	1975												
Car	L8	1976												
Car	L8	1977												
Car	L8	1978												
Car	L8	1979												
Car	L8	1980												
Car	L8	1981												
Car	L8	1982												
Car	L8	1983												
Car	L8	1984												
Car	L8	1985												
Car	L8	1986												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	L8	1987																
Car	L8	1988																
Car	L8	1989																
Car	L8	1990																
Car	L8	1991																
Car	L8	1992																
Car	L8	1993																
Car	L8	1994																
Car	L8	1995																
Car	L8	1996																
Car	L8	1997																
Car	L8	1998																
Car	L8	1999																
Car	L8	2000																
Car	L8	2001																
Car	L8	2002																
Car	L8	2003																
Car	L8	2004																
Car	L8	2005																
Car	L8	2006																
Car	L8	2007	35	0.004	25.2	16.5	24.7	20.4	4500	115.7	281	380	6.6	1.352	0.0844	45.9	2360	5309
Car	L8	2008	33	0.004	24.7	16.4	23.9	19.9	4497	113.8	284	382	6.4	1.343	0.0853	44.9	2272	5120
Car	L8	2009	10	0.002	24.2	16.0	23.6	19.6	4699	114.8	282	382	6.7	1.351	0.0816	46.0	2251	5290
Car	L8	2010	18	0.003	24.2	15.9	23.7	19.5	4724	117.4	278	385	6.8	1.389	0.0816	46.2	2303	5427
Car	L8	2011	111	0.016	29.3	19.3	28.4	23.6	4323	112.4	189	292	8.0	1.576	0.0670	51.4	2684	5786
Car	L8	2012	232	0.027	28.9	18.8	28.2	23.2	4216	115.0	203	316	7.4	1.604	0.0745	49.3	2702	5670
Car	M3	1975																
Car	M3	1976																
Car	M3	1977																
Car	M3	1978	60	0.005	19.2	14.8	18.9	16.4	3567	110.6	228	106	14.8	0.465	0.0297	30.4	1942	3390
Car	M3	1979	25	0.002	20.7	16.4	19.3	17.6	3616	112.7	230	104	15.2	0.453	0.0287	32.7	2054	3683
Car	M3	1980	17	0.002	21.1	16.9	19.5	18.0	3526	109.1	228	111	14.2	0.485	0.0314	31.8	1964	3464
Car	M3	1981	9	0.001	21.4	16.9	20.2	18.2	3500	103.7	229	115	13.7	0.501	0.0328	31.9	1892	3311
Car	M3	1982																
Car	M3	1983																
Car	M3	1984																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	L8	1987												
Car	L8	1988												
Car	L8	1989												
Car	L8	1990												
Car	L8	1991												
Car	L8	1992												
Car	L8	1993												
Car	L8	1994												
Car	L8	1995												
Car	L8	1996												
Car	L8	1997												
Car	L8	1998												
Car	L8	1999												
Car	L8	2000												
Car	L8	2001												
Car	L8	2002												
Car	L8	2003												
Car	L8	2004												
Car	L8	2005												
Car	L8	2006												
Car	L8	2007				100.0%					100.0%		100.0%	
Car	L8	2008		6.3%	8.4%	91.6%					100.0%		100.0%	6.3%
Car	L8	2009		42.6%	6.6%	93.4%					100.0%		100.0%	2.2%
Car	L8	2010		32.1%	21.2%	78.8%					100.0%		100.0%	
Car	L8	2011		53.8%	82.1%	17.9%			0.2%		99.8%		100.0%	0.5%
Car	L8	2012		39.3%	74.9%	25.1%			0.1%		99.9%		100.0%	1.0%
Car	M3	1975												
Car	M3	1976												
Car	M3	1977												
Car	M3	1978												
Car	M3	1979												
Car	M3	1980												
Car	M3	1981												
Car	M3	1982												
Car	M3	1983												
Car	M3	1984												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	M3	1985																
Car	M3	1986																
Car	M3	1987																
Car	M3	1988																
Car	M3	1989																
Car	M3	1990																
Car	M3	1991																
Car	M3	1992																
Car	M3	1993																
Car	M3	1994																
Car	M3	1995																
Car	M3	1996																
Car	M3	1997																
Car	M3	1998																
Car	M3	1999																
Car	M3	2000																
Car	M3	2001																
Car	M3	2002																
Car	M3	2003																
Car	M3	2004																
Car	M3	2005																
Car	M3	2006																
Car	M3	2007																
Car	M3	2008																
Car	M3	2009																
Car	M3	2010																
Car	M3	2011																
Car	M3	2012																
Car	M4	1975																
Car	M4	1976																
Car	M4	1977																
Car	M4	1978	1129	0.101	27.7	21.5	26.9	23.6	2567	88.4	123	82	14.4	0.701	0.0316	30.9	2208	2753
Car	M4	1979	1514	0.140	26.7	20.6	26.1	22.8	2610	89.9	124	83	14.5	0.696	0.0313	30.1	2131	2722
Car	M4	1980	1733	0.183	28.0	21.5	27.6	23.9	2582	93.9	123	80	14.7	0.659	0.0306	31.2	2307	2944
Car	M4	1981	1335	0.153	31.2	24.1	30.6	26.6	2499	99.0	116	78	14.4	0.692	0.0312	33.7	2697	3329
Car	M4	1982	1075	0.137	31.3	24.0	31.0	26.7	2557	94.7	117	77	14.9	0.675	0.0299	34.5	2596	3272

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	M3	1985												
Car	M3	1986												
Car	M3	1987												
Car	M3	1988												
Car	M3	1989												
Car	M3	1990												
Car	M3	1991												
Car	M3	1992												
Car	M3	1993												
Car	M3	1994												
Car	M3	1995												
Car	M3	1996												
Car	M3	1997												
Car	M3	1998												
Car	M3	1999												
Car	M3	2000												
Car	M3	2001												
Car	M3	2002												
Car	M3	2003												
Car	M3	2004												
Car	M3	2005												
Car	M3	2006												
Car	M3	2007												
Car	M3	2008												
Car	M3	2009												
Car	M3	2010												
Car	M3	2011												
Car	M3	2012												
Car	M4	1975												
Car	M4	1976												
Car	M4	1977												
Car	M4	1978	44.2%			21.2%		3.7%						
Car	M4	1979	31.9%	2.5%		9.8%		2.7%						
Car	M4	1980	47.2%	2.6%		8.3%		7.7%						
Car	M4	1981	62.3%	3.4%		4.3%		6.9%						
Car	M4	1982	69.6%	3.7%		4.4%	3.6%	3.5%						

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	M4	1983	545	0.068	33.6	26.1	32.6	28.7	2500	98.7	113	75	14.9	0.682	0.0299	36.3	2911	3584
Car	M4	1984	672	0.063	35.0	27.1	34.1	29.9	2510	93.8	112	77	14.7	0.695	0.0306	37.9	2901	3572
Car	M4	1985	451	0.041	36.1	28.0	35.1	30.8	2522	98.9	111	81	14.2	0.732	0.0319	39.2	3140	3894
Car	M4	1986	493	0.045	34.7	26.8	33.5	29.5	2542	95.7	114	84	14.1	0.737	0.0324	38.2	2942	3683
Car	M4	1987	348	0.032	35.7	27.9	33.1	30.1	2429	94.7	101	77	14.4	0.768	0.0314	37.2	2942	3539
Car	M4	1988	488	0.045	37.1	29.0	33.9	31.1	2355	96.4	97	74	14.4	0.761	0.0311	37.0	3066	3579
Car	M4	1989	315	0.031	38.1	29.3	35.1	31.8	2380	98.0	96	79	13.7	0.824	0.0330	38.1	3165	3742
Car	M4	1990	195	0.022	37.6	28.7	34.4	31.2	2462	97.1	97	86	13.0	0.892	0.0350	38.6	3057	3761
Car	M4	1991	143	0.016	38.8	29.8	34.7	32.0	2417	97.2	92	89	12.5	0.975	0.0370	38.7	3121	3769
Car	M4	1992	112	0.013	37.3	28.2	33.8	30.7	2425	97.7	98	93	12.4	0.956	0.0379	37.4	3023	3647
Car	M4	1993	78	0.009	38.6	29.1	34.3	31.5	2308	96.2	90	81	12.9	0.911	0.0354	36.4	3033	3499
Car	M4	1994	53	0.006	39.2	29.3	34.9	31.9	2250	95.0	89	82	12.6	0.921	0.0364	35.9	3029	3408
Car	M4	1995	18	0.002	42.5	31.1	38.0	34.3	2250	90.0	91	93	11.4	1.022	0.0413	38.6	3088	3474
Car	M4	1996	20	0.002	42.6	30.9	37.8	34.2	2250	90.0	91	93	11.4	1.022	0.0413	38.5	3077	3461
Car	M4	1997																
Car	M4	1998																
Car	M4	1999																
Car	M4	2000																
Car	M4	2001																
Car	M4	2002																
Car	M4	2003																
Car	M4	2004																
Car	M4	2005																
Car	M4	2006																
Car	M4	2007																
Car	M4	2008																
Car	M4	2009																
Car	M4	2010																
Car	M4	2011																
Car	M4	2012																
Car	M5	1975																
Car	M5	1976																
Car	M5	1977																
Car	M5	1978	1037	0.093	28.7	22.3	27.8	24.5	2564	86.2	114	85	14.1	0.753	0.0326	32.0	2203	2767
Car	M5	1979	742	0.069	25.9	19.8	25.7	22.1	2633	82.6	117	85	14.3	0.724	0.0318	29.7	1926	2471
Car	M5	1980	1173	0.124	29.1	22.4	28.5	24.8	2541	86.7	110	80	14.4	0.726	0.0313	32.0	2240	2792

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	M4	1983	65.0%	7.8%		7.5%	12.9%	3.5%						
Car	M4	1984	60.9%	5.4%		5.6%	28.7%	3.7%						
Car	M4	1985	73.4%	0.8%		8.9%	18.7%	0.4%						
Car	M4	1986	73.5%	0.9%		14.3%	9.9%	0.1%	99.8%		0.2%			
Car	M4	1987	91.0%	1.0%		14.0%	31.9%		77.5%	21.0%	1.5%			
Car	M4	1988	97.8%	0.6%		19.5%	36.2%		81.9%	13.7%	4.4%			
Car	M4	1989	99.3%	0.3%		20.9%	44.7%		64.5%	27.9%	7.6%			
Car	M4	1990	99.6%			31.9%	58.4%		42.6%	9.7%	47.8%			
Car	M4	1991	100.0%			69.5%	30.1%		21.3%	37.5%	41.2%		11.0%	
Car	M4	1992	95.5%			97.6%	2.4%		22.8%	58.0%	19.1%		19.0%	
Car	M4	1993	100.0%			95.8%	4.2%		23.3%	76.7%				
Car	M4	1994	100.0%			100.0%				100.0%				
Car	M4	1995	100.0%			100.0%					100.0%			
Car	M4	1996	100.0%			100.0%					100.0%			
Car	M4	1997												
Car	M4	1998												
Car	M4	1999												
Car	M4	2000												
Car	M4	2001												
Car	M4	2002												
Car	M4	2003												
Car	M4	2004												
Car	M4	2005												
Car	M4	2006												
Car	M4	2007												
Car	M4	2008												
Car	M4	2009												
Car	M4	2010												
Car	M4	2011												
Car	M4	2012												
Car	M5	1975												
Car	M5	1976												
Car	M5	1977												
Car	M5	1978	20.5%			5.8%								
Car	M5	1979	33.8%			16.3%		2.0%						
Car	M5	1980	39.2%			19.5%		2.4%						

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	M5	1981	1264	0.145	31.8	24.8	30.6	27.1	2488	87.2	110	79	14.4	0.710	0.0313	34.1	2445	2993
Car	M5	1982	1210	0.154	32.3	25.1	31.2	27.5	2519	89.8	114	81	14.3	0.710	0.0318	35.2	2577	3190
Car	M5	1983	1546	0.192	31.9	24.6	31.4	27.2	2585	93.4	120	87	13.9	0.732	0.0331	35.9	2670	3378
Car	M5	1984	1915	0.179	31.5	24.2	31.0	26.8	2649	94.4	125	94	13.4	0.757	0.0349	36.3	2649	3443
Car	M5	1985	2026	0.186	32.0	24.6	31.7	27.3	2632	93.9	122	96	13.1	0.790	0.0358	36.5	2677	3448
Car	M5	1986	2245	0.203	32.2	24.6	31.5	27.4	2686	96.1	122	97	13.2	0.805	0.0356	37.3	2727	3584
Car	M5	1987	2338	0.216	31.8	24.1	31.1	26.9	2722	95.6	122	99	13.2	0.821	0.0358	37.1	2659	3549
Car	M5	1988	2143	0.198	32.1	24.2	31.3	27.1	2748	96.9	123	104	12.8	0.851	0.0371	37.7	2721	3660
Car	M5	1989	1813	0.179	31.6	23.7	30.8	26.6	2798	98.1	126	108	12.4	0.881	0.0382	37.6	2690	3691
Car	M5	1990	1551	0.175	31.0	23.1	29.9	26.0	2843	96.0	125	118	11.8	0.964	0.0409	37.3	2568	3589
Car	M5	1991	1649	0.188	31.9	23.7	30.5	26.6	2818	96.3	123	117	11.9	0.967	0.0407	37.9	2650	3659
Car	M5	1992	1353	0.162	32.0	23.5	30.6	26.6	2839	97.5	123	122	11.6	0.999	0.0421	38.2	2688	3733
Car	M5	1993	1468	0.164	32.8	24.0	31.2	27.1	2795	97.8	122	118	11.8	0.972	0.0414	38.4	2749	3766
Car	M5	1994	1400	0.160	32.7	23.7	31.1	26.9	2865	98.7	125	120	11.8	0.977	0.0412	39.1	2757	3871
Car	M5	1995	1515	0.158	33.0	23.6	31.5	27.1	2882	99.6	126	125	11.4	1.020	0.0430	39.4	2777	3931
Car	M5	1996	1170	0.143	32.9	23.3	31.3	26.9	2929	100.7	129	130	11.2	1.023	0.0439	39.7	2778	4006
Car	M5	1997	1180	0.136	32.7	23.1	31.0	26.7	2922	99.4	126	130	11.1	1.040	0.0439	39.3	2714	3915
Car	M5	1998	1005	0.119	32.3	22.6	30.6	26.2	2990	100.2	132	134	11.0	1.043	0.0446	39.7	2699	3980
Car	M5	1999	912	0.103	31.6	22.0	29.7	25.5	3026	99.4	133	140	10.8	1.071	0.0457	39.0	2598	3896
Car	M5	2000	976	0.100	31.4	21.8	29.3	25.3	3043	99.7	135	142	10.7	1.078	0.0462	38.8	2582	3886
Car	M5	2001	897	0.098	31.7	21.8	29.3	25.4	3073	100.6	134	144	10.7	1.090	0.0465	39.4	2618	3978
Car	M5	2002	824	0.093	31.6	21.6	29.2	25.2	3111	103.3	133	147	10.7	1.120	0.0468	39.6	2662	4100
Car	M5	2003	731	0.086	31.8	21.6	29.3	25.3	3165	103.8	135	153	10.5	1.151	0.0479	40.7	2697	4234
Car	M5	2004	569	0.070	32.1	21.6	29.4	25.4	3130	104.9	135	153	10.3	1.154	0.0486	40.3	2729	4235
Car	M5	2005	588	0.067	32.3	21.6	29.4	25.4	3129	105.4	136	156	10.2	1.162	0.0494	40.2	2743	4251
Car	M5	2006	534	0.061	32.0	21.4	29.2	25.2	3180	103.4	139	160	10.2	1.159	0.0496	40.5	2670	4214
Car	M5	2007	470	0.052	32.6	21.7	29.9	25.7	3126	102.5	140	161	10.1	1.160	0.0507	40.6	2708	4185
Car	M5	2008	394	0.048	32.9	22.0	29.8	25.9	3158	103.9	137	161	10.1	1.193	0.0503	41.2	2756	4288
Car	M5	2009	253	0.041	34.1	22.8	30.6	26.6	3113	105.9	130	154	10.3	1.190	0.0487	41.8	2874	4429
Car	M5	2010	167	0.024	34.4	23.0	30.9	26.9	3132	106.6	136	161	10.1	1.192	0.0503	42.5	2938	4531
Car	M5	2011	113	0.016	35.4	24.0	31.5	27.8	3101	109.5	121	156	10.3	1.277	0.0495	43.3	3085	4743
Car	M5	2012	204	0.024	37.8	25.4	33.8	29.6	3014	105.9	117	146	10.3	1.246	0.0479	44.7	3154	4742
Car	M6	1975																
Car	M6	1976																
Car	M6	1977																
Car	M6	1978																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	M5	1981	49.8%			20.2%		5.3%						
Car	M5	1982	56.1%	0.2%		20.2%		4.9%						
Car	M5	1983	66.2%	6.1%		25.0%	7.0%	0.8%						
Car	M5	1984	69.3%	1.4%		30.9%	8.9%	3.1%						
Car	M5	1985	70.0%	5.8%		33.0%	9.2%	2.0%						
Car	M5	1986	78.3%	3.6%		45.5%	12.2%	1.1%	85.0%	9.4%	5.6%			
Car	M5	1987	78.8%	3.4%		45.6%	16.5%	0.2%	69.8%	19.3%	10.9%			
Car	M5	1988	82.0%	3.0%		49.1%	25.3%		60.6%	20.5%	18.9%			
Car	M5	1989	81.8%	3.2%		59.3%	24.2%	0.2%	53.9%	23.6%	22.5%			
Car	M5	1990	82.2%	2.5%		76.8%	20.9%	0.1%	37.8%	12.5%	49.8%			
Car	M5	1991	81.8%	3.0%		75.2%	24.2%	0.3%	40.8%	10.1%	49.1%		2.7%	
Car	M5	1992	81.7%	3.3%		85.1%	14.5%	0.1%	39.6%	7.0%	53.3%		6.8%	
Car	M5	1993	86.1%	2.2%		85.6%	14.2%		43.1%	5.7%	51.2%		8.2%	
Car	M5	1994	84.5%	0.9%		89.6%	10.4%		40.8%	1.8%	57.4%		13.6%	
Car	M5	1995	83.9%	2.2%		96.3%	3.7%		32.7%	2.4%	64.9%	0.0%	13.8%	
Car	M5	1996	83.6%	3.0%		96.4%	3.2%	0.4%	31.5%	2.0%	66.5%		18.5%	
Car	M5	1997	82.0%	3.2%		98.2%	1.5%	0.3%	29.8%	2.3%	67.6%	0.2%	16.6%	
Car	M5	1998	80.2%	4.3%		97.7%	1.1%	1.2%	29.6%	2.2%	65.7%	2.5%	25.2%	
Car	M5	1999	80.2%	4.5%		98.2%	0.9%	1.0%	29.0%	2.7%	64.4%	3.9%	25.4%	
Car	M5	2000	76.3%	4.1%		98.0%	0.5%	1.5%	32.3%	2.2%	59.5%	5.9%	32.1%	0.6%
Car	M5	2001	79.9%	4.3%		98.5%		1.5%	27.2%	2.3%	61.6%	9.0%	35.3%	0.2%
Car	M5	2002	77.3%	8.6%		98.3%		1.7%	23.3%	2.3%	68.6%	5.8%	33.4%	0.1%
Car	M5	2003	82.3%	5.6%		97.2%		2.8%	17.1%		75.6%	7.4%	36.1%	0.9%
Car	M5	2004	82.5%	6.3%		98.0%		2.0%	13.0%		82.7%	4.4%	44.3%	0.8%
Car	M5	2005	83.7%	7.1%		98.5%		1.5%	9.3%	5.1%	84.2%	1.4%	59.6%	0.9%
Car	M5	2006	80.7%	6.2%		96.9%		3.1%	8.9%	5.9%	85.1%	0.1%	63.6%	0.1%
Car	M5	2007	79.8%	5.2%	0.5%	99.5%			6.6%	7.9%	85.5%		62.3%	
Car	M5	2008	78.1%	9.5%	0.3%	99.7%			3.8%	7.3%	89.0%		61.9%	
Car	M5	2009	84.4%	9.5%	1.8%	98.2%			1.2%	3.7%	95.1%		78.2%	
Car	M5	2010	82.4%	6.6%	0.6%	99.4%			2.6%	7.9%	89.4%		91.3%	
Car	M5	2011	82.3%	17.2%		100.0%			3.5%		96.5%		91.3%	
Car	M5	2012	87.3%	12.2%	10.8%	89.2%			2.1%		97.9%		97.9%	
Car	M6	1975												
Car	M6	1976												
Car	M6	1977												
Car	M6	1978												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	M6	1979																
Car	M6	1980																
Car	M6	1981																
Car	M6	1982																
Car	M6	1983																
Car	M6	1984																
Car	M6	1985																
Car	M6	1986																
Car	M6	1987																
Car	M6	1988																
Car	M6	1989	4	0.000	22.7	16.0	25.0	19.3	3500	50.0	350	240	7.7	0.686	0.0686	33.8	967	1692
Car	M6	1990	8	0.001	22.3	15.7	24.2	18.9	3503	50.0	350	302	6.6	0.864	0.0863	33.1	945	1655
Car	M6	1991	6	0.001	21.9	15.3	23.8	18.5	3583	53.3	346	296	6.8	0.857	0.0831	33.3	982	1770
Car	M6	1992	6	0.001	22.7	15.9	24.2	19.1	3532	52.8	339	303	6.5	0.914	0.0860	33.9	1008	1784
Car	M6	1993	14	0.002	22.8	15.9	24.0	19.1	3541	73.4	333	284	6.9	0.896	0.0804	34.0	1416	2513
Car	M6	1994	27	0.003	23.0	15.9	24.6	19.3	3608	79.5	325	276	7.2	0.932	0.0765	35.0	1551	2810
Car	M6	1995	35	0.004	22.6	15.5	24.3	19.0	3637	79.2	311	269	7.3	0.934	0.0740	34.7	1522	2774
Car	M6	1996	27	0.003	21.9	14.9	23.6	18.4	3623	73.2	323	291	6.9	0.954	0.0807	33.6	1369	2509
Car	M6	1997	26	0.003	22.3	15.1	23.7	18.6	3675	79.4	309	320	6.5	1.090	0.0875	34.9	1530	2841
Car	M6	1998	23	0.003	23.4	15.8	24.5	19.5	3654	76.5	327	319	6.4	1.002	0.0878	36.0	1517	2800
Car	M6	1999	43	0.005	24.2	16.4	24.8	20.0	3537	72.6	294	300	6.7	1.075	0.0845	35.6	1462	2616
Car	M6	2000	78	0.008	24.6	16.7	24.5	20.2	3405	75.5	240	271	7.0	1.284	0.0790	34.5	1560	2653
Car	M6	2001	105	0.012	24.4	16.6	24.0	19.9	3512	73.5	210	274	7.2	1.450	0.0779	35.2	1467	2621
Car	M6	2002	148	0.017	26.1	17.6	25.4	21.2	3361	83.3	202	249	7.5	1.375	0.0734	35.9	1810	3028
Car	M6	2003	196	0.023	26.6	18.0	25.4	21.5	3355	82.4	188	251	7.6	1.409	0.0738	36.3	1817	3018
Car	M6	2004	234	0.029	25.8	17.3	24.8	20.8	3469	87.1	186	253	7.7	1.427	0.0723	36.5	1854	3206
Car	M6	2005	187	0.021	26.0	17.2	24.8	20.9	3450	84.4	186	262	7.5	1.541	0.0754	36.3	1806	3116
Car	M6	2006	238	0.027	26.5	17.6	25.4	21.3	3470	86.9	185	258	7.6	1.485	0.0741	37.2	1891	3288
Car	M6	2007	231	0.026	27.6	18.3	26.2	22.1	3486	90.2	178	247	8.0	1.475	0.0706	39.0	2060	3571
Car	M6	2008	196	0.024	27.4	18.1	26.2	22.0	3490	90.6	188	264	7.7	1.480	0.0748	38.9	2060	3565
Car	M6	2009	132	0.021	29.3	19.4	27.7	23.4	3452	92.3	180	251	8.0	1.469	0.0713	41.4	2277	3880
Car	M6	2010	179	0.026	28.8	19.0	27.6	23.1	3605	99.5	209	269	7.8	1.349	0.0730	42.6	2405	4291
Car	M6	2011	204	0.029	30.4	20.0	28.9	24.3	3565	98.3	186	255	8.1	1.406	0.0696	44.4	2499	4406
Car	M6	2012	444	0.052	32.5	21.5	30.5	25.8	3437	102.2	163	227	8.7	1.425	0.0642	45.3	2765	4665
Car	M7	1975																
Car	M7	1976																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	M6	1979												
Car	M6	1980												
Car	M6	1981												
Car	M6	1982												
Car	M6	1983												
Car	M6	1984												
Car	M6	1985												
Car	M6	1986												
Car	M6	1987												
Car	M6	1988												
Car	M6	1989				100.0%			100.0%					
Car	M6	1990				100.0%			62.8%		37.2%			
Car	M6	1991				100.0%			69.2%		30.8%			
Car	M6	1992				100.0%			83.8%		16.2%		9.1%	
Car	M6	1993	6.4%			100.0%			80.8%		19.2%		4.8%	
Car	M6	1994	12.1%			100.0%			75.8%		24.2%		4.5%	
Car	M6	1995	6.0%	1.5%		100.0%			84.1%		15.9%		20.2%	
Car	M6	1996		13.3%		100.0%			96.3%		2.6%	1.1%	24.2%	
Car	M6	1997		10.6%		100.0%			80.8%		16.8%	2.3%	33.9%	
Car	M6	1998		2.8%		100.0%			85.8%		12.9%	1.3%	21.0%	
Car	M6	1999	7.0%	3.7%		100.0%			62.6%		36.7%	0.7%	29.5%	
Car	M6	2000	15.1%	10.2%		100.0%			38.9%		52.2%	8.9%	47.8%	
Car	M6	2001	2.8%	34.7%		100.0%			26.1%	2.6%	40.1%	31.2%	33.5%	
Car	M6	2002	37.4%	11.4%		100.0%			24.6%	0.8%	62.7%	11.9%	53.0%	
Car	M6	2003	43.0%	5.9%		100.0%			9.1%	0.2%	83.7%	6.9%	65.8%	
Car	M6	2004	32.1%	14.8%		100.0%			18.7%	2.0%	70.5%	8.7%	57.3%	
Car	M6	2005	32.8%	12.5%		100.0%			19.9%	3.2%	70.9%	5.9%	59.9%	
Car	M6	2006	38.1%	11.9%		100.0%			13.4%	1.0%	84.8%	0.6%	78.5%	
Car	M6	2007	44.0%	17.0%	5.3%	94.7%			10.2%	5.2%	84.1%	0.5%	64.4%	
Car	M6	2008	47.2%	11.8%	19.0%	81.0%			8.8%	0.1%	90.8%	0.3%	77.6%	
Car	M6	2009	58.0%	7.5%	26.5%	66.7%		6.8%	14.5%	2.4%	83.1%	0.0%	77.5%	
Car	M6	2010	46.9%	8.4%	24.1%	67.1%		8.8%	25.4%		74.6%		67.4%	
Car	M6	2011	50.1%	10.4%	26.5%	66.8%		6.7%	11.2%	7.0%	81.8%		80.9%	2.8%
Car	M6	2012	67.7%	5.7%	40.2%	55.5%		4.3%	9.0%	4.2%	86.8%		88.2%	0.9%
Car	M7	1975												
Car	M7	1976												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	M7	1977																
Car	M7	1978																
Car	M7	1979																
Car	M7	1980																
Car	M7	1981																
Car	M7	1982																
Car	M7	1983																
Car	M7	1984																
Car	M7	1985																
Car	M7	1986																
Car	M7	1987																
Car	M7	1988																
Car	M7	1989																
Car	M7	1990																
Car	M7	1991																
Car	M7	1992																
Car	M7	1993																
Car	M7	1994																
Car	M7	1995																
Car	M7	1996																
Car	M7	1997																
Car	M7	1998																
Car	M7	1999																
Car	M7	2000																
Car	M7	2001																
Car	M7	2002																
Car	M7	2003																
Car	M7	2004																
Car	M7	2005																
Car	M7	2006																
Car	M7	2007																
Car	M7	2008																
Car	M7	2009	0	0.000	19.0	12.6	18.9	15.6	4000	50.0	262	450	5.3	1.718	0.1125	31.1	778	1556
Car	M7	2010																
Car	M7	2011																
Car	M7	2012	2	0.000	28.4	18.7	27.1	22.7	3500	74.1	225	385	5.4	1.714	0.1101	39.8	1683	2946

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	M7	1977												
Car	M7	1978												
Car	M7	1979												
Car	M7	1980												
Car	M7	1981												
Car	M7	1982												
Car	M7	1983												
Car	M7	1984												
Car	M7	1985												
Car	M7	1986												
Car	M7	1987												
Car	M7	1988												
Car	M7	1989												
Car	M7	1990												
Car	M7	1991												
Car	M7	1992												
Car	M7	1993												
Car	M7	1994												
Car	M7	1995												
Car	M7	1996												
Car	M7	1997												
Car	M7	1998												
Car	M7	1999												
Car	M7	2000												
Car	M7	2001												
Car	M7	2002												
Car	M7	2003												
Car	M7	2004												
Car	M7	2005												
Car	M7	2006												
Car	M7	2007												
Car	M7	2008												
Car	M7	2009			100.0%						100.0%		100.0%	
Car	M7	2010												
Car	M7	2011												
Car	M7	2012			100.0%						100.0%		100.0%	

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	OT	1975																
Car	OT	1976																
Car	OT	1977																
Car	OT	1978																
Car	OT	1979	50	0.005	36.9	29.4	34.0	31.3	2122	87.3	91	73	13.1	0.801	0.0345	33.3	2738	2903
Car	OT	1980	60	0.006	36.6	29.4	33.5	31.1	2164	87.3	94	77	12.9	0.816	0.0354	33.7	2719	2939
Car	OT	1981	51	0.006	34.9	27.9	32.0	29.6	2250	87.8	96	78	13.1	0.816	0.0349	33.4	2603	2928
Car	OT	1982	37	0.005	36.6	29.3	33.5	31.1	2200	87.8	91	67	14.4	0.740	0.0307	34.2	2734	3003
Car	OT	1983	36	0.005	35.4	28.3	32.7	30.1	2278	89.2	94	70	14.3	0.748	0.0309	34.4	2706	3067
Car	OT	1984	3	0.000	33.1	26.4	30.6	28.2	2545	93.5	117	88	13.4	0.758	0.0348	35.8	2643	3352
Car	OT	1985																
Car	OT	1986																
Car	OT	1987																
Car	OT	1988																
Car	OT	1989																
Car	OT	1990																
Car	OT	1991																
Car	OT	1992																
Car	OT	1993																
Car	OT	1994																
Car	OT	1995																
Car	OT	1996																
Car	OT	1997																
Car	OT	1998																
Car	OT	1999																
Car	OT	2000																
Car	OT	2001																
Car	OT	2002																
Car	OT	2003																
Car	OT	2004																
Car	OT	2005																
Car	OT	2006																
Car	OT	2007																
Car	OT	2008																
Car	OT	2009																
Car	OT	2010																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	OT	1975												
Car	OT	1976												
Car	OT	1977												
Car	OT	1978												
Car	OT	1979	100.0%											
Car	OT	1980	100.0%											
Car	OT	1981	100.0%											
Car	OT	1982	100.0%											
Car	OT	1983	100.0%											
Car	OT	1984	100.0%			10.9%								
Car	OT	1985												
Car	OT	1986												
Car	OT	1987												
Car	OT	1988												
Car	OT	1989												
Car	OT	1990												
Car	OT	1991												
Car	OT	1992												
Car	OT	1993												
Car	OT	1994												
Car	OT	1995												
Car	OT	1996												
Car	OT	1997												
Car	OT	1998												
Car	OT	1999												
Car	OT	2000												
Car	OT	2001												
Car	OT	2002												
Car	OT	2003												
Car	OT	2004												
Car	OT	2005												
Car	OT	2006												
Car	OT	2007												
Car	OT	2008												
Car	OT	2009												
Car	OT	2010												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	OT	2011																
Car	OT	2012																
Van	A3	1975																
Van	A3	1976																
Van	A3	1977																
Van	A3	1978																
Van	A3	1979	377	0.784	13.0	10.7	11.6	11.1	4626		334	148	14.5	0.445	0.0321	25.9		
Van	A3	1980	85	0.350	15.2	12.2	13.9	12.9	4657		315	137	15.5	0.437	0.0294	30.3		
Van	A3	1981	77	0.314	16.0	12.9	14.5	13.6	4511		309	131	15.6	0.425	0.0290	30.8		
Van	A3	1982	119	0.385	15.6	12.6	14.2	13.3	4519		314	135	15.2	0.431	0.0299	30.1		
Van	A3	1983	110	0.286	15.7	12.7	14.3	13.4	4399		316	133	15.1	0.424	0.0304	29.6		
Van	A3	1984	264	0.390	17.8	14.2	16.4	15.1	3962		249	127	14.5	0.548	0.0319	30.6		
Van	A3	1985	365	0.427	19.2	15.5	17.6	16.4	3827		218	121	14.7	0.593	0.0314	31.9		
Van	A3	1986	328	0.314	21.0	16.7	19.4	17.8	3843		204	115	15.2	0.597	0.0299	34.5		
Van	A3	1987	287	0.257	19.3	15.3	17.6	16.3	4098		240	137	14.1	0.593	0.0329	33.8		
Van	A3	1988	199	0.176	19.4	15.3	17.5	16.3	4172		247	139	14.2	0.578	0.0329	34.6		
Van	A3	1989	262	0.205	20.8	16.3	18.8	17.4	3899		208	131	14.1	0.667	0.0333	34.5		
Van	A3	1990	53	0.042	18.7	14.8	16.4	15.6	4326		260	151	13.5	0.615	0.0352	33.8		
Van	A3	1991	19	0.018	17.3	13.8	14.9	14.3	4609		276	142	14.9	0.527	0.0307	33.0		
Van	A3	1992	23	0.019	16.4	12.9	14.4	13.6	4897		307	174	13.4	0.564	0.0358	33.5		
Van	A3	1993	24	0.017	16.6	13.0	14.6	13.7	5074		303	160	14.7	0.526	0.0318	34.9		
Van	A3	1994	30	0.021	16.4	12.7	14.4	13.5	4956		307	175	13.5	0.568	0.0359	33.5		
Van	A3	1995	27	0.016	16.3	12.6	14.2	13.4	5030		305	168	14.1	0.549	0.0339	33.7		
Van	A3	1996	23	0.016	15.9	12.1	14.0	13.0	5066		305	170	14.1	0.554	0.0342	33.0		
Van	A3	1997	5	0.004	16.0	12.1	14.2	13.1	4500		318	215	10.3	0.676	0.0478	29.4		
Van	A3	1998																
Van	A3	1999																
Van	A3	2000																
Van	A3	2001																
Van	A3	2002																
Van	A3	2003																
Van	A3	2004																
Van	A3	2005																
Van	A3	2006																
Van	A3	2007																
Van	A3	2008																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	OT	2011												
Car	OT	2012												
Van	A3	1975												
Van	A3	1976												
Van	A3	1977												
Van	A3	1978												
Van	A3	1979					0.4%							
Van	A3	1980					3.2%							
Van	A3	1981					2.7%							
Van	A3	1982					1.4%							
Van	A3	1983	0.4%				2.6%	0.4%						
Van	A3	1984	39.7%				2.1%	0.5%						
Van	A3	1985	59.2%				1.5%							
Van	A3	1986	66.3%			0.9%								
Van	A3	1987	43.2%			16.7%	24.5%							
Van	A3	1988	38.1%			29.9%	68.8%							
Van	A3	1989	64.6%			46.7%	53.3%							
Van	A3	1990	16.3%	6.7%		70.3%	29.7%							
Van	A3	1991				100.0%								
Van	A3	1992				100.0%								
Van	A3	1993		1.0%		100.0%								
Van	A3	1994				100.0%			100.0%					
Van	A3	1995				100.0%			100.0%					
Van	A3	1996				100.0%			100.0%					
Van	A3	1997				100.0%			100.0%					
Van	A3	1998												
Van	A3	1999												
Van	A3	2000												
Van	A3	2001												
Van	A3	2002												
Van	A3	2003												
Van	A3	2004												
Van	A3	2005												
Van	A3	2006												
Van	A3	2007												
Van	A3	2008												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	A3	2009																
Van	A3	2010																
Van	A3	2011																
Van	A3	2012																
Van	A4	1975																
Van	A4	1976																
Van	A4	1977																
Van	A4	1978																
Van	A4	1979																
Van	A4	1980																
Van	A4	1981																
Van	A4	1982																
Van	A4	1983																
Van	A4	1984																
Van	A4	1985																
Van	A4	1986																
Van	A4	1987																
Van	A4	1988																
Van	A4	1989																
Van	A4	1990	6	0.005	14.5	11.2	13.5	12.2	4709		348	184	12.1	0.530	0.0393	28.7		
Van	A4	1991	3	0.003	14.4	11.1	13.2	12.0	4640		344	182	12.1	0.530	0.0394	27.9		
Van	A4	1992	1	0.001	13.6	10.4	12.5	11.3	4856		360	203	11.5	0.564	0.0421	27.4		
Van	A4	1993																
Van	A4	1994																
Van	A4	1995																
Van	A4	1996																
Van	A4	1997																
Van	A4	1998																
Van	A4	1999																
Van	A4	2000																
Van	A4	2001																
Van	A4	2002																
Van	A4	2003																
Van	A4	2004																
Van	A4	2005																
Van	A4	2006																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	A3	2009												
Van	A3	2010												
Van	A3	2011												
Van	A3	2012												
Van	A4	1975												
Van	A4	1976												
Van	A4	1977												
Van	A4	1978												
Van	A4	1979												
Van	A4	1980												
Van	A4	1981												
Van	A4	1982												
Van	A4	1983												
Van	A4	1984												
Van	A4	1985												
Van	A4	1986												
Van	A4	1987												
Van	A4	1988												
Van	A4	1989												
Van	A4	1990					100.0%							
Van	A4	1991					100.0%							
Van	A4	1992					100.0%							
Van	A4	1993												
Van	A4	1994												
Van	A4	1995												
Van	A4	1996												
Van	A4	1997												
Van	A4	1998												
Van	A4	1999												
Van	A4	2000												
Van	A4	2001												
Van	A4	2002												
Van	A4	2003												
Van	A4	2004												
Van	A4	2005												
Van	A4	2006												

2012 FE Trends Report
Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	A4	2007																
Van	A4	2008																
Van	A4	2009																
Van	A4	2010																
Van	A4	2011																
Van	A4	2012																
Van	CVT	1975																
Van	CVT	1976																
Van	CVT	1977																
Van	CVT	1978																
Van	CVT	1979																
Van	CVT	1980																
Van	CVT	1981																
Van	CVT	1982																
Van	CVT	1983																
Van	CVT	1984																
Van	CVT	1985																
Van	CVT	1986																
Van	CVT	1987																
Van	CVT	1988																
Van	CVT	1989																
Van	CVT	1990																
Van	CVT	1991																
Van	CVT	1992																
Van	CVT	1993																
Van	CVT	1994																
Van	CVT	1995																
Van	CVT	1996																
Van	CVT	1997																
Van	CVT	1998																
Van	CVT	1999																
Van	CVT	2000																
Van	CVT	2001																
Van	CVT	2002																
Van	CVT	2003																
Van	CVT	2004																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	A4	2007												
Van	A4	2008												
Van	A4	2009												
Van	A4	2010												
Van	A4	2011												
Van	A4	2012												
Van	CVT	1975												
Van	CVT	1976												
Van	CVT	1977												
Van	CVT	1978												
Van	CVT	1979												
Van	CVT	1980												
Van	CVT	1981												
Van	CVT	1982												
Van	CVT	1983												
Van	CVT	1984												
Van	CVT	1985												
Van	CVT	1986												
Van	CVT	1987												
Van	CVT	1988												
Van	CVT	1989												
Van	CVT	1990												
Van	CVT	1991												
Van	CVT	1992												
Van	CVT	1993												
Van	CVT	1994												
Van	CVT	1995												
Van	CVT	1996												
Van	CVT	1997												
Van	CVT	1998												
Van	CVT	1999												
Van	CVT	2000												
Van	CVT	2001												
Van	CVT	2002												
Van	CVT	2003												
Van	CVT	2004												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	CVT	2005	76	0.051	25.4	17.3	23.2	20.2	4239		182	203	10.3	1.115	0.0480	42.8		
Van	CVT	2006	55	0.047	25.7	17.4	23.6	20.5	4181		182	203	10.2	1.115	0.0487	42.8		
Van	CVT	2007	38	0.045	25.7	17.4	23.6	20.5	4168		182	203	10.2	1.115	0.0489	42.7		
Van	CVT	2008																
Van	CVT	2009																
Van	CVT	2010																
Van	CVT	2011	16	0.031	27.1	18.5	24.4	21.5	4500		214	260	8.9	1.215	0.0578	48.3		
Van	CVT	2012	56	0.082	27.2	18.6	24.5	21.5	4500		214	260	8.9	1.215	0.0578	48.5		
Van	L3	1975																
Van	L3	1976																
Van	L3	1977																
Van	L3	1978																
Van	L3	1979	33	0.068	14.7	12.0	13.0	12.4	4227		301	136	14.4	0.452	0.0322	26.6		
Van	L3	1980	94	0.390	16.6	13.3	15.3	14.1	4283		297	139	14.2	0.471	0.0325	30.2		
Van	L3	1981	114	0.466	17.6	14.1	16.3	15.0	4307		285	138	14.5	0.482	0.0318	32.4		
Van	L3	1982	142	0.458	17.9	14.4	16.5	15.2	4315		286	142	14.3	0.493	0.0327	32.9		
Van	L3	1983	26	0.068	19.7	15.9	17.8	16.7	4000		225	95	18.1	0.422	0.0238	33.5		
Van	L3	1984	101	0.149	18.4	14.6	17.0	15.6	4208		266	131	14.9	0.499	0.0309	32.9		
Van	L3	1985	150	0.175	17.2	13.8	15.6	14.6	4369		285	149	13.7	0.531	0.0340	32.0		
Van	L3	1986	183	0.175	17.5	14.0	16.0	14.8	4365		288	146	13.9	0.518	0.0333	32.4		
Van	L3	1987	228	0.205	22.0	17.1	20.7	18.6	3773		207	138	13.0	0.702	0.0368	35.3		
Van	L3	1988	367	0.324	22.7	17.3	22.0	19.2	3853		194	143	12.6	0.760	0.0374	37.1		
Van	L3	1989	111	0.087	20.9	16.1	19.6	17.6	3871		215	138	13.1	0.682	0.0360	34.2		
Van	L3	1990	308	0.244	23.3	17.7	21.9	19.5	3789		186	125	14.1	0.677	0.0331	37.2		
Van	L3	1991	225	0.218	23.5	17.9	21.7	19.6	3893		183	125	14.4	0.687	0.0320	38.3		
Van	L3	1992	258	0.211	24.0	18.1	22.3	19.9	3902		179	129	14.0	0.718	0.0329	39.1		
Van	L3	1993	274	0.190	24.6	18.2	23.1	20.4	3632		179	132	13.0	0.737	0.0365	37.1		
Van	L3	1994	259	0.182	23.0	17.2	21.2	19.0	3800		190	142	12.8	0.745	0.0374	36.2		
Van	L3	1995	226	0.136	24.4	18.0	22.5	20.0	3647		184	136	12.8	0.737	0.0374	36.6		
Van	L3	1996	243	0.172	23.7	17.4	21.9	19.5	4042		182	153	12.5	0.845	0.0378	39.6		
Van	L3	1997	204	0.161	23.5	17.0	21.7	19.2	4047		183	149	12.8	0.822	0.0367	39.1		
Van	L3	1998	113	0.076	24.1	17.3	22.5	19.7	4059		173	153	12.5	0.898	0.0377	40.3		
Van	L3	1999	78	0.054	23.7	17.0	21.7	19.2	4112		168	155	12.5	0.953	0.0378	40.0		
Van	L3	2000	76	0.045	24.1	17.1	22.1	19.5	4097		165	155	12.5	0.961	0.0377	40.5		
Van	L3	2001	39	0.031	23.0	16.6	20.4	18.5	4136		172	156	12.5	0.941	0.0378	38.8		
Van	L3	2002	17	0.014	21.5	15.4	19.0	17.2	4219		186	160	12.4	0.896	0.0380	36.9		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	CVT	2005	52.1%	47.9%		100.0%					100.0%			
Van	CVT	2006	63.9%	36.1%		100.0%					100.0%			
Van	CVT	2007	66.4%	33.6%		100.0%					100.0%			
Van	CVT	2008												
Van	CVT	2009												
Van	CVT	2010												
Van	CVT	2011	100.0%			100.0%					100.0%		100.0%	
Van	CVT	2012	100.0%			100.0%					100.0%		100.0%	
Van	L3	1975												
Van	L3	1976												
Van	L3	1977												
Van	L3	1978												
Van	L3	1979												
Van	L3	1980												
Van	L3	1981												
Van	L3	1982												
Van	L3	1983												
Van	L3	1984	8.3%											
Van	L3	1985	7.4%											
Van	L3	1986	8.3%											
Van	L3	1987	72.9%			68.2%								
Van	L3	1988	87.8%			87.8%	12.2%							
Van	L3	1989	63.5%			63.5%	36.5%							
Van	L3	1990	90.1%			30.6%	69.4%							
Van	L3	1991	90.8%			39.1%	60.9%							
Van	L3	1992	94.0%			63.0%	37.0%							
Van	L3	1993	96.8%			72.7%	27.3%							
Van	L3	1994	78.6%			75.0%	25.0%		100.0%					
Van	L3	1995	91.2%			69.3%	30.7%		100.0%					
Van	L3	1996	90.2%			100.0%			87.1%		12.9%			
Van	L3	1997	86.5%			100.0%			81.7%		18.3%			
Van	L3	1998	88.4%			100.0%			56.4%		43.6%			
Van	L3	1999	78.5%			100.0%			21.5%		78.5%			
Van	L3	2000	81.2%			100.0%			18.8%		81.2%			
Van	L3	2001	74.1%			100.0%			25.9%		74.1%			
Van	L3	2002	58.1%			100.0%			41.9%		58.1%			

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	L3	2003	5	0.004	17.7	13.2	14.8	14.1	4516		239	175	12.2	0.732	0.0388	31.7		
Van	L3	2004																
Van	L3	2005																
Van	L3	2006																
Van	L3	2007																
Van	L3	2008																
Van	L3	2009																
Van	L3	2010																
Van	L3	2011																
Van	L3	2012																
Van	L4	1975																
Van	L4	1976																
Van	L4	1977																
Van	L4	1978																
Van	L4	1979																
Van	L4	1980																
Van	L4	1981	0	0.000	15.9	12.7	14.7	13.5	4500		302	142	14.4	0.470	0.0316	30.5		
Van	L4	1982																
Van	L4	1983	201	0.525	18.2	14.3	17.3	15.5	4569		306	151	14.0	0.495	0.0331	35.8		
Van	L4	1984	207	0.307	19.0	14.8	18.3	16.2	4363		276	136	14.8	0.517	0.0310	35.7		
Van	L4	1985	255	0.299	19.9	15.4	19.2	16.9	4106		259	138	13.9	0.556	0.0337	35.2		
Van	L4	1986	445	0.426	21.1	16.2	20.5	17.9	4064		234	134	14.1	0.593	0.0329	36.5		
Van	L4	1987	526	0.472	21.0	16.0	20.4	17.8	4053		237	151	12.8	0.665	0.0372	36.1		
Van	L4	1988	524	0.463	20.7	15.6	20.3	17.5	4182		251	155	12.8	0.641	0.0372	36.6		
Van	L4	1989	867	0.679	21.2	15.9	20.7	17.9	4144		234	153	12.8	0.681	0.0369	37.2		
Van	L4	1990	872	0.691	20.8	15.5	20.3	17.5	4196		238	158	12.6	0.686	0.0376	36.9		
Van	L4	1991	772	0.747	21.0	15.6	20.3	17.6	4196		230	156	12.7	0.708	0.0373	37.1		
Van	L4	1992	919	0.753	21.0	15.5	20.2	17.5	4217		234	159	12.6	0.702	0.0377	37.1		
Van	L4	1993	1127	0.782	21.4	15.6	20.8	17.8	4206		226	161	12.4	0.733	0.0383	37.6		
Van	L4	1994	1123	0.792	21.3	15.5	20.6	17.7	4221		233	163	12.3	0.720	0.0387	37.6		
Van	L4	1995	1406	0.846	21.6	15.5	21.0	17.9	4166		237	162	12.2	0.707	0.0390	37.4		
Van	L4	1996	1143	0.811	22.1	15.7	21.5	18.3	4211		227	174	11.7	0.783	0.0415	38.6		
Van	L4	1997	1038	0.821	21.9	15.6	21.1	18.0	4277		227	179	11.6	0.801	0.0419	38.6		
Van	L4	1998	1375	0.924	22.6	15.9	21.9	18.6	4193		221	182	11.2	0.835	0.0435	39.1		
Van	L4	1999	1385	0.946	22.2	15.5	21.5	18.2	4317		226	184	11.4	0.825	0.0427	39.4		
Van	L4	2000	1615	0.955	22.7	15.8	21.8	18.6	4284		219	184	11.3	0.853	0.0430	39.9		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	L3	2003				100.0%			100.0%					
Van	L3	2004												
Van	L3	2005												
Van	L3	2006												
Van	L3	2007												
Van	L3	2008												
Van	L3	2009												
Van	L3	2010												
Van	L3	2011												
Van	L3	2012												
Van	L4	1975												
Van	L4	1976												
Van	L4	1977												
Van	L4	1978												
Van	L4	1979												
Van	L4	1980												
Van	L4	1981												
Van	L4	1982												
Van	L4	1983						8.1%						
Van	L4	1984				15.9%		3.0%						
Van	L4	1985	0.1%			15.3%	0.9%	1.0%						
Van	L4	1986	0.1%			44.0%	37.0%	0.4%						
Van	L4	1987		0.9%		50.9%	48.9%	0.2%						
Van	L4	1988		0.2%		45.0%	54.8%	0.2%						
Van	L4	1989	21.7%	0.4%		60.4%	39.5%	0.1%						
Van	L4	1990	33.6%	8.8%		67.1%	32.8%	0.1%						
Van	L4	1991	24.5%	13.9%		69.1%	30.8%	0.1%						
Van	L4	1992	32.5%	7.1%		73.6%	26.4%	0.1%						
Van	L4	1993	39.2%	5.8%		80.3%	19.7%							
Van	L4	1994	47.5%	8.1%		82.4%	17.6%		95.7%	2.6%	1.7%			
Van	L4	1995	57.7%	10.7%		90.0%	10.0%		94.7%	1.2%	4.1%			
Van	L4	1996	71.8%	2.9%		100.0%			95.7%	1.3%	3.0%			
Van	L4	1997	61.9%	4.9%		100.0%			95.9%	1.3%	2.8%			
Van	L4	1998	77.5%	3.5%		100.0%			92.4%		7.6%			
Van	L4	1999	75.9%	2.9%		100.0%			91.3%		8.7%		8.7%	
Van	L4	2000	80.6%	2.8%		100.0%			81.2%		18.8%		15.7%	

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	L4	2001	1194	0.969	22.1	15.3	21.1	18.0	4531		231	203	10.9	0.896	0.0449	41.1		
Van	L4	2002	1028	0.827	23.1	15.9	21.9	18.7	4352		219	195	10.9	0.901	0.0448	41.0		
Van	L4	2003	977	0.793	23.6	16.1	22.3	19.1	4356		222	196	10.9	0.891	0.0450	41.7		
Van	L4	2004	505	0.530	23.2	15.7	22.1	18.7	4444		230	201	10.8	0.882	0.0453	41.7		
Van	L4	2005	952	0.643	23.7	15.9	22.4	19.1	4381		222	198	10.8	0.896	0.0452	41.8		
Van	L4	2006	657	0.563	23.6	15.8	22.4	19.0	4491		224	198	11.0	0.891	0.0442	42.7		
Van	L4	2007	406	0.479	23.4	15.6	22.5	18.9	4488		227	204	10.8	0.901	0.0454	42.5		
Van	L4	2008	213	0.270	23.8	16.0	22.6	19.2	4601		225	204	11.2	0.902	0.0442	44.2		
Van	L4	2009	80	0.218	23.9	16.1	22.4	19.2	4645		217	206	11.0	0.960	0.0443	44.6		
Van	L4	2010	125	0.223	25.6	17.4	23.3	20.3	4305		188	173	12.0	0.947	0.0399	43.7		
Van	L4	2011	45	0.087	24.9	17.3	22.0	19.7	4250		186	179	11.6	1.025	0.0415	41.7		
Van	L4	2012	81	0.118	24.7	17.0	22.2	19.6	4264		191	179	11.7	0.999	0.0414	41.9		
Van	L5	1975																
Van	L5	1976																
Van	L5	1977																
Van	L5	1978																
Van	L5	1979																
Van	L5	1980																
Van	L5	1981																
Van	L5	1982																
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Van	L5	1988																
Van	L5	1989																
Van	L5	1990																
Van	L5	1991																
Van	L5	1992																
Van	L5	1993																
Van	L5	1994																
Van	L5	1995																
Van	L5	1996																
Van	L5	1997	17	0.014	20.4	14.6	19.5	16.8	4236		244	160	12.5	0.656	0.0379	35.6		
Van	L5	1998																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	L4	2001	69.1%	8.9%		100.0%			79.1%		20.9%		17.5%	
Van	L4	2002	81.7%	3.7%		100.0%			85.9%		14.1%		10.8%	
Van	L4	2003	79.8%	6.3%		100.0%			93.0%		7.0%		4.4%	
Van	L4	2004	79.9%	4.1%		100.0%			90.0%		10.0%		8.8%	
Van	L4	2005	89.5%	2.1%		100.0%			96.5%		3.5%		1.3%	
Van	L4	2006	88.0%	1.9%		100.0%			94.6%		5.4%		3.4%	
Van	L4	2007	92.2%	1.0%		100.0%			98.0%		2.0%		17.4%	
Van	L4	2008	86.7%	1.9%		100.0%			100.0%				36.3%	
Van	L4	2009	81.2%	3.1%		100.0%			100.0%					
Van	L4	2010	88.0%	2.5%		100.0%			70.4%		29.6%		5.2%	
Van	L4	2011	62.3%	6.7%		100.0%			36.9%		63.1%		13.6%	
Van	L4	2012	59.8%	3.6%		100.0%			40.2%		59.8%		10.0%	
Van	L5	1975												
Van	L5	1976												
Van	L5	1977												
Van	L5	1978												
Van	L5	1979												
Van	L5	1980												
Van	L5	1981												
Van	L5	1982												
Van	L5	1983												
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Van	L5	1986												
Van	L5	1987												
Van	L5	1988												
Van	L5	1989												
Van	L5	1990												
Van	L5	1991												
Van	L5	1992												
Van	L5	1993												
Van	L5	1994												
Van	L5	1995												
Van	L5	1996												
Van	L5	1997		47.3%		100.0%			100.0%					
Van	L5	1998												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	L5	1999																
Van	L5	2000																
Van	L5	2001																
Van	L5	2002	199	0.160	23.0	15.8	22.0	18.7	4625		212	228	10.1	1.075	0.0496	43.4		
Van	L5	2003	250	0.203	23.2	15.8	22.1	18.8	4536		208	225	10.1	1.080	0.0499	42.7		
Van	L5	2004	448	0.470	24.3	16.3	23.4	19.7	4534		206	228	9.9	1.107	0.0504	44.7		
Van	L5	2005	454	0.306	24.4	16.2	23.5	19.7	4564		207	232	9.9	1.121	0.0511	45.1		
Van	L5	2006	455	0.390	25.1	16.7	24.1	20.3	4489		209	231	9.8	1.102	0.0514	45.6		
Van	L5	2007	403	0.476	24.8	16.6	23.7	20.0	4500		215	249	9.2	1.161	0.0553	45.1		
Van	L5	2008	342	0.433	25.5	17.0	24.2	20.5	4454		211	247	9.2	1.173	0.0553	45.7		
Van	L5	2009	186	0.504	25.8	17.2	24.4	20.7	4519		205	241	9.5	1.170	0.0532	46.8		
Van	L5	2010	203	0.363	25.7	17.1	24.5	20.6	4598		208	242	9.6	1.164	0.0526	47.4		
Van	L5	2011	82	0.158	27.4	17.8	27.3	22.2	4502		214	248	9.2	1.158	0.0551	50.0		
Van	L5	2012	101	0.148	27.3	17.7	27.2	22.1	4512		215	248	9.2	1.157	0.0551	49.9		
Van	L6	1975																
Van	L6	1976																
Van	L6	1977																
Van	L6	1978																
Van	L6	1979																
Van	L6	1980																
Van	L6	1981																
Van	L6	1982																
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Van	L6	1988																
Van	L6	1989																
Van	L6	1990																
Van	L6	1991																
Van	L6	1992																
Van	L6	1993																
Van	L6	1994																
Van	L6	1995																
Van	L6	1996																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	L5	1999												
Van	L5	2000												
Van	L5	2001												
Van	L5	2002	100.0%			100.0%					100.0%		75.0%	
Van	L5	2003	100.0%			100.0%					100.0%		79.4%	
Van	L5	2004	94.2%	5.8%		100.0%					100.0%		88.1%	
Van	L5	2005	94.7%	5.3%		100.0%					100.0%		79.0%	
Van	L5	2006	95.4%	4.6%		100.0%					100.0%		88.5%	
Van	L5	2007	98.0%	2.0%		100.0%					100.0%		84.9%	
Van	L5	2008	96.2%	3.8%		100.0%					100.0%		88.3%	
Van	L5	2009	97.0%	3.0%		100.0%					100.0%		89.9%	
Van	L5	2010	97.2%	2.8%		100.0%					100.0%		100.0%	
Van	L5	2011	99.9%			100.0%			0.1%		99.9%		99.9%	
Van	L5	2012	99.4%			100.0%			0.6%		99.4%		99.4%	
Van	L6	1975												
Van	L6	1976												
Van	L6	1977												
Van	L6	1978												
Van	L6	1979												
Van	L6	1980												
Van	L6	1981												
Van	L6	1982												
Van	L6	1983												
Van	L6	1984												
Van	L6	1985												
Van	L6	1986												
Van	L6	1987												
Van	L6	1988												
Van	L6	1989												
Van	L6	1990												
Van	L6	1991												
Van	L6	1992												
Van	L6	1993												
Van	L6	1994												
Van	L6	1995												
Van	L6	1996												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	L6	1997																
Van	L6	1998																
Van	L6	1999																
Van	L6	2000																
Van	L6	2001																
Van	L6	2002																
Van	L6	2003																
Van	L6	2004																
Van	L6	2005																
Van	L6	2006																
Van	L6	2007																
Van	L6	2008	234	0.296	24.1	16.0	23.2	19.5	4570		229	199	11.4	0.871	0.0434	44.6		
Van	L6	2009	101	0.275	24.3	16.1	23.5	19.6	4623		233	195	11.6	0.839	0.0420	45.5		
Van	L6	2010	230	0.412	24.2	16.1	23.4	19.6	4606		235	208	10.8	0.887	0.0451	45.2		
Van	L6	2011	378	0.725	26.2	17.5	24.6	20.9	4531		214	271	8.6	1.262	0.0598	47.5		
Van	L6	2012	446	0.651	26.2	17.4	25.1	21.1	4518		217	276	8.5	1.270	0.0611	47.6		
Van	M3	1975																
Van	M3	1976																
Van	M3	1977																
Van	M3	1978																
Van	M3	1979	40	0.083	17.3	14.1	15.7	14.8	4248		264	129	14.6	0.490	0.0304	31.6		
Van	M3	1980	29	0.121	19.0	15.1	17.7	16.1	4172		275	126	14.6	0.464	0.0304	33.7		
Van	M3	1981	20	0.082	19.9	15.9	18.4	16.9	4166		274	125	14.7	0.461	0.0301	35.3		
Van	M3	1982	12	0.039	20.1	16.1	18.4	17.1	4177		276	117	15.4	0.428	0.0281	35.6		
Van	M3	1983	11	0.029	19.9	15.9	18.4	17.0	4227		279	118	15.5	0.424	0.0279	35.8		
Van	M3	1984	14	0.020	20.7	16.6	19.0	17.6	4096		285	118	15.2	0.414	0.0288	36.1		
Van	M3	1985	7	0.008	20.8	16.8	18.7	17.6	4034		287	132	13.8	0.465	0.0327	35.6		
Van	M3	1986	5	0.004	20.9	16.9	18.7	17.6	4023		281	136	13.5	0.488	0.0337	35.6		
Van	M3	1987	1	0.001	20.6	16.4	18.6	17.4	4069		266	161	11.8	0.605	0.0396	35.3		
Van	M3	1988																
Van	M3	1989																
Van	M3	1990																
Van	M3	1991																
Van	M3	1992																
Van	M3	1993																
Van	M3	1994																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	L6	1997												
Van	L6	1998												
Van	L6	1999												
Van	L6	2000												
Van	L6	2001												
Van	L6	2002												
Van	L6	2003												
Van	L6	2004												
Van	L6	2005												
Van	L6	2006												
Van	L6	2007												
Van	L6	2008	93.7%	6.3%		100.0%			68.1%		31.9%			
Van	L6	2009	98.8%	1.2%		100.0%			70.3%		29.7%		5.1%	
Van	L6	2010	100.0%			100.0%			78.9%		21.1%			
Van	L6	2011	92.8%	7.0%		100.0%			0.2%		99.8%		100.0%	
Van	L6	2012	96.0%	3.8%		100.0%			0.2%		99.8%		100.0%	
Van	M3	1975												
Van	M3	1976												
Van	M3	1977												
Van	M3	1978												
Van	M3	1979												
Van	M3	1980												
Van	M3	1981												
Van	M3	1982												
Van	M3	1983												
Van	M3	1984												
Van	M3	1985												
Van	M3	1986												
Van	M3	1987					100.0%							
Van	M3	1988												
Van	M3	1989												
Van	M3	1990												
Van	M3	1991												
Van	M3	1992												
Van	M3	1993												
Van	M3	1994												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	M3	1995																
Van	M3	1996																
Van	M3	1997																
Van	M3	1998																
Van	M3	1999																
Van	M3	2000																
Van	M3	2001																
Van	M3	2002																
Van	M3	2003																
Van	M3	2004																
Van	M3	2005																
Van	M3	2006																
Van	M3	2007																
Van	M3	2008																
Van	M3	2009																
Van	M3	2010																
Van	M3	2011																
Van	M3	2012																
Van	M4	1975																
Van	M4	1976																
Van	M4	1977																
Van	M4	1978																
Van	M4	1979	31	0.065	15.0	12.0	13.7	12.7	4224		272	125	15.7	0.470	0.0290	27.2		
Van	M4	1980	33	0.139	19.3	15.1	18.6	16.5	3938		207	94	18.1	0.476	0.0236	32.5		
Van	M4	1981	34	0.137	19.5	15.5	18.2	16.6	4048		230	99	17.7	0.451	0.0243	33.8		
Van	M4	1982	37	0.118	21.1	16.8	19.5	17.9	3928		208	92	18.8	0.463	0.0231	35.8		
Van	M4	1983	35	0.090	20.1	15.8	19.1	17.1	3953		217	98	17.6	0.473	0.0245	34.0		
Van	M4	1984	50	0.074	21.3	16.7	20.1	18.1	3774		196	100	16.4	0.559	0.0265	34.4		
Van	M4	1985	31	0.036	22.5	17.9	20.9	19.2	3752		180	98	16.6	0.600	0.0263	36.1		
Van	M4	1986	17	0.016	21.2	16.7	19.6	17.9	3799		191	102	16.1	0.582	0.0269	34.4		
Van	M4	1987	13	0.011	20.0	15.7	18.3	16.9	3903		190	107	16.1	0.601	0.0272	33.0		
Van	M4	1988	3	0.003	20.6	16.4	18.5	17.3	3885		172	111	15.8	0.666	0.0284	33.7		
Van	M4	1989	3	0.002	21.5	17.2	19.0	18.0	4050		168	107	16.8	0.662	0.0263	36.5		
Van	M4	1990	3	0.003	21.8	17.6	18.8	18.1	4000		129	90	18.9	0.698	0.0225	36.3		
Van	M4	1991	0	0.000	18.5	15.2	15.4	15.3	4311		129	90	19.6	0.698	0.0209	32.9		
Van	M4	1992																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	M3	1995												
Van	M3	1996												
Van	M3	1997												
Van	M3	1998												
Van	M3	1999												
Van	M3	2000												
Van	M3	2001												
Van	M3	2002												
Van	M3	2003												
Van	M3	2004												
Van	M3	2005												
Van	M3	2006												
Van	M3	2007												
Van	M3	2008												
Van	M3	2009												
Van	M3	2010												
Van	M3	2011												
Van	M3	2012												
Van	M4	1975												
Van	M4	1976												
Van	M4	1977												
Van	M4	1978												
Van	M4	1979					22.1%							
Van	M4	1980					38.7%							
Van	M4	1981	2.4%				27.1%							
Van	M4	1982					20.7%	15.6%						
Van	M4	1983	0.3%				30.1%	0.6%						
Van	M4	1984	17.7%				31.6%	0.4%						
Van	M4	1985	10.4%				55.5%	0.3%						
Van	M4	1986	6.5%			40.4%	15.0%	0.4%						
Van	M4	1987				76.2%	6.3%	0.1%						
Van	M4	1988				70.3%	29.1%	0.6%						
Van	M4	1989				73.7%	25.1%	1.2%						
Van	M4	1990		6.6%		100.0%								
Van	M4	1991		100.0%		100.0%								
Van	M4	1992												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	M4	1993																
Van	M4	1994																
Van	M4	1995																
Van	M4	1996																
Van	M4	1997																
Van	M4	1998																
Van	M4	1999																
Van	M4	2000																
Van	M4	2001																
Van	M4	2002																
Van	M4	2003																
Van	M4	2004																
Van	M4	2005																
Van	M4	2006																
Van	M4	2007																
Van	M4	2008																
Van	M4	2009																
Van	M4	2010																
Van	M4	2011																
Van	M4	2012																
Van	M5	1975																
Van	M5	1976																
Van	M5	1977																
Van	M5	1978																
Van	M5	1979																
Van	M5	1980																
Van	M5	1981																
Van	M5	1982																
Van	M5	1983	0	0.001	33.9	29.8	27.3	28.6	3198		97	49	24.7	0.505	0.0160	45.5		
Van	M5	1984	41	0.061	27.8	21.6	26.7	23.7	3370		130	89	16.1	0.689	0.0266	39.9		
Van	M5	1985	47	0.055	27.4	21.3	26.5	23.3	3301		128	95	15.1	0.743	0.0290	38.5		
Van	M5	1986	68	0.065	26.0	20.1	24.9	22.1	3377		143	101	14.8	0.708	0.0300	37.3		
Van	M5	1987	58	0.052	25.5	19.5	24.7	21.6	3408		147	108	14.3	0.738	0.0316	36.9		
Van	M5	1988	39	0.035	24.6	18.5	24.3	20.8	3607		167	116	14.1	0.714	0.0321	37.7		
Van	M5	1989	35	0.027	24.1	18.0	23.7	20.4	3673		170	120	13.9	0.724	0.0326	37.5		
Van	M5	1990	19	0.015	25.2	18.8	24.4	21.2	3584		159	123	13.5	0.777	0.0344	38.2		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	M4	1993												
Van	M4	1994												
Van	M4	1995												
Van	M4	1996												
Van	M4	1997												
Van	M4	1998												
Van	M4	1999												
Van	M4	2000												
Van	M4	2001												
Van	M4	2002												
Van	M4	2003												
Van	M4	2004												
Van	M4	2005												
Van	M4	2006												
Van	M4	2007												
Van	M4	2008												
Van	M4	2009												
Van	M4	2010												
Van	M4	2011												
Van	M4	2012												
Van	M5	1975												
Van	M5	1976												
Van	M5	1977												
Van	M5	1978												
Van	M5	1979												
Van	M5	1980												
Van	M5	1981												
Van	M5	1982												
Van	M5	1983	24.2%					100.0%						
Van	M5	1984	70.9%			29.1%		1.9%						
Van	M5	1985	61.6%	6.3%		32.0%	0.1%							
Van	M5	1986	31.1%	19.7%		33.1%	4.4%	2.9%						
Van	M5	1987	29.3%	24.5%		47.5%	12.7%							
Van	M5	1988	31.8%	20.3%		63.1%	36.9%							
Van	M5	1989	32.2%	15.7%		68.7%	31.3%							
Van	M5	1990	56.8%	12.7%		64.9%	35.1%							

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	M5	1991	14	0.013	23.8	17.8	22.6	19.9	3719		146	117	14.4	0.802	0.0314	36.9		
Van	M5	1992	20	0.016	26.3	19.4	25.0	21.9	3407		141	118	13.2	0.854	0.0347	37.2		
Van	M5	1993	17	0.012	24.4	17.6	24.1	20.4	3723		156	118	14.2	0.762	0.0318	38.1		
Van	M5	1994	7	0.005	25.9	18.7	25.1	21.4	3542		154	115	14.0	0.755	0.0325	38.0		
Van	M5	1995	2	0.001	23.9	17.9	21.5	19.6	3942		138	119	14.7	0.874	0.0321	38.4		
Van	M5	1996	0	0.000	28.3	20.9	25.5	23.0	3210		133	127	11.9	0.955	0.0395	37.0		
Van	M5	1997																
Van	M5	1998																
Van	M5	1999																
Van	M5	2000																
Van	M5	2001																
Van	M5	2002																
Van	M5	2003																
Van	M5	2004																
Van	M5	2005																
Van	M5	2006																
Van	M5	2007																
Van	M5	2008	1	0.001	31.6	21.5	28.0	24.8	3500		140	153	10.9	1.093	0.0437	43.4		
Van	M5	2009	1	0.003	31.6	21.5	28.0	24.8	3500		140	153	10.9	1.093	0.0437	43.3		
Van	M5	2010	1	0.002	31.6	21.5	28.0	24.8	3500		140	153	10.9	1.093	0.0437	43.4		
Van	M5	2011																
Van	M5	2012																
Van	OT	1975																
Van	OT	1976																
Van	OT	1977																
Van	OT	1978																
Van	OT	1979																
Van	OT	1980																
Van	OT	1981																
Van	OT	1982																
Van	OT	1983																
Van	OT	1984	0	0.000	32.4	25.9	30.0	27.6	2750		122	88	14.3	0.721	0.0320	37.9		
Van	OT	1985																
Van	OT	1986																
Van	OT	1987	2	0.002	18.4	15.4	15.4	15.4	4000		129	90	18.3	0.698	0.0225	30.8		
Van	OT	1988																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	M5	1991	6.4%	35.6%		99.0%	1.0%							
Van	M5	1992	67.5%	11.3%		78.6%	21.4%							
Van	M5	1993	66.5%	0.6%		66.0%	34.0%							
Van	M5	1994	68.5%	7.0%		48.1%	51.9%		83.2%	7.0%	9.9%			
Van	M5	1995	67.2%	32.8%		100.0%			41.0%		59.0%			
Van	M5	1996	58.1%	41.9%		100.0%					100.0%			
Van	M5	1997												
Van	M5	1998												
Van	M5	1999												
Van	M5	2000												
Van	M5	2001												
Van	M5	2002												
Van	M5	2003												
Van	M5	2004												
Van	M5	2005												
Van	M5	2006												
Van	M5	2007												
Van	M5	2008	100.0%			100.0%					100.0%		100.0%	
Van	M5	2009	100.0%			100.0%					100.0%		100.0%	
Van	M5	2010	100.0%			100.0%					100.0%		100.0%	
Van	M5	2011												
Van	M5	2012												
Van	OT	1975												
Van	OT	1976												
Van	OT	1977												
Van	OT	1978												
Van	OT	1979												
Van	OT	1980												
Van	OT	1981												
Van	OT	1982												
Van	OT	1983												
Van	OT	1984	100.0%											
Van	OT	1985												
Van	OT	1986												
Van	OT	1987		100.0%		100.0%								
Van	OT	1988												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	OT	1989	0	0.000	18.6	15.3	15.5	15.4	4500		129	90	20.4	0.698	0.0200	34.7		
Van	OT	1990	0	0.000	18.5	15.3	15.3	15.3	4500		129	90	20.8	0.698	0.0200	34.4		
Van	OT	1991																
Van	OT	1992																
Van	OT	1993																
Van	OT	1994																
Van	OT	1995																
Van	OT	1996																
Van	OT	1997																
Van	OT	1998																
Van	OT	1999																
Van	OT	2000																
Van	OT	2001																
Van	OT	2002																
Van	OT	2003																
Van	OT	2004																
Van	OT	2005																
Van	OT	2006																
Van	OT	2007																
Van	OT	2008																
Van	OT	2009																
Van	OT	2010																
Van	OT	2011																
Van	OT	2012																
Truck SUV	A3	1975																
Truck SUV	A3	1976																
Truck SUV	A3	1977																
Truck SUV	A3	1978																
Truck SUV	A3	1979	256	0.665	11.5	9.6	10.0	9.8	4899		358	151	14.9	0.423	0.0310	23.9		
Truck SUV	A3	1980	56	0.303	13.7	11.1	12.4	11.6	4497		327	141	14.6	0.429	0.0312	26.2		
Truck SUV	A3	1981	24	0.179	14.2	11.5	12.8	12.1	4743		326	142	15.0	0.439	0.0301	28.6		
Truck SUV	A3	1982	35	0.231	14.1	11.5	12.6	12.0	4710		323	143	14.8	0.446	0.0305	28.3		
Truck SUV	A3	1983	35	0.136	14.6	11.8	13.3	12.4	4701		322	140	15.1	0.438	0.0299	29.3		
Truck SUV	A3	1984	164	0.289	16.3	13.0	15.0	13.8	4176		261	129	14.8	0.519	0.0307	29.3		
Truck SUV	A3	1985	88	0.136	14.2	11.4	13.0	12.0	4717		337	165	13.4	0.492	0.0349	28.5		
Truck SUV	A3	1986	53	0.075	14.5	11.5	13.3	12.3	4653		337	158	13.8	0.469	0.0338	28.7		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	OT	1989		100.0%		100.0%								
Van	OT	1990				100.0%								
Van	OT	1991												
Van	OT	1992												
Van	OT	1993												
Van	OT	1994												
Van	OT	1995												
Van	OT	1996												
Van	OT	1997												
Van	OT	1998												
Van	OT	1999												
Van	OT	2000												
Van	OT	2001												
Van	OT	2002												
Van	OT	2003												
Van	OT	2004												
Van	OT	2005												
Van	OT	2006												
Van	OT	2007												
Van	OT	2008												
Van	OT	2009												
Van	OT	2010												
Van	OT	2011												
Van	OT	2012												
Truck SUV	A3	1975												
Truck SUV	A3	1976												
Truck SUV	A3	1977												
Truck SUV	A3	1978												
Truck SUV	A3	1979		66.0%										
Truck SUV	A3	1980		99.7%										
Truck SUV	A3	1981		100.0%										
Truck SUV	A3	1982		95.5%										
Truck SUV	A3	1983		96.8%										
Truck SUV	A3	1984		97.4%										
Truck SUV	A3	1985		81.2%				0.4%						
Truck SUV	A3	1986		91.9%										

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	A3	1987	58	0.075	14.6	11.5	13.3	12.3	4604		327	152	14.0	0.464	0.0330	28.5		
Truck SUV	A3	1988	61	0.071	14.9	11.7	13.7	12.6	4649		331	161	13.6	0.484	0.0344	29.3		
Truck SUV	A3	1989	60	0.073	14.5	11.4	13.2	12.2	4610		330	162	13.4	0.488	0.0350	28.1		
Truck SUV	A3	1990	14	0.022	15.9	12.4	14.3	13.3	3991		307	128	14.3	0.418	0.0320	26.6		
Truck SUV	A3	1991	11	0.012	16.4	12.8	14.8	13.7	3847		283	168	11.3	0.625	0.0447	26.4		
Truck SUV	A3	1992	6	0.008	16.2	13.0	13.7	13.3	3500		242	190	9.3	0.785	0.0543	23.3		
Truck SUV	A3	1993	8	0.009	18.0	14.2	15.6	14.8	3500		242	190	9.3	0.785	0.0543	26.0		
Truck SUV	A3	1994																
Truck SUV	A3	1995																
Truck SUV	A3	1996																
Truck SUV	A3	1997																
Truck SUV	A3	1998																
Truck SUV	A3	1999																
Truck SUV	A3	2000																
Truck SUV	A3	2001																
Truck SUV	A3	2002																
Truck SUV	A3	2003																
Truck SUV	A3	2004																
Truck SUV	A3	2005																
Truck SUV	A3	2006																
Truck SUV	A3	2007																
Truck SUV	A3	2008																
Truck SUV	A3	2009																
Truck SUV	A3	2010																
Truck SUV	A3	2011																
Truck SUV	A3	2012																
Truck SUV	A4	1975																
Truck SUV	A4	1976																
Truck SUV	A4	1977																
Truck SUV	A4	1978																
Truck SUV	A4	1979																
Truck SUV	A4	1980																
Truck SUV	A4	1981																
Truck SUV	A4	1982																
Truck SUV	A4	1983																
Truck SUV	A4	1984																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	A3	1987		93.2%		11.9%								
Truck SUV	A3	1988		95.6%		39.8%	17.1%							
Truck SUV	A3	1989		94.7%		36.8%	25.3%							
Truck SUV	A3	1990		100.0%		0.7%								
Truck SUV	A3	1991		100.0%		65.3%								
Truck SUV	A3	1992		100.0%		100.0%								
Truck SUV	A3	1993		100.0%		100.0%								
Truck SUV	A3	1994												
Truck SUV	A3	1995												
Truck SUV	A3	1996												
Truck SUV	A3	1997												
Truck SUV	A3	1998												
Truck SUV	A3	1999												
Truck SUV	A3	2000												
Truck SUV	A3	2001												
Truck SUV	A3	2002												
Truck SUV	A3	2003												
Truck SUV	A3	2004												
Truck SUV	A3	2005												
Truck SUV	A3	2006												
Truck SUV	A3	2007												
Truck SUV	A3	2008												
Truck SUV	A3	2009												
Truck SUV	A3	2010												
Truck SUV	A3	2011												
Truck SUV	A3	2012												
Truck SUV	A4	1975												
Truck SUV	A4	1976												
Truck SUV	A4	1977												
Truck SUV	A4	1978												
Truck SUV	A4	1979												
Truck SUV	A4	1980												
Truck SUV	A4	1981												
Truck SUV	A4	1982												
Truck SUV	A4	1983												
Truck SUV	A4	1984												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	A4	1985																
Truck SUV	A4	1986																
Truck SUV	A4	1987	15	0.019	21.0	17.4	18.0	17.7	3500		156	109	14.6	0.699	0.0311	30.9		
Truck SUV	A4	1988	7	0.009	20.1	16.5	17.1	16.8	3500		156	109	14.6	0.699	0.0311	29.4		
Truck SUV	A4	1989	9	0.011	19.4	15.8	16.5	16.1	4000		181	143	13.0	0.790	0.0358	32.3		
Truck SUV	A4	1990	12	0.019	15.0	11.5	14.1	12.6	4800		328	175	12.8	0.533	0.0365	30.3		
Truck SUV	A4	1991	4	0.005	15.4	11.8	14.2	12.9	4804		326	174	12.9	0.533	0.0362	31.0		
Truck SUV	A4	1992	0	0.001	13.0	10.0	11.9	10.9	5000		357	193	12.3	0.541	0.0386	27.2		
Truck SUV	A4	1993																
Truck SUV	A4	1994																
Truck SUV	A4	1995																
Truck SUV	A4	1996																
Truck SUV	A4	1997																
Truck SUV	A4	1998																
Truck SUV	A4	1999																
Truck SUV	A4	2000																
Truck SUV	A4	2001																
Truck SUV	A4	2002																
Truck SUV	A4	2003																
Truck SUV	A4	2004																
Truck SUV	A4	2005																
Truck SUV	A4	2006																
Truck SUV	A4	2007																
Truck SUV	A4	2008																
Truck SUV	A4	2009																
Truck SUV	A4	2010																
Truck SUV	A4	2011																
Truck SUV	A4	2012																
Truck SUV	A6	1975																
Truck SUV	A6	1976																
Truck SUV	A6	1977																
Truck SUV	A6	1978																
Truck SUV	A6	1979																
Truck SUV	A6	1980																
Truck SUV	A6	1981																
Truck SUV	A6	1982																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	A4	1985												
Truck SUV	A4	1986												
Truck SUV	A4	1987		100.0%										
Truck SUV	A4	1988		100.0%										
Truck SUV	A4	1989		100.0%		100.0%								
Truck SUV	A4	1990		60.0%			100.0%							
Truck SUV	A4	1991		60.8%			100.0%							
Truck SUV	A4	1992		91.2%		6.9%	93.1%							
Truck SUV	A4	1993												
Truck SUV	A4	1994												
Truck SUV	A4	1995												
Truck SUV	A4	1996												
Truck SUV	A4	1997												
Truck SUV	A4	1998												
Truck SUV	A4	1999												
Truck SUV	A4	2000												
Truck SUV	A4	2001												
Truck SUV	A4	2002												
Truck SUV	A4	2003												
Truck SUV	A4	2004												
Truck SUV	A4	2005												
Truck SUV	A4	2006												
Truck SUV	A4	2007												
Truck SUV	A4	2008												
Truck SUV	A4	2009												
Truck SUV	A4	2010												
Truck SUV	A4	2011												
Truck SUV	A4	2012												
Truck SUV	A6	1975												
Truck SUV	A6	1976												
Truck SUV	A6	1977												
Truck SUV	A6	1978												
Truck SUV	A6	1979												
Truck SUV	A6	1980												
Truck SUV	A6	1981												
Truck SUV	A6	1982												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	A6	1983																
Truck SUV	A6	1984																
Truck SUV	A6	1985																
Truck SUV	A6	1986																
Truck SUV	A6	1987																
Truck SUV	A6	1988																
Truck SUV	A6	1989																
Truck SUV	A6	1990																
Truck SUV	A6	1991																
Truck SUV	A6	1992																
Truck SUV	A6	1993																
Truck SUV	A6	1994																
Truck SUV	A6	1995																
Truck SUV	A6	1996																
Truck SUV	A6	1997																
Truck SUV	A6	1998																
Truck SUV	A6	1999																
Truck SUV	A6	2000																
Truck SUV	A6	2001																
Truck SUV	A6	2002																
Truck SUV	A6	2003																
Truck SUV	A6	2004																
Truck SUV	A6	2005																
Truck SUV	A6	2006																
Truck SUV	A6	2007																
Truck SUV	A6	2008																
Truck SUV	A6	2009																
Truck SUV	A6	2010	17	0.007	26.6	18.1	24.2	21.1	4000		121	200	9.9	1.653	0.0500	42.3		
Truck SUV	A6	2011																
Truck SUV	A6	2012																
Truck SUV	A7	1975																
Truck SUV	A7	1976																
Truck SUV	A7	1977																
Truck SUV	A7	1978																
Truck SUV	A7	1979																
Truck SUV	A7	1980																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	A6	1983												
Truck SUV	A6	1984												
Truck SUV	A6	1985												
Truck SUV	A6	1986												
Truck SUV	A6	1987												
Truck SUV	A6	1988												
Truck SUV	A6	1989												
Truck SUV	A6	1990												
Truck SUV	A6	1991												
Truck SUV	A6	1992												
Truck SUV	A6	1993												
Truck SUV	A6	1994												
Truck SUV	A6	1995												
Truck SUV	A6	1996												
Truck SUV	A6	1997												
Truck SUV	A6	1998												
Truck SUV	A6	1999												
Truck SUV	A6	2000												
Truck SUV	A6	2001												
Truck SUV	A6	2002												
Truck SUV	A6	2003												
Truck SUV	A6	2004												
Truck SUV	A6	2005												
Truck SUV	A6	2006												
Truck SUV	A6	2007												
Truck SUV	A6	2008												
Truck SUV	A6	2009												
Truck SUV	A6	2010	54.5%	45.5%	100.0%						100.0%		100.0%	
Truck SUV	A6	2011												
Truck SUV	A6	2012												
Truck SUV	A7	1975												
Truck SUV	A7	1976												
Truck SUV	A7	1977												
Truck SUV	A7	1978												
Truck SUV	A7	1979												
Truck SUV	A7	1980												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	A7	1981																
Truck SUV	A7	1982																
Truck SUV	A7	1983																
Truck SUV	A7	1984																
Truck SUV	A7	1985																
Truck SUV	A7	1986																
Truck SUV	A7	1987																
Truck SUV	A7	1988																
Truck SUV	A7	1989																
Truck SUV	A7	1990																
Truck SUV	A7	1991																
Truck SUV	A7	1992																
Truck SUV	A7	1993																
Truck SUV	A7	1994																
Truck SUV	A7	1995																
Truck SUV	A7	1996																
Truck SUV	A7	1997																
Truck SUV	A7	1998																
Truck SUV	A7	1999																
Truck SUV	A7	2000																
Truck SUV	A7	2001																
Truck SUV	A7	2002																
Truck SUV	A7	2003																
Truck SUV	A7	2004																
Truck SUV	A7	2005																
Truck SUV	A7	2006																
Truck SUV	A7	2007																
Truck SUV	A7	2008																
Truck SUV	A7	2009																
Truck SUV	A7	2010	0	0.000	23.1	16.6	19.4	18.1	6000		269	400	5.4	1.487	0.0667	54.3		
Truck SUV	A7	2011	0	0.000	23.2	16.6	19.4	18.1	6000		269	400	5.5	1.487	0.0667	54.3		
Truck SUV	A7	2012																
Truck SUV	CVT	1975																
Truck SUV	CVT	1976																
Truck SUV	CVT	1977																
Truck SUV	CVT	1978																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	A7	1981												
Truck SUV	A7	1982												
Truck SUV	A7	1983												
Truck SUV	A7	1984												
Truck SUV	A7	1985												
Truck SUV	A7	1986												
Truck SUV	A7	1987												
Truck SUV	A7	1988												
Truck SUV	A7	1989												
Truck SUV	A7	1990												
Truck SUV	A7	1991												
Truck SUV	A7	1992												
Truck SUV	A7	1993												
Truck SUV	A7	1994												
Truck SUV	A7	1995												
Truck SUV	A7	1996												
Truck SUV	A7	1997												
Truck SUV	A7	1998												
Truck SUV	A7	1999												
Truck SUV	A7	2000												
Truck SUV	A7	2001												
Truck SUV	A7	2002												
Truck SUV	A7	2003												
Truck SUV	A7	2004												
Truck SUV	A7	2005												
Truck SUV	A7	2006												
Truck SUV	A7	2007												
Truck SUV	A7	2008												
Truck SUV	A7	2009												
Truck SUV	A7	2010		100.0%	100.0%						100.0%		100.0%	100.0%
Truck SUV	A7	2011		100.0%	100.0%						100.0%		100.0%	100.0%
Truck SUV	A7	2012												
Truck SUV	CVT	1975												
Truck SUV	CVT	1976												
Truck SUV	CVT	1977												
Truck SUV	CVT	1978												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	CVT	1979																
Truck SUV	CVT	1980																
Truck SUV	CVT	1981																
Truck SUV	CVT	1982																
Truck SUV	CVT	1983																
Truck SUV	CVT	1984																
Truck SUV	CVT	1985																
Truck SUV	CVT	1986																
Truck SUV	CVT	1987																
Truck SUV	CVT	1988																
Truck SUV	CVT	1989																
Truck SUV	CVT	1990																
Truck SUV	CVT	1991																
Truck SUV	CVT	1992																
Truck SUV	CVT	1993																
Truck SUV	CVT	1994																
Truck SUV	CVT	1995																
Truck SUV	CVT	1996																
Truck SUV	CVT	1997																
Truck SUV	CVT	1998																
Truck SUV	CVT	1999																
Truck SUV	CVT	2000																
Truck SUV	CVT	2001																
Truck SUV	CVT	2002	2	0.000	26.0	18.4	23.2	20.8	3500		134	140	11.9	1.045	0.0400	36.4		
Truck SUV	CVT	2003	46	0.013	26.0	18.3	23.0	20.6	3836		187	211	9.6	1.116	0.0543	39.6		
Truck SUV	CVT	2004	42	0.010	25.8	18.0	22.9	20.5	3932		203	231	8.9	1.131	0.0583	40.2		
Truck SUV	CVT	2005	49	0.015	26.7	18.7	23.1	21.0	3982		201	227	9.0	1.117	0.0568	42.1		
Truck SUV	CVT	2006	139	0.046	30.9	22.8	24.1	23.5	4394		200	214	8.1	1.063	0.0487	52.5		
Truck SUV	CVT	2007	192	0.058	28.7	20.6	23.7	22.2	3987		180	200	9.4	1.113	0.0501	44.8		
Truck SUV	CVT	2008	204	0.067	31.4	22.8	24.9	24.0	4028		167	182	9.8	1.105	0.0451	48.6		
Truck SUV	CVT	2009	183	0.107	28.4	20.1	23.9	22.1	4093		183	210	9.6	1.153	0.0510	45.5		
Truck SUV	CVT	2010	244	0.106	30.4	21.4	25.6	23.6	4007		167	193	10.0	1.156	0.0480	47.8		
Truck SUV	CVT	2011	350	0.114	31.0	21.4	26.8	24.2	3897		158	182	10.5	1.149	0.0465	47.3		
Truck SUV	CVT	2012	317	0.114	30.8	21.4	26.3	23.9	4025		171	192	10.2	1.138	0.0474	48.4		
Truck SUV	L3	1975																
Truck SUV	L3	1976																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	CVT	1979												
Truck SUV	CVT	1980												
Truck SUV	CVT	1981												
Truck SUV	CVT	1982												
Truck SUV	CVT	1983												
Truck SUV	CVT	1984												
Truck SUV	CVT	1985												
Truck SUV	CVT	1986												
Truck SUV	CVT	1987												
Truck SUV	CVT	1988												
Truck SUV	CVT	1989												
Truck SUV	CVT	1990												
Truck SUV	CVT	1991												
Truck SUV	CVT	1992												
Truck SUV	CVT	1993												
Truck SUV	CVT	1994												
Truck SUV	CVT	1995												
Truck SUV	CVT	1996												
Truck SUV	CVT	1997												
Truck SUV	CVT	1998												
Truck SUV	CVT	1999												
Truck SUV	CVT	2000												
Truck SUV	CVT	2001												
Truck SUV	CVT	2002		100.0%		100.0%					100.0%			
Truck SUV	CVT	2003		100.0%		100.0%					100.0%		67.2%	
Truck SUV	CVT	2004		100.0%		100.0%					100.0%		86.3%	
Truck SUV	CVT	2005		100.0%		100.0%					100.0%		83.1%	13.3%
Truck SUV	CVT	2006	14.6%	85.4%		100.0%					100.0%		91.0%	66.2%
Truck SUV	CVT	2007	25.5%	74.5%		100.0%					100.0%		96.2%	24.3%
Truck SUV	CVT	2008	25.5%	72.7%		100.0%			3.9%		96.1%		88.8%	35.8%
Truck SUV	CVT	2009	13.6%	85.0%	0.1%	99.9%			3.4%		96.6%		99.4%	13.7%
Truck SUV	CVT	2010	12.9%	86.8%		100.0%			0.5%		99.5%		99.9%	13.8%
Truck SUV	CVT	2011	12.5%	87.3%		100.0%			0.6%		99.4%		100.0%	4.8%
Truck SUV	CVT	2012	15.9%	81.7%		100.0%			6.1%		93.9%		100.0%	13.5%
Truck SUV	L3	1975												
Truck SUV	L3	1976												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	L3	1977																
Truck SUV	L3	1978																
Truck SUV	L3	1979	2	0.004	12.1	10.0	10.6	10.3	5000		360	160	14.3	0.444	0.0320	25.7		
Truck SUV	L3	1980	48	0.261	14.4	11.4	13.4	12.2	5049		343	161	14.3	0.470	0.0319	30.9		
Truck SUV	L3	1981	56	0.411	16.0	12.7	14.9	13.6	4661		318	149	14.3	0.468	0.0319	31.8		
Truck SUV	L3	1982	24	0.163	16.6	13.1	15.7	14.1	4311		317	136	14.5	0.432	0.0316	30.7		
Truck SUV	L3	1983	26	0.101	15.7	12.5	14.6	13.4	4281		330	135	14.5	0.410	0.0317	28.9		
Truck SUV	L3	1984	51	0.090	20.8	17.0	18.7	17.7	3364		175	104	14.7	0.607	0.0311	29.7		
Truck SUV	L3	1985	60	0.093	20.5	16.5	18.7	17.4	3465		166	105	15.0	0.630	0.0302	30.3		
Truck SUV	L3	1986	75	0.105	19.8	16.1	17.6	16.7	3561		179	117	13.9	0.666	0.0329	29.9		
Truck SUV	L3	1987	24	0.031	17.9	14.3	16.1	15.1	4114		212	142	13.4	0.702	0.0345	31.1		
Truck SUV	L3	1988	5	0.006	17.7	13.7	16.6	14.9	4500		318	145	14.2	0.456	0.0322	33.5		
Truck SUV	L3	1989	17	0.021	29.6	24.1	25.3	24.6	2500		97	80	14.3	0.825	0.0320	30.8		
Truck SUV	L3	1990	14	0.022	28.7	23.2	24.4	23.8	2750		97	80	15.4	0.825	0.0291	32.7		
Truck SUV	L3	1991	15	0.017	27.2	21.8	23.1	22.4	2804		97	80	15.6	0.825	0.0286	31.4		
Truck SUV	L3	1992	10	0.013	27.5	21.9	23.3	22.6	2750		97	80	15.4	0.825	0.0291	31.0		
Truck SUV	L3	1993	9	0.011	27.5	21.8	23.2	22.5	2750		97	80	15.4	0.825	0.0291	30.9		
Truck SUV	L3	1994	30	0.024	23.6	18.3	20.3	19.3	2958		138	114	13.2	0.833	0.0374	28.9		
Truck SUV	L3	1995	37	0.023	23.3	18.0	20.0	19.0	2950		137	120	12.1	0.908	0.0402	28.5		
Truck SUV	L3	1996	11	0.007	27.4	21.2	22.8	22.0	2750		97	95	13.4	0.979	0.0345	30.3		
Truck SUV	L3	1997	34	0.016	20.2	15.2	17.9	16.5	3404		195	151	11.3	0.793	0.0442	28.2		
Truck SUV	L3	1998	29	0.014	19.8	14.8	17.3	16.0	3386		201	156	11.0	0.794	0.0456	27.3		
Truck SUV	L3	1999	30	0.013	18.7	13.9	16.6	15.2	3925		228	172	11.2	0.756	0.0436	29.8		
Truck SUV	L3	2000	36	0.014	19.1	14.0	16.7	15.4	3939		231	174	11.1	0.754	0.0439	30.3		
Truck SUV	L3	2001	28	0.011	18.9	14.0	16.4	15.2	3951		233	175	11.0	0.753	0.0442	30.0		
Truck SUV	L3	2002	28	0.008	18.4	13.6	15.7	14.7	3969		236	190	10.4	0.805	0.0478	29.1		
Truck SUV	L3	2003																
Truck SUV	L3	2004																
Truck SUV	L3	2005																
Truck SUV	L3	2006																
Truck SUV	L3	2007																
Truck SUV	L3	2008																
Truck SUV	L3	2009																
Truck SUV	L3	2010																
Truck SUV	L3	2011																
Truck SUV	L3	2012																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	L3	1977												
Truck SUV	L3	1978												
Truck SUV	L3	1979												
Truck SUV	L3	1980		64.3%										
Truck SUV	L3	1981		77.5%										
Truck SUV	L3	1982		100.0%										
Truck SUV	L3	1983		100.0%										
Truck SUV	L3	1984		100.0%										
Truck SUV	L3	1985		100.0%										
Truck SUV	L3	1986		93.9%			12.4%							
Truck SUV	L3	1987		77.2%			77.2%							
Truck SUV	L3	1988					100.0%							
Truck SUV	L3	1989		100.0%			100.0%							
Truck SUV	L3	1990		100.0%			100.0%							
Truck SUV	L3	1991		100.0%			100.0%							
Truck SUV	L3	1992		100.0%			100.0%							
Truck SUV	L3	1993		100.0%		14.7%	85.3%							
Truck SUV	L3	1994		100.0%		47.8%	52.2%		91.2%		8.8%			
Truck SUV	L3	1995		100.0%		100.0%			100.0%					
Truck SUV	L3	1996		100.0%		100.0%			0.0%		100.0%			
Truck SUV	L3	1997		100.0%		100.0%			87.2%		12.8%			
Truck SUV	L3	1998		100.0%		100.0%			84.7%		15.3%			
Truck SUV	L3	1999		100.0%		100.0%			100.0%					
Truck SUV	L3	2000		100.0%		100.0%			100.0%					
Truck SUV	L3	2001		100.0%		100.0%			100.0%					
Truck SUV	L3	2002		100.0%		100.0%			100.0%					
Truck SUV	L3	2003												
Truck SUV	L3	2004												
Truck SUV	L3	2005												
Truck SUV	L3	2006												
Truck SUV	L3	2007												
Truck SUV	L3	2008												
Truck SUV	L3	2009												
Truck SUV	L3	2010												
Truck SUV	L3	2011												
Truck SUV	L3	2012												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	L4	1975																
Truck SUV	L4	1976																
Truck SUV	L4	1977																
Truck SUV	L4	1978																
Truck SUV	L4	1979																
Truck SUV	L4	1980																
Truck SUV	L4	1981																
Truck SUV	L4	1982	43	0.287	19.4	14.9	19.0	16.5	5287		336	146	16.3	0.437	0.0279	44.9		
Truck SUV	L4	1983	108	0.421	19.7	15.1	19.4	16.8	4691		267	134	15.8	0.533	0.0285	39.9		
Truck SUV	L4	1984	181	0.318	19.5	15.0	19.4	16.7	4585		255	134	15.5	0.553	0.0291	38.5		
Truck SUV	L4	1985	308	0.476	20.0	15.3	20.0	17.1	4316		229	126	15.5	0.575	0.0290	37.0		
Truck SUV	L4	1986	308	0.431	18.9	14.5	18.6	16.1	4366		241	142	14.0	0.633	0.0330	35.1		
Truck SUV	L4	1987	373	0.479	19.6	14.9	19.3	16.6	4218		238	157	12.8	0.680	0.0375	34.9		
Truck SUV	L4	1988	488	0.569	19.3	14.7	18.7	16.3	4168		246	161	12.4	0.675	0.0392	34.0		
Truck SUV	L4	1989	519	0.635	19.4	14.7	18.7	16.4	4269		266	170	12.0	0.655	0.0406	34.9		
Truck SUV	L4	1990	415	0.646	18.7	14.0	18.2	15.7	4390		263	172	12.2	0.678	0.0401	34.4		
Truck SUV	L4	1991	651	0.747	19.6	14.6	19.0	16.4	4292		248	169	12.1	0.690	0.0397	35.3		
Truck SUV	L4	1992	579	0.761	18.8	13.9	18.2	15.7	4364		250	177	11.8	0.723	0.0413	34.4		
Truck SUV	L4	1993	660	0.788	19.1	14.0	18.3	15.9	4516		259	186	11.7	0.736	0.0420	35.9		
Truck SUV	L4	1994	1064	0.824	18.8	13.9	18.0	15.7	4491		259	188	11.5	0.741	0.0424	35.3		
Truck SUV	L4	1995	1320	0.827	18.9	13.8	18.0	15.7	4500		261	185	11.7	0.729	0.0416	35.3		
Truck SUV	L4	1996	1494	0.932	19.4	14.0	18.6	16.1	4443		265	192	11.3	0.734	0.0434	35.7		
Truck SUV	L4	1997	1574	0.753	19.3	13.9	18.2	15.9	4584		267	201	11.1	0.774	0.0440	36.4		
Truck SUV	L4	1998	1676	0.788	19.4	13.9	18.4	15.9	4545		263	199	11.1	0.784	0.0439	36.3		
Truck SUV	L4	1999	1922	0.821	19.4	13.9	18.2	15.9	4585		260	208	10.8	0.830	0.0455	36.5		
Truck SUV	L4	2000	2117	0.838	19.4	13.8	18.1	15.9	4654		259	210	10.9	0.837	0.0453	36.9		
Truck SUV	L4	2001	2157	0.797	20.2	14.4	18.5	16.4	4571		242	214	10.6	0.916	0.0469	37.4		
Truck SUV	L4	2002	2537	0.707	20.3	14.2	18.7	16.4	4699		246	233	10.1	0.971	0.0497	38.5		
Truck SUV	L4	2003	2499	0.700	20.2	14.1	18.7	16.3	4835		251	236	10.2	0.968	0.0490	39.3		
Truck SUV	L4	2004	2462	0.604	20.4	14.1	19.0	16.5	4797		255	238	10.1	0.955	0.0498	39.4		
Truck SUV	L4	2005	1478	0.452	20.7	14.2	19.1	16.6	4896		255	250	9.9	0.997	0.0508	40.6		
Truck SUV	L4	2006	1098	0.365	21.2	14.6	19.5	17.0	4737		242	241	9.9	1.015	0.0507	40.3		
Truck SUV	L4	2007	1170	0.353	21.6	14.7	20.1	17.4	5030		259	256	9.9	1.000	0.0506	43.6		
Truck SUV	L4	2008	877	0.285	22.3	15.2	20.6	17.9	4733		239	238	10.1	1.008	0.0499	42.3		
Truck SUV	L4	2009	298	0.174	24.8	17.0	22.4	19.7	4128		191	198	10.4	1.057	0.0479	41.1		
Truck SUV	L4	2010	345	0.149	25.8	17.7	23.3	20.5	3998		185	188	10.5	1.041	0.0472	41.4		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	L4	1975												
Truck SUV	L4	1976												
Truck SUV	L4	1977												
Truck SUV	L4	1978												
Truck SUV	L4	1979												
Truck SUV	L4	1980												
Truck SUV	L4	1981												
Truck SUV	L4	1982		55.6%				52.3%						
Truck SUV	L4	1983		80.3%				18.0%						
Truck SUV	L4	1984		81.2%				8.0%						
Truck SUV	L4	1985		87.2%		3.4%	0.7%	3.1%						
Truck SUV	L4	1986		87.3%		36.7%	30.4%	2.2%						
Truck SUV	L4	1987		90.3%		40.9%	58.3%	0.9%						
Truck SUV	L4	1988		91.6%		49.4%	50.0%	0.6%						
Truck SUV	L4	1989		90.7%		47.3%	52.3%	0.4%						
Truck SUV	L4	1990		89.7%		63.8%	35.7%	0.5%						
Truck SUV	L4	1991		95.5%		60.4%	39.4%	0.3%						
Truck SUV	L4	1992		94.5%		75.2%	24.8%							
Truck SUV	L4	1993		91.6%		81.9%	18.1%							
Truck SUV	L4	1994		94.7%		85.8%	14.2%		88.5%	4.9%	6.7%			
Truck SUV	L4	1995		89.5%		82.5%	17.5%		85.8%		14.2%			
Truck SUV	L4	1996		83.5%		100.0%		0.0%	89.7%		10.3%			
Truck SUV	L4	1997		82.4%		100.0%		0.0%	80.0%		20.0%			
Truck SUV	L4	1998		85.3%		100.0%		0.0%	79.1%		20.9%			
Truck SUV	L4	1999		76.9%		100.0%			73.7%		26.3%		3.6%	
Truck SUV	L4	2000		82.4%		100.0%			77.6%		22.4%		2.8%	
Truck SUV	L4	2001	9.3%	73.3%		100.0%			58.9%		41.1%		13.2%	
Truck SUV	L4	2002	2.4%	74.2%		100.0%			46.2%		53.8%		31.2%	
Truck SUV	L4	2003	3.6%	70.6%		100.0%			47.8%		52.2%		35.6%	
Truck SUV	L4	2004	2.4%	70.9%		100.0%			52.4%		47.6%		32.1%	
Truck SUV	L4	2005	2.6%	74.7%		100.0%			42.8%	7.2%	50.0%		38.5%	
Truck SUV	L4	2006	3.1%	78.2%		100.0%			32.6%	8.4%	59.0%		50.4%	
Truck SUV	L4	2007	1.4%	68.6%		100.0%			65.4%		34.6%		26.2%	
Truck SUV	L4	2008	1.0%	76.1%		100.0%			55.1%		44.9%		28.7%	
Truck SUV	L4	2009	1.8%	88.5%	0.0%	100.0%			35.3%		64.7%		29.6%	0.6%
Truck SUV	L4	2010	0.9%	92.3%		100.0%			41.4%		58.6%		56.8%	

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	L4	2011	352	0.115	25.6	17.5	23.2	20.3	4069		191	192	10.5	1.031	0.0472	41.9		
Truck SUV	L4	2012	251	0.090	27.2	18.6	24.5	21.6	3979		176	187	10.5	1.084	0.0471	43.3		
Truck SUV	L5	1975																
Truck SUV	L5	1976																
Truck SUV	L5	1977																
Truck SUV	L5	1978																
Truck SUV	L5	1979																
Truck SUV	L5	1980																
Truck SUV	L5	1981																
Truck SUV	L5	1982																
Truck SUV	L5	1983																
Truck SUV	L5	1984																
Truck SUV	L5	1985																
Truck SUV	L5	1986																
Truck SUV	L5	1987																
Truck SUV	L5	1988																
Truck SUV	L5	1989																
Truck SUV	L5	1990																
Truck SUV	L5	1991																
Truck SUV	L5	1992																
Truck SUV	L5	1993																
Truck SUV	L5	1994																
Truck SUV	L5	1995																
Truck SUV	L5	1996																
Truck SUV	L5	1997	279	0.134	20.1	14.4	19.0	16.5	4500		244	160	13.1	0.656	0.0356	37.2		
Truck SUV	L5	1998	262	0.123	20.1	14.5	18.9	16.5	4480		237	169	12.6	0.726	0.0378	37.0		
Truck SUV	L5	1999	252	0.107	20.0	14.3	18.6	16.3	4528		238	202	11.0	0.854	0.0446	37.0		
Truck SUV	L5	2000	249	0.098	20.2	14.4	18.8	16.5	4656		239	200	11.4	0.844	0.0430	38.3		
Truck SUV	L5	2001	419	0.155	19.9	14.0	18.6	16.2	4634		241	223	10.3	0.940	0.0481	37.6		
Truck SUV	L5	2002	907	0.253	19.6	13.7	18.4	15.9	4564		249	224	10.2	0.907	0.0491	36.5		
Truck SUV	L5	2003	946	0.265	20.2	14.0	18.9	16.4	4664		247	233	10.0	0.958	0.0500	38.3		
Truck SUV	L5	2004	1430	0.351	20.2	13.9	18.8	16.3	4743		253	246	9.7	0.994	0.0519	38.8		
Truck SUV	L5	2005	1604	0.490	20.8	14.3	19.3	16.7	4662		237	240	9.8	1.034	0.0514	39.1		
Truck SUV	L5	2006	1490	0.496	21.2	14.5	19.7	17.1	4665		234	235	10.0	1.024	0.0505	39.9		
Truck SUV	L5	2007	1318	0.398	22.2	15.2	20.4	17.8	4591		227	238	9.8	1.068	0.0518	41.1		
Truck SUV	L5	2008	1185	0.386	22.8	15.6	21.0	18.3	4576		223	247	9.6	1.121	0.0537	42.0		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	L4	2011	1.8%	89.8%		100.0%			47.7%		52.3%		49.5%	
Truck SUV	L4	2012	2.9%	88.6%		100.0%			32.5%		67.5%		67.5%	
Truck SUV	L5	1975												
Truck SUV	L5	1976												
Truck SUV	L5	1977												
Truck SUV	L5	1978												
Truck SUV	L5	1979												
Truck SUV	L5	1980												
Truck SUV	L5	1981												
Truck SUV	L5	1982												
Truck SUV	L5	1983												
Truck SUV	L5	1984												
Truck SUV	L5	1985												
Truck SUV	L5	1986												
Truck SUV	L5	1987												
Truck SUV	L5	1988												
Truck SUV	L5	1989												
Truck SUV	L5	1990												
Truck SUV	L5	1991												
Truck SUV	L5	1992												
Truck SUV	L5	1993												
Truck SUV	L5	1994												
Truck SUV	L5	1995												
Truck SUV	L5	1996												
Truck SUV	L5	1997		68.8%		100.0%			100.0%					
Truck SUV	L5	1998		83.1%		100.0%			84.9%	15.1%				
Truck SUV	L5	1999		85.9%		100.0%			79.3%	20.7%				
Truck SUV	L5	2000		83.4%		100.0%			78.5%	14.4%	7.1%		2.2%	
Truck SUV	L5	2001		86.5%		100.0%			68.1%	9.6%	22.3%		22.3%	
Truck SUV	L5	2002		71.7%		100.0%			82.9%	4.8%	12.3%		9.8%	
Truck SUV	L5	2003	0.0%	78.8%		100.0%			52.1%	3.8%	44.1%		26.7%	
Truck SUV	L5	2004	3.6%	78.6%		100.0%			40.0%	1.4%	58.7%		46.6%	
Truck SUV	L5	2005	3.5%	77.7%		99.5%		0.5%	31.1%	1.3%	67.6%		58.8%	
Truck SUV	L5	2006	6.5%	73.1%		99.5%		0.5%	34.1%	0.0%	65.9%		61.8%	
Truck SUV	L5	2007	6.5%	78.6%		99.8%		0.2%	27.8%		72.2%		67.0%	
Truck SUV	L5	2008	8.9%	77.5%		99.8%		0.2%	23.2%	0.0%	76.7%		69.4%	

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	L5	2009	524	0.306	24.0	16.4	22.0	19.2	4458		209	239	9.6	1.158	0.0534	42.9		
Truck SUV	L5	2010	621	0.269	24.2	16.5	22.3	19.4	4503		214	238	9.7	1.134	0.0530	43.9		
Truck SUV	L5	2011	825	0.269	24.7	16.8	22.8	19.8	4573		216	258	9.2	1.206	0.0560	45.3		
Truck SUV	L5	2012	790	0.282	25.9	17.5	23.8	20.6	4402		206	258	8.8	1.257	0.0585	45.6		
Truck SUV	L6	1975																
Truck SUV	L6	1976																
Truck SUV	L6	1977																
Truck SUV	L6	1978																
Truck SUV	L6	1979																
Truck SUV	L6	1980																
Truck SUV	L6	1981																
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Truck SUV	L6	1999																
Truck SUV	L6	2000																
Truck SUV	L6	2001																
Truck SUV	L6	2002																
Truck SUV	L6	2003																
Truck SUV	L6	2004	49	0.012	19.3	13.2	18.4	15.7	5410		232	274	10.1	1.175	0.0510	42.6		
Truck SUV	L6	2005	67	0.020	19.1	12.9	18.1	15.5	5585		264	294	9.6	1.127	0.0530	43.2		
Truck SUV	L6	2006	157	0.052	18.8	12.7	18.0	15.3	5580		271	302	9.4	1.122	0.0545	42.6		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	L5	2009	9.8%	83.9%		100.0%			16.6%	0.1%	83.3%		83.8%	
Truck SUV	L5	2010	12.0%	75.8%		100.0%			20.2%	0.1%	79.7%		81.0%	
Truck SUV	L5	2011	11.1%	77.3%		100.0%			6.6%	0.1%	93.2%		98.8%	
Truck SUV	L5	2012	13.3%	78.3%		100.0%			0.4%		99.6%		99.6%	
Truck SUV	L6	1975												
Truck SUV	L6	1976												
Truck SUV	L6	1977												
Truck SUV	L6	1978												
Truck SUV	L6	1979												
Truck SUV	L6	1980												
Truck SUV	L6	1981												
Truck SUV	L6	1982												
Truck SUV	L6	1983												
Truck SUV	L6	1984												
Truck SUV	L6	1985												
Truck SUV	L6	1986												
Truck SUV	L6	1987												
Truck SUV	L6	1988												
Truck SUV	L6	1989												
Truck SUV	L6	1990												
Truck SUV	L6	1991												
Truck SUV	L6	1992												
Truck SUV	L6	1993												
Truck SUV	L6	1994												
Truck SUV	L6	1995												
Truck SUV	L6	1996												
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Truck SUV	L6	1998												
Truck SUV	L6	1999												
Truck SUV	L6	2000												
Truck SUV	L6	2001												
Truck SUV	L6	2002												
Truck SUV	L6	2003												
Truck SUV	L6	2004		100.0%		98.7%		1.3%	1.3%		62.6%	36.1%	98.7%	
Truck SUV	L6	2005		83.4%		100.0%			1.9%	16.6%	70.7%	10.8%	98.1%	
Truck SUV	L6	2006		85.6%		99.6%		0.4%	3.8%	35.9%	58.0%	2.4%	96.2%	

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	L6	2007	502	0.151	20.9	14.0	20.1	16.9	5139		256	299	8.9	1.206	0.0581	43.5		
Truck SUV	L6	2008	685	0.223	21.4	14.3	20.5	17.3	5166		248	292	9.1	1.201	0.0563	44.7		
Truck SUV	L6	2009	638	0.372	23.1	15.5	22.0	18.7	4916		229	276	9.1	1.232	0.0561	45.8		
Truck SUV	L6	2010	958	0.416	23.7	16.0	22.2	19.0	4926		233	279	9.0	1.221	0.0567	46.8		
Truck SUV	L6	2011	1310	0.427	23.8	16.1	22.2	19.1	5039		240	290	8.9	1.240	0.0576	47.9		
Truck SUV	L6	2012	1208	0.432	23.7	15.9	22.3	19.0	4981		243	294	8.8	1.252	0.0589	47.3		
Truck SUV	L7	1975																
Truck SUV	L7	1976																
Truck SUV	L7	1977																
Truck SUV	L7	1978																
Truck SUV	L7	1979																
Truck SUV	L7	1980																
Truck SUV	L7	1981																
Truck SUV	L7	1982																
Truck SUV	L7	1983																
Truck SUV	L7	1984																
Truck SUV	L7	1985																
Truck SUV	L7	1986																
Truck SUV	L7	1987																
Truck SUV	L7	1988																
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Truck SUV	L7	2000																
Truck SUV	L7	2001																
Truck SUV	L7	2002																
Truck SUV	L7	2003																
Truck SUV	L7	2004																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	L6	2007	11.7%	77.8%		99.9%		0.1%	20.0%	12.1%	67.9%		79.2%	
Truck SUV	L6	2008	20.2%	70.0%	8.8%	91.2%		0.0%	9.8%	7.5%	82.7%		85.6%	
Truck SUV	L6	2009	33.8%	56.5%	20.3%	79.3%		0.4%	15.6%	1.5%	82.9%		67.1%	
Truck SUV	L6	2010	21.5%	70.2%	27.4%	71.7%		1.0%	11.2%	4.7%	84.1%		89.3%	
Truck SUV	L6	2011	21.2%	70.2%	28.2%	71.0%		0.8%	19.7%	4.0%	76.3%		99.2%	
Truck SUV	L6	2012	21.6%	67.5%	28.5%	71.2%		0.4%	21.7%	4.6%	73.7%		99.6%	
Truck SUV	L7	1975												
Truck SUV	L7	1976												
Truck SUV	L7	1977												
Truck SUV	L7	1978												
Truck SUV	L7	1979												
Truck SUV	L7	1980												
Truck SUV	L7	1981												
Truck SUV	L7	1982												
Truck SUV	L7	1983												
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Truck SUV	L7	1988												
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Truck SUV	L7	1993												
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Truck SUV	L7	2001												
Truck SUV	L7	2002												
Truck SUV	L7	2003												
Truck SUV	L7	2004												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	L7	2005																
Truck SUV	L7	2006	50	0.017	21.0	14.4	19.3	16.8	5000		233	275	9.2	1.201	0.0551	42.3		
Truck SUV	L7	2007	63	0.019	20.2	14.0	18.4	16.2	5290		252	303	8.7	1.204	0.0570	43.2		
Truck SUV	L7	2008	68	0.022	20.8	14.3	19.1	16.7	5474		247	297	9.0	1.206	0.0541	46.1		
Truck SUV	L7	2009	50	0.029	21.2	14.6	19.5	17.0	5218		240	298	8.7	1.246	0.0572	44.5		
Truck SUV	L7	2010	78	0.034	21.6	14.8	19.7	17.3	5063		230	281	9.0	1.228	0.0558	43.8		
Truck SUV	L7	2011	98	0.032	21.2	14.5	19.6	17.0	5362		253	307	8.7	1.223	0.0573	45.6		
Truck SUV	L7	2012	66	0.023	22.3	15.2	20.5	17.9	5245		240	302	8.4	1.270	0.0581	47.3		
Truck SUV	L8	1975																
Truck SUV	L8	1976																
Truck SUV	L8	1977																
Truck SUV	L8	1978																
Truck SUV	L8	1979																
Truck SUV	L8	1980																
Truck SUV	L8	1981																
Truck SUV	L8	1982																
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Truck SUV	L8	1997																
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Truck SUV	L8	1999																
Truck SUV	L8	2000																
Truck SUV	L8	2001																
Truck SUV	L8	2002																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	L7	2005												
Truck SUV	L7	2006		100.0%		100.0%				100.0%			78.2%	
Truck SUV	L7	2007		100.0%		91.5%		8.5%		4.0%	96.0%			
Truck SUV	L7	2008		100.0%		83.2%		16.8%		0.9%	99.1%			
Truck SUV	L7	2009		95.6%		88.7%		11.3%		4.1%	95.9%		80.5%	
Truck SUV	L7	2010		91.0%		92.9%		7.1%			100.0%		100.0%	
Truck SUV	L7	2011		64.4%	17.6%	73.3%		9.0%			100.0%		91.0%	
Truck SUV	L7	2012		98.0%	26.6%	57.6%		15.8%			100.0%		84.2%	
Truck SUV	L8	1975												
Truck SUV	L8	1976												
Truck SUV	L8	1977												
Truck SUV	L8	1978												
Truck SUV	L8	1979												
Truck SUV	L8	1980												
Truck SUV	L8	1981												
Truck SUV	L8	1982												
Truck SUV	L8	1983												
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Truck SUV	L8	1996												
Truck SUV	L8	1997												
Truck SUV	L8	1998												
Truck SUV	L8	1999												
Truck SUV	L8	2000												
Truck SUV	L8	2001												
Truck SUV	L8	2002												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	L8	2003																
Truck SUV	L8	2004																
Truck SUV	L8	2005																
Truck SUV	L8	2006																
Truck SUV	L8	2007																
Truck SUV	L8	2008																
Truck SUV	L8	2009																
Truck SUV	L8	2010																
Truck SUV	L8	2011	98	0.032	25.4	17.1	24.0	20.4	4921		190	291	8.6	1.555	0.0591	50.4		
Truck SUV	L8	2012	109	0.039	25.3	16.9	23.8	20.3	4940		190	289	8.7	1.538	0.0583	50.3		
Truck SUV	M3	1975																
Truck SUV	M3	1976																
Truck SUV	M3	1977																
Truck SUV	M3	1978																
Truck SUV	M3	1979	81	0.211	16.7	13.9	14.5	14.2	3255		275	120	12.5	0.437	0.0371	23.0		
Truck SUV	M3	1980	20	0.106	15.6	12.5	14.1	13.2	4781		310	140	15.2	0.451	0.0291	31.7		
Truck SUV	M3	1981	9	0.066	16.5	13.4	14.9	14.0	4693		304	131	15.6	0.430	0.0278	33.1		
Truck SUV	M3	1982	9	0.063	16.3	13.1	14.9	13.9	4657		307	136	15.1	0.442	0.0290	32.4		
Truck SUV	M3	1983	8	0.032	17.5	14.0	16.0	14.8	4705		308	137	15.0	0.447	0.0291	35.2		
Truck SUV	M3	1984	4	0.006	15.6	12.2	15.0	13.3	5066		311	161	14.0	0.518	0.0317	33.8		
Truck SUV	M3	1985	12	0.019	16.9	13.6	15.5	14.4	4794		306	150	14.2	0.489	0.0313	34.8		
Truck SUV	M3	1986	10	0.013	16.7	13.3	15.4	14.2	4884		307	146	14.8	0.474	0.0298	34.8		
Truck SUV	M3	1987	7	0.008	16.4	13.0	14.9	13.8	5047		314	165	13.9	0.522	0.0326	35.1		
Truck SUV	M3	1988	3	0.004	15.6	12.2	14.4	13.1	5098		340	192	12.5	0.563	0.0377	33.6		
Truck SUV	M3	1989	3	0.004	15.8	12.3	14.5	13.3	5111		326	174	13.5	0.531	0.0340	34.1		
Truck SUV	M3	1990	1	0.002	14.9	11.4	14.0	12.5	5204		343	199	12.2	0.578	0.0383	32.6		
Truck SUV	M3	1991	1	0.001	15.0	11.6	13.6	12.5	5000		348	207	11.4	0.593	0.0414	31.3		
Truck SUV	M3	1992	19	0.025	21.2	16.0	19.7	17.6	3500		242	190	9.3	0.785	0.0543	30.8		
Truck SUV	M3	1993																
Truck SUV	M3	1994																
Truck SUV	M3	1995																
Truck SUV	M3	1996																
Truck SUV	M3	1997																
Truck SUV	M3	1998																
Truck SUV	M3	1999																
Truck SUV	M3	2000																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	L8	2003												
Truck SUV	L8	2004												
Truck SUV	L8	2005												
Truck SUV	L8	2006												
Truck SUV	L8	2007												
Truck SUV	L8	2008												
Truck SUV	L8	2009												
Truck SUV	L8	2010												
Truck SUV	L8	2011		100.0%	77.1%	16.1%		6.9%			100.0%		100.0%	1.7%
Truck SUV	L8	2012		100.0%	75.8%	17.4%		6.9%			100.0%		100.0%	2.0%
Truck SUV	M3	1975												
Truck SUV	M3	1976												
Truck SUV	M3	1977												
Truck SUV	M3	1978												
Truck SUV	M3	1979		100.0%										
Truck SUV	M3	1980		84.2%				1.7%						
Truck SUV	M3	1981		96.7%										
Truck SUV	M3	1982		100.0%										
Truck SUV	M3	1983		100.0%										
Truck SUV	M3	1984		100.0%										
Truck SUV	M3	1985		100.0%		14.2%								
Truck SUV	M3	1986		100.0%		33.9%								
Truck SUV	M3	1987		100.0%		51.0%	39.0%							
Truck SUV	M3	1988		100.0%		12.3%	83.8%							
Truck SUV	M3	1989		100.0%		40.7%	59.3%							
Truck SUV	M3	1990		100.0%			100.0%							
Truck SUV	M3	1991		100.0%			100.0%							
Truck SUV	M3	1992		100.0%		100.0%								
Truck SUV	M3	1993												
Truck SUV	M3	1994												
Truck SUV	M3	1995												
Truck SUV	M3	1996												
Truck SUV	M3	1997												
Truck SUV	M3	1998												
Truck SUV	M3	1999												
Truck SUV	M3	2000												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	M3	2001																
Truck SUV	M3	2002																
Truck SUV	M3	2003																
Truck SUV	M3	2004																
Truck SUV	M3	2005																
Truck SUV	M3	2006																
Truck SUV	M3	2007																
Truck SUV	M3	2008																
Truck SUV	M3	2009																
Truck SUV	M3	2010																
Truck SUV	M3	2011																
Truck SUV	M3	2012																
Truck SUV	M4	1975																
Truck SUV	M4	1976																
Truck SUV	M4	1977																
Truck SUV	M4	1978																
Truck SUV	M4	1979	46	0.120	12.3	10.0	11.0	10.4	4966		328	156	14.5	0.478	0.0311	26.1		
Truck SUV	M4	1980	61	0.330	19.1	15.4	17.2	16.2	3184		222	95	14.9	0.462	0.0299	26.1		
Truck SUV	M4	1981	47	0.344	20.1	16.0	18.7	17.1	3293		235	106	14.0	0.467	0.0323	28.3		
Truck SUV	M4	1982	28	0.186	19.3	15.3	18.0	16.5	3648		247	107	15.1	0.469	0.0298	30.3		
Truck SUV	M4	1983	44	0.173	20.5	16.2	19.2	17.4	3397		215	106	14.5	0.531	0.0313	29.8		
Truck SUV	M4	1984	79	0.139	20.4	16.2	19.0	17.4	3613		207	105	15.2	0.551	0.0293	31.7		
Truck SUV	M4	1985	51	0.079	21.7	17.2	20.3	18.5	3540		157	94	16.4	0.629	0.0263	33.1		
Truck SUV	M4	1986	23	0.032	21.1	16.7	19.4	17.9	3655		206	115	14.1	0.596	0.0317	33.2		
Truck SUV	M4	1987	15	0.019	19.0	14.9	17.6	16.1	3985		202	122	14.4	0.634	0.0308	33.5		
Truck SUV	M4	1988	1	0.001	26.6	20.9	24.3	22.4	3500		150	117	13.5	0.780	0.0334	39.2		
Truck SUV	M4	1989																
Truck SUV	M4	1990																
Truck SUV	M4	1991																
Truck SUV	M4	1992	11	0.014	21.6	16.2	20.3	18.0	3500		242	190	9.3	0.785	0.0543	31.5		
Truck SUV	M4	1993																
Truck SUV	M4	1994																
Truck SUV	M4	1995																
Truck SUV	M4	1996																
Truck SUV	M4	1997																
Truck SUV	M4	1998																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	M3	2001												
Truck SUV	M3	2002												
Truck SUV	M3	2003												
Truck SUV	M3	2004												
Truck SUV	M3	2005												
Truck SUV	M3	2006												
Truck SUV	M3	2007												
Truck SUV	M3	2008												
Truck SUV	M3	2009												
Truck SUV	M3	2010												
Truck SUV	M3	2011												
Truck SUV	M3	2012												
Truck SUV	M4	1975												
Truck SUV	M4	1976												
Truck SUV	M4	1977												
Truck SUV	M4	1978												
Truck SUV	M4	1979		60.2%				1.6%						
Truck SUV	M4	1980		100.0%				6.6%						
Truck SUV	M4	1981		100.0%										
Truck SUV	M4	1982		100.0%				8.3%						
Truck SUV	M4	1983		100.0%										
Truck SUV	M4	1984		100.0%										
Truck SUV	M4	1985		100.0%			5.6%							
Truck SUV	M4	1986		100.0%			44.6%							
Truck SUV	M4	1987		100.0%		8.1%	59.3%							
Truck SUV	M4	1988		100.0%			100.0%							
Truck SUV	M4	1989												
Truck SUV	M4	1990												
Truck SUV	M4	1991												
Truck SUV	M4	1992		100.0%		100.0%								
Truck SUV	M4	1993												
Truck SUV	M4	1994												
Truck SUV	M4	1995												
Truck SUV	M4	1996												
Truck SUV	M4	1997												
Truck SUV	M4	1998												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	M4	1999																
Truck SUV	M4	2000																
Truck SUV	M4	2001																
Truck SUV	M4	2002																
Truck SUV	M4	2003																
Truck SUV	M4	2004																
Truck SUV	M4	2005																
Truck SUV	M4	2006																
Truck SUV	M4	2007																
Truck SUV	M4	2008																
Truck SUV	M4	2009																
Truck SUV	M4	2010																
Truck SUV	M4	2011																
Truck SUV	M4	2012																
Truck SUV	M5	1975																
Truck SUV	M5	1976																
Truck SUV	M5	1977																
Truck SUV	M5	1978																
Truck SUV	M5	1979																
Truck SUV	M5	1980																
Truck SUV	M5	1981																
Truck SUV	M5	1982	11	0.070	20.2	15.7	19.6	17.2	3063		244	105	13.3	0.437	0.0344	26.5		
Truck SUV	M5	1983	34	0.133	21.4	16.5	20.9	18.2	3495		206	110	14.1	0.555	0.0320	32.2		
Truck SUV	M5	1984	90	0.157	22.4	17.3	21.9	19.1	3467		181	105	14.5	0.596	0.0306	33.1		
Truck SUV	M5	1985	128	0.198	22.2	17.0	22.0	18.9	3573		169	106	14.8	0.636	0.0298	34.0		
Truck SUV	M5	1986	246	0.344	24.1	18.9	22.6	20.4	3408		150	107	14.4	0.725	0.0312	34.9		
Truck SUV	M5	1987	287	0.369	24.1	18.8	22.5	20.4	3268		157	110	13.7	0.728	0.0334	33.3		
Truck SUV	M5	1988	292	0.340	23.8	18.5	22.1	20.0	3299		157	113	13.6	0.741	0.0337	32.9		
Truck SUV	M5	1989	209	0.256	22.1	17.0	20.6	18.5	3603		178	125	13.3	0.726	0.0347	33.5		
Truck SUV	M5	1990	186	0.289	22.2	17.1	20.4	18.6	3506		171	123	13.2	0.750	0.0350	32.6		
Truck SUV	M5	1991	190	0.218	21.5	16.5	19.7	17.9	3802		188	143	12.6	0.774	0.0374	34.1		
Truck SUV	M5	1992	136	0.179	21.6	16.4	19.8	17.9	3806		179	137	12.9	0.783	0.0361	34.1		
Truck SUV	M5	1993	160	0.191	21.7	16.5	19.8	18.0	3703		191	153	11.7	0.818	0.0416	33.3		
Truck SUV	M5	1994	197	0.152	21.4	16.2	19.2	17.6	3679		183	150	11.9	0.826	0.0407	32.4		
Truck SUV	M5	1995	239	0.150	21.5	16.3	19.1	17.6	3560		173	144	11.8	0.846	0.0407	31.4		
Truck SUV	M5	1996	97	0.061	22.9	17.0	20.6	18.7	3691		182	153	11.6	0.876	0.0413	34.5		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	M4	1999												
Truck SUV	M4	2000												
Truck SUV	M4	2001												
Truck SUV	M4	2002												
Truck SUV	M4	2003												
Truck SUV	M4	2004												
Truck SUV	M4	2005												
Truck SUV	M4	2006												
Truck SUV	M4	2007												
Truck SUV	M4	2008												
Truck SUV	M4	2009												
Truck SUV	M4	2010												
Truck SUV	M4	2011												
Truck SUV	M4	2012												
Truck SUV	M5	1975												
Truck SUV	M5	1976												
Truck SUV	M5	1977												
Truck SUV	M5	1978												
Truck SUV	M5	1979												
Truck SUV	M5	1980												
Truck SUV	M5	1981												
Truck SUV	M5	1982		100.0%										
Truck SUV	M5	1983		100.0%										
Truck SUV	M5	1984		100.0%										
Truck SUV	M5	1985		100.0%		12.6%	1.3%	0.7%						
Truck SUV	M5	1986		100.0%		28.0%	13.8%	2.1%						
Truck SUV	M5	1987		100.0%		32.6%	18.9%	0.1%						
Truck SUV	M5	1988		100.0%		47.9%	12.1%							
Truck SUV	M5	1989		99.1%		48.1%	35.7%							
Truck SUV	M5	1990		99.6%		53.3%	36.3%							
Truck SUV	M5	1991		99.1%		75.0%	25.0%							
Truck SUV	M5	1992		98.0%		70.4%	29.6%							
Truck SUV	M5	1993		98.3%		90.5%	9.5%							
Truck SUV	M5	1994		100.0%		84.4%	15.6%		76.0%	8.9%	15.1%			
Truck SUV	M5	1995		91.9%		95.8%	4.2%		77.2%		22.8%			
Truck SUV	M5	1996		85.8%		100.0%			47.1%		52.9%			

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	M5	1997	202	0.097	21.9	16.3	19.5	17.8	3654		188	156	11.4	0.840	0.0425	32.6		
Truck SUV	M5	1998	160	0.075	22.5	16.7	19.9	18.3	3605		180	157	11.3	0.897	0.0435	33.2		
Truck SUV	M5	1999	138	0.059	22.7	16.6	20.1	18.3	3698		179	157	11.3	0.916	0.0424	34.1		
Truck SUV	M5	2000	124	0.049	22.3	16.3	19.6	17.9	3796		184	159	11.5	0.897	0.0417	34.2		
Truck SUV	M5	2001	102	0.038	22.9	16.6	20.2	18.4	3806		179	165	11.2	0.959	0.0431	35.2		
Truck SUV	M5	2002	115	0.032	21.8	15.6	19.5	17.5	4006		192	173	11.1	0.933	0.0432	35.2		
Truck SUV	M5	2003	80	0.022	22.5	16.0	19.9	18.0	3797		190	174	10.6	0.956	0.0459	34.6		
Truck SUV	M5	2004	85	0.021	22.1	15.6	19.6	17.6	3856		198	179	10.5	0.938	0.0465	34.3		
Truck SUV	M5	2005	30	0.009	26.0	18.0	23.1	20.6	3728		157	169	10.8	1.087	0.0455	38.5		
Truck SUV	M5	2006	26	0.009	25.1	17.3	22.4	19.9	3906		164	175	10.8	1.084	0.0451	38.9		
Truck SUV	M5	2007	22	0.007	27.5	19.0	24.3	21.7	3749		151	177	10.2	1.175	0.0476	40.8		
Truck SUV	M5	2008	15	0.005	28.8	19.8	25.3	22.6	3670		150	171	10.4	1.148	0.0468	41.8		
Truck SUV	M5	2009	14	0.008	29.3	20.0	26.0	23.0	3558		148	177	10.0	1.198	0.0499	41.0		
Truck SUV	M5	2010	14	0.006	29.9	20.4	26.6	23.5	3511		149	170	10.1	1.138	0.0483	41.4		
Truck SUV	M5	2011	10	0.003	31.3	21.6	27.1	24.4	3500		146	169	10.1	1.159	0.0482	42.7		
Truck SUV	M5	2012	15	0.006	31.6	21.7	27.6	24.7	3500		145	168	10.2	1.169	0.0480	43.3		
Truck SUV	M6	1975																
Truck SUV	M6	1976																
Truck SUV	M6	1977																
Truck SUV	M6	1978																
Truck SUV	M6	1979																
Truck SUV	M6	1980																
Truck SUV	M6	1981																
Truck SUV	M6	1982																
Truck SUV	M6	1983																
Truck SUV	M6	1984																
Truck SUV	M6	1985																
Truck SUV	M6	1986																
Truck SUV	M6	1987																
Truck SUV	M6	1988																
Truck SUV	M6	1989																
Truck SUV	M6	1990																
Truck SUV	M6	1991																
Truck SUV	M6	1992																
Truck SUV	M6	1993																
Truck SUV	M6	1994																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	M5	1997		93.1%		100.0%			60.7%		39.3%			
Truck SUV	M5	1998		97.9%		100.0%			54.3%		45.7%			
Truck SUV	M5	1999		98.0%		100.0%			56.2%		43.8%			
Truck SUV	M5	2000		98.6%		100.0%			62.9%		37.1%			
Truck SUV	M5	2001		98.1%		100.0%			50.4%		49.6%		11.7%	
Truck SUV	M5	2002		95.8%		100.0%			44.5%		55.5%		14.3%	
Truck SUV	M5	2003	5.0%	94.6%		100.0%			52.5%		47.5%		25.4%	
Truck SUV	M5	2004	2.2%	94.6%		100.0%			53.0%		47.0%		21.6%	
Truck SUV	M5	2005	5.9%	83.4%		100.0%			0.2%		99.8%		45.4%	
Truck SUV	M5	2006	6.3%	84.8%		100.0%					100.0%		51.6%	
Truck SUV	M5	2007	23.7%	73.8%		100.0%			7.8%		92.2%		64.4%	
Truck SUV	M5	2008	32.6%	65.9%		100.0%			5.3%		94.7%		72.4%	
Truck SUV	M5	2009	16.3%	82.0%	0.6%	99.4%					100.0%		31.7%	
Truck SUV	M5	2010	16.5%	82.4%		100.0%					100.0%		100.0%	
Truck SUV	M5	2011	25.2%	72.9%		100.0%					100.0%		100.0%	
Truck SUV	M5	2012	35.2%	63.9%		100.0%					100.0%		100.0%	
Truck SUV	M6	1975												
Truck SUV	M6	1976												
Truck SUV	M6	1977												
Truck SUV	M6	1978												
Truck SUV	M6	1979												
Truck SUV	M6	1980												
Truck SUV	M6	1981												
Truck SUV	M6	1982												
Truck SUV	M6	1983												
Truck SUV	M6	1984												
Truck SUV	M6	1985												
Truck SUV	M6	1986												
Truck SUV	M6	1987												
Truck SUV	M6	1988												
Truck SUV	M6	1989												
Truck SUV	M6	1990												
Truck SUV	M6	1991												
Truck SUV	M6	1992												
Truck SUV	M6	1993												
Truck SUV	M6	1994												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	M6	1995																
Truck SUV	M6	1996																
Truck SUV	M6	1997																
Truck SUV	M6	1998																
Truck SUV	M6	1999																
Truck SUV	M6	2000																
Truck SUV	M6	2001																
Truck SUV	M6	2002																
Truck SUV	M6	2003																
Truck SUV	M6	2004	6	0.001	22.3	14.8	22.0	18.2	4253		177	219	9.7	1.232	0.0518	38.5		
Truck SUV	M6	2005	44	0.013	19.9	13.9	17.8	15.9	3752		229	192	9.7	0.849	0.0513	30.1		
Truck SUV	M6	2006	45	0.015	19.3	13.6	17.2	15.4	3986		229	193	10.2	0.852	0.0481	30.9		
Truck SUV	M6	2007	47	0.014	20.5	14.5	18.0	16.3	4294		234	209	10.1	0.894	0.0487	35.0		
Truck SUV	M6	2008	38	0.012	21.4	15.0	18.8	17.0	4261		231	201	10.4	0.870	0.0472	36.2		
Truck SUV	M6	2009	6	0.004	21.5	15.1	19.0	17.1	4492		225	203	10.8	0.924	0.0451	38.5		
Truck SUV	M6	2010	28	0.012	22.1	15.1	20.4	17.7	4104		220	200	10.1	0.927	0.0489	36.6		
Truck SUV	M6	2011	26	0.009	22.5	15.4	20.9	18.1	4097		218	200	10.1	0.931	0.0488	37.2		
Truck SUV	M6	2012	39	0.014	24.5	16.8	22.1	19.5	4035		203	255	8.4	1.254	0.0629	39.3		
Truck SUV	OT	1975																
Truck SUV	OT	1976																
Truck SUV	OT	1977																
Truck SUV	OT	1978																
Truck SUV	OT	1979																
Truck SUV	OT	1980																
Truck SUV	OT	1981																
Truck SUV	OT	1982																
Truck SUV	OT	1983	1	0.004	13.7	10.6	13.3	11.6	5000		318	160	14.3	0.503	0.0320	29.1		
Truck SUV	OT	1984																
Truck SUV	OT	1985																
Truck SUV	OT	1986																
Truck SUV	OT	1987																
Truck SUV	OT	1988																
Truck SUV	OT	1989																
Truck SUV	OT	1990																
Truck SUV	OT	1991																
Truck SUV	OT	1992																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	M6	1995												
Truck SUV	M6	1996												
Truck SUV	M6	1997												
Truck SUV	M6	1998												
Truck SUV	M6	1999												
Truck SUV	M6	2000												
Truck SUV	M6	2001												
Truck SUV	M6	2002												
Truck SUV	M6	2003												
Truck SUV	M6	2004		100.0%		100.0%					100.0%		100.0%	
Truck SUV	M6	2005		100.0%		100.0%			80.8%		19.2%		9.1%	
Truck SUV	M6	2006		100.0%		100.0%			78.2%		21.8%		9.7%	
Truck SUV	M6	2007		98.2%		100.0%			66.9%		33.1%		33.1%	
Truck SUV	M6	2008		95.5%	0.7%	99.3%			87.2%		12.8%		12.8%	
Truck SUV	M6	2009	6.9%	93.1%	10.6%	89.4%			80.5%		19.5%		19.5%	
Truck SUV	M6	2010	1.4%	98.6%	1.4%	98.6%			76.3%		23.7%		23.7%	
Truck SUV	M6	2011	1.1%	98.9%	1.5%	98.5%			74.1%		25.9%		25.9%	
Truck SUV	M6	2012	0.7%	99.3%	0.8%	99.2%					100.0%		100.0%	
Truck SUV	OT	1975												
Truck SUV	OT	1976												
Truck SUV	OT	1977												
Truck SUV	OT	1978												
Truck SUV	OT	1979												
Truck SUV	OT	1980												
Truck SUV	OT	1981												
Truck SUV	OT	1982												
Truck SUV	OT	1983		100.0%										
Truck SUV	OT	1984												
Truck SUV	OT	1985												
Truck SUV	OT	1986												
Truck SUV	OT	1987												
Truck SUV	OT	1988												
Truck SUV	OT	1989												
Truck SUV	OT	1990												
Truck SUV	OT	1991												
Truck SUV	OT	1992												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	OT	1993																
Truck SUV	OT	1994																
Truck SUV	OT	1995																
Truck SUV	OT	1996																
Truck SUV	OT	1997																
Truck SUV	OT	1998																
Truck SUV	OT	1999																
Truck SUV	OT	2000																
Truck SUV	OT	2001																
Truck SUV	OT	2002																
Truck SUV	OT	2003																
Truck SUV	OT	2004																
Truck SUV	OT	2005																
Truck SUV	OT	2006																
Truck SUV	OT	2007																
Truck SUV	OT	2008																
Truck SUV	OT	2009																
Truck SUV	OT	2010																
Truck SUV	OT	2011																
Truck SUV	OT	2012																
Pickup	A3	1975																
Pickup	A3	1976																
Pickup	A3	1977																
Pickup	A3	1978																
Pickup	A3	1979	1297	0.588	14.0	11.6	12.3	11.9	4448		331	149	14.2	0.456	0.0336	27.1		
Pickup	A3	1980	277	0.193	17.3	14.0	15.5	14.7	3944		278	129	14.1	0.492	0.0327	29.1		
Pickup	A3	1981	207	0.144	17.6	14.2	16.0	15.0	3968		288	125	14.5	0.455	0.0315	29.9		
Pickup	A3	1982	196	0.136	17.1	13.9	15.3	14.5	3987		292	129	14.1	0.459	0.0325	29.3		
Pickup	A3	1983	240	0.147	17.9	14.4	16.3	15.2	3705		248	116	14.6	0.502	0.0313	28.7		
Pickup	A3	1984	297	0.146	17.1	13.8	15.6	14.6	3855		269	130	14.1	0.501	0.0334	28.4		
Pickup	A3	1985	268	0.129	16.5	13.4	14.9	14.0	4106		306	154	12.8	0.507	0.0372	29.1		
Pickup	A3	1986	237	0.093	17.7	14.3	15.9	14.9	4023		288	145	13.3	0.516	0.0358	30.4		
Pickup	A3	1987	200	0.093	16.7	13.4	15.1	14.1	4318		303	157	13.0	0.522	0.0363	30.7		
Pickup	A3	1988	199	0.081	16.8	13.3	15.2	14.1	4441		309	168	12.5	0.546	0.0380	31.6		
Pickup	A3	1989	101	0.045	16.0	12.7	14.4	13.4	4501		319	170	12.6	0.533	0.0378	30.5		
Pickup	A3	1990	47	0.026	16.4	13.0	14.6	13.7	4323		328	183	11.6	0.566	0.0422	30.9		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	OT	1993												
Truck SUV	OT	1994												
Truck SUV	OT	1995												
Truck SUV	OT	1996												
Truck SUV	OT	1997												
Truck SUV	OT	1998												
Truck SUV	OT	1999												
Truck SUV	OT	2000												
Truck SUV	OT	2001												
Truck SUV	OT	2002												
Truck SUV	OT	2003												
Truck SUV	OT	2004												
Truck SUV	OT	2005												
Truck SUV	OT	2006												
Truck SUV	OT	2007												
Truck SUV	OT	2008												
Truck SUV	OT	2009												
Truck SUV	OT	2010												
Truck SUV	OT	2011												
Truck SUV	OT	2012												
Pickup	A3	1975												
Pickup	A3	1976												
Pickup	A3	1977												
Pickup	A3	1978												
Pickup	A3	1979		7.5%				4.2%						
Pickup	A3	1980	0.6%	15.9%			0.6%							
Pickup	A3	1981		10.5%										
Pickup	A3	1982	3.7%	14.1%										
Pickup	A3	1983	5.7%	18.6%			0.1%	0.1%						
Pickup	A3	1984	1.2%	30.9%				0.5%						
Pickup	A3	1985		22.4%		2.3%		0.2%						
Pickup	A3	1986		19.7%		8.9%		0.1%						
Pickup	A3	1987		25.5%		44.4%	21.6%							
Pickup	A3	1988		31.0%		44.5%	53.5%							
Pickup	A3	1989		37.7%		56.4%	43.6%							
Pickup	A3	1990		12.2%		2.5%	97.5%							

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	A3	1991																
Pickup	A3	1992																
Pickup	A3	1993																
Pickup	A3	1994																
Pickup	A3	1995																
Pickup	A3	1996																
Pickup	A3	1997																
Pickup	A3	1998																
Pickup	A3	1999																
Pickup	A3	2000																
Pickup	A3	2001																
Pickup	A3	2002																
Pickup	A3	2003																
Pickup	A3	2004																
Pickup	A3	2005																
Pickup	A3	2006																
Pickup	A3	2007																
Pickup	A3	2008																
Pickup	A3	2009																
Pickup	A3	2010																
Pickup	A3	2011																
Pickup	A3	2012																
Pickup	A4	1975																
Pickup	A4	1976																
Pickup	A4	1977																
Pickup	A4	1978																
Pickup	A4	1979																
Pickup	A4	1980																
Pickup	A4	1981	6	0.004	26.5	21.5	23.9	22.5	2750		144	98	13.1	0.681	0.0356	30.9		
Pickup	A4	1982	42	0.029	19.6	15.2	19.2	16.7	3715		262	131	13.2	0.525	0.0353	31.0		
Pickup	A4	1983	9	0.006	26.6	22.0	23.1	22.5	2788		144	99	13.1	0.685	0.0354	31.4		
Pickup	A4	1984	27	0.013	24.6	20.6	21.0	20.8	2809		144	100	13.1	0.694	0.0356	29.3		
Pickup	A4	1985	38	0.018	25.1	21.0	21.6	21.3	3019		144	107	13.2	0.741	0.0354	32.3		
Pickup	A4	1986	47	0.019	23.4	19.6	19.8	19.7	3134		144	107	13.4	0.745	0.0346	31.2		
Pickup	A4	1987	72	0.034	26.1	21.1	23.0	22.0	3040		142	103	13.7	0.725	0.0340	33.7		
Pickup	A4	1988	53	0.022	24.7	20.1	21.3	20.6	3112		142	109	13.4	0.765	0.0351	32.5		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	A3	1991												
Pickup	A3	1992												
Pickup	A3	1993												
Pickup	A3	1994												
Pickup	A3	1995												
Pickup	A3	1996												
Pickup	A3	1997												
Pickup	A3	1998												
Pickup	A3	1999												
Pickup	A3	2000												
Pickup	A3	2001												
Pickup	A3	2002												
Pickup	A3	2003												
Pickup	A3	2004												
Pickup	A3	2005												
Pickup	A3	2006												
Pickup	A3	2007												
Pickup	A3	2008												
Pickup	A3	2009												
Pickup	A3	2010												
Pickup	A3	2011												
Pickup	A3	2012												
Pickup	A4	1975												
Pickup	A4	1976												
Pickup	A4	1977												
Pickup	A4	1978												
Pickup	A4	1979												
Pickup	A4	1980												
Pickup	A4	1981												
Pickup	A4	1982												
Pickup	A4	1983												
Pickup	A4	1984				17.1%								
Pickup	A4	1985				28.4%								
Pickup	A4	1986				33.5%								
Pickup	A4	1987		5.3%		9.7%								
Pickup	A4	1988		7.2%		54.3%								

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	A4	1989	35	0.016	27.1	21.5	23.9	22.6	3024		141	109	13.0	0.773	0.0361	34.3		
Pickup	A4	1990	32	0.018	17.8	13.8	16.2	14.9	4047		259	153	12.5	0.635	0.0379	30.9		
Pickup	A4	1991	27	0.014	20.0	15.7	17.8	16.6	3683		213	135	12.7	0.684	0.0369	31.2		
Pickup	A4	1992	16	0.009	24.8	19.5	21.5	20.4	3105		156	118	12.5	0.767	0.0377	32.0		
Pickup	A4	1993	16	0.008	26.3	20.2	23.2	21.6	3000		144	112	12.6	0.778	0.0373	32.4		
Pickup	A4	1994	25	0.010	26.3	20.0	23.1	21.5	3000		144	112	12.6	0.778	0.0373	32.3		
Pickup	A4	1995	20	0.009	26.3	20.0	22.9	21.4	3000		147	132	11.1	0.897	0.0442	32.1		
Pickup	A4	1996	27	0.014	25.9	19.5	22.7	21.0	3000		149	142	10.4	0.953	0.0473	31.5		
Pickup	A4	1997																
Pickup	A4	1998	37	0.015	26.5	19.7	22.9	21.3	3000		149	142	10.4	0.953	0.0473	32.0		
Pickup	A4	1999	24	0.009	26.5	19.6	22.8	21.2	3000		149	142	10.4	0.953	0.0473	31.8		
Pickup	A4	2000	21	0.008	26.2	19.4	22.4	20.9	3000		149	142	10.4	0.953	0.0473	31.3		
Pickup	A4	2001	21	0.008	26.0	19.2	22.0	20.6	3214		149	142	11.0	0.953	0.0444	33.1		
Pickup	A4	2002	21	0.009	27.0	19.5	23.1	21.3	3238		149	142	11.1	0.953	0.0441	34.5		
Pickup	A4	2003	22	0.009	27.0	19.3	23.0	21.2	3234		149	142	11.0	0.953	0.0442	34.3		
Pickup	A4	2004	24	0.009	27.0	19.2	22.9	21.1	3216		149	142	11.0	0.953	0.0444	34.0		
Pickup	A4	2005																
Pickup	A4	2006																
Pickup	A4	2007																
Pickup	A4	2008																
Pickup	A4	2009																
Pickup	A4	2010																
Pickup	A4	2011																
Pickup	A4	2012																
Pickup	CVT	1975																
Pickup	CVT	1976																
Pickup	CVT	1977																
Pickup	CVT	1978																
Pickup	CVT	1979																
Pickup	CVT	1980																
Pickup	CVT	1981																
Pickup	CVT	1982																
Pickup	CVT	1983																
Pickup	CVT	1984																
Pickup	CVT	1985																
Pickup	CVT	1986																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	A4	1989		4.9%		61.9%								
Pickup	A4	1990		37.1%		37.7%	62.3%							
Pickup	A4	1991		28.4%		61.7%	38.3%							
Pickup	A4	1992		3.9%		96.0%	4.0%							
Pickup	A4	1993				100.0%								
Pickup	A4	1994				100.0%			100.0%					
Pickup	A4	1995				100.0%			31.8%		68.2%			
Pickup	A4	1996				100.0%					100.0%			
Pickup	A4	1997												
Pickup	A4	1998				100.0%					100.0%			
Pickup	A4	1999				100.0%					100.0%			
Pickup	A4	2000				100.0%					100.0%			
Pickup	A4	2001				100.0%					100.0%			
Pickup	A4	2002				100.0%					100.0%			
Pickup	A4	2003				100.0%					100.0%			
Pickup	A4	2004				100.0%					100.0%			
Pickup	A4	2005												
Pickup	A4	2006												
Pickup	A4	2007												
Pickup	A4	2008												
Pickup	A4	2009												
Pickup	A4	2010												
Pickup	A4	2011												
Pickup	A4	2012												
Pickup	CVT	1975												
Pickup	CVT	1976												
Pickup	CVT	1977												
Pickup	CVT	1978												
Pickup	CVT	1979												
Pickup	CVT	1980												
Pickup	CVT	1981												
Pickup	CVT	1982												
Pickup	CVT	1983												
Pickup	CVT	1984												
Pickup	CVT	1985												
Pickup	CVT	1986												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	CVT	1987																
Pickup	CVT	1988																
Pickup	CVT	1989																
Pickup	CVT	1990																
Pickup	CVT	1991																
Pickup	CVT	1992																
Pickup	CVT	1993																
Pickup	CVT	1994																
Pickup	CVT	1995																
Pickup	CVT	1996																
Pickup	CVT	1997																
Pickup	CVT	1998																
Pickup	CVT	1999																
Pickup	CVT	2000																
Pickup	CVT	2001																
Pickup	CVT	2002																
Pickup	CVT	2003																
Pickup	CVT	2004																
Pickup	CVT	2005																
Pickup	CVT	2006																
Pickup	CVT	2007																
Pickup	CVT	2008																
Pickup	CVT	2009	2	0.002	28.3	21.1	21.8	21.5	6000		364	332	8.2	0.912	0.0553	64.6		
Pickup	CVT	2010	1	0.001	27.1	20.3	21.0	20.7	6000		366	332	6.5	0.907	0.0553	62.1		
Pickup	CVT	2011	1	0.001	28.1	19.7	22.8	21.4	6000		366	332	8.5	0.907	0.0553	64.1		
Pickup	CVT	2012	3	0.002	28.4	19.7	22.8	21.3	6000		366	332	9.2	0.907	0.0553	64.0		
Pickup	L3	1975																
Pickup	L3	1976																
Pickup	L3	1977																
Pickup	L3	1978																
Pickup	L3	1979	29	0.013	16.2	13.1	14.6	13.7	4000		291	132	14.2	0.454	0.0330	27.5		
Pickup	L3	1980	315	0.219	17.0	13.6	15.7	14.5	4469		313	142	14.4	0.458	0.0320	33.0		
Pickup	L3	1981	343	0.238	18.3	14.6	17.0	15.6	4221		290	139	14.0	0.483	0.0331	33.1		
Pickup	L3	1982	275	0.191	20.1	15.9	18.9	17.1	3768		245	130	13.6	0.546	0.0346	32.2		
Pickup	L3	1983	119	0.073	19.0	15.0	17.8	16.1	4100		277	139	13.9	0.503	0.0338	33.1		
Pickup	L3	1984	193	0.095	18.5	14.7	17.2	15.7	4164		276	137	14.1	0.502	0.0328	32.8		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	CVT	1987												
Pickup	CVT	1988												
Pickup	CVT	1989												
Pickup	CVT	1990												
Pickup	CVT	1991												
Pickup	CVT	1992												
Pickup	CVT	1993												
Pickup	CVT	1994												
Pickup	CVT	1995												
Pickup	CVT	1996												
Pickup	CVT	1997												
Pickup	CVT	1998												
Pickup	CVT	1999												
Pickup	CVT	2000												
Pickup	CVT	2001												
Pickup	CVT	2002												
Pickup	CVT	2003												
Pickup	CVT	2004												
Pickup	CVT	2005												
Pickup	CVT	2006												
Pickup	CVT	2007												
Pickup	CVT	2008												
Pickup	CVT	2009		56.2%		100.0%			100.0%				100.0%	100.0%
Pickup	CVT	2010		37.4%		100.0%			100.0%				100.0%	100.0%
Pickup	CVT	2011		61.5%		100.0%			100.0%				100.0%	100.0%
Pickup	CVT	2012		78.0%		100.0%			100.0%				100.0%	100.0%
Pickup	L3	1975												
Pickup	L3	1976												
Pickup	L3	1977												
Pickup	L3	1978												
Pickup	L3	1979												
Pickup	L3	1980		17.8%				15.2%						
Pickup	L3	1981		10.4%				6.2%						
Pickup	L3	1982		5.9%										
Pickup	L3	1983		3.0%			0.2%	0.6%						
Pickup	L3	1984		1.1%		0.1%		0.1%						

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	L3	1985	234	0.113	17.8	14.2	16.3	15.1	4204		279	147	13.4	0.536	0.0350	31.8		
Pickup	L3	1986	206	0.081	18.0	14.4	16.4	15.3	4155		279	146	13.3	0.535	0.0350	31.7		
Pickup	L3	1987	134	0.063	20.0	15.7	18.5	16.9	3751		251	125	14.0	0.502	0.0334	31.8		
Pickup	L3	1988	99	0.040	19.5	15.2	18.1	16.4	3826		247	123	14.3	0.512	0.0322	31.4		
Pickup	L3	1989	40	0.018	19.4	15.3	17.5	16.3	3835		230	118	15.0	0.533	0.0304	31.3		
Pickup	L3	1990	24	0.013	18.7	14.8	16.6	15.6	3919		242	132	14.1	0.556	0.0334	30.7		
Pickup	L3	1991	13	0.007	17.0	13.1	15.6	14.2	4273		294	157	12.9	0.531	0.0366	30.4		
Pickup	L3	1992	5	0.003	18.1	14.1	16.1	15.0	4043		239	127	14.5	0.531	0.0314	30.3		
Pickup	L3	1993	4	0.002	18.5	14.4	16.4	15.3	4039		239	127	14.5	0.531	0.0315	30.9		
Pickup	L3	1994																
Pickup	L3	1995																
Pickup	L3	1996																
Pickup	L3	1997																
Pickup	L3	1998																
Pickup	L3	1999																
Pickup	L3	2000																
Pickup	L3	2001																
Pickup	L3	2002																
Pickup	L3	2003																
Pickup	L3	2004																
Pickup	L3	2005																
Pickup	L3	2006																
Pickup	L3	2007																
Pickup	L3	2008																
Pickup	L3	2009																
Pickup	L3	2010																
Pickup	L3	2011																
Pickup	L3	2012																
Pickup	L4	1975																
Pickup	L4	1976																
Pickup	L4	1977																
Pickup	L4	1978																
Pickup	L4	1979																
Pickup	L4	1980																
Pickup	L4	1981	53	0.037	18.0	13.8	18.0	15.4	4030		302	142	13.2	0.470	0.0353	31.0		
Pickup	L4	1982	150	0.104	20.2	15.8	19.2	17.2	4713		324	149	14.6	0.465	0.0321	41.0		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	L3	1985		0.1%			2.5%							
Pickup	L3	1986		3.8%			3.3%							
Pickup	L3	1987		21.6%			4.9%							
Pickup	L3	1988		13.1%			100.0%							
Pickup	L3	1989					100.0%							
Pickup	L3	1990					100.0%							
Pickup	L3	1991					100.0%							
Pickup	L3	1992				100.0%								
Pickup	L3	1993				100.0%								
Pickup	L3	1994												
Pickup	L3	1995												
Pickup	L3	1996												
Pickup	L3	1997												
Pickup	L3	1998												
Pickup	L3	1999												
Pickup	L3	2000												
Pickup	L3	2001												
Pickup	L3	2002												
Pickup	L3	2003												
Pickup	L3	2004												
Pickup	L3	2005												
Pickup	L3	2006												
Pickup	L3	2007												
Pickup	L3	2008												
Pickup	L3	2009												
Pickup	L3	2010												
Pickup	L3	2011												
Pickup	L3	2012												
Pickup	L4	1975												
Pickup	L4	1976												
Pickup	L4	1977												
Pickup	L4	1978												
Pickup	L4	1979												
Pickup	L4	1980												
Pickup	L4	1981												
Pickup	L4	1982		19.3%				42.0%						

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	L4	1983	337	0.207	20.2	15.6	19.5	17.2	4134		274	138	13.9	0.524	0.0336	35.8		
Pickup	L4	1984	405	0.198	19.8	15.3	19.4	16.9	4115		269	135	14.0	0.521	0.0328	34.9		
Pickup	L4	1985	465	0.224	20.5	15.7	20.2	17.5	3914		244	131	13.8	0.558	0.0336	34.2		
Pickup	L4	1986	564	0.223	20.2	15.6	19.6	17.2	3966		248	140	13.2	0.593	0.0355	34.1		
Pickup	L4	1987	485	0.226	20.5	15.6	20.1	17.4	3855		240	149	12.5	0.645	0.0384	33.5		
Pickup	L4	1988	855	0.348	19.6	14.8	19.1	16.6	4092		279	164	12.1	0.606	0.0400	33.9		
Pickup	L4	1989	886	0.397	19.4	14.7	18.7	16.4	4108		284	167	12.0	0.599	0.0406	33.6		
Pickup	L4	1990	890	0.485	19.1	14.3	18.5	16.0	4266		290	170	12.2	0.601	0.0400	34.2		
Pickup	L4	1991	877	0.457	19.6	14.6	18.9	16.4	4139		282	167	12.0	0.607	0.0405	34.1		
Pickup	L4	1992	954	0.518	19.1	14.1	18.5	16.0	4307		288	168	12.3	0.594	0.0392	34.4		
Pickup	L4	1993	1103	0.551	19.3	14.2	18.6	16.1	4337		287	176	11.9	0.622	0.0406	35.1		
Pickup	L4	1994	1575	0.590	19.3	14.1	18.5	16.0	4342		290	184	11.5	0.648	0.0424	34.9		
Pickup	L4	1995	1350	0.595	18.7	13.6	17.8	15.5	4458		296	186	11.6	0.642	0.0417	34.6		
Pickup	L4	1996	1251	0.640	19.2	13.9	18.3	15.9	4459		288	199	11.1	0.702	0.0444	35.5		
Pickup	L4	1997	1748	0.726	19.3	13.8	18.4	15.9	4649		291	213	10.8	0.740	0.0457	37.0		
Pickup	L4	1998	1660	0.687	19.4	13.8	18.5	16.0	4534		282	208	10.8	0.749	0.0456	36.2		
Pickup	L4	1999	2008	0.789	19.2	13.7	18.0	15.7	4675		286	218	10.7	0.768	0.0464	36.6		
Pickup	L4	2000	2096	0.803	19.9	14.2	18.5	16.2	4472		270	214	10.6	0.798	0.0473	36.2		
Pickup	L4	2001	1982	0.787	19.0	13.5	17.7	15.5	4741		287	229	10.4	0.803	0.0481	36.7		
Pickup	L4	2002	1902	0.799	18.9	13.4	17.4	15.3	4887		288	240	10.2	0.834	0.0490	37.4		
Pickup	L4	2003	1674	0.677	19.6	13.8	17.9	15.8	4750		277	234	10.3	0.845	0.0488	37.5		
Pickup	L4	2004	1771	0.707	19.5	13.7	17.7	15.7	5083		291	256	10.0	0.880	0.0503	39.8		
Pickup	L4	2005	1398	0.608	19.7	13.6	18.1	15.8	5167		293	264	9.9	0.905	0.0512	40.8		
Pickup	L4	2006	1299	0.594	19.8	13.7	18.1	15.9	5159		291	261	10.0	0.901	0.0506	40.9		
Pickup	L4	2007	1298	0.614	19.9	13.7	18.4	16.0	5286		296	269	9.9	0.909	0.0507	42.4		
Pickup	L4	2008	1056	0.589	20.4	13.9	18.9	16.4	5299		294	268	10.0	0.910	0.0504	43.4		
Pickup	L4	2009	343	0.347	21.2	14.6	19.4	17.0	5119		281	261	9.9	0.929	0.0508	43.4		
Pickup	L4	2010	210	0.165	21.4	14.7	19.7	17.2	4945		259	242	10.2	0.940	0.0489	42.5		
Pickup	L4	2011	206	0.139	21.5	14.7	19.9	17.3	4868		252	239	10.3	0.950	0.0489	42.0		
Pickup	L4	2012	241	0.180	22.1	15.1	20.3	17.7	4675		254	242	9.9	0.956	0.0519	41.3		
Pickup	L5	1975																
Pickup	L5	1976																
Pickup	L5	1977																
Pickup	L5	1978																
Pickup	L5	1979																
Pickup	L5	1980																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	L4	1983		20.1%				8.3%						
Pickup	L4	1984		23.3%				5.0%						
Pickup	L4	1985		29.6%		20.0%	4.9%	2.3%						
Pickup	L4	1986		31.8%		46.6%	22.2%	1.1%						
Pickup	L4	1987	0.1%	28.0%		28.5%	65.7%	0.5%						
Pickup	L4	1988	0.0%	31.9%		26.6%	71.8%	0.5%						
Pickup	L4	1989		30.2%		24.9%	73.3%	0.4%						
Pickup	L4	1990		29.7%		44.8%	53.9%	0.3%						
Pickup	L4	1991		27.6%		38.5%	60.5%	0.3%						
Pickup	L4	1992		28.5%		52.5%	46.9%	0.2%						
Pickup	L4	1993	0.0%	29.8%		51.6%	48.1%							
Pickup	L4	1994		32.5%		56.6%	43.4%		98.8%	1.2%				
Pickup	L4	1995		39.8%		59.5%	40.5%		97.0%		3.0%			
Pickup	L4	1996		34.1%		99.7%		0.3%	94.7%	1.6%	3.7%			
Pickup	L4	1997		39.8%		99.9%		0.1%	97.2%	1.5%	1.3%			
Pickup	L4	1998		38.5%		99.9%		0.1%	95.9%		4.1%			
Pickup	L4	1999		48.6%		100.0%		0.0%	96.0%		4.0%			
Pickup	L4	2000		40.7%		100.0%			89.8%		10.2%			
Pickup	L4	2001		41.3%		100.0%			90.0%		10.0%			
Pickup	L4	2002		44.4%		100.0%			85.5%		14.5%			
Pickup	L4	2003		42.1%		100.0%			86.6%		13.4%			
Pickup	L4	2004		48.7%		100.0%			61.4%	20.2%	18.4%		26.2%	0.0%
Pickup	L4	2005		48.6%		100.0%			63.9%	23.1%	13.1%		35.6%	0.1%
Pickup	L4	2006		45.5%		100.0%			63.1%	25.0%	11.9%		36.5%	0.2%
Pickup	L4	2007		44.2%		100.0%			76.0%	19.1%	4.8%		31.7%	0.0%
Pickup	L4	2008		47.0%		100.0%			76.6%	18.2%	5.2%		28.0%	
Pickup	L4	2009		41.5%		100.0%			84.1%		15.9%		16.0%	
Pickup	L4	2010		30.4%		100.0%			77.3%		22.7%		50.6%	
Pickup	L4	2011		34.8%		100.0%			73.2%		26.8%		70.6%	
Pickup	L4	2012		28.3%		100.0%			66.1%		33.9%		75.9%	
Pickup	L5	1975												
Pickup	L5	1976												
Pickup	L5	1977												
Pickup	L5	1978												
Pickup	L5	1979												
Pickup	L5	1980												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	L5	1981																
Pickup	L5	1982																
Pickup	L5	1983																
Pickup	L5	1984																
Pickup	L5	1985																
Pickup	L5	1986																
Pickup	L5	1987																
Pickup	L5	1988																
Pickup	L5	1989																
Pickup	L5	1990																
Pickup	L5	1991																
Pickup	L5	1992																
Pickup	L5	1993																
Pickup	L5	1994																
Pickup	L5	1995																
Pickup	L5	1996																
Pickup	L5	1997	51	0.021	21.1	15.1	20.0	17.3	3974		244	160	11.8	0.656	0.0403	34.5		
Pickup	L5	1998	58	0.024	21.1	15.2	19.6	17.2	3843		244	160	11.5	0.656	0.0418	33.1		
Pickup	L5	1999	67	0.026	20.5	14.7	18.9	16.7	3949		244	160	11.8	0.656	0.0406	32.9		
Pickup	L5	2000	60	0.023	20.0	14.3	18.4	16.3	3948		244	160	11.8	0.656	0.0406	32.2		
Pickup	L5	2001	213	0.085	21.0	14.9	19.4	17.0	3834		207	173	11.0	0.831	0.0449	32.7		
Pickup	L5	2002	230	0.097	21.1	14.8	19.4	17.0	3882		205	171	11.2	0.835	0.0439	33.1		
Pickup	L5	2003	522	0.211	19.4	13.6	17.8	15.7	4695		262	218	10.8	0.834	0.0462	36.7		
Pickup	L5	2004	537	0.214	18.6	13.0	17.2	15.1	4846		280	253	10.0	0.890	0.0514	36.4		
Pickup	L5	2005	771	0.335	19.3	13.4	17.7	15.5	4810		279	261	9.5	0.934	0.0541	37.3		
Pickup	L5	2006	754	0.345	20.2	14.0	18.4	16.2	4783		268	257	9.5	0.962	0.0536	38.6		
Pickup	L5	2007	575	0.272	20.2	13.9	18.6	16.2	4835		265	254	9.7	0.963	0.0524	39.1		
Pickup	L5	2008	521	0.290	20.8	14.4	19.0	16.7	4845		267	277	9.3	1.029	0.0563	40.8		
Pickup	L5	2009	277	0.280	21.2	14.5	19.5	17.0	4835		268	269	9.3	1.005	0.0550	40.9		
Pickup	L5	2010	340	0.266	21.2	14.6	19.6	17.1	4775		267	275	9.2	1.026	0.0568	40.5		
Pickup	L5	2011	405	0.274	21.3	14.6	19.6	17.1	4729		268	278	9.1	1.027	0.0577	40.3		
Pickup	L5	2012	142	0.106	22.6	15.6	20.4	18.0	4601		246	248	9.4	1.015	0.0540	41.4		
Pickup	L6	1975																
Pickup	L6	1976																
Pickup	L6	1977																
Pickup	L6	1978																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	L5	1981												
Pickup	L5	1982												
Pickup	L5	1983												
Pickup	L5	1984												
Pickup	L5	1985												
Pickup	L5	1986												
Pickup	L5	1987												
Pickup	L5	1988												
Pickup	L5	1989												
Pickup	L5	1990												
Pickup	L5	1991												
Pickup	L5	1992												
Pickup	L5	1993												
Pickup	L5	1994												
Pickup	L5	1995												
Pickup	L5	1996												
Pickup	L5	1997		42.2%		100.0%			100.0%					
Pickup	L5	1998		58.9%		100.0%			100.0%					
Pickup	L5	1999		69.3%		100.0%			100.0%					
Pickup	L5	2000		71.5%		100.0%			100.0%					
Pickup	L5	2001		36.7%		100.0%			95.6%		4.4%			
Pickup	L5	2002		40.0%		100.0%			91.2%		8.8%			
Pickup	L5	2003		38.3%		100.0%			96.1%		3.9%			
Pickup	L5	2004		44.6%		100.0%			97.1%		2.9%			
Pickup	L5	2005		45.7%		100.0%			54.5%		45.5%		43.3%	
Pickup	L5	2006		48.9%		100.0%			33.1%		66.9%		65.0%	
Pickup	L5	2007		47.8%		100.0%			42.9%		57.1%		41.3%	
Pickup	L5	2008		46.0%		100.0%			41.3%		58.7%		38.8%	
Pickup	L5	2009		51.6%		100.0%			45.5%		54.5%		53.4%	
Pickup	L5	2010		52.4%		100.0%			44.1%		55.9%		69.6%	
Pickup	L5	2011		56.7%		100.0%			48.6%		51.4%		67.3%	
Pickup	L5	2012		54.6%		100.0%					100.0%		100.0%	
Pickup	L6	1975												
Pickup	L6	1976												
Pickup	L6	1977												
Pickup	L6	1978												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	L6	1979																
Pickup	L6	1980																
Pickup	L6	1981																
Pickup	L6	1982																
Pickup	L6	1983																
Pickup	L6	1984																
Pickup	L6	1985																
Pickup	L6	1986																
Pickup	L6	1987																
Pickup	L6	1988																
Pickup	L6	1989																
Pickup	L6	1990																
Pickup	L6	1991																
Pickup	L6	1992																
Pickup	L6	1993																
Pickup	L6	1994																
Pickup	L6	1995																
Pickup	L6	1996																
Pickup	L6	1997																
Pickup	L6	1998																
Pickup	L6	1999																
Pickup	L6	2000																
Pickup	L6	2001																
Pickup	L6	2002																
Pickup	L6	2003																
Pickup	L6	2004																
Pickup	L6	2005																
Pickup	L6	2006																
Pickup	L6	2007	147	0.069	19.2	13.2	17.9	15.5	5752		339	372	8.1	1.094	0.0646	44.6		
Pickup	L6	2008	145	0.081	18.9	13.0	17.6	15.2	5848		346	379	8.1	1.096	0.0648	44.6		
Pickup	L6	2009	327	0.330	20.2	13.7	19.1	16.4	5676		322	316	9.1	0.984	0.0558	46.4		
Pickup	L6	2010	694	0.544	20.5	14.0	19.2	16.5	5738		320	315	9.3	0.983	0.0549	47.5		
Pickup	L6	2011	836	0.566	21.2	14.4	19.9	17.1	5674		300	337	8.7	1.153	0.0593	48.7		
Pickup	L6	2012	914	0.684	21.1	14.3	19.8	17.0	5625		303	345	8.5	1.168	0.0614	47.9		
Pickup	M3	1975																
Pickup	M3	1976																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	L6	1979												
Pickup	L6	1980												
Pickup	L6	1981												
Pickup	L6	1982												
Pickup	L6	1983												
Pickup	L6	1984												
Pickup	L6	1985												
Pickup	L6	1986												
Pickup	L6	1987												
Pickup	L6	1988												
Pickup	L6	1989												
Pickup	L6	1990												
Pickup	L6	1991												
Pickup	L6	1992												
Pickup	L6	1993												
Pickup	L6	1994												
Pickup	L6	1995												
Pickup	L6	1996												
Pickup	L6	1997												
Pickup	L6	1998												
Pickup	L6	1999												
Pickup	L6	2000												
Pickup	L6	2001												
Pickup	L6	2002												
Pickup	L6	2003												
Pickup	L6	2004												
Pickup	L6	2005												
Pickup	L6	2006												
Pickup	L6	2007		56.4%		100.0%			2.1%	11.0%	86.9%		86.9%	
Pickup	L6	2008		63.4%		100.0%			5.8%	3.6%	90.6%		96.4%	
Pickup	L6	2009		59.8%		100.0%			46.3%	49.7%	4.0%		38.7%	
Pickup	L6	2010		67.5%		100.0%			28.3%	54.8%	16.9%		61.4%	
Pickup	L6	2011		68.5%	13.5%	86.5%			46.0%		54.0%		100.0%	
Pickup	L6	2012		60.1%	14.1%	85.9%			47.6%		52.4%		94.6%	
Pickup	M3	1975												
Pickup	M3	1976												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	M3	1977																
Pickup	M3	1978																
Pickup	M3	1979	230	0.104	17.7	14.4	16.0	15.1	4181		272	127	14.6	0.469	0.0304	31.7		
Pickup	M3	1980	267	0.186	17.5	13.9	16.1	14.8	4282		293	135	14.2	0.464	0.0315	32.1		
Pickup	M3	1981	221	0.154	19.2	15.3	17.7	16.3	4126		285	127	14.4	0.449	0.0308	33.9		
Pickup	M3	1982	151	0.105	18.7	15.0	17.2	15.9	4146		289	128	14.4	0.445	0.0310	33.3		
Pickup	M3	1983	125	0.077	18.9	15.1	17.3	16.0	4269		296	129	14.6	0.438	0.0304	34.5		
Pickup	M3	1984	87	0.042	19.6	15.6	18.3	16.7	4259		289	129	14.7	0.445	0.0302	35.7		
Pickup	M3	1985	165	0.079	18.2	14.7	16.6	15.5	4352		302	141	13.8	0.469	0.0325	34.1		
Pickup	M3	1986	170	0.067	18.5	14.8	16.7	15.6	4329		299	137	14.2	0.459	0.0316	34.0		
Pickup	M3	1987	120	0.056	17.7	14.2	15.9	14.9	4454		303	155	13.1	0.512	0.0350	33.4		
Pickup	M3	1988	67	0.027	17.9	14.2	16.1	15.1	4462		311	164	12.6	0.527	0.0368	33.7		
Pickup	M3	1989	72	0.032	17.7	14.0	15.8	14.8	4559		307	157	13.3	0.511	0.0345	34.1		
Pickup	M3	1990	27	0.015	16.6	12.9	15.2	13.9	4671		316	169	12.8	0.534	0.0362	33.0		
Pickup	M3	1991	14	0.007	16.8	13.1	15.2	14.0	4644		314	171	12.6	0.545	0.0369	33.1		
Pickup	M3	1992	5	0.003	18.1	14.3	15.7	15.0	4556		301	150	13.6	0.499	0.0330	34.2		
Pickup	M3	1993	3	0.002	18.7	14.7	16.2	15.4	4555		300	159	13.1	0.528	0.0349	35.2		
Pickup	M3	1994																
Pickup	M3	1995																
Pickup	M3	1996																
Pickup	M3	1997																
Pickup	M3	1998																
Pickup	M3	1999																
Pickup	M3	2000																
Pickup	M3	2001																
Pickup	M3	2002																
Pickup	M3	2003																
Pickup	M3	2004																
Pickup	M3	2005																
Pickup	M3	2006																
Pickup	M3	2007																
Pickup	M3	2008																
Pickup	M3	2009																
Pickup	M3	2010																
Pickup	M3	2011																
Pickup	M3	2012																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	M3	1977												
Pickup	M3	1978												
Pickup	M3	1979		9.7%										
Pickup	M3	1980		32.2%				0.0%						
Pickup	M3	1981		24.9%										
Pickup	M3	1982		32.5%										
Pickup	M3	1983		41.8%										
Pickup	M3	1984		23.3%				1.3%						
Pickup	M3	1985		54.3%		5.2%		0.6%						
Pickup	M3	1986		51.0%		17.9%		0.4%						
Pickup	M3	1987		54.8%		71.4%	22.2%	0.2%						
Pickup	M3	1988		49.2%		55.1%	42.4%	1.0%						
Pickup	M3	1989		55.8%		74.8%	24.6%	0.6%						
Pickup	M3	1990		67.4%		42.1%	56.6%	1.3%						
Pickup	M3	1991		62.1%		44.1%	54.1%	1.8%						
Pickup	M3	1992		55.3%		100.0%								
Pickup	M3	1993		56.4%		100.0%								
Pickup	M3	1994												
Pickup	M3	1995												
Pickup	M3	1996												
Pickup	M3	1997												
Pickup	M3	1998												
Pickup	M3	1999												
Pickup	M3	2000												
Pickup	M3	2001												
Pickup	M3	2002												
Pickup	M3	2003												
Pickup	M3	2004												
Pickup	M3	2005												
Pickup	M3	2006												
Pickup	M3	2007												
Pickup	M3	2008												
Pickup	M3	2009												
Pickup	M3	2010												
Pickup	M3	2011												
Pickup	M3	2012												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	M4	1975																
Pickup	M4	1976																
Pickup	M4	1977																
Pickup	M4	1978																
Pickup	M4	1979	527	0.239	17.8	14.5	16.5	15.4	3692		220	118	14.3	0.592	0.0314	28.8		
Pickup	M4	1980	378	0.263	23.2	18.3	21.7	19.7	3104		156	92	14.9	0.644	0.0297	31.0		
Pickup	M4	1981	356	0.247	24.6	19.4	23.2	20.9	3254		191	98	14.8	0.567	0.0300	34.2		
Pickup	M4	1982	327	0.227	25.5	20.1	24.2	21.7	3166		181	101	14.0	0.601	0.0322	34.5		
Pickup	M4	1983	409	0.251	26.5	20.9	24.9	22.5	3035		159	93	14.6	0.606	0.0306	34.4		
Pickup	M4	1984	460	0.225	22.9	18.1	21.5	19.5	3412		193	101	14.9	0.564	0.0298	33.7		
Pickup	M4	1985	316	0.152	26.4	20.7	25.2	22.5	3135		181	102	13.8	0.606	0.0327	35.5		
Pickup	M4	1986	295	0.116	26.6	20.8	25.1	22.6	3206		181	104	13.8	0.617	0.0328	36.4		
Pickup	M4	1987	276	0.129	26.1	20.3	24.6	22.1	3235		182	109	13.5	0.629	0.0338	35.9		
Pickup	M4	1988	110	0.045	26.2	20.8	23.5	22.0	2947		146	106	12.7	0.723	0.0361	32.5		
Pickup	M4	1989	57	0.026	25.6	20.2	22.9	21.4	2955		157	107	12.6	0.698	0.0365	31.4		
Pickup	M4	1990	51	0.028	26.0	20.2	23.4	21.6	2988		156	110	12.5	0.721	0.0371	32.3		
Pickup	M4	1991	5	0.003	20.3	15.4	19.0	17.0	4271		249	143	13.6	0.606	0.0338	35.9		
Pickup	M4	1992	45	0.024	18.9	14.0	18.4	15.9	4312		279	161	12.6	0.576	0.0372	34.3		
Pickup	M4	1993	24	0.012	17.7	13.2	16.7	14.7	4813		313	190	12.0	0.606	0.0394	35.7		
Pickup	M4	1994	18	0.007	17.4	13.0	16.2	14.4	4947		326	198	11.8	0.609	0.0400	36.0		
Pickup	M4	1995	11	0.005	17.6	13.0	16.6	14.6	4961		331	199	11.7	0.604	0.0401	36.3		
Pickup	M4	1996																
Pickup	M4	1997																
Pickup	M4	1998																
Pickup	M4	1999																
Pickup	M4	2000																
Pickup	M4	2001																
Pickup	M4	2002																
Pickup	M4	2003																
Pickup	M4	2004																
Pickup	M4	2005																
Pickup	M4	2006																
Pickup	M4	2007																
Pickup	M4	2008																
Pickup	M4	2009																
Pickup	M4	2010																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	M4	1975												
Pickup	M4	1976												
Pickup	M4	1977												
Pickup	M4	1978												
Pickup	M4	1979		29.9%				0.1%						
Pickup	M4	1980	5.5%	28.8%			3.1%	2.5%						
Pickup	M4	1981	4.8%	22.7%			1.4%	4.9%						
Pickup	M4	1982	4.8%	15.9%			0.4%	5.7%						
Pickup	M4	1983	1.1%	16.7%			0.1%	3.5%						
Pickup	M4	1984	0.4%	27.0%				1.9%						
Pickup	M4	1985		10.1%		2.5%	18.1%	0.7%						
Pickup	M4	1986		9.0%		4.6%	30.7%	0.5%						
Pickup	M4	1987		7.3%		22.3%	41.7%	0.2%						
Pickup	M4	1988		0.8%		3.2%	38.5%							
Pickup	M4	1989		6.6%		6.2%	13.0%							
Pickup	M4	1990		5.5%		33.5%	4.9%							
Pickup	M4	1991		59.6%		65.9%	16.6%	0.1%						
Pickup	M4	1992		46.1%		57.2%	42.1%	0.8%						
Pickup	M4	1993		67.6%		19.7%	80.3%							
Pickup	M4	1994		74.7%		11.4%	88.6%		100.0%					
Pickup	M4	1995		68.9%		11.3%	88.7%		100.0%					
Pickup	M4	1996												
Pickup	M4	1997												
Pickup	M4	1998												
Pickup	M4	1999												
Pickup	M4	2000												
Pickup	M4	2001												
Pickup	M4	2002												
Pickup	M4	2003												
Pickup	M4	2004												
Pickup	M4	2005												
Pickup	M4	2006												
Pickup	M4	2007												
Pickup	M4	2008												
Pickup	M4	2009												
Pickup	M4	2010												

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	M4	2011																
Pickup	M4	2012																
Pickup	M5	1975																
Pickup	M5	1976																
Pickup	M5	1977																
Pickup	M5	1978																
Pickup	M5	1979	124	0.056	22.7	17.5	22.1	19.4	2811		132	89	14.2	0.675	0.0318	27.8		
Pickup	M5	1980	200	0.139	25.5	20.0	24.2	21.7	2788		129	91	13.9	0.704	0.0326	30.6		
Pickup	M5	1981	254	0.176	28.7	22.7	26.9	24.4	2868		134	85	15.2	0.632	0.0298	35.8		
Pickup	M5	1982	298	0.207	28.0	22.2	26.1	23.8	2955		139	88	15.1	0.634	0.0300	35.9		
Pickup	M5	1983	383	0.235	27.0	21.2	25.6	23.0	3059		144	94	14.5	0.659	0.0310	35.6		
Pickup	M5	1984	575	0.281	26.8	21.1	25.4	22.8	3069		141	92	14.8	0.657	0.0302	35.4		
Pickup	M5	1985	590	0.284	26.3	20.8	24.8	22.4	3109		146	100	14.0	0.682	0.0321	35.1		
Pickup	M5	1986	1013	0.400	26.1	20.4	24.6	22.1	3133		143	101	14.0	0.705	0.0323	34.8		
Pickup	M5	1987	859	0.400	26.1	20.2	24.7	22.1	3127		147	103	13.9	0.697	0.0329	34.6		
Pickup	M5	1988	1076	0.438	24.6	18.9	23.4	20.7	3383		181	116	13.6	0.658	0.0339	35.3		
Pickup	M5	1989	1041	0.466	23.8	18.1	22.4	20.0	3495		189	122	13.2	0.674	0.0349	35.0		
Pickup	M5	1990	763	0.416	23.7	18.0	22.3	19.9	3541		193	130	12.7	0.708	0.0368	35.4		
Pickup	M5	1991	983	0.512	24.4	18.4	23.0	20.4	3439		186	127	12.7	0.707	0.0368	35.2		
Pickup	M5	1992	816	0.444	23.8	17.8	22.4	19.8	3585		193	130	12.8	0.704	0.0364	35.6		
Pickup	M5	1993	852	0.426	24.1	17.8	22.7	20.0	3548		188	131	12.6	0.723	0.0370	35.6		
Pickup	M5	1994	1051	0.394	24.3	18.0	22.6	20.0	3639		186	133	12.8	0.745	0.0367	36.7		
Pickup	M5	1995	889	0.391	23.7	17.4	22.1	19.5	3781		197	139	12.6	0.752	0.0371	37.3		
Pickup	M5	1996	677	0.346	24.4	17.7	22.7	20.0	3739		188	142	12.4	0.794	0.0380	37.7		
Pickup	M5	1997	608	0.253	24.7	17.9	22.8	20.2	3778		189	149	12.1	0.809	0.0392	38.4		
Pickup	M5	1998	660	0.273	24.4	17.6	22.5	19.9	3759		184	150	12.0	0.834	0.0397	37.8		
Pickup	M5	1999	446	0.175	23.7	16.9	21.8	19.2	3800		192	156	11.7	0.822	0.0407	36.9		
Pickup	M5	2000	435	0.167	23.5	16.8	21.2	18.9	3823		192	160	11.6	0.841	0.0415	36.5		
Pickup	M5	2001	303	0.120	22.9	16.4	20.7	18.5	3909		199	164	11.5	0.844	0.0418	36.3		
Pickup	M5	2002	227	0.095	22.7	16.1	20.4	18.2	3991		206	176	11.0	0.868	0.0439	36.7		
Pickup	M5	2003	256	0.103	23.4	16.4	21.1	18.7	3946		195	168	11.4	0.878	0.0423	37.2		
Pickup	M5	2004	172	0.068	22.9	16.0	20.6	18.3	3979		200	177	10.9	0.900	0.0445	36.7		
Pickup	M5	2005	94	0.041	24.0	16.4	21.7	19.1	4005		194	176	11.0	0.928	0.0440	38.4		
Pickup	M5	2006	96	0.044	24.4	16.7	22.2	19.5	4017		190	173	11.1	0.933	0.0432	39.2		
Pickup	M5	2007	67	0.031	25.0	17.2	22.4	19.8	3991		187	171	11.1	0.939	0.0431	39.7		
Pickup	M5	2008	50	0.028	25.6	17.7	22.8	20.3	3872		179	168	11.1	0.954	0.0433	39.5		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	M4	2011												
Pickup	M4	2012												
Pickup	M5	1975												
Pickup	M5	1976												
Pickup	M5	1977												
Pickup	M5	1978												
Pickup	M5	1979												
Pickup	M5	1980	2.1%	3.8%			0.8%	1.3%						
Pickup	M5	1981	6.5%	19.5%			1.7%	25.0%						
Pickup	M5	1982	3.0%	27.1%			0.7%	22.3%						
Pickup	M5	1983	3.3%	31.0%			0.1%	7.4%						
Pickup	M5	1984	1.2%	30.0%		2.6%		4.1%						
Pickup	M5	1985		35.2%		18.8%	1.3%	1.9%						
Pickup	M5	1986		28.7%		19.1%	21.9%	0.8%						
Pickup	M5	1987		28.2%		22.9%	20.5%	0.4%						
Pickup	M5	1988		29.1%		45.1%	27.6%							
Pickup	M5	1989		28.2%		48.9%	36.6%							
Pickup	M5	1990		27.4%		68.3%	22.5%							
Pickup	M5	1991		21.8%		56.6%	37.9%							
Pickup	M5	1992		23.0%		63.3%	29.9%							
Pickup	M5	1993		24.2%		73.9%	21.6%							
Pickup	M5	1994		24.5%		89.1%	9.0%		96.1%	3.7%	0.2%			
Pickup	M5	1995		23.0%		84.8%	15.2%		92.0%		8.0%			
Pickup	M5	1996		21.5%		100.0%			75.5%	10.1%	14.5%			
Pickup	M5	1997		19.2%		100.0%			81.6%	17.1%	1.3%			
Pickup	M5	1998		25.3%		100.0%			74.9%		25.1%			
Pickup	M5	1999		29.4%		100.0%			79.6%		20.4%			
Pickup	M5	2000		24.6%		100.0%			77.7%		22.3%			
Pickup	M5	2001		25.9%		100.0%			69.2%		30.8%			
Pickup	M5	2002		31.1%		100.0%			52.8%		47.2%			
Pickup	M5	2003		28.0%		100.0%			64.5%		35.5%			
Pickup	M5	2004		34.3%		100.0%			50.5%		49.5%		5.7%	
Pickup	M5	2005		26.1%		100.0%			39.0%		61.0%		43.7%	
Pickup	M5	2006		23.6%		100.0%			32.9%		67.1%		53.2%	
Pickup	M5	2007		19.7%		100.0%			31.0%		69.0%		86.2%	
Pickup	M5	2008		25.6%		100.0%			24.0%		76.0%		76.0%	

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	M5	2009	34	0.034	27.2	18.9	23.8	21.4	3810		164	161	11.3	0.986	0.0424	41.0		
Pickup	M5	2010	24	0.019	27.0	18.7	23.6	21.2	3820		165	160	11.3	0.979	0.0421	40.8		
Pickup	M5	2011	24	0.016	26.7	18.6	23.2	21.0	3794		174	165	11.1	0.964	0.0436	40.2		
Pickup	M5	2012	29	0.021	27.1	18.6	23.3	21.0	3814		170	171	10.8	1.008	0.0452	40.1		
Pickup	M6	1975																
Pickup	M6	1976																
Pickup	M6	1977																
Pickup	M6	1978																
Pickup	M6	1979																
Pickup	M6	1980																
Pickup	M6	1981																
Pickup	M6	1982																
Pickup	M6	1983																
Pickup	M6	1984																
Pickup	M6	1985																
Pickup	M6	1986																
Pickup	M6	1987																
Pickup	M6	1988																
Pickup	M6	1989																
Pickup	M6	1990																
Pickup	M6	1991																
Pickup	M6	1992																
Pickup	M6	1993																
Pickup	M6	1994																
Pickup	M6	1995																
Pickup	M6	1996																
Pickup	M6	1997																
Pickup	M6	1998																
Pickup	M6	1999																
Pickup	M6	2000																
Pickup	M6	2001																
Pickup	M6	2002																
Pickup	M6	2003																
Pickup	M6	2004	3	0.001	13.0	8.6	13.6	10.8	5135		505	500	5.9	0.990	0.0975	27.8		
Pickup	M6	2005	37	0.016	20.1	13.8	18.5	16.1	4429		261	262	8.8	1.008	0.0591	35.9		
Pickup	M6	2006	39	0.018	20.6	14.3	18.7	16.5	4499		248	242	9.4	0.978	0.0540	37.3		

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	M5	2009		39.6%		100.0%			4.9%		95.1%		96.1%	
Pickup	M5	2010		42.8%		100.0%			6.8%		93.2%		73.7%	
Pickup	M5	2011		41.4%		100.0%			21.6%		78.4%		48.1%	
Pickup	M5	2012		36.7%		100.0%					100.0%		100.0%	
Pickup	M6	1975												
Pickup	M6	1976												
Pickup	M6	1977												
Pickup	M6	1978												
Pickup	M6	1979												
Pickup	M6	1980												
Pickup	M6	1981												
Pickup	M6	1982												
Pickup	M6	1983												
Pickup	M6	1984												
Pickup	M6	1985												
Pickup	M6	1986												
Pickup	M6	1987												
Pickup	M6	1988												
Pickup	M6	1989												
Pickup	M6	1990												
Pickup	M6	1991												
Pickup	M6	1992												
Pickup	M6	1993												
Pickup	M6	1994												
Pickup	M6	1995												
Pickup	M6	1996												
Pickup	M6	1997												
Pickup	M6	1998												
Pickup	M6	1999												
Pickup	M6	2000												
Pickup	M6	2001												
Pickup	M6	2002												
Pickup	M6	2003												
Pickup	M6	2004				100.0%					100.0%			
Pickup	M6	2005		48.3%		100.0%			29.1%		70.9%		70.9%	
Pickup	M6	2006		50.7%		100.0%			37.4%		62.6%		62.6%	

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	M6	2007	26	0.012	21.3	14.9	19.0	17.0	4438		241	236	9.4	0.980	0.0535	37.7		
Pickup	M6	2008	22	0.012	21.1	14.8	18.7	16.8	4472		241	233	9.6	0.969	0.0526	37.6		
Pickup	M6	2009	7	0.007	20.9	14.6	18.8	16.7	4445		241	238	9.3	0.990	0.0537	37.2		
Pickup	M6	2010	7	0.005	20.4	14.3	18.0	16.2	4557		242	242	9.4	1.000	0.0531	37.0		
Pickup	M6	2011	7	0.005	20.6	14.5	18.3	16.4	4481		242	243	9.3	1.005	0.0543	36.9		
Pickup	M6	2012	8	0.006	22.0	15.4	19.3	17.4	4485		242	243	9.3	1.005	0.0542	39.1		
Pickup	OT	1975																
Pickup	OT	1976																
Pickup	OT	1977																
Pickup	OT	1978																
Pickup	OT	1979																
Pickup	OT	1980																
Pickup	OT	1981																
Pickup	OT	1982																
Pickup	OT	1983	7	0.004	15.6	12.3	14.5	13.2	4498		280	132	15.9	0.465	0.0292	30.2		
Pickup	OT	1984																
Pickup	OT	1985																
Pickup	OT	1986																
Pickup	OT	1987																
Pickup	OT	1988																
Pickup	OT	1989																
Pickup	OT	1990																
Pickup	OT	1991																
Pickup	OT	1992																
Pickup	OT	1993																
Pickup	OT	1994																
Pickup	OT	1995																
Pickup	OT	1996	1	0.000	15.5	11.3	14.7	12.8	5385		346	227	11.3	0.657	0.0422	34.5		
Pickup	OT	1997																
Pickup	OT	1998																
Pickup	OT	1999																
Pickup	OT	2000																
Pickup	OT	2001																
Pickup	OT	2002																
Pickup	OT	2003																
Pickup	OT	2004																

2012 FE Trends Report

Appendix I: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type*	Transmission Type	Model Year	Drivetrain		Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	M6	2007		54.9%		100.0%			35.0%		65.0%		39.7%	
Pickup	M6	2008		53.3%		100.0%			43.7%		56.3%		12.4%	
Pickup	M6	2009		85.0%		100.0%			1.6%		98.4%		10.5%	
Pickup	M6	2010		90.0%		100.0%					100.0%		100.0%	
Pickup	M6	2011		90.6%		100.0%					100.0%		100.0%	
Pickup	M6	2012		84.9%		100.0%					100.0%		100.0%	
Pickup	OT	1975												
Pickup	OT	1976												
Pickup	OT	1977												
Pickup	OT	1978												
Pickup	OT	1979												
Pickup	OT	1980												
Pickup	OT	1981												
Pickup	OT	1982												
Pickup	OT	1983		59.1%										
Pickup	OT	1984												
Pickup	OT	1985												
Pickup	OT	1986												
Pickup	OT	1987												
Pickup	OT	1988												
Pickup	OT	1989												
Pickup	OT	1990												
Pickup	OT	1991												
Pickup	OT	1992												
Pickup	OT	1993												
Pickup	OT	1994												
Pickup	OT	1995												
Pickup	OT	1996		77.0%		100.0%			100.0%					
Pickup	OT	1997												
Pickup	OT	1998												
Pickup	OT	1999												
Pickup	OT	2000												
Pickup	OT	2001												
Pickup	OT	2002												
Pickup	OT	2003												
Pickup	OT	2004												



EPA-420-R-13-001 *The "Car" vehicle type includes Non-Truck SUVs. I - 123 March 2013



EPA-420-R-13-001 *The "Car" vehicle type includes Non-Truck SUVs. I - 124 March 2013

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix J Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	2	1975	51	0.006	15.8	12.2	15.4	13.5	2899		152	129	10.9	0.849	0.0444	19.5		
Car	2	1976	27	0.003	20.4	15.8	19.9	17.4	2952		156	132	10.8	0.846	0.0447	25.8		
Car	2	1977	16	0.001	22.3	17.0	22.3	19.1	2966	91.1	157	133	10.8	0.846	0.0448	28.5	1747	2596
Car	2	1978	2	0.000	20.9	16.3	20.1	17.8	2855	94.2	154	131	10.6	0.848	0.0459	25.5	1683	2416
Car	2	1979	52	0.005	20.4	15.3	21.1	17.5	2750	50.0	140	125	10.6	0.893	0.0455	24.0	873	1201
Car	2	1980	53	0.006	19.8	14.8	20.8	17.0	2750	50.0	140	100	12.6	0.714	0.0364	23.4	850	1168
Car	2	1981	34	0.004	23.7	18.4	23.0	20.2	2500	50.0	140	100	11.7	0.714	0.0400	25.3	1012	1265
Car	2	1982	51	0.007	23.7	18.4	22.9	20.2	2500	50.0	140	100	11.7	0.714	0.0400	25.3	1011	1264
Car	2	1983	61	0.008	22.7	17.6	22.0	19.3	2516	50.0	140	100	11.8	0.714	0.0398	24.3	968	1216
Car	2	1984	41	0.004	22.0	16.5	22.5	18.8	2577	50.0	144	109	11.4	0.749	0.0420	24.2	940	1210
Car	2	1985	59	0.005	22.1	16.6	22.6	18.9	2568	50.0	143	106	11.5	0.739	0.0412	24.2	944	1212
Car	2	1986	51	0.005	23.0	17.0	23.9	19.6	2925	79.4	160	146	9.9	0.913	0.0500	28.7	1558	2278
Car	2	1987	51	0.005	22.8	16.8	23.6	19.4	3000	50.0	160	152	9.8	0.953	0.0508	29.1	971	1457
Car	2	1988	39	0.004	22.6	16.6	23.4	19.2	3111	50.0	160	150	10.2	0.938	0.0485	29.9	960	1493
Car	2	1989	9	0.001	22.9	16.6	23.8	19.4	3141	50.0	160	163	9.6	1.021	0.0523	30.4	969	1520
Car	2	1990	11	0.001	22.9	16.5	23.7	19.3	3169	50.0	160	162	9.7	1.014	0.0515	30.6	967	1529
Car	2	1991	8	0.001	22.8	16.4	23.5	19.2	3203	50.0	160	161	9.8	1.007	0.0506	30.7	962	1537
Car	2	1992	0	0.000	22.7	15.9	24.4	19.2	3500	50.0	160	160	10.6	1.000	0.0457	33.5	958	1676
Car	2	1993	10	0.001	23.5	16.7	24.1	19.7	3000	50.0	160	255	6.5	1.594	0.0850	29.5	984	1476
Car	2	1994	3	0.000	23.5	16.6	24.0	19.6	3000	50.0	160	255	6.5	1.594	0.0850	29.4	981	1472
Car	2	1995	1	0.000	22.9	16.0	23.5	19.1	3000	50.0	160	255	6.5	1.594	0.0850	28.7	957	1435
Car	2	1996																
Car	2	1997																
Car	2	1998																
Car	2	1999																
Car	2	2000																
Car	2	2001																
Car	2	2002																
Car	2	2003																
Car	2	2004	35	0.004	23.8	16.3	22.0	19.1	3500	96.3	160	224	8.2	1.397	0.0639	33.4	1841	3221
Car	2	2005	18	0.002	23.8	16.2	22.0	19.0	3500	96.3	80	220	8.3	2.752	0.0629	33.3	1834	3210
Car	2	2006	6	0.001	24.0	16.3	22.3	19.2	3500	96.3	79	227	8.1	2.870	0.0648	33.7	1853	3242
Car	2	2007	6	0.001	24.0	16.3	22.3	19.3	3500	96.3	79	225	8.1	2.852	0.0644	33.7	1855	3246
Car	2	2008	2	0.000	24.0	16.3	22.3	19.2	3500	96.3	79	226	8.1	2.865	0.0647	33.7	1854	3244
Car	2	2009	3	0.000	24.0	16.3	22.3	19.2	3500	96.3	79	224	8.2	2.838	0.0641	33.7	1853	3242
Car	2	2010	1	0.000	24.0	16.3	22.3	19.2	3500	97.0	79	224	6.4	2.834	0.0640	33.7	1867	3266

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	2	1975			50.5%												
Car	2	1976			40.1%												
Car	2	1977			61.7%												
Car	2	1978			66.3%												
Car	2	1979			90.1%												
Car	2	1980			90.5%												
Car	2	1981			91.4%												
Car	2	1982			89.6%												
Car	2	1983			92.2%												
Car	2	1984			91.4%	8.6%				22.4%							
Car	2	1985			87.2%	12.8%			14.6%								
Car	2	1986			82.4%	17.6%			100.0%			100.0%					
Car	2	1987			85.5%	14.5%			100.0%			100.0%					
Car	2	1988			86.2%	13.8%			100.0%			100.0%					
Car	2	1989			74.1%	25.9%			100.0%			100.0%					
Car	2	1990			72.8%	27.2%			100.0%			100.0%					
Car	2	1991			74.7%	25.3%			100.0%			100.0%					
Car	2	1992			100.0%				100.0%			100.0%					
Car	2	1993			84.8%	15.2%			100.0%			100.0%					
Car	2	1994			88.0%	12.0%			100.0%			100.0%					
Car	2	1995			87.6%	12.4%			100.0%			100.0%					
Car	2	1996															
Car	2	1997															
Car	2	1998															
Car	2	1999															
Car	2	2000															
Car	2	2001															
Car	2	2002															
Car	2	2003															
Car	2	2004			64.9%	35.1%			100.0%			100.0%					
Car	2	2005			56.5%	43.5%			100.0%			100.0%					
Car	2	2006			56.7%	43.3%			100.0%			100.0%					
Car	2	2007			51.3%	48.7%			100.0%			100.0%					
Car	2	2008			55.0%	45.0%			100.0%			100.0%					
Car	2	2009			61.1%	38.9%			100.0%			100.0%					
Car	2	2010			59.5%	40.5%			100.0%			100.0%					

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	2	2011	1	0.000	24.0	16.3	22.3	19.2	3500	97.0	79	224	7.0	2.830	0.0639	33.7	1867	3268
Car	2	2012																
Car	3	1975																
Car	3	1976																
Car	3	1977																
Car	3	1978																
Car	3	1979																
Car	3	1980																
Car	3	1981																
Car	3	1982																
Car	3	1983																
Car	3	1984																
Car	3	1985	37	0.003	57.4	46.7	51.5	48.8	1750	82.6	61	48	15.7	0.787	0.0274	42.8	4037	3533
Car	3	1986	81	0.007	55.9	45.4	49.4	47.1	1750	84.6	61	46	16.3	0.759	0.0264	42.0	4053	3547
Car	3	1987	78	0.007	50.8	40.8	44.8	42.6	1878	84.8	63	51	16.2	0.810	0.0271	40.3	3661	3414
Car	3	1988	103	0.010	47.2	37.6	41.6	39.4	1867	86.6	65	54	15.4	0.824	0.0286	37.3	3473	3226
Car	3	1989	85	0.008	47.5	37.8	41.1	39.4	1975	90.9	65	55	15.9	0.843	0.0276	39.4	3679	3584
Car	3	1990	46	0.005	48.7	38.3	42.0	40.0	2021	87.9	63	55	16.2	0.854	0.0269	41.4	3647	3650
Car	3	1991	111	0.013	48.2	37.4	41.8	39.5	2008	85.5	62	56	15.6	0.907	0.0280	40.3	3462	3462
Car	3	1992	111	0.013	48.6	37.2	42.1	39.5	1984	87.6	61	55	15.8	0.902	0.0278	39.8	3532	3494
Car	3	1993	88	0.010	51.1	38.9	43.8	41.2	1979	88.6	62	56	15.5	0.906	0.0282	41.5	3739	3683
Car	3	1994	100	0.011	50.0	37.6	42.7	40.0	1981	91.7	61	55	15.7	0.904	0.0280	40.3	3741	3695
Car	3	1995	29	0.003	54.5	40.3	46.8	43.4	2000	99.9	61	55	15.7	0.902	0.0275	43.4	4336	4336
Car	3	1996	25	0.003	54.8	40.3	46.4	43.3	2000	99.9	61	55	15.7	0.902	0.0275	43.3	4327	4327
Car	3	1997	13	0.001	54.4	39.5	46.1	42.8	2000	90.5	61	55	15.7	0.902	0.0275	42.8	3871	3871
Car	3	1998	12	0.001	53.6	38.1	46.1	42.0	2000	89.7	60	55	15.7	0.917	0.0275	42.0	3765	3765
Car	3	1999																
Car	3	2000	11	0.001	61.6	42.7	51.6	47.1	2000	68.1	61	61	13.2	1.005	0.0306	48.8	3153	3153
Car	3	2001	3	0.000	71.2	49.3	56.3	53.0	2111	50.0	61	66	11.1	1.084	0.0315	55.9	2661	2797
Car	3	2002																
Car	3	2003	1	0.000	69.0	47.4	53.0	50.4	2167	50.0	61	66	11.1	1.076	0.0304	54.6	2530	2732
Car	3	2004	1	0.000	68.5	46.7	51.9	49.5	2175	50.0	61	66	11.1	1.075	0.0303	53.8	2482	2692
Car	3	2005	1	0.000	69.7	46.6	52.7	49.9	2140	50.0	61	69	11.1	1.123	0.0322	53.4	2504	2670
Car	3	2006	1	0.000	70.3	46.7	53.6	50.4	2111	50.0	61	72	11.1	1.182	0.0343	53.2	2529	2661
Car	3	2007																
Car	3	2008	22	0.003	49.5	33.4	40.5	37.1	2000	50.0	61	70	13.3	1.148	0.0350	37.1	1857	1857

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	2	2011			57.8%	42.2%			100.0%			100.0%					
Car	2	2012															
Car	3	1975															
Car	3	1976															
Car	3	1977															
Car	3	1978															
Car	3	1979															
Car	3	1980															
Car	3	1981															
Car	3	1982															
Car	3	1983															
Car	3	1984															
Car	3	1985	100.0%		90.1%												
Car	3	1986	100.0%		64.7%							100.0%					
Car	3	1987	100.0%		73.5%				8.6%			86.5%	13.5%				
Car	3	1988	89.0%	11.0%	76.5%				13.2%	1.5%		68.6%	31.4%				
Car	3	1989	100.0%		64.3%		14.9%		13.0%	57.5%		70.5%	29.5%				
Car	3	1990	89.0%	11.0%	77.7%		6.4%		24.2%	70.1%		79.3%	20.7%				
Car	3	1991	94.5%	5.5%	61.0%		3.3%		7.8%	89.7%		91.9%	8.1%				
Car	3	1992	99.6%	0.4%	50.1%		0.2%		1.9%	97.4%		98.8%	1.2%				
Car	3	1993	97.7%	2.3%	69.2%		0.9%		4.6%	95.4%		95.4%	4.6%				
Car	3	1994	100.0%		53.9%				2.4%	97.6%		97.6%	2.4%				
Car	3	1995	100.0%		100.0%					100.0%		100.0%					
Car	3	1996	100.0%		100.0%					100.0%		100.0%					
Car	3	1997	100.0%		100.0%					100.0%		100.0%					
Car	3	1998	100.0%		100.0%					100.0%		100.0%					
Car	3	1999															
Car	3	2000	52.4%		100.0%				52.4%	47.6%		47.6%		52.4%		52.4%	52.4%
Car	3	2001	100.0%		55.8%		44.2%		100.0%					100.0%		100.0%	100.0%
Car	3	2002															
Car	3	2003	100.0%		33.2%		66.8%		100.0%					100.0%		100.0%	100.0%
Car	3	2004	100.0%		29.8%		70.2%		100.0%					100.0%		100.0%	100.0%
Car	3	2005	100.0%		44.0%		56.0%		100.0%					100.0%		100.0%	100.0%
Car	3	2006	100.0%		55.7%		44.3%		100.0%					100.0%		100.0%	100.0%
Car	3	2007															
Car	3	2008							100.0%					100.0%		100.0%	

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	3	2009	14	0.002	49.5	33.4	40.5	37.1	2000	50.0	61	70	13.3	1.148	0.0350	37.1	1857	1857
Car	3	2010	3	0.000	49.1	33.3	40.0	36.8	2000	50.0	61	70	13.3	1.148	0.0350	36.8	1841	1841
Car	3	2011	3	0.000	48.7	33.1	39.5	36.5	2000	50.0	61	70	13.3	1.148	0.0350	36.5	1826	1826
Car	3	2012	3	0.000	50.3	34.5	38.2	36.5	2000	50.0	61	70	13.3	1.148	0.0350	36.5	1824	1824
Car	4	1975	1811	0.220	24.2	18.6	23.8	20.6	2656		113	79	15.1	0.715	0.0298	27.6		
Car	4	1976	2017	0.207	26.5	20.5	25.8	22.6	2613		111	77	15.2	0.706	0.0296	29.7		
Car	4	1977	2287	0.202	28.7	22.4	27.6	24.4	2524	86.8	106	78	14.6	0.742	0.0308	31.2	2178	2718
Car	4	1978	2926	0.261	28.3	22.3	26.7	24.1	2511	88.9	108	77	14.7	0.727	0.0308	30.7	2196	2731
Car	4	1979	3166	0.293	27.0	21.2	25.7	23.0	2564	90.1	110	77	14.9	0.707	0.0300	29.8	2120	2694
Car	4	1980	4511	0.478	28.1	22.0	26.8	23.9	2573	93.0	116	78	14.8	0.681	0.0303	31.0	2267	2891
Car	4	1981	4469	0.512	29.8	23.4	28.3	25.4	2556	97.7	115	79	14.6	0.693	0.0308	32.7	2515	3192
Car	4	1982	4263	0.544	30.9	24.0	29.8	26.3	2594	97.8	115	78	14.9	0.686	0.0300	34.4	2607	3365
Car	4	1983	4172	0.519	31.2	24.4	29.7	26.5	2622	101.2	118	81	14.7	0.694	0.0308	35.1	2734	3553
Car	4	1984	5748	0.536	31.4	24.4	30.2	26.7	2655	100.3	119	85	14.3	0.718	0.0320	35.8	2720	3586
Car	4	1985	5873	0.540	31.5	24.6	30.3	26.9	2672	101.9	120	90	13.8	0.752	0.0336	36.1	2774	3686
Car	4	1986	6471	0.584	31.3	24.2	30.0	26.6	2720	102.5	122	91	13.9	0.753	0.0332	36.3	2753	3726
Car	4	1987	6686	0.618	31.1	23.9	29.7	26.3	2732	102.1	121	92	13.8	0.772	0.0336	36.2	2711	3690
Car	4	1988	6337	0.584	31.7	24.3	30.0	26.7	2740	101.8	118	95	13.6	0.805	0.0343	36.8	2749	3743
Car	4	1989	5676	0.561	31.1	23.6	29.6	26.1	2795	101.5	120	100	13.1	0.839	0.0357	36.6	2679	3719
Car	4	1990	4936	0.556	30.7	23.1	29.1	25.6	2858	100.8	122	108	12.6	0.900	0.0377	36.7	2605	3707
Car	4	1991	4894	0.559	30.7	22.9	29.1	25.6	2850	100.9	121	108	12.6	0.911	0.0379	36.7	2615	3705
Car	4	1992	4002	0.479	30.8	22.7	29.2	25.6	2888	100.7	120	112	12.3	0.945	0.0387	37.1	2607	3739
Car	4	1993	4324	0.484	31.5	23.0	29.8	26.0	2870	101.9	120	110	12.5	0.928	0.0382	37.5	2681	3824
Car	4	1994	4267	0.488	31.5	22.8	29.9	25.9	2903	102.1	120	113	12.3	0.953	0.0389	37.8	2673	3859
Car	4	1995	4658	0.484	32.1	23.0	30.6	26.4	2891	102.7	118	120	11.7	1.015	0.0413	38.3	2735	3931
Car	4	1996	4043	0.494	31.5	22.4	30.0	25.8	2939	102.9	121	123	11.6	1.022	0.0419	38.1	2682	3918
Car	4	1997	4645	0.534	31.6	22.3	30.0	25.8	2951	102.4	122	124	11.5	1.022	0.0420	38.1	2659	3908
Car	4	1998	4185	0.497	31.9	22.3	30.1	25.9	3019	103.6	122	127	11.5	1.043	0.0421	39.1	2697	4057
Car	4	1999	4147	0.468	31.4	21.8	29.5	25.4	3077	103.8	124	129	11.5	1.052	0.0421	39.1	2651	4065
Car	4	2000	4501	0.462	31.1	21.6	29.0	25.1	3078	104.5	123	130	11.4	1.064	0.0424	38.6	2638	4046
Car	4	2001	4376	0.478	31.5	21.7	29.2	25.2	3115	105.1	125	132	11.4	1.068	0.0425	39.5	2684	4159
Car	4	2002	4496	0.505	31.3	21.4	28.9	25.0	3144	107.0	127	138	11.1	1.099	0.0440	39.6	2706	4240
Car	4	2003	4321	0.509	32.0	21.7	29.4	25.4	3172	107.5	126	142	10.9	1.132	0.0448	40.6	2762	4367
Car	4	2004	3902	0.477	32.4	21.8	29.7	25.6	3167	107.8	127	145	10.7	1.149	0.0457	40.9	2800	4416
Car	4	2005	4556	0.515	33.0	22.1	29.8	25.9	3154	108.8	126	145	10.6	1.149	0.0459	41.4	2871	4513
Car	4	2006	4252	0.486	33.1	22.1	30.0	26.0	3202	109.0	128	151	10.5	1.179	0.0468	42.1	2879	4599

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	3	2009							100.0%					100.0%		100.0%	
Car	3	2010							100.0%					100.0%		100.0%	
Car	3	2011							100.0%					100.0%		100.0%	
Car	3	2012							100.0%					100.0%		100.0%	
Car	4	1975	25.1%		67.8%	1.2%			14.3%		0.8%						
Car	4	1976	22.0%		63.9%				6.7%		0.6%						
Car	4	1977	28.3%		69.5%				11.9%		1.8%						
Car	4	1978	31.8%		65.9%	1.5%			10.4%		1.7%						
Car	4	1979	33.4%	1.2%	61.6%	2.6%			7.0%		2.1%						
Car	4	1980	44.8%	1.0%	58.3%	0.7%			9.1%		3.6%						
Car	4	1981	60.6%	0.9%	54.1%	1.7%			7.5%		4.0%						
Car	4	1982	71.9%	0.9%	48.5%	21.3%			7.5%	11.1%	2.6%						
Car	4	1983	75.9%	5.1%	44.0%	26.1%			11.7%	20.9%	1.0%						
Car	4	1984	81.3%	1.4%	39.9%	30.4%			15.4%	28.3%	1.6%						
Car	4	1985	83.9%	3.7%	36.7%	31.9%			18.6%	33.7%	0.8%						
Car	4	1986	89.3%	1.5%	36.5%	37.0%			24.4%	39.0%	0.4%	92.4%	5.4%	2.2%			
Car	4	1987	91.9%	1.5%	34.4%	43.0%			24.9%	43.2%	0.1%	78.1%	14.4%	7.4%			
Car	4	1988	94.1%	1.0%	35.2%	50.3%			32.6%	45.9%		69.8%	15.1%	15.1%			
Car	4	1989	93.1%	1.5%	31.9%	53.4%			43.7%	41.2%	0.1%	61.2%	19.6%	19.1%			
Car	4	1990	93.0%	1.5%	30.8%	57.8%			62.8%	35.3%	0.0%	47.8%	9.3%	42.9%			
Car	4	1991	91.6%	2.0%	31.3%	60.9%			68.3%	31.5%	0.1%	47.7%	10.5%	41.9%		2.8%	
Car	4	1992	87.2%	1.2%	30.4%	61.2%			85.8%	14.1%	0.0%	42.7%	8.7%	48.7%		4.8%	
Car	4	1993	92.9%	2.0%	29.5%	62.8%			87.3%	12.6%		45.9%	5.7%	48.4%		5.3%	
Car	4	1994	95.4%	0.7%	27.9%	66.2%			91.6%	8.4%		40.4%	3.6%	56.1%		11.9%	
Car	4	1995	89.4%	2.1%	27.8%	70.3%			97.9%	2.1%		25.3%	2.2%	72.5%		12.2%	
Car	4	1996	94.9%	2.4%	24.5%	73.4%	0.0%		98.4%	1.5%	0.1%	21.5%	1.8%	76.7%		14.4%	
Car	4	1997	93.9%	2.7%	22.2%	76.1%	0.1%		98.8%	1.2%	0.1%	23.2%	1.5%	75.1%	0.2%	11.2%	
Car	4	1998	94.7%	3.0%	19.6%	79.6%	0.1%		99.7%		0.3%	19.1%	1.6%	78.5%	0.8%	21.5%	
Car	4	1999	95.1%	3.1%	17.8%	81.0%	0.0%		99.6%	0.2%	0.2%	19.6%	2.0%	76.7%	1.8%	18.3%	
Car	4	2000	94.0%	2.9%	17.1%	80.7%	0.0%		99.5%		0.5%	20.7%	1.6%	75.6%	2.1%	24.2%	
Car	4	2001	93.7%	3.0%	17.2%	80.8%	0.4%		99.5%		0.5%	18.6%	0.6%	77.2%	3.5%	31.2%	
Car	4	2002	94.5%	3.5%	17.1%	81.8%	0.7%		99.3%		0.7%	16.6%	0.6%	79.2%	3.6%	43.0%	0.6%
Car	4	2003	95.3%	3.3%	16.0%	81.9%	2.1%		99.3%		0.7%	7.7%		88.2%	4.1%	51.5%	1.1%
Car	4	2004	95.2%	3.5%	14.7%	82.1%	2.8%		99.4%		0.6%	3.9%		92.8%	3.3%	55.1%	1.8%
Car	4	2005	94.6%	4.1%	13.0%	83.1%	3.8%		99.4%		0.6%	5.4%		93.2%	1.4%	65.4%	3.3%
Car	4	2006	94.8%	4.1%	13.3%	83.1%	3.6%		98.9%		1.1%	4.3%		95.6%	0.1%	71.7%	3.0%

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	4	2007	4969	0.552	34.0	22.7	30.6	26.7	3227	109.0	128	150	10.4	1.176	0.0464	43.6	2966	4767
Car	4	2008	4618	0.560	34.2	22.9	30.7	26.8	3250	109.6	128	152	10.4	1.183	0.0465	44.1	2995	4845
Car	4	2009	4221	0.676	34.9	23.2	31.3	27.2	3273	110.9	129	152	10.4	1.184	0.0464	45.0	3058	4993
Car	4	2010	4781	0.686	36.3	24.2	32.4	28.3	3304	112.1	130	154	10.3	1.188	0.0467	47.9	3251	5384
Car	4	2011	4604	0.664	35.5	23.5	32.4	27.9	3390	114.8	132	162	10.2	1.235	0.0477	48.0	3248	5513
Car	4	2012	6307	0.740	37.9	25.1	34.0	29.5	3290	112.3	125	157	10.2	1.267	0.0477	49.3	3372	5553
Car	5	1975	5	0.001	26.8	21.5	24.5	22.8	3500		183	77	19.3	0.421	0.0220	39.8		
Car	5	1976	12	0.001	24.4	20.0	21.7	20.7	4000		183	77	21.5	0.421	0.0193	41.4		
Car	5	1977	12	0.001	24.9	20.7	21.6	21.1	4000	105.0	183	77	21.5	0.421	0.0193	42.2	2214	4428
Car	5	1978	39	0.003	20.9	16.5	19.6	17.8	3411	103.6	152	102	15.1	0.690	0.0306	31.5	1873	3249
Car	5	1979	43	0.004	22.8	18.4	20.7	19.4	3596	106.0	162	100	16.1	0.636	0.0284	35.9	2090	3818
Car	5	1980	66	0.007	23.8	18.7	22.6	20.3	3357	105.3	152	93	16.3	0.630	0.0281	35.4	2208	3744
Car	5	1981	59	0.007	25.4	20.1	23.8	21.6	3358	105.3	155	98	15.6	0.650	0.0297	37.4	2330	3971
Car	5	1982	58	0.007	26.9	21.5	24.7	22.9	3602	105.8	164	114	14.3	0.705	0.0319	42.3	2460	4501
Car	5	1983	64	0.008	27.4	22.0	25.1	23.3	3660	106.1	165	114	14.5	0.696	0.0313	43.6	2505	4638
Car	5	1984	116	0.011	24.6	19.4	23.3	21.0	3327	110.3	148	109	13.9	0.748	0.0330	35.8	2334	3929
Car	5	1985	99	0.009	24.0	18.9	22.8	20.5	3360	110.2	151	117	13.3	0.788	0.0352	34.9	2265	3837
Car	5	1986	71	0.006	23.3	17.9	22.7	19.8	3035	111.0	136	116	12.3	0.854	0.0383	30.2	2206	3357
Car	5	1987	45	0.004	23.9	18.3	23.0	20.2	3095	110.7	139	127	11.7	0.914	0.0409	31.7	2253	3499
Car	5	1988	19	0.002	24.3	18.4	23.7	20.5	3047	104.6	140	129	11.4	0.920	0.0422	31.5	2155	3289
Car	5	1989	16	0.002	23.8	18.0	22.8	20.0	3416	108.5	140	135	12.0	0.969	0.0398	34.3	2174	3726
Car	5	1990	18	0.002	23.9	18.0	22.8	20.0	3407	105.1	141	138	11.8	0.980	0.0406	34.4	2125	3630
Car	5	1991	15	0.002	24.5	18.1	24.0	20.6	3460	106.7	142	141	11.9	1.002	0.0407	36.2	2230	3871
Car	5	1992	27	0.003	26.1	19.2	25.1	21.7	3497	100.9	150	170	10.3	1.135	0.0486	38.3	2211	3867
Car	5	1993	41	0.005	27.1	19.5	26.7	22.5	3509	108.2	149	169	10.3	1.133	0.0481	39.6	2446	4290
Car	5	1994	54	0.006	26.1	18.7	25.8	21.7	3504	114.7	147	184	9.7	1.252	0.0524	38.0	2491	4364
Car	5	1995	60	0.006	26.5	18.7	26.5	22.0	3512	118.6	147	185	9.6	1.271	0.0528	38.6	2610	4580
Car	5	1996	84	0.010	26.3	18.5	25.9	21.7	3500	115.6	148	180	9.8	1.221	0.0515	38.0	2514	4399
Car	5	1997	51	0.006	26.2	18.3	25.8	21.6	3500	117.1	148	181	9.7	1.224	0.0518	37.8	2533	4433
Car	5	1998	97	0.011	25.7	17.9	25.0	21.1	3609	120.1	148	185	9.8	1.251	0.0514	38.0	2530	4572
Car	5	1999	64	0.007	26.2	18.2	25.3	21.4	3663	121.2	149	180	10.1	1.213	0.0492	39.2	2599	4752
Car	5	2000	60	0.006	26.0	17.9	25.1	21.2	3667	121.3	148	182	10.0	1.233	0.0497	38.8	2572	4711
Car	5	2001	82	0.009	25.9	18.0	24.2	20.9	3745	121.3	148	195	9.7	1.322	0.0522	39.4	2546	4765
Car	5	2002	77	0.009	27.0	18.4	25.5	21.8	3769	118.8	148	191	9.9	1.287	0.0507	41.0	2584	4881
Car	5	2003	36	0.004	26.8	18.1	25.6	21.6	3778	118.7	150	191	9.9	1.270	0.0506	40.9	2572	4866
Car	5	2004	110	0.013	26.8	18.0	25.4	21.6	3804	119.2	152	199	9.7	1.312	0.0524	41.1	2571	4896

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	4	2007	95.8%	3.1%	10.4%	74.7%	14.9%	0.5%	99.5%			2.7%		97.3%		70.1%	5.7%
Car	4	2008	94.8%	4.2%	9.4%	73.0%	17.6%	3.4%	96.6%			0.9%		99.1%		69.0%	5.8%
Car	4	2009	95.7%	3.9%	7.2%	78.9%	13.9%	2.9%	96.2%		0.9%	0.5%		99.5%		83.1%	4.3%
Car	4	2010	96.4%	3.3%	5.0%	74.8%	18.0%	5.9%	92.9%		1.3%	1.1%		98.9%		94.8%	7.8%
Car	4	2011	94.6%	5.1%	4.8%	79.0%	15.9%	17.1%	81.7%		1.2%	0.7%		99.3%		96.1%	5.1%
Car	4	2012	94.8%	3.8%	8.0%	70.6%	15.0%	28.1%	70.5%		1.4%	1.1%		98.9%		98.1%	7.0%
Car	5	1975									100.0%						
Car	5	1976									100.0%						
Car	5	1977									100.0%						
Car	5	1978	58.9%		8.1%				58.9%		41.1%						
Car	5	1979	40.4%		8.9%				38.0%		62.0%						
Car	5	1980	56.6%		18.5%				41.9%		58.1%						
Car	5	1981	51.0%		21.5%				40.8%		59.2%						
Car	5	1982	37.1%		11.0%				35.3%		64.7%						
Car	5	1983	32.2%	0.8%	11.7%				29.0%		71.0%						
Car	5	1984	65.8%	2.6%	18.2%				68.4%		31.6%						
Car	5	1985	63.1%	4.1%	15.6%				67.3%		32.7%						
Car	5	1986	84.9%	12.6%	28.4%				97.5%		2.5%	100.0%					
Car	5	1987	70.4%	24.0%	36.5%				94.4%		5.6%	100.0%					
Car	5	1988	60.5%	36.0%	56.1%				96.5%		3.5%	100.0%					
Car	5	1989	86.8%	10.9%	29.2%				97.7%		2.3%	100.0%					
Car	5	1990	74.5%	19.0%	30.8%				93.5%		6.5%	86.9%		13.1%			
Car	5	1991	69.0%	16.4%	24.5%	55.2%			85.4%		14.6%	86.2%		13.8%			
Car	5	1992	88.6%	1.1%	17.1%	72.5%			89.7%		10.3%	13.4%		86.6%			
Car	5	1993	93.3%	1.8%	15.7%	79.4%			100.0%			4.9%		95.1%		67.1%	
Car	5	1994	99.1%	0.9%	9.8%	90.2%			100.0%					100.0%		54.9%	
Car	5	1995	97.6%	2.4%	8.7%	91.3%			100.0%					100.0%		66.1%	
Car	5	1996	100.0%		4.8%	95.2%			100.0%					100.0%		53.2%	
Car	5	1997	100.0%		3.2%	96.8%			100.0%					100.0%		46.9%	
Car	5	1998	78.6%	21.4%	3.3%	96.7%			100.0%					100.0%		50.9%	
Car	5	1999	72.6%	27.4%	2.6%	97.4%			100.0%					100.0%		51.9%	
Car	5	2000	74.9%	25.1%	1.9%	98.1%			100.0%					100.0%		100.0%	
Car	5	2001	67.1%	32.9%	2.6%	97.4%			100.0%					100.0%		100.0%	
Car	5	2002	73.2%	26.8%	1.7%	98.3%			100.0%					100.0%		100.0%	
Car	5	2003	64.5%	25.1%	4.0%	96.0%			100.0%					100.0%		100.0%	
Car	5	2004	62.4%	37.6%	3.8%	96.2%			100.0%					100.0%		100.0%	

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	5	2005	134	0.015	27.6	18.3	26.1	22.1	3656	113.9	152	183	10.1	1.202	0.0498	40.4	2513	4602
Car	5	2006	190	0.022	28.5	18.8	27.2	22.8	3562	107.4	152	171	10.3	1.130	0.0480	40.6	2445	4366
Car	5	2007	201	0.022	28.6	18.9	27.2	22.9	3541	107.1	151	166	10.5	1.096	0.0468	40.5	2447	4336
Car	5	2008	175	0.021	29.5	19.5	28.0	23.6	3473	104.5	151	174	10.0	1.148	0.0500	40.9	2463	4275
Car	5	2009	120	0.019	29.5	19.6	27.8	23.5	3463	104.1	151	173	10.0	1.140	0.0498	40.7	2449	4239
Car	5	2010	103	0.015	30.8	20.5	28.5	24.4	3430	105.5	151	169	10.1	1.123	0.0494	41.9	2577	4424
Car	5	2011	113	0.016	32.3	23.0	30.9	26.9	3531	108.4	151	179	9.9	1.182	0.0506	47.6	2927	5156
Car	5	2012	220	0.026	32.0	22.2	30.6	26.3	3570	111.0	151	179	10.0	1.183	0.0501	47.0	2932	5219
Car	6	1975	1536	0.186	18.4	14.6	17.2	15.7	3626		225	105	15.7	0.485	0.0295	28.5		
Car	6	1976	1945	0.200	19.3	15.3	17.9	16.4	3717		231	100	16.7	0.445	0.0273	30.6		
Car	6	1977	1868	0.165	19.5	15.5	18.1	16.6	3755	106.5	229	105	16.0	0.471	0.0285	31.3	1777	3357
Car	6	1978	2339	0.209	20.2	15.8	19.1	17.2	3485	108.6	221	108	14.8	0.495	0.0311	30.0	1874	3267
Car	6	1979	2191	0.203	20.4	16.1	19.1	17.3	3422	108.8	218	109	14.4	0.507	0.0319	29.7	1892	3244
Car	6	1980	2644	0.280	21.6	16.9	20.6	18.4	3332	111.0	213	110	13.9	0.530	0.0334	30.7	2050	3411
Car	6	1981	2394	0.274	22.6	17.6	21.7	19.2	3382	111.6	215	110	14.1	0.522	0.0328	32.6	2153	3650
Car	6	1982	2082	0.266	23.0	17.7	22.5	19.6	3404	112.9	214	114	13.8	0.548	0.0338	33.5	2230	3802
Car	6	1983	1878	0.234	23.8	18.3	23.5	20.3	3374	111.1	210	116	13.6	0.566	0.0345	34.4	2270	3833
Car	6	1984	2506	0.234	24.0	18.4	23.8	20.5	3368	111.5	204	117	13.5	0.586	0.0349	34.6	2294	3863
Car	6	1985	2578	0.237	24.0	18.2	24.3	20.5	3391	112.2	205	124	12.9	0.618	0.0366	34.8	2310	3916
Car	6	1986	2745	0.248	24.9	18.6	25.4	21.2	3380	112.3	200	134	12.1	0.684	0.0397	35.9	2390	4046
Car	6	1987	2577	0.238	25.0	18.4	26.0	21.3	3417	113.1	198	143	11.6	0.733	0.0417	36.4	2419	4134
Car	6	1988	3090	0.285	25.7	18.8	26.6	21.8	3401	113.7	194	142	11.5	0.743	0.0418	37.2	2496	4245
Car	6	1989	3259	0.322	25.6	18.6	26.4	21.6	3426	114.9	195	146	11.4	0.759	0.0429	37.1	2494	4271
Car	6	1990	3043	0.343	25.4	18.3	26.3	21.4	3505	114.1	197	150	11.4	0.772	0.0431	37.6	2453	4297
Car	6	1991	2808	0.321	25.1	18.0	25.7	21.1	3513	114.3	200	156	11.0	0.789	0.0446	37.1	2419	4249
Car	6	1992	3254	0.390	25.1	17.9	25.8	21.0	3523	114.9	201	159	10.9	0.805	0.0453	37.1	2428	4275
Car	6	1993	3593	0.402	25.2	17.9	25.5	21.1	3529	115.0	203	161	10.8	0.802	0.0456	37.3	2434	4292
Car	6	1994	3382	0.387	25.2	17.8	25.5	21.0	3562	114.0	201	161	10.9	0.810	0.0452	37.5	2403	4277
Car	6	1995	3848	0.400	25.7	18.0	26.2	21.4	3550	113.7	197	173	10.3	0.883	0.0486	38.1	2443	4331
Car	6	1996	3246	0.397	25.7	17.9	26.0	21.3	3575	114.4	197	173	10.3	0.885	0.0484	38.1	2443	4366
Car	6	1997	3195	0.367	25.6	17.6	25.8	21.1	3596	115.1	199	180	10.1	0.911	0.0501	38.1	2441	4388
Car	6	1998	3452	0.410	25.6	17.6	25.6	21.1	3586	114.3	199	180	10.1	0.915	0.0502	37.9	2421	4338
Car	6	1999	3985	0.449	25.7	17.6	25.5	21.1	3615	114.3	196	186	9.9	0.961	0.0514	38.2	2417	4370
Car	6	2000	4409	0.453	25.6	17.5	25.3	21.0	3629	114.9	195	188	9.8	0.980	0.0520	38.2	2423	4393
Car	6	2001	3998	0.437	25.7	17.5	25.1	20.9	3629	114.8	194	194	9.5	1.010	0.0535	38.2	2416	4382
Car	6	2002	3708	0.416	26.1	17.7	25.3	21.2	3638	115.5	196	199	9.4	1.027	0.0548	38.7	2458	4469

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	5	2005	76.3%	23.7%	11.2%	88.8%			100.0%					100.0%		67.3%	
Car	5	2006	86.1%	13.9%	11.3%	88.7%			100.0%					100.0%		39.2%	
Car	5	2007	89.0%	11.0%	12.7%	87.3%			100.0%					100.0%		22.8%	
Car	5	2008	98.0%	2.0%	14.2%	85.8%			100.0%					100.0%		16.1%	
Car	5	2009	98.0%	2.0%	13.7%	86.3%			100.0%					100.0%		21.8%	
Car	5	2010	99.2%	0.8%	8.9%	91.1%			100.0%					100.0%		100.0%	
Car	5	2011	100.0%		9.0%	91.0%			100.0%					100.0%		93.3%	
Car	5	2012	99.8%	0.2%	10.5%	89.5%		0.2%	99.8%					100.0%		100.0%	
Car	6	1975			19.2%	0.1%			8.3%								
Car	6	1976			15.5%				4.6%								
Car	6	1977			12.6%				6.7%								
Car	6	1978			9.6%	8.2%			5.3%								
Car	6	1979	0.5%		9.3%	8.2%			6.9%								
Car	6	1980	22.0%	1.5%	8.2%	25.7%			4.3%		0.2%						
Car	6	1981	14.2%	0.8%	5.4%	58.8%			6.8%		0.3%						
Car	6	1982	19.5%	1.1%	5.4%	89.3%			9.8%	7.9%	2.6%						
Car	6	1983	22.2%	1.6%	6.8%	89.9%			12.2%		2.0%						
Car	6	1984	30.9%	0.9%	6.4%	91.5%			20.6%	8.6%	1.4%						
Car	6	1985	47.1%	0.0%	6.5%	92.5%			39.8%	20.9%	0.6%						
Car	6	1986	62.2%	0.3%	7.0%	91.0%			63.5%	16.7%	0.3%	98.9%		1.1%			
Car	6	1987	70.5%	0.2%	8.0%	89.2%			86.9%	9.9%	0.8%	96.1%		3.9%			
Car	6	1988	80.9%	0.2%	6.4%	92.0%			96.0%	3.9%		93.9%	0.9%	5.1%			
Car	6	1989	81.5%	0.3%	5.5%	92.5%			98.1%	1.9%		93.4%	0.7%	5.9%			
Car	6	1990	84.7%	0.1%	4.3%	94.0%			99.2%	0.7%	0.0%	91.7%	0.1%	8.2%			
Car	6	1991	82.4%	0.3%	5.1%	93.0%			97.4%	2.4%	0.1%	90.6%	0.1%	9.3%		0.5%	
Car	6	1992	83.5%	1.2%	4.9%	92.5%			98.8%	1.2%	0.0%	86.7%	0.3%	13.0%		2.9%	
Car	6	1993	79.9%	0.3%	4.6%	93.7%			99.9%	0.1%		83.6%		16.4%		2.4%	
Car	6	1994	80.0%	0.2%	5.0%	93.7%			99.9%	0.1%	0.0%	79.9%		20.1%		2.0%	
Car	6	1995	83.2%	0.2%	4.4%	94.0%			99.9%		0.1%	70.6%		29.4%		6.4%	
Car	6	1996	82.7%	0.6%	4.4%	94.3%			99.9%		0.1%	67.0%		33.0%		7.7%	
Car	6	1997	82.6%	0.5%	3.7%	96.3%			99.9%		0.1%	65.2%	0.4%	34.5%		9.2%	
Car	6	1998	78.6%	0.9%	4.1%	95.8%			99.9%		0.1%	65.6%	1.4%	31.9%	1.1%	11.9%	
Car	6	1999	79.8%	1.0%	4.0%	95.8%			99.9%		0.1%	52.2%	1.7%	44.4%	1.7%	15.1%	
Car	6	2000	76.7%	0.9%	4.8%	95.1%			100.0%			51.2%	1.2%	46.2%	1.5%	20.9%	
Car	6	2001	75.6%	2.7%	4.5%	95.4%			100.0%			50.9%	2.2%	44.5%	2.4%	22.5%	
Car	6	2002	79.1%	3.6%	3.6%	96.2%	0.1%		100.0%			45.3%	2.5%	50.2%	2.0%	21.6%	

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	6	2003	3503	0.412	26.4	17.7	25.6	21.4	3629	113.9	195	200	9.3	1.034	0.0553	38.9	2446	4439
Car	6	2004	3553	0.435	26.2	17.5	25.3	21.2	3727	115.6	200	209	9.2	1.056	0.0563	39.5	2456	4584
Car	6	2005	3541	0.401	26.3	17.4	25.2	21.1	3811	119.5	201	212	9.2	1.058	0.0557	40.4	2534	4840
Car	6	2006	3603	0.412	26.4	17.5	25.2	21.2	3863	118.7	202	222	9.0	1.106	0.0577	41.1	2523	4885
Car	6	2007	3292	0.366	26.4	17.5	25.3	21.2	3926	118.5	206	232	8.8	1.134	0.0593	41.8	2520	4960
Car	6	2008	2944	0.357	26.5	17.5	25.6	21.4	3971	117.7	206	240	8.6	1.174	0.0606	42.6	2521	5016
Car	6	2009	1643	0.263	26.9	17.8	25.8	21.6	3986	116.8	207	249	8.4	1.210	0.0627	43.3	2534	5058
Car	6	2010	1793	0.257	27.0	17.9	25.8	21.7	4044	118.1	206	258	8.2	1.257	0.0641	44.0	2566	5206
Car	6	2011	1921	0.277	27.8	18.3	26.7	22.3	4056	117.4	206	266	8.1	1.298	0.0659	45.4	2628	5346
Car	6	2012	1675	0.197	28.2	18.5	27.4	22.7	4030	115.1	209	281	7.6	1.349	0.0701	45.9	2616	5288
Car	8	1975	4842	0.587	13.4	10.5	12.9	11.5	4731		376	167	13.4	0.446	0.0354	27.3		
Car	8	1976	5730	0.589	15.1	11.9	14.4	12.9	4689		368	165	13.4	0.448	0.0352	30.3		
Car	8	1977	7134	0.630	16.2	12.7	15.3	13.8	4450	119.0	348	158	13.2	0.455	0.0356	30.8	1651	3665
Car	8	1978	5883	0.526	17.2	13.4	16.7	14.7	4166	119.2	336	154	12.8	0.460	0.0371	30.7	1777	3680
Car	8	1979	5357	0.496	17.6	13.8	16.7	15.0	4060	120.6	324	149	12.9	0.460	0.0368	30.6	1826	3698
Car	8	1980	2170	0.230	19.1	14.7	18.7	16.3	3920	120.6	309	135	13.6	0.439	0.0346	32.4	1999	3938
Car	8	1981	1778	0.204	20.2	15.4	20.3	17.3	3973	123.0	307	133	14.0	0.440	0.0337	34.9	2168	4331
Car	8	1982	1377	0.176	20.3	15.3	20.7	17.3	3940	123.4	305	139	13.5	0.457	0.0355	34.6	2169	4320
Car	8	1983	1859	0.231	20.1	15.1	20.6	17.2	3946	125.0	298	143	12.9	0.482	0.0364	34.0	2154	4274
Car	8	1984	2316	0.216	20.3	15.3	20.9	17.4	3914	122.3	300	144	12.8	0.483	0.0371	34.1	2130	4202
Car	8	1985	2229	0.205	21.7	16.3	22.4	18.6	3895	122.8	296	151	12.4	0.509	0.0389	36.2	2284	4471
Car	8	1986	1651	0.149	22.5	16.7	23.4	19.2	3813	120.2	299	153	12.0	0.511	0.0403	36.6	2315	4440
Car	8	1987	1387	0.128	22.2	16.4	22.9	18.9	3846	120.2	299	156	12.0	0.520	0.0407	36.3	2278	4406
Car	8	1988	1247	0.115	22.6	16.5	23.4	19.2	3854	121.5	301	164	11.6	0.544	0.0430	37.0	2338	4540
Car	8	1989	1071	0.106	22.7	16.5	23.6	19.2	3831	121.5	300	160	11.6	0.535	0.0423	36.9	2343	4523
Car	8	1990	812	0.092	22.3	16.1	23.3	18.9	3947	121.4	294	173	11.3	0.597	0.0441	37.3	2300	4568
Car	8	1991	905	0.103	22.8	16.3	23.7	19.2	3947	122.0	298	198	10.0	0.669	0.0504	37.9	2351	4673
Car	8	1992	951	0.114	22.9	16.3	23.8	19.3	4006	124.1	295	208	9.8	0.714	0.0523	38.7	2407	4848
Car	8	1993	870	0.097	22.2	15.7	23.1	18.7	4009	123.9	298	215	9.6	0.730	0.0542	37.7	2337	4712
Car	8	1994	933	0.107	22.9	16.1	23.7	19.2	3989	121.2	292	225	9.2	0.776	0.0566	38.3	2331	4679
Car	8	1995	1014	0.105	22.9	15.9	23.8	19.1	4005	120.3	289	230	9.0	0.803	0.0575	38.3	2307	4643
Car	8	1996	775	0.095	23.3	16.1	24.1	19.4	4018	122.9	289	241	8.7	0.841	0.0602	39.0	2385	4817
Car	8	1997	786	0.090	23.1	16.0	23.7	19.2	4001	122.2	280	247	8.5	0.889	0.0619	38.5	2353	4712
Car	8	1998	677	0.080	23.1	15.9	23.3	19.1	3971	117.6	281	256	8.3	0.916	0.0647	37.9	2249	4482
Car	8	1999	666	0.075	23.2	15.8	23.5	19.2	3968	119.0	283	251	8.4	0.890	0.0635	38.1	2285	4551
Car	8	2000	757	0.078	23.2	15.8	23.3	19.1	3986	117.6	281	276	7.7	0.986	0.0695	38.2	2259	4522

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	6	2003	75.0%	3.3%	4.8%	94.3%	0.9%		100.0%			46.7%	2.9%	48.4%	2.0%	29.4%	
Car	6	2004	75.8%	6.0%	4.0%	95.0%	0.9%		100.0%			40.1%	2.6%	56.0%	1.3%	33.1%	
Car	6	2005	71.4%	9.1%	2.6%	95.3%	2.1%		99.8%		0.2%	41.7%	2.4%	55.4%	0.4%	31.3%	0.5%
Car	6	2006	64.7%	7.9%	3.3%	94.4%	2.2%		99.8%		0.2%	30.7%	0.6%	68.5%	0.1%	48.8%	0.1%
Car	6	2007	69.0%	8.9%	2.6%	93.4%	4.0%		99.9%		0.1%	31.6%	0.1%	68.3%		60.5%	0.2%
Car	6	2008	63.7%	11.9%	2.3%	95.0%	2.7%	2.5%	97.4%		0.2%	25.3%	0.1%	74.7%		60.0%	0.0%
Car	6	2009	63.0%	12.5%	1.8%	91.5%	6.4%	7.5%	92.3%		0.2%	21.4%		78.6%		77.1%	0.0%
Car	6	2010	57.1%	14.0%	1.9%	91.9%	6.0%	18.5%	81.4%		0.1%	12.5%		87.5%		88.1%	0.4%
Car	6	2011	55.5%	16.9%	2.1%	92.5%	5.0%	21.9%	77.5%		0.5%	10.6%		89.4%		97.9%	0.2%
Car	6	2012	52.7%	16.7%	3.3%	91.6%	3.9%	40.4%	59.4%		0.2%			100.0%		99.9%	0.6%
Car	8	1975	1.7%		1.6%				0.7%								
Car	8	1976	2.0%		1.2%				1.4%								
Car	8	1977	1.8%		1.0%				1.1%								
Car	8	1978	2.1%		1.2%	9.5%			1.9%		0.6%						
Car	8	1979	3.7%		1.4%	12.9%			2.2%		2.6%						
Car	8	1980	7.6%		0.8%	40.5%			1.4%	3.0%	9.8%						
Car	8	1981	8.8%		1.1%	80.4%			0.8%	13.0%	16.8%						
Car	8	1982	5.5%		3.9%	90.8%			1.3%	9.1%	11.7%						
Car	8	1983	9.6%		3.5%	95.5%			1.0%	34.4%	2.2%						
Car	8	1984	9.3%		3.2%	95.8%			5.2%	32.5%	0.7%						
Car	8	1985	18.2%		2.5%	96.0%			5.1%	42.4%	0.1%						
Car	8	1986	12.2%		4.3%	93.2%			36.2%	12.2%		99.8%		0.2%			
Car	8	1987	14.2%		4.4%	92.4%			42.0%	13.9%		99.8%		0.2%			
Car	8	1988	16.4%		6.2%	91.5%			56.4%	19.8%		99.8%		0.2%			
Car	8	1989	21.2%		7.2%	90.3%			54.0%	36.9%		99.8%		0.2%			
Car	8	1990	28.4%		6.7%	91.4%			85.9%	10.1%		92.2%		7.8%		6.6%	
Car	8	1991	20.5%	0.1%	5.1%	92.7%			70.9%	29.1%		92.6%		7.4%		6.4%	
Car	8	1992	21.9%	0.0%	3.7%	94.3%			78.6%	21.4%		91.6%		8.4%		8.9%	
Car	8	1993	21.1%	0.0%	4.8%	93.5%			86.1%	13.9%		84.9%		15.1%		6.6%	
Car	8	1994	19.3%	0.0%	6.1%	92.3%			100.0%			78.1%		21.9%		7.2%	
Car	8	1995	24.1%		6.5%	91.4%			100.0%			73.5%		26.4%	0.1%	6.8%	
Car	8	1996	27.9%		6.7%	93.3%			100.0%			63.8%		36.2%	0.0%	5.4%	
Car	8	1997	28.0%	0.3%	5.2%	94.8%			100.0%			55.7%		44.2%	0.1%	12.7%	
Car	8	1998	32.3%	0.3%	7.1%	92.8%			100.0%			47.7%	0.8%	51.4%	0.1%	15.3%	
Car	8	1999	31.4%	0.3%	7.8%	92.1%			100.0%			55.2%	3.6%	41.0%	0.2%	8.5%	
Car	8	2000	21.5%	0.8%	8.1%	91.9%			100.0%			52.2%	4.9%	42.1%	0.9%	11.1%	

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	8	2001	682	0.075	23.4	15.7	23.4	19.2	3994	116.7	279	260	8.2	0.937	0.0656	38.3	2243	4501
Car	8	2002	618	0.069	23.4	15.8	23.1	19.2	4002	109.9	281	270	8.0	0.965	0.0680	38.4	2112	4253
Car	8	2003	630	0.074	23.3	15.6	23.0	19.0	4162	112.9	281	277	8.1	0.988	0.0673	39.6	2156	4540
Car	8	2004	568	0.069	23.1	15.3	22.9	18.8	4189	114.2	282	278	8.1	0.988	0.0672	39.5	2157	4574
Car	8	2005	580	0.066	23.2	15.3	22.7	18.8	4232	113.0	294	297	7.8	1.012	0.0712	39.9	2135	4573
Car	8	2006	677	0.077	22.8	15.1	22.5	18.6	4218	115.3	304	312	7.4	1.026	0.0746	39.3	2148	4569
Car	8	2007	516	0.057	22.7	14.9	22.5	18.5	4236	111.5	305	324	7.3	1.063	0.0775	39.2	2066	4420
Car	8	2008	469	0.057	22.4	14.8	22.2	18.3	4268	112.3	304	324	7.4	1.066	0.0769	39.1	2060	4436
Car	8	2009	238	0.038	22.3	14.7	22.0	18.1	4290	109.9	312	348	7.0	1.118	0.0820	39.1	2008	4348
Car	8	2010	283	0.041	23.3	15.3	23.2	19.0	4274	109.8	324	365	6.7	1.129	0.0864	40.7	2097	4513
Car	8	2011	288	0.042	23.3	15.3	23.3	19.0	4343	111.3	316	374	6.7	1.189	0.0872	41.4	2126	4649
Car	8	2012	310	0.036	23.5	15.4	23.4	19.1	4335	106.4	322	426	5.9	1.344	0.0992	41.6	2049	4491
Car	Other	1975	2	0.000	11.5	8.8	11.4	9.8	4500		326	285	8.2	0.874	0.0633	22.1		
Car	Other	1976	2	0.000	11.0	8.5	10.7	9.4	4500		326	244	9.3	0.748	0.0542	21.1		
Car	Other	1977	2	0.000	11.2	8.7	10.9	9.6	4445	91.6	326	244	9.2	0.748	0.0550	21.3	878	1948
Car	Other	1978	1	0.000	11.4	9.0	10.7	9.7	4500	93.4	326	268	8.6	0.822	0.0595	21.8	906	2038
Car	Other	1979	1	0.000	11.0	8.8	10.2	9.4	4500	92.4	326	244	9.3	0.748	0.0542	21.1	866	1949
Car	Other	1980	0	0.000	13.1	9.9	13.3	11.2	4224	89.5	326	267	8.2	0.818	0.0633	24.1	1027	2157
Car	Other	1981																
Car	Other	1982	1	0.000	16.5	12.4	17.0	14.1	4000	87.3	326	262	8.0	0.804	0.0655	28.3	1234	2468
Car	Other	1983	2	0.000	16.5	12.4	17.2	14.1	3989	86.5	325	264	8.0	0.813	0.0663	28.2	1226	2448
Car	Other	1984	3	0.000	16.6	12.4	17.1	14.2	3997	84.9	326	263	8.0	0.806	0.0657	28.3	1204	2408
Car	Other	1985	4	0.000	16.5	12.4	16.9	14.1	4000	84.1	325	265	7.9	0.816	0.0663	28.2	1189	2377
Car	Other	1986	5	0.000	16.2	12.1	16.7	13.9	3996	82.5	325	270	7.9	0.833	0.0676	27.9	1157	2313
Car	Other	1987	3	0.000	16.7	12.5	16.7	14.2	3991	75.4	324	276	7.8	0.855	0.0692	28.7	1094	2186
Car	Other	1988	9	0.001	16.1	11.9	16.4	13.7	4157	94.0	318	280	7.9	0.884	0.0674	28.6	1302	2731
Car	Other	1989	11	0.001	16.4	12.0	16.8	13.9	4310	85.4	318	279	8.1	0.880	0.0650	30.3	1204	2599
Car	Other	1990	9	0.001	16.8	12.2	17.2	14.2	4379	82.7	317	280	8.2	0.889	0.0642	31.2	1182	2589
Car	Other	1991	7	0.001	16.6	12.0	17.3	14.1	4409	87.0	312	305	7.7	0.977	0.0695	31.1	1234	2727
Car	Other	1992	5	0.001	16.3	11.8	16.7	13.7	4459	87.2	334	317	7.7	0.949	0.0715	30.7	1191	2691
Car	Other	1993	4	0.000	16.8	11.9	17.5	14.2	4412	81.0	377	364	6.8	0.981	0.0848	31.1	1131	2593
Car	Other	1994	7	0.001	17.2	12.1	17.7	14.4	4158	70.8	407	354	6.7	0.878	0.0876	30.0	1009	2150
Car	Other	1995	6	0.001	16.7	11.7	17.3	14.0	4432	82.3	390	373	6.6	0.975	0.0853	31.3	1160	2630
Car	Other	1996	4	0.001	18.3	12.6	19.3	15.4	4131	79.8	408	382	6.2	0.950	0.0952	31.8	1233	2669
Car	Other	1997	4	0.000	17.1	11.5	18.8	14.5	4218	75.6	403	405	6.0	1.018	0.0992	30.8	1112	2459
Car	Other	1998	4	0.000	17.5	11.9	18.6	14.7	4223	79.4	388	395	6.2	1.027	0.0963	31.4	1198	2626

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	8	2001	23.8%	1.3%	9.2%	90.8%			100.0%			47.2%	8.3%	43.5%	1.1%	15.2%	
Car	8	2002	23.6%	1.0%	10.9%	89.1%			100.0%			39.9%	8.0%	51.4%	0.6%	17.2%	
Car	8	2003	16.1%	1.4%	10.1%	89.9%			100.0%			46.0%	13.4%	39.9%	0.7%	14.7%	
Car	8	2004	14.7%	6.7%	9.9%	90.1%			100.0%			45.7%	9.0%	42.1%	3.3%	23.0%	
Car	8	2005	11.1%	6.4%	10.4%	89.4%			100.0%			46.8%	16.7%	33.9%	2.6%	31.1%	
Car	8	2006	17.3%	5.1%	8.8%	90.8%			100.0%			49.4%	19.0%	30.0%	1.5%	29.0%	
Car	8	2007	15.5%	6.0%	13.4%	86.5%			100.0%			40.6%	14.3%	44.7%	0.4%	32.1%	
Car	8	2008	14.6%	6.4%	13.3%	86.1%		4.5%	95.5%			42.6%	9.1%	48.0%	0.3%	34.0%	0.5%
Car	8	2009	9.4%	7.8%	14.0%	85.0%		6.0%	94.0%			46.6%	8.7%	44.6%	0.0%	50.5%	0.1%
Car	8	2010	6.0%	10.1%	22.2%	76.7%	0.0%	9.0%	91.0%			55.3%	8.0%	36.7%		61.2%	0.0%
Car	8	2011	6.5%	12.1%	15.4%	82.1%	0.0%	22.0%	78.0%			46.6%	7.9%	45.5%		58.1%	0.2%
Car	8	2012		15.0%	21.5%	76.6%	0.1%	43.6%	56.4%			38.5%	11.0%	50.6%		82.8%	0.5%
Car	Other	1975							100.0%								
Car	Other	1976							100.0%								
Car	Other	1977			10.9%				100.0%								
Car	Other	1978							100.0%								
Car	Other	1979							100.0%								
Car	Other	1980			11.5%				64.5%								
Car	Other	1981															
Car	Other	1982							100.0%								
Car	Other	1983			2.2%				100.0%								
Car	Other	1984			0.6%				100.0%								
Car	Other	1985			2.8%				100.0%								
Car	Other	1986			6.4%				100.0%			93.6%		6.4%			
Car	Other	1987			11.0%				100.0%			89.0%		11.0%			
Car	Other	1988			5.4%	32.7%			100.0%			94.6%		5.4%			
Car	Other	1989			3.9%	33.8%			98.4%	1.6%		96.1%		3.9%			
Car	Other	1990			4.8%	37.0%			100.0%			95.2%		4.8%			
Car	Other	1991	1.6%		12.2%	53.4%			100.0%			94.7%		5.3%			
Car	Other	1992		1.1%	14.4%	24.4%			100.0%			73.6%		26.4%		20.6%	
Car	Other	1993		0.4%	30.9%	25.9%			100.0%			56.6%		43.4%		40.5%	
Car	Other	1994		1.5%	40.5%	36.8%			100.0%			75.0%		25.0%		24.9%	
Car	Other	1995		0.8%	33.1%	30.4%			100.0%			57.6%		42.4%		53.5%	
Car	Other	1996		0.6%	44.5%	55.5%			100.0%			73.1%		26.9%		55.5%	
Car	Other	1997		1.8%	40.8%	59.2%			100.0%			52.8%		47.2%		61.6%	
Car	Other	1998		2.9%	37.0%	63.0%			100.0%			60.3%		39.7%		67.2%	

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Car	Other	1999	3	0.000	16.1	10.9	17.2	13.5	4274	75.2	394	412	6.1	1.062	0.1002	29.4	1044	2364
Car	Other	2000	4	0.000	16.4	10.9	17.8	13.8	4150	71.5	405	412	5.9	1.033	0.1032	28.9	1001	2188
Car	Other	2001	6	0.001	17.5	11.6	18.8	14.7	4239	86.4	389	398	6.2	1.034	0.0968	32.1	1347	2983
Car	Other	2002	4	0.001	18.3	12.1	19.4	15.3	4075	82.3	376	389	6.3	1.056	0.0973	32.6	1379	2875
Car	Other	2003	5	0.001	17.2	11.3	18.3	14.3	4091	82.3	403	477	5.2	1.216	0.1192	30.1	1230	2639
Car	Other	2004	8	0.001	16.3	10.6	17.3	13.6	4322	74.1	391	496	5.2	1.311	0.1194	29.8	1034	2398
Car	Other	2005	10	0.001	16.3	10.7	17.1	13.6	4630	82.2	385	524	5.2	1.390	0.1164	31.6	1124	2717
Car	Other	2006	16	0.002	16.5	10.7	17.3	13.7	4628	98.1	358	515	5.3	1.468	0.1142	31.7	1347	3182
Car	Other	2007	17	0.002	16.7	10.9	17.3	13.9	4907	101.2	338	525	5.5	1.557	0.1084	34.1	1419	3511
Car	Other	2008	14	0.002	16.8	11.0	17.5	13.9	4646	94.5	353	531	5.1	1.528	0.1174	32.5	1324	3129
Car	Other	2009	5	0.001	17.3	11.4	17.8	14.3	4680	85.6	370	541	5.1	1.489	0.1193	33.5	1223	2957
Car	Other	2010	5	0.001	17.4	11.4	17.8	14.1	4808	91.7	365	536	5.3	1.487	0.1150	33.9	1294	3195
Car	Other	2011	5	0.001	18.0	12.2	18.6	15.2	4922	86.6	356	548	5.2	1.548	0.1143	37.4	1326	3446
Car	Other	2012	7	0.001	18.0	12.0	18.7	15.1	4904	91.7	363	555	5.2	1.537	0.1154	37.2	1394	3543
Van	4	1975	2	0.004	20.6	16.2	19.6	17.5	3498		118	78	19.1	0.656	0.0224	30.7		
Van	4	1976	2	0.003	19.9	15.1	20.1	17.0	3500		120	67	20.9	0.558	0.0191	29.8		
Van	4	1977	2	0.004	22.2	17.2	21.5	18.9	3500		120	67	20.8	0.558	0.0191	33.1		
Van	4	1978	3	0.004	20.0	15.7	19.1	17.0	3500		120	67	20.9	0.558	0.0191	29.8		
Van	4	1979	8	0.018	18.7	14.8	17.6	16.0	3500		120	67	20.9	0.558	0.0191	28.0		
Van	4	1980	16	0.065	19.0	14.7	18.6	16.2	3619		120	67	21.4	0.558	0.0186	29.4		
Van	4	1981	11	0.046	18.5	14.6	17.4	15.8	3644		120	67	21.6	0.558	0.0185	28.7		
Van	4	1982	15	0.048	21.7	17.7	19.4	18.4	3668		111	61	23.4	0.550	0.0168	35.6		
Van	4	1983	14	0.037	19.7	15.6	18.4	16.8	3567		118	69	20.9	0.583	0.0194	30.3		
Van	4	1984	217	0.321	24.7	19.7	22.8	21.0	3380		136	94	15.8	0.694	0.0281	35.7		
Van	4	1985	341	0.399	24.0	19.2	22.1	20.4	3409		142	97	15.5	0.690	0.0287	34.9		
Van	4	1986	354	0.339	24.7	19.6	22.9	20.9	3425		146	99	15.4	0.681	0.0290	36.0		
Van	4	1987	268	0.241	24.6	19.3	22.7	20.7	3401		143	100	15.2	0.702	0.0296	35.4		
Van	4	1988	143	0.127	25.3	19.8	23.2	21.3	3464		145	98	15.7	0.678	0.0283	37.0		
Van	4	1989	224	0.176	24.7	19.2	22.6	20.7	3505		149	110	14.7	0.743	0.0316	36.3		
Van	4	1990	102	0.080	25.5	19.5	23.6	21.3	3544		149	109	15.0	0.736	0.0310	37.9		
Van	4	1991	146	0.141	23.9	18.2	22.2	19.9	3791		148	120	14.5	0.814	0.0316	37.8		
Van	4	1992	141	0.116	25.0	18.8	23.2	20.7	3588		145	117	14.1	0.812	0.0325	37.2		
Van	4	1993	92	0.064	24.6	18.3	23.1	20.4	3638		147	118	14.2	0.809	0.0324	37.2		
Van	4	1994	66	0.046	24.7	18.3	23.0	20.4	3604		149	116	14.4	0.782	0.0322	36.8		
Van	4	1995	88	0.053	25.1	18.6	22.9	20.6	3621		143	131	13.2	0.921	0.0360	37.2		
Van	4	1996	66	0.047	24.8	18.2	22.9	20.3	3817		142	149	12.1	1.050	0.0392	38.9		

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Car	Other	1999		5.2%	47.1%	52.9%			100.0%			54.2%		45.8%		58.9%	
Car	Other	2000			56.6%	43.4%			100.0%			46.1%		53.9%		33.8%	
Car	Other	2001		2.7%	39.7%	60.3%			100.0%			43.3%	38.9%	17.9%		21.8%	
Car	Other	2002	8.1%	2.2%	37.7%	54.2%	8.1%		100.0%			40.2%	40.8%	19.0%		10.2%	
Car	Other	2003	1.7%	1.6%	48.6%	49.7%	1.7%		100.0%			37.9%	25.6%	36.5%		22.0%	
Car	Other	2004		32.5%	37.6%	62.4%			100.0%				22.4%	77.6%		49.5%	
Car	Other	2005		37.1%	24.9%	75.1%			100.0%			16.5%	20.9%	60.3%	2.3%	80.0%	
Car	Other	2006		31.2%	12.1%	87.9%			100.0%			10.5%	8.8%	78.8%	1.0%	89.4%	
Car	Other	2007		41.6%	5.1%	94.9%			100.0%				20.6%	79.4%		68.3%	
Car	Other	2008		39.7%	18.5%	81.5%		12.9%	87.1%			9.9%	4.2%	85.9%		78.5%	
Car	Other	2009		33.8%	19.0%	78.2%		15.2%	84.8%			11.4%	12.7%	75.9%		58.4%	
Car	Other	2010		39.3%	13.0%	74.3%		33.1%	66.9%			7.2%	7.0%	85.8%		93.1%	
Car	Other	2011		51.1%	12.9%	61.4%		56.6%	43.4%				7.8%	92.2%		85.3%	
Car	Other	2012		56.3%	9.6%	81.6%		49.0%	51.0%				3.5%	96.5%		78.2%	
Van	4	1975			43.3%					61.1%							
Van	4	1976			84.8%					100.0%							
Van	4	1977			89.9%					100.0%							
Van	4	1978			85.0%					100.0%							
Van	4	1979			81.2%					100.0%							
Van	4	1980			82.9%					100.0%							
Van	4	1981			81.2%					100.0%							
Van	4	1982			89.0%					61.7%	38.3%						
Van	4	1983	4.2%		76.9%					93.6%	6.4%						
Van	4	1984	69.5%		30.2%	19.1%			20.7%	9.8%	0.9%						
Van	4	1985	76.0%	0.9%	19.9%	15.3%			15.8%	7.4%							
Van	4	1986	72.0%	3.8%	17.8%	19.9%			21.8%	2.4%							
Van	4	1987	59.8%	8.0%	19.1%	32.5%			31.1%	10.3%							
Van	4	1988	67.7%	6.2%	18.1%	27.8%			31.6%	68.4%							
Van	4	1989	83.9%	3.4%	9.5%	14.2%			46.0%	54.0%							
Van	4	1990	80.2%	6.9%	17.3%	70.3%			44.7%	55.3%							
Van	4	1991	34.0%	11.2%	7.6%	90.6%			70.4%	29.6%							
Van	4	1992	61.9%	9.4%	11.9%	88.1%			62.0%	38.0%							
Van	4	1993	59.8%	4.7%	9.8%	90.2%			53.1%	46.9%							
Van	4	1994	66.7%	10.1%	7.8%	92.2%			44.2%	55.8%		62.9%	7.4%	29.8%			
Van	4	1995	71.1%	10.6%	1.3%	98.7%			67.4%	32.6%		32.6%		67.4%			
Van	4	1996	87.7%	1.8%	0.1%	99.9%			100.0%					100.0%			

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	4	1997	67	0.053	24.9	18.1	22.9	20.3	3831		142	144	12.5	1.008	0.0375	39.0		
Van	4	1998	140	0.094	25.2	17.8	24.0	20.6	3941		165	173	11.1	1.047	0.0439	40.7		
Van	4	1999	132	0.090	24.8	17.4	23.5	20.2	3999		166	171	11.4	1.027	0.0428	40.4		
Van	4	2000	62	0.037	26.0	18.2	24.4	21.1	4000		148	150	12.5	1.014	0.0375	42.1		
Van	4	2001	29	0.023	25.4	18.0	22.9	20.4	4000		148	150	12.5	1.014	0.0375	40.8		
Van	4	2002	38	0.031	25.6	17.6	24.2	20.7	4000		148	150	12.5	1.014	0.0375	41.4		
Van	4	2003	21	0.017	26.9	18.4	25.1	21.6	4000		148	150	12.5	1.014	0.0375	43.2		
Van	4	2004	6	0.006	25.9	17.5	24.2	20.8	4000		148	150	12.5	1.014	0.0375	41.5		
Van	4	2005	20	0.014	25.9	17.4	24.1	20.7	4000		148	150	12.5	1.014	0.0375	41.4		
Van	4	2006	18	0.015	25.9	17.4	24.1	20.7	4000		148	150	12.5	1.014	0.0375	41.4		
Van	4	2007	8	0.010	25.9	17.4	24.3	20.8	4000		148	150	12.5	1.014	0.0375	41.5		
Van	4	2008	16	0.021	30.7	20.9	27.3	24.1	3500		140	153	11.1	1.093	0.0437	42.2		
Van	4	2009	22	0.060	30.3	20.7	26.8	23.8	3500		140	153	11.1	1.093	0.0437	41.6		
Van	4	2010	57	0.102	30.5	21.4	25.7	23.6	3500		128	145	11.6	1.128	0.0413	41.4		
Van	4	2011	36	0.068	30.0	20.5	25.4	23.1	3709		131	150	11.8	1.147	0.0403	42.6		
Van	4	2012	52	0.077	30.5	20.8	26.5	23.7	3575		125	140	12.1	1.117	0.0391	42.4		
Van	5	1975																
Van	5	1976																
Van	5	1977																
Van	5	1978																
Van	5	1979																
Van	5	1980																
Van	5	1981																
Van	5	1982																
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Van	5	1988																
Van	5	1989																
Van	5	1990																
Van	5	1991																
Van	5	1992																
Van	5	1993	11	0.007	21.0	16.0	19.0	17.4	4157		150	109	16.6	0.727	0.0263	36.1		
Van	5	1994	0	0.000	20.1	15.1	18.6	16.6	4260		150	109	16.8	0.727	0.0257	35.4		

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	4	1997	92.7%	2.0%		100.0%			100.0%					100.0%			
Van	4	1998	100.0%			100.0%			100.0%					100.0%			
Van	4	1999	100.0%			100.0%			100.0%					100.0%		52.7%	
Van	4	2000	100.0%			100.0%			100.0%					100.0%			
Van	4	2001	100.0%			100.0%			100.0%					100.0%			
Van	4	2002	100.0%			100.0%			100.0%					100.0%			
Van	4	2003	100.0%			100.0%			100.0%					100.0%			
Van	4	2004	100.0%			100.0%			100.0%					100.0%			
Van	4	2005	100.0%			100.0%			100.0%					100.0%			
Van	4	2006	100.0%			100.0%			100.0%					100.0%			
Van	4	2007	100.0%			100.0%			100.0%					100.0%			
Van	4	2008	100.0%		4.9%	95.1%			100.0%					100.0%		100.0%	
Van	4	2009	100.0%		4.8%	95.2%			100.0%					100.0%		100.0%	
Van	4	2010	100.0%		2.4%	97.6%			100.0%					100.0%		35.3%	
Van	4	2011	100.0%			100.0%			100.0%					100.0%		20.9%	
Van	4	2012	100.0%			100.0%			100.0%					100.0%		7.5%	
Van	5	1975															
Van	5	1976															
Van	5	1977															
Van	5	1978															
Van	5	1979															
Van	5	1980															
Van	5	1981															
Van	5	1982															
Van	5	1983															
Van	5	1984															
Van	5	1985															
Van	5	1986															
Van	5	1987															
Van	5	1988															
Van	5	1989															
Van	5	1990															
Van	5	1991															
Van	5	1992															
Van	5	1993	100.0%		35.7%	64.3%			100.0%								
Van	5	1994	100.0%		48.0%	52.0%			100.0%			100.0%					

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	5	1995	2	0.001	19.6	14.8	17.5	16.1	5000		150	109	19.1	0.727	0.0218	40.2		
Van	5	1996																
Van	5	1997																
Van	5	1998																
Van	5	1999																
Van	5	2000																
Van	5	2001																
Van	5	2002																
Van	5	2003																
Van	5	2004																
Van	5	2005																
Van	5	2006																
Van	5	2007																
Van	5	2008																
Van	5	2009																
Van	5	2010																
Van	5	2011																
Van	5	2012																
Van	6	1975	117	0.256	16.3	13.0	14.9	13.8	3967		271	102	16.9	0.380	0.0257	27.8		
Van	6	1976	128	0.255	17.4	14.1	15.6	14.7	4023		271	102	17.1	0.380	0.0253	29.9		
Van	6	1977	107	0.208	18.0	14.7	16.1	15.3	4039		278	113	15.9	0.408	0.0280	30.9		
Van	6	1978	152	0.244	17.2	14.1	15.3	14.6	4086		280	120	15.3	0.430	0.0293	30.0		
Van	6	1979	96	0.200	16.6	13.6	14.7	14.1	4233		263	121	15.5	0.465	0.0287	30.1		
Van	6	1980	114	0.473	18.4	14.7	16.9	15.6	4183		266	118	15.6	0.449	0.0284	32.7		
Van	6	1981	120	0.488	18.7	15.0	17.1	15.9	4191		268	117	15.9	0.438	0.0279	33.3		
Van	6	1982	121	0.389	18.7	15.0	17.3	15.9	4181		266	111	16.5	0.419	0.0266	33.4		
Van	6	1983	118	0.307	18.9	15.1	17.4	16.1	4206		265	110	16.7	0.418	0.0263	33.9		
Van	6	1984	144	0.214	18.6	14.7	17.4	15.8	4118		272	112	16.2	0.413	0.0273	32.8		
Van	6	1985	182	0.213	20.6	16.2	19.6	17.6	4002		270	136	13.8	0.509	0.0343	35.4		
Van	6	1986	391	0.374	20.9	16.1	20.1	17.7	4049		237	132	14.2	0.574	0.0327	36.0		
Van	6	1987	567	0.509	21.8	16.8	21.0	18.5	3931		219	149	12.5	0.703	0.0381	36.4		
Van	6	1988	735	0.649	22.2	16.8	21.6	18.8	3940		213	149	12.5	0.722	0.0380	37.0		
Van	6	1989	777	0.608	22.1	16.7	21.4	18.6	3993		212	146	12.8	0.713	0.0367	37.3		
Van	6	1990	935	0.741	22.2	16.6	21.4	18.6	4011		208	144	13.0	0.705	0.0360	37.4		
Van	6	1991	742	0.718	22.0	16.5	21.1	18.4	4084		212	147	13.0	0.706	0.0360	37.8		
Van	6	1992	902	0.739	22.1	16.4	21.2	18.5	4118		213	149	13.0	0.711	0.0362	38.1		

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	5	1995	100.0%		43.8%	56.2%			100.0%			100.0%					
Van	5	1996															
Van	5	1997															
Van	5	1998															
Van	5	1999															
Van	5	2000															
Van	5	2001															
Van	5	2002															
Van	5	2003															
Van	5	2004															
Van	5	2005															
Van	5	2006															
Van	5	2007															
Van	5	2008															
Van	5	2009															
Van	5	2010															
Van	5	2011															
Van	5	2012															
Van	6	1975			16.8%												
Van	6	1976			21.7%												
Van	6	1977			15.5%												
Van	6	1978			14.0%												
Van	6	1979			43.1%	9.2%											
Van	6	1980			40.3%	33.0%											
Van	6	1981			34.6%	35.1%											
Van	6	1982			27.5%	38.3%											
Van	6	1983			26.6%	40.8%											
Van	6	1984			22.2%	44.4%											
Van	6	1985			8.4%	71.0%											
Van	6	1986			6.3%	76.7%			19.1%	41.2%	0.5%						
Van	6	1987	25.9%		3.5%	86.7%			63.4%	33.6%							
Van	6	1988	42.7%		2.2%	90.7%			70.2%	29.8%							
Van	6	1989	32.2%	0.2%	2.1%	91.8%			71.0%	29.0%							
Van	6	1990	54.4%	8.1%	0.6%	96.0%			66.6%	33.4%							
Van	6	1991	46.5%	13.0%	0.4%	97.4%			68.2%	31.8%							
Van	6	1992	51.7%	6.0%	0.3%	98.1%			76.9%	23.1%							

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	6	1993	1174	0.815	22.5	16.5	21.7	18.7	4047		208	152	12.6	0.742	0.0377	37.8		
Van	6	1994	1161	0.818	22.2	16.2	21.2	18.4	4085		213	154	12.5	0.734	0.0378	37.7		
Van	6	1995	1375	0.828	22.5	16.2	21.7	18.6	4050		222	155	12.4	0.711	0.0384	37.7		
Van	6	1996	1230	0.873	22.7	16.2	21.9	18.7	4148		214	167	11.9	0.788	0.0405	38.9		
Van	6	1997	1069	0.845	22.5	16.0	21.6	18.5	4178		213	169	11.9	0.800	0.0406	38.8		
Van	6	1998	1250	0.839	23.0	16.2	22.2	18.9	4136		215	177	11.4	0.826	0.0428	39.1		
Van	6	1999	1200	0.820	22.7	15.8	21.9	18.6	4254		218	178	11.5	0.822	0.0420	39.6		
Van	6	2000	1523	0.901	23.1	16.1	22.2	18.9	4235		212	180	11.4	0.860	0.0427	40.1		
Van	6	2001	961	0.780	23.6	16.3	22.5	19.2	4310		210	192	11.0	0.920	0.0446	41.5		
Van	6	2002	1141	0.917	23.4	16.1	22.2	19.0	4368		214	199	10.8	0.936	0.0456	41.6		
Van	6	2003	1148	0.932	23.8	16.2	22.6	19.2	4345		215	199	10.7	0.933	0.0459	41.9		
Van	6	2004	907	0.951	23.9	16.1	23.0	19.4	4448		215	212	10.4	0.994	0.0478	43.2		
Van	6	2005	1425	0.963	24.1	16.1	22.9	19.4	4413		214	209	10.5	0.979	0.0473	42.9		
Van	6	2006	1103	0.946	24.5	16.3	23.4	19.7	4451		214	211	10.5	0.989	0.0473	44.0		
Van	6	2007	820	0.967	24.3	16.2	23.2	19.6	4471		219	226	10.0	1.038	0.0505	43.8		
Van	6	2008	764	0.967	24.6	16.4	23.5	19.8	4533		220	221	10.4	1.009	0.0488	45.0		
Van	6	2009	340	0.925	24.8	16.6	23.7	20.0	4623		218	224	10.4	1.031	0.0484	46.3		
Van	6	2010	496	0.886	24.6	16.4	23.7	19.9	4635		223	219	10.5	0.988	0.0472	46.2		
Van	6	2011	475	0.911	26.3	17.5	24.9	21.1	4528		216	266	8.8	1.237	0.0589	47.9		
Van	6	2012	610	0.891	26.4	17.5	25.3	21.2	4519		217	269	8.7	1.238	0.0596	48.0		
Van	8	1975	339	0.741	12.2	9.9	11.1	10.4	4278		334	158	12.8	0.470	0.0370	22.5		
Van	8	1976	373	0.742	12.9	10.3	12.0	11.0	4263		342	161	12.5	0.470	0.0380	23.6		
Van	8	1977	405	0.788	14.0	11.4	12.7	11.9	4313		347	163	12.5	0.471	0.0380	25.8		
Van	8	1978	470	0.752	13.5	11.0	12.0	11.4	4307		346	159	12.7	0.460	0.0371	24.8		
Van	8	1979	376	0.782	12.9	10.5	11.4	10.9	4643		342	152	14.2	0.445	0.0328	25.6		
Van	8	1980	112	0.462	14.9	11.9	13.7	12.7	4630		334	152	14.0	0.456	0.0330	29.4		
Van	8	1981	114	0.466	16.3	13.0	15.0	13.8	4530		317	148	14.0	0.469	0.0328	31.5		
Van	8	1982	175	0.563	16.2	13.0	14.8	13.8	4511		316	153	13.6	0.486	0.0340	31.3		
Van	8	1983	251	0.656	17.1	13.6	16.0	14.6	4560		318	152	13.9	0.481	0.0335	33.9		
Van	8	1984	315	0.465	16.4	13.0	15.5	14.0	4534		317	154	13.7	0.487	0.0341	32.2		
Van	8	1985	332	0.389	15.9	12.6	14.7	13.5	4542		314	158	13.4	0.501	0.0348	30.9		
Van	8	1986	300	0.287	16.9	13.4	15.8	14.4	4607		312	155	13.7	0.497	0.0338	33.2		
Van	8	1987	280	0.251	16.9	13.1	16.0	14.3	4603		319	167	13.1	0.521	0.0363	33.0		
Van	8	1988	255	0.225	17.2	13.2	16.4	14.6	4708		323	168	13.2	0.520	0.0359	34.4		
Van	8	1989	276	0.216	17.0	12.9	16.3	14.3	4689		326	174	12.9	0.533	0.0374	33.8		
Van	8	1990	226	0.179	17.1	12.9	16.4	14.4	4692		332	187	12.2	0.560	0.0400	33.8		

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	6	1993	55.5%	5.2%	0.3%	97.9%			84.9%	15.1%							
Van	6	1994	60.1%	7.3%	0.1%	98.3%			85.9%	14.1%		97.8%	2.2%				
Van	6	1995	69.4%	10.3%		98.6%			94.6%	5.4%		98.8%	1.2%				
Van	6	1996	79.8%	2.6%		98.7%			100.0%			98.8%	1.2%				
Van	6	1997	70.9%	5.4%		100.0%			100.0%			98.8%	1.2%				
Van	6	1998	82.2%	3.9%		100.0%			100.0%			98.8%		1.2%			
Van	6	1999	81.7%	3.3%		100.0%			100.0%			95.8%		4.2%		4.2%	
Van	6	2000	85.5%	3.0%		100.0%			100.0%			80.0%		20.0%		16.7%	
Van	6	2001	85.9%	3.2%		100.0%			100.0%			74.1%		25.9%		21.8%	
Van	6	2002	88.6%	3.3%		100.0%			100.0%			72.4%		27.6%		22.7%	
Van	6	2003	87.9%	4.8%		100.0%			100.0%			74.1%		25.9%		21.0%	
Van	6	2004	90.4%	4.7%		100.0%			100.0%			45.7%		54.3%		48.5%	
Van	6	2005	91.2%	5.4%		94.7%	5.3%		100.0%			62.0%		38.0%		26.0%	
Van	6	2006	93.3%	4.4%		95.0%	5.0%		100.0%			52.2%		47.8%		38.5%	
Van	6	2007	94.9%	2.5%		95.4%	4.6%		100.0%			46.2%		53.8%		50.4%	
Van	6	2008	93.9%	3.7%		100.0%			100.0%			47.5%		52.5%		47.6%	
Van	6	2009	95.2%	2.0%		100.0%			100.0%			42.9%		57.1%		44.4%	
Van	6	2010	97.1%	1.2%		100.0%			100.0%			53.1%		46.9%		37.1%	
Van	6	2011	92.9%	5.6%		96.6%	3.4%		100.0%			1.5%		98.5%		98.5%	
Van	6	2012	95.3%	2.8%		90.7%	9.3%		100.0%			1.9%		98.1%		98.1%	
Van	8	1975			25.5%												
Van	8	1976			19.9%												
Van	8	1977			13.6%												
Van	8	1978			12.3%												
Van	8	1979			6.1%	6.3%											
Van	8	1980			3.3%	50.6%											
Van	8	1981	0.7%		2.8%	63.3%											
Van	8	1982			1.4%	54.9%											
Van	8	1983			1.6%	71.3%					6.5%						
Van	8	1984			2.2%	64.4%					2.0%						
Van	8	1985	0.1%		0.7%	67.4%			0.1%		0.8%						
Van	8	1986	0.1%		0.4%	85.7%			25.5%	0.1%	0.6%						
Van	8	1987			0.2%	62.6%			24.4%	42.5%	0.3%						
Van	8	1988			0.1%	72.5%			32.8%	65.7%	0.5%						
Van	8	1989			0.1%	84.1%			31.5%	68.1%	0.3%						
Van	8	1990				93.5%			28.8%	70.8%	0.4%						

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	8	1991	146	0.141	17.1	12.7	16.5	14.3	4724		331	186	12.2	0.560	0.0397	33.9		
Van	8	1992	178	0.146	17.0	12.7	16.3	14.2	4769		332	196	11.8	0.590	0.0416	34.1		
Van	8	1993	164	0.114	17.5	12.8	16.9	14.6	4784		334	202	11.4	0.606	0.0425	34.9		
Van	8	1994	191	0.135	17.2	12.6	16.6	14.4	4777		332	207	11.2	0.626	0.0437	34.3		
Van	8	1995	197	0.119	17.4	12.7	16.7	14.5	4734		336	199	11.5	0.594	0.0423	34.3		
Van	8	1996	113	0.080	17.2	12.4	16.6	14.3	4930		333	219	11.0	0.660	0.0447	35.3		
Van	8	1997	130	0.102	18.0	12.9	17.3	14.9	4963		322	228	10.7	0.709	0.0461	37.1		
Van	8	1998	100	0.067	17.9	12.7	17.3	14.8	5107		322	231	10.8	0.720	0.0454	37.8		
Van	8	1999	131	0.090	17.8	12.5	17.2	14.6	5099		322	233	10.7	0.726	0.0458	37.3		
Van	8	2000	106	0.063	17.7	12.5	16.9	14.5	5024		322	237	10.4	0.738	0.0473	36.6		
Van	8	2001	243	0.197	17.6	12.3	16.9	14.4	5405		313	248	10.7	0.795	0.0460	39.0		
Van	8	2002	64	0.052	17.4	12.3	16.1	14.2	5078		321	241	10.4	0.753	0.0476	36.2		
Van	8	2003	64	0.052	18.3	12.9	16.7	14.8	5399		320	261	10.2	0.819	0.0485	40.0		
Van	8	2004	40	0.042	19.1	13.3	17.5	15.4	5446		307	259	10.4	0.843	0.0476	42.0		
Van	8	2005	35	0.024	19.0	13.2	17.4	15.3	5366		303	256	10.4	0.844	0.0478	41.0		
Van	8	2006	46	0.039	19.0	13.2	17.3	15.3	5257		295	248	10.5	0.839	0.0472	40.1		
Van	8	2007	19	0.023	21.1	14.4	19.7	17.0	5054		270	244	10.4	0.902	0.0478	42.9		
Van	8	2008	10	0.012	18.4	12.9	16.5	14.8	5751		325	306	9.5	0.941	0.0532	42.4		
Van	8	2009	5	0.015	17.8	12.5	15.9	14.2	5758		325	301	9.6	0.926	0.0524	41.0		
Van	8	2010	7	0.012	18.4	12.9	16.7	14.8	5783		323	301	9.6	0.932	0.0521	42.8		
Van	8	2011	11	0.020	17.7	12.3	16.2	14.3	5940		318	281	10.5	0.883	0.0475	42.4		
Van	8	2012	22	0.032	18.0	12.4	16.6	14.5	5675		312	273	10.4	0.875	0.0483	41.1		
Van	Other	1975																
Van	Other	1976																
Van	Other	1977																
Van	Other	1978																
Van	Other	1979																
Van	Other	1980																
Van	Other	1981																
Van	Other	1982																
Van	Other	1983																
Van	Other	1984																
Van	Other	1985																
Van	Other	1986																
Van	Other	1987																
Van	Other	1988																

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	8	1991				98.0%			31.7%	67.8%	0.5%						
Van	8	1992				94.5%			53.9%	45.7%	0.4%						
Van	8	1993		0.3%		97.8%			50.5%	49.5%							
Van	8	1994				94.1%			65.7%	34.3%		100.0%					
Van	8	1995				96.1%			45.7%	54.3%		100.0%					
Van	8	1996				94.2%			100.0%			100.0%					
Van	8	1997				95.8%			100.0%			100.0%					
Van	8	1998				100.0%			100.0%			100.0%					
Van	8	1999				100.0%			100.0%			100.0%					
Van	8	2000				100.0%			100.0%			100.0%					
Van	8	2001		31.2%		100.0%			100.0%			100.0%					
Van	8	2002				100.0%			100.0%			100.0%					
Van	8	2003		11.3%		100.0%			100.0%			100.0%					
Van	8	2004		10.8%		100.0%			100.0%			100.0%					
Van	8	2005		11.0%		100.0%			100.0%			100.0%					
Van	8	2006		8.8%		100.0%			100.0%			100.0%					
Van	8	2007	44.5%	20.3%		100.0%			100.0%			100.0%					
Van	8	2008		40.7%		100.0%			100.0%			100.0%					
Van	8	2009		45.9%		100.0%			100.0%			100.0%					
Van	8	2010		46.9%		100.0%			100.0%			100.0%				100.0%	
Van	8	2011		28.6%		100.0%			100.0%			96.5%		3.5%		66.0%	
Van	8	2012		13.3%		100.0%			100.0%			100.0%				40.8%	
Van	Other	1975															
Van	Other	1976															
Van	Other	1977															
Van	Other	1978															
Van	Other	1979															
Van	Other	1980															
Van	Other	1981															
Van	Other	1982															
Van	Other	1983															
Van	Other	1984															
Van	Other	1985															
Van	Other	1986															
Van	Other	1987															
Van	Other	1988															

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Van	Other	1989																
Van	Other	1990																
Van	Other	1991																
Van	Other	1992																
Van	Other	1993																
Van	Other	1994																
Van	Other	1995																
Van	Other	1996																
Van	Other	1997																
Van	Other	1998																
Van	Other	1999																
Van	Other	2000																
Van	Other	2001																
Van	Other	2002																
Van	Other	2003																
Van	Other	2004																
Van	Other	2005																
Van	Other	2006																
Van	Other	2007																
Van	Other	2008																
Van	Other	2009																
Van	Other	2010																
Van	Other	2011	0	0.000	14.2	9.9	13.1	11.5	6413		415	305	10.4	0.735	0.0478	36.8		
Van	Other	2012	1	0.001	14.3	10.0	13.3	11.6	6602		415	305	10.6	0.735	0.0464	38.4		
Truck SUV	4	1975																
Truck SUV	4	1976																
Truck SUV	4	1977																
Truck SUV	4	1978																
Truck SUV	4	1979	4	0.012	16.0	13.1	14.3	13.6	3621		168	69	20.6	0.473	0.0193	24.4		
Truck SUV	4	1980	19	0.102	22.8	18.9	19.8	19.3	2893		137	81	15.8	0.624	0.0278	27.9		
Truck SUV	4	1981	13	0.098	24.4	20.2	21.3	20.7	2941		145	81	15.7	0.573	0.0276	30.5		
Truck SUV	4	1982	7	0.046	24.6	20.4	21.2	20.8	2650		113	68	17.1	0.642	0.0251	27.5		
Truck SUV	4	1983	10	0.037	24.2	19.9	21.2	20.5	2747		105	70	17.3	0.697	0.0248	28.0		
Truck SUV	4	1984	67	0.117	23.6	19.1	21.4	20.0	3149		139	89	15.7	0.644	0.0281	31.5		
Truck SUV	4	1985	85	0.131	24.2	19.5	22.1	20.6	3329		138	94	15.8	0.683	0.0281	34.3		
Truck SUV	4	1986	183	0.256	25.1	20.0	23.1	21.3	3355		131	97	15.2	0.746	0.0289	35.8		

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Van	Other	1989															
Van	Other	1990															
Van	Other	1991															
Van	Other	1992															
Van	Other	1993															
Van	Other	1994															
Van	Other	1995															
Van	Other	1996															
Van	Other	1997															
Van	Other	1998															
Van	Other	1999															
Van	Other	2000															
Van	Other	2001															
Van	Other	2002															
Van	Other	2003															
Van	Other	2004															
Van	Other	2005															
Van	Other	2006															
Van	Other	2007															
Van	Other	2008															
Van	Other	2009															
Van	Other	2010															
Van	Other	2011				100.0%			100.0%			100.0%					
Van	Other	2012				100.0%			100.0%			100.0%					
Truck SUV	4	1975															
Truck SUV	4	1976															
Truck SUV	4	1977															
Truck SUV	4	1978															
Truck SUV	4	1979		100.0%	100.0%												
Truck SUV	4	1980		100.0%	100.0%												
Truck SUV	4	1981		100.0%	98.0%												
Truck SUV	4	1982		100.0%	100.0%												
Truck SUV	4	1983		100.0%	100.0%												
Truck SUV	4	1984		100.0%	72.0%	26.9%											
Truck SUV	4	1985		100.0%	71.2%	27.6%			22.7%	7.8%	1.5%						
Truck SUV	4	1986		100.0%	87.8%	11.7%			19.8%	17.9%	2.8%						

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	4	1987	201	0.258	25.2	20.0	22.8	21.2	3121		126	95	14.7	0.758	0.0303	33.1		
Truck SUV	4	1988	187	0.218	25.0	19.9	22.4	21.0	3118		121	94	14.8	0.775	0.0298	32.6		
Truck SUV	4	1989	118	0.144	24.0	19.0	21.5	20.1	3216		131	103	14.1	0.792	0.0322	32.3		
Truck SUV	4	1990	104	0.162	25.1	19.8	22.1	20.9	3072		123	99	14.0	0.813	0.0322	32.2		
Truck SUV	4	1991	78	0.089	24.8	19.6	21.6	20.5	3205		121	101	14.4	0.835	0.0313	33.0		
Truck SUV	4	1992	58	0.076	25.7	20.1	22.3	21.2	2945		121	103	13.4	0.855	0.0349	31.5		
Truck SUV	4	1993	67	0.080	25.5	19.8	22.0	20.9	2973		122	106	13.2	0.869	0.0356	31.4		
Truck SUV	4	1994	98	0.076	25.5	19.8	21.8	20.8	2940		119	101	13.6	0.850	0.0343	30.9		
Truck SUV	4	1995	157	0.098	24.5	18.8	21.0	19.9	2987		128	112	12.6	0.879	0.0375	30.0		
Truck SUV	4	1996	90	0.056	27.4	20.5	24.1	22.3	2996		110	109	12.8	0.993	0.0364	33.3		
Truck SUV	4	1997	225	0.108	24.7	18.4	21.6	20.0	3439		135	126	12.7	0.945	0.0367	34.5		
Truck SUV	4	1998	256	0.120	25.8	19.0	22.8	20.8	3444		131	132	12.4	1.011	0.0382	36.1		
Truck SUV	4	1999	261	0.111	26.2	19.2	22.9	21.1	3499		132	141	11.9	1.076	0.0402	37.0		
Truck SUV	4	2000	251	0.099	26.1	19.0	22.7	20.9	3512		130	139	12.0	1.083	0.0396	36.8		
Truck SUV	4	2001	306	0.113	26.0	18.8	22.6	20.7	3508		136	148	11.4	1.106	0.0423	36.7		
Truck SUV	4	2002	303	0.084	27.2	19.3	23.9	21.6	3526		140	153	11.2	1.098	0.0435	38.4		
Truck SUV	4	2003	391	0.109	27.0	19.1	23.8	21.4	3595		143	156	11.2	1.092	0.0434	38.6		
Truck SUV	4	2004	337	0.083	27.1	18.9	23.9	21.4	3599		146	162	10.9	1.106	0.0451	38.7		
Truck SUV	4	2005	332	0.101	27.8	19.3	24.2	21.8	3633		145	160	11.0	1.102	0.0443	39.8		
Truck SUV	4	2006	324	0.108	28.3	19.6	24.5	22.1	3700		145	160	11.0	1.100	0.0435	41.1		
Truck SUV	4	2007	460	0.139	28.1	19.5	24.6	22.1	3845		144	174	10.8	1.208	0.0454	42.6		
Truck SUV	4	2008	483	0.157	29.0	20.2	25.0	22.7	3834		144	171	10.9	1.188	0.0446	43.6		
Truck SUV	4	2009	424	0.248	29.1	20.1	25.4	22.8	3811		146	174	10.7	1.194	0.0458	43.6		
Truck SUV	4	2010	632	0.274	29.9	20.6	26.2	23.5	3822		149	177	10.6	1.194	0.0464	45.0		
Truck SUV	4	2011	843	0.275	30.5	20.9	26.8	23.9	3854		147	177	10.7	1.206	0.0459	46.2		
Truck SUV	4	2012	760	0.272	30.9	21.1	27.2	24.2	3795		146	182	10.3	1.255	0.0480	46.1		
Truck SUV	5	1975																
Truck SUV	5	1976																
Truck SUV	5	1977																
Truck SUV	5	1978																
Truck SUV	5	1979																
Truck SUV	5	1980																
Truck SUV	5	1981																
Truck SUV	5	1982																
Truck SUV	5	1983																
Truck SUV	5	1984																

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	4	1987		100.0%	85.8%	6.7%			18.7%	17.1%	0.1%						
Truck SUV	4	1988		100.0%	83.8%	12.2%			41.0%	4.7%							
Truck SUV	4	1989		100.0%	71.4%	28.6%			41.4%	51.4%							
Truck SUV	4	1990		100.0%	82.7%	17.3%			35.0%	65.0%							
Truck SUV	4	1991		100.0%	79.1%	20.9%			51.3%	48.7%							
Truck SUV	4	1992		100.0%	81.7%	18.3%			56.7%	43.3%							
Truck SUV	4	1993		100.0%	77.5%	22.5%			71.5%	28.5%							
Truck SUV	4	1994		100.0%	69.1%	30.9%			55.5%	44.5%		87.8%		12.2%			
Truck SUV	4	1995		100.0%	71.4%	28.6%			87.3%	12.7%		96.6%		3.4%			
Truck SUV	4	1996		100.0%	40.6%	59.4%			100.0%			2.2%		97.8%			
Truck SUV	4	1997		94.3%	43.0%	57.0%			100.0%			27.6%		72.4%			
Truck SUV	4	1998		93.6%	32.3%	67.7%			100.0%			13.3%		86.7%			
Truck SUV	4	1999		94.5%	27.2%	72.8%			100.0%			18.5%		81.5%			
Truck SUV	4	2000		93.5%	22.7%	77.3%			100.0%			23.6%		76.4%			
Truck SUV	4	2001	3.2%	96.8%	16.7%	83.3%			100.0%			19.7%		80.3%		19.4%	
Truck SUV	4	2002	5.9%	93.9%	14.7%	84.8%	0.5%		100.0%			14.5%		85.5%		57.7%	
Truck SUV	4	2003	11.4%	88.6%	10.0%	86.1%	3.9%		100.0%			8.0%		92.0%		64.1%	
Truck SUV	4	2004	12.2%	87.8%	10.4%	87.9%	1.7%		100.0%					100.0%		74.4%	
Truck SUV	4	2005	12.0%	88.0%	8.6%	88.9%	2.5%		97.4%		2.6%			100.0%		70.3%	2.0%
Truck SUV	4	2006	11.2%	88.8%	7.4%	88.7%	3.9%		97.9%		2.1%			100.0%		72.2%	3.9%
Truck SUV	4	2007	16.1%	83.9%	4.1%	76.6%	19.3%		100.0%					100.0%		88.8%	1.6%
Truck SUV	4	2008	15.9%	84.1%	2.9%	66.9%	30.2%	2.7%	97.3%					100.0%		86.0%	3.1%
Truck SUV	4	2009	13.4%	85.8%	3.2%	74.1%	22.7%	5.7%	94.3%					100.0%		77.9%	1.9%
Truck SUV	4	2010	10.1%	89.2%	3.0%	66.0%	28.3%	3.8%	96.2%					100.0%		100.0%	0.9%
Truck SUV	4	2011	9.4%	90.2%	1.8%	62.6%	35.7%	5.5%	94.5%					100.0%		100.0%	0.5%
Truck SUV	4	2012	16.4%	83.0%	3.3%	64.0%	32.6%	11.2%	88.8%					100.0%		100.0%	0.5%
Truck SUV	5	1975															
Truck SUV	5	1976															
Truck SUV	5	1977															
Truck SUV	5	1978															
Truck SUV	5	1979															
Truck SUV	5	1980															
Truck SUV	5	1981															
Truck SUV	5	1982															
Truck SUV	5	1983															
Truck SUV	5	1984															

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	5	1985																
Truck SUV	5	1986																
Truck SUV	5	1987																
Truck SUV	5	1988																
Truck SUV	5	1989																
Truck SUV	5	1990																
Truck SUV	5	1991																
Truck SUV	5	1992																
Truck SUV	5	1993																
Truck SUV	5	1994																
Truck SUV	5	1995																
Truck SUV	5	1996																
Truck SUV	5	1997																
Truck SUV	5	1998																
Truck SUV	5	1999																
Truck SUV	5	2000																
Truck SUV	5	2001																
Truck SUV	5	2002																
Truck SUV	5	2003	4	0.001	23.3	15.9	22.1	18.9	4885		154	207	11.4	1.344	0.0425	46.1		
Truck SUV	5	2004	55	0.013	24.0	16.3	22.6	19.3	4365		183	232	9.6	1.279	0.0540	42.0		
Truck SUV	5	2005	40	0.012	23.2	15.8	21.4	18.6	4486		175	225	10.0	1.298	0.0511	41.6		
Truck SUV	5	2006	98	0.033	20.7	14.6	18.3	16.5	4976		196	217	11.1	1.123	0.0436	41.1		
Truck SUV	5	2007	46	0.014	19.4	13.5	17.6	15.6	5000		223	245	10.1	1.099	0.0490	38.9		
Truck SUV	5	2008	23	0.008	19.4	13.5	17.6	15.6	5000		223	245	10.1	1.099	0.0490	38.9		
Truck SUV	5	2009	8	0.005	20.4	14.3	18.1	16.3	5000		223	245	10.1	1.099	0.0490	40.7		
Truck SUV	5	2010	2	0.001	20.4	14.3	18.1	16.3	5000		226	245	10.1	1.084	0.0490	40.7		
Truck SUV	5	2011																
Truck SUV	5	2012																
Truck SUV	6	1975	9	0.053	18.4	15.1	16.2	15.6	2944		234	92	14.2	0.393	0.0318	22.8		
Truck SUV	6	1976	35	0.150	17.3	14.3	15.0	14.6	3039		253	96	14.1	0.381	0.0324	22.2		
Truck SUV	6	1977	32	0.122	18.5	15.2	16.5	15.7	2963		252	95	13.9	0.378	0.0327	23.3		
Truck SUV	6	1978	45	0.124	17.7	14.4	15.8	15.0	2964		254	97	13.7	0.382	0.0332	22.2		
Truck SUV	6	1979	59	0.153	17.1	14.2	14.9	14.5	3155		257	119	12.3	0.465	0.0384	23.0		
Truck SUV	6	1980	54	0.293	17.8	14.4	16.0	15.1	3589		258	101	15.5	0.393	0.0285	27.2		
Truck SUV	6	1981	44	0.327	18.5	14.8	17.2	15.8	3564		266	113	14.0	0.428	0.0327	28.0		
Truck SUV	6	1982	40	0.267	18.8	14.8	17.8	16.0	3607		266	112	14.3	0.420	0.0318	28.9		

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	5	1985															
Truck SUV	5	1986															
Truck SUV	5	1987															
Truck SUV	5	1988															
Truck SUV	5	1989															
Truck SUV	5	1990															
Truck SUV	5	1991															
Truck SUV	5	1992															
Truck SUV	5	1993															
Truck SUV	5	1994															
Truck SUV	5	1995															
Truck SUV	5	1996															
Truck SUV	5	1997															
Truck SUV	5	1998															
Truck SUV	5	1999															
Truck SUV	5	2000															
Truck SUV	5	2001															
Truck SUV	5	2002															
Truck SUV	5	2003	9.3%	90.7%		100.0%			100.0%					100.0%		100.0%	
Truck SUV	5	2004	17.3%	82.7%		100.0%			100.0%					100.0%		49.6%	
Truck SUV	5	2005	21.0%	79.0%		100.0%			100.0%					100.0%		100.0%	
Truck SUV	5	2006	10.2%	89.8%	3.0%	97.0%			100.0%					100.0%		100.0%	
Truck SUV	5	2007		100.0%	3.6%	96.4%			100.0%			100.0%				100.0%	
Truck SUV	5	2008		100.0%	3.5%	96.5%			100.0%			100.0%				100.0%	
Truck SUV	5	2009		100.0%	2.5%	97.5%			100.0%					100.0%		100.0%	
Truck SUV	5	2010		100.0%	2.9%	97.1%			100.0%					100.0%		100.0%	
Truck SUV	5	2011															
Truck SUV	5	2012															
Truck SUV	6	1975		99.4%	86.8%												
Truck SUV	6	1976		95.1%	75.8%												
Truck SUV	6	1977		96.4%	80.8%												
Truck SUV	6	1978		93.0%	81.6%												
Truck SUV	6	1979		99.5%	85.3%						1.3%						
Truck SUV	6	1980		98.2%	83.2%	3.7%					8.0%						
Truck SUV	6	1981		98.2%	78.4%	21.6%											
Truck SUV	6	1982		100.0%	79.5%	20.5%											

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	6	1983	130	0.509	20.8	16.2	20.2	17.8	3763		212	112	14.9	0.552	0.0303	33.7		
Truck SUV	6	1984	317	0.556	21.1	16.5	20.2	18.0	3697		189	108	15.2	0.587	0.0295	33.4		
Truck SUV	6	1985	365	0.563	21.2	16.3	21.0	18.1	3790		179	109	15.4	0.613	0.0288	34.5		
Truck SUV	6	1986	337	0.472	20.6	16.0	19.7	17.5	3696		184	126	13.5	0.699	0.0343	32.4		
Truck SUV	6	1987	403	0.518	21.0	16.0	20.4	17.8	3736		201	139	12.7	0.704	0.0377	33.3		
Truck SUV	6	1988	477	0.556	20.8	15.8	20.1	17.5	3721		214	148	12.1	0.703	0.0401	32.8		
Truck SUV	6	1989	493	0.602	20.8	15.8	19.7	17.5	3826		232	156	11.8	0.683	0.0410	33.6		
Truck SUV	6	1990	368	0.573	20.3	15.3	19.3	17.0	3853		219	154	12.0	0.718	0.0404	32.8		
Truck SUV	6	1991	703	0.806	20.2	15.1	19.4	16.9	4115		232	163	12.0	0.711	0.0401	34.9		
Truck SUV	6	1992	606	0.797	19.6	14.6	18.8	16.4	4128		229	171	11.7	0.750	0.0420	34.0		
Truck SUV	6	1993	612	0.731	20.1	14.9	19.1	16.7	4170		232	180	11.3	0.779	0.0437	35.0		
Truck SUV	6	1994	898	0.695	19.6	14.5	18.6	16.3	4262		229	180	11.5	0.788	0.0425	34.9		
Truck SUV	6	1995	1061	0.664	19.7	14.4	18.7	16.3	4256		230	177	11.6	0.778	0.0419	34.9		
Truck SUV	6	1996	1058	0.660	20.2	14.6	19.3	16.7	4255		242	179	11.5	0.748	0.0426	35.7		
Truck SUV	6	1997	1142	0.547	20.2	14.7	18.9	16.6	4266		237	179	11.5	0.766	0.0424	35.5		
Truck SUV	6	1998	1137	0.535	20.4	14.7	19.2	16.8	4262		236	183	11.3	0.786	0.0433	35.8		
Truck SUV	6	1999	1205	0.514	20.4	14.7	18.8	16.7	4287		231	194	10.8	0.852	0.0454	35.7		
Truck SUV	6	2000	1252	0.496	20.6	14.7	18.9	16.7	4267		230	190	11.0	0.837	0.0448	35.7		
Truck SUV	6	2001	1537	0.568	21.0	14.9	19.4	17.0	4275		219	202	10.5	0.936	0.0475	36.5		
Truck SUV	6	2002	2176	0.607	20.6	14.4	19.0	16.7	4383		225	218	10.1	0.974	0.0498	36.6		
Truck SUV	6	2003	1844	0.516	21.1	14.6	19.6	17.0	4417		224	226	9.8	1.017	0.0513	37.7		
Truck SUV	6	2004	2190	0.537	21.4	14.7	20.0	17.3	4426		227	227	9.8	1.006	0.0514	38.2		
Truck SUV	6	2005	1844	0.564	21.4	14.6	19.8	17.2	4493		223	234	9.7	1.056	0.0521	38.7		
Truck SUV	6	2006	1795	0.597	21.9	15.0	20.2	17.6	4529		223	232	9.7	1.044	0.0512	40.2		
Truck SUV	6	2007	1816	0.548	22.5	15.4	20.6	18.0	4514		221	238	9.5	1.082	0.0528	40.8		
Truck SUV	6	2008	1894	0.616	22.9	15.6	21.2	18.4	4577		219	242	9.5	1.110	0.0529	42.3		
Truck SUV	6	2009	1068	0.624	23.6	16.0	21.9	18.9	4596		214	253	9.2	1.186	0.0552	43.7		
Truck SUV	6	2010	1388	0.602	23.9	16.3	22.1	19.1	4606		218	254	9.2	1.174	0.0554	44.4		
Truck SUV	6	2011	1708	0.556	24.3	16.5	22.6	19.5	4665		217	269	8.9	1.245	0.0577	45.6		
Truck SUV	6	2012	1603	0.573	24.8	16.8	23.0	19.8	4628		215	274	8.6	1.274	0.0593	46.1		
Truck SUV	8	1975	168	0.947	12.8	10.5	11.4	10.8	4284		337	151	13.1	0.445	0.0363	23.1		
Truck SUV	8	1976	197	0.850	13.4	10.8	12.2	11.4	4556		354	150	14.0	0.421	0.0334	25.8		
Truck SUV	8	1977	232	0.878	14.7	11.9	13.4	12.5	4427		348	152	13.5	0.435	0.0348	27.7		
Truck SUV	8	1978	319	0.876	14.1	11.3	12.9	12.0	4468		355	157	13.1	0.442	0.0356	26.7		
Truck SUV	8	1979	321	0.835	11.8	9.8	10.3	10.0	4832		354	151	14.7	0.426	0.0314	24.2		
Truck SUV	8	1980	111	0.605	13.9	11.1	12.8	11.8	4777		339	154	14.1	0.453	0.0323	28.4		

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	6	1983		100.0%	54.8%	42.4%											
Truck SUV	6	1984		100.0%	35.6%	38.8%											
Truck SUV	6	1985		100.0%	34.0%	64.5%											
Truck SUV	6	1986		100.0%	32.7%	65.2%			32.6%	33.9%							
Truck SUV	6	1987		100.0%	32.5%	64.8%			47.3%	43.0%							
Truck SUV	6	1988		100.0%	28.2%	69.7%			57.2%	36.2%							
Truck SUV	6	1989		99.3%	24.8%	71.0%			53.1%	39.6%							
Truck SUV	6	1990		99.3%	26.5%	71.5%			73.9%	18.9%							
Truck SUV	6	1991		99.2%	18.1%	80.9%			67.6%	32.4%							
Truck SUV	6	1992		98.4%	19.3%	79.7%			83.2%	16.8%							
Truck SUV	6	1993		98.2%	17.4%	81.3%			99.4%	0.6%							
Truck SUV	6	1994		100.0%	13.9%	86.1%			99.7%	0.3%		82.1%	7.7%	10.2%			
Truck SUV	6	1995		91.3%	11.6%	88.4%			100.0%			77.7%		22.3%			
Truck SUV	6	1996		84.6%	5.4%	94.6%			100.0%			87.8%		12.2%			
Truck SUV	6	1997		83.0%	9.2%	90.8%			100.0%			79.4%		20.6%			
Truck SUV	6	1998		91.4%	6.8%	93.2%			100.0%			78.4%	3.5%	18.2%			
Truck SUV	6	1999		91.2%	5.6%	94.4%			100.0%			69.8%	3.0%	27.3%		5.7%	
Truck SUV	6	2000		92.2%	5.4%	94.6%			100.0%			73.9%	2.9%	23.2%		4.7%	
Truck SUV	6	2001	12.4%	77.3%	3.3%	96.7%			100.0%			55.0%	2.0%	43.0%		20.3%	
Truck SUV	6	2002	2.0%	76.8%	3.3%	96.7%			100.0%			45.2%	1.4%	53.3%		32.8%	
Truck SUV	6	2003	2.7%	78.9%	2.2%	96.1%	1.7%		100.0%			33.1%	1.4%	65.4%		49.1%	
Truck SUV	6	2004	2.9%	79.0%	2.6%	95.8%	1.6%		100.0%			38.1%	0.7%	61.2%		49.2%	
Truck SUV	6	2005	2.6%	80.8%	2.4%	95.4%	2.2%		100.0%			26.0%	0.9%	73.1%		57.1%	
Truck SUV	6	2006	6.0%	77.2%	2.5%	90.4%	7.1%		100.0%			29.0%	2.2%	68.8%		60.5%	4.4%
Truck SUV	6	2007	7.7%	79.1%	2.7%	91.7%	5.7%		99.5%		0.5%	26.2%		73.8%		58.8%	2.2%
Truck SUV	6	2008	12.3%	76.4%	2.0%	95.3%	2.7%	1.7%	97.6%		0.7%	23.9%		76.1%		59.7%	2.7%
Truck SUV	6	2009	22.7%	73.3%	0.6%	91.9%	7.5%	9.2%	90.0%		0.8%	15.6%		84.4%		69.6%	1.0%
Truck SUV	6	2010	19.0%	74.8%	1.7%	93.7%	4.6%	16.3%	82.6%		1.1%	20.0%		80.0%		74.7%	1.9%
Truck SUV	6	2011	20.1%	72.4%	1.3%	96.0%	2.8%	20.3%	78.2%		1.5%	11.0%		89.0%		86.8%	0.7%
Truck SUV	6	2012	19.0%	76.0%	1.8%	95.0%	3.1%	19.8%	78.8%		1.4%	5.1%		94.9%		94.0%	1.4%
Truck SUV	8	1975		88.4%	37.2%												
Truck SUV	8	1976		88.6%	24.5%												
Truck SUV	8	1977		87.3%	25.9%												
Truck SUV	8	1978		92.3%	25.1%												
Truck SUV	8	1979		66.8%	22.6%	0.5%											
Truck SUV	8	1980		82.6%	14.9%	41.3%											

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	8	1981	78	0.574	15.2	12.1	14.1	12.9	4792		329	150	14.5	0.459	0.0314	31.2		
Truck SUV	8	1982	103	0.688	16.4	13.0	15.4	14.0	4961		333	146	15.3	0.441	0.0296	36.3		
Truck SUV	8	1983	116	0.454	16.2	12.8	15.4	13.8	4962		339	148	15.1	0.442	0.0301	35.6		
Truck SUV	8	1984	186	0.326	15.4	12.1	14.5	13.1	4971		336	156	14.5	0.467	0.0315	33.5		
Truck SUV	8	1985	198	0.306	15.6	12.2	14.9	13.3	4977		336	162	14.1	0.486	0.0327	33.7		
Truck SUV	8	1986	194	0.272	16.2	12.5	15.6	13.8	4981		330	159	14.3	0.484	0.0321	34.8		
Truck SUV	8	1987	175	0.225	15.9	12.3	15.2	13.5	5090		337	181	13.3	0.537	0.0355	34.8		
Truck SUV	8	1988	194	0.226	16.1	12.3	15.3	13.6	5115		338	183	13.2	0.541	0.0357	35.1		
Truck SUV	8	1989	208	0.254	16.0	12.2	15.4	13.5	5196		336	186	13.2	0.551	0.0357	35.5		
Truck SUV	8	1990	170	0.265	16.2	12.1	15.9	13.7	5257		338	192	12.9	0.569	0.0367	36.1		
Truck SUV	8	1991	91	0.104	16.2	12.1	15.8	13.6	5293		339	199	12.6	0.589	0.0377	36.3		
Truck SUV	8	1992	97	0.127	15.9	11.7	15.5	13.3	5428		340	201	12.7	0.591	0.0371	36.2		
Truck SUV	8	1993	159	0.190	16.4	12.0	15.9	13.7	5524		343	207	12.6	0.605	0.0376	37.8		
Truck SUV	8	1994	296	0.229	17.0	12.5	16.2	14.1	5003		334	209	11.5	0.629	0.0431	35.2		
Truck SUV	8	1995	379	0.237	17.0	12.4	16.2	14.1	5066		334	206	11.7	0.621	0.0417	35.6		
Truck SUV	8	1996	455	0.284	17.5	12.6	16.8	14.5	4965		328	226	10.8	0.687	0.0458	35.9		
Truck SUV	8	1997	722	0.346	17.6	12.7	16.9	14.6	5095		323	228	10.9	0.707	0.0451	37.1		
Truck SUV	8	1998	734	0.345	17.3	12.3	16.6	14.3	5093		320	226	11.0	0.707	0.0446	36.3		
Truck SUV	8	1999	877	0.375	17.4	12.3	16.8	14.4	5138		319	236	10.7	0.744	0.0463	36.9		
Truck SUV	8	2000	1022	0.405	17.6	12.5	16.7	14.4	5280		311	243	10.6	0.782	0.0462	38.1		
Truck SUV	8	2001	864	0.319	17.7	12.6	16.4	14.4	5395		310	256	10.4	0.825	0.0475	38.9		
Truck SUV	8	2002	1109	0.309	18.0	12.6	17.0	14.7	5437		311	271	10.0	0.870	0.0500	40.0		
Truck SUV	8	2003	1333	0.373	18.1	12.6	16.9	14.7	5558		310	266	10.3	0.859	0.0481	40.8		
Truck SUV	8	2004	1492	0.366	18.1	12.5	16.8	14.6	5516		314	277	10.0	0.883	0.0505	40.4		
Truck SUV	8	2005	1056	0.323	18.5	12.7	17.1	14.9	5577		315	288	9.8	0.916	0.0517	41.7		
Truck SUV	8	2006	789	0.262	18.6	12.8	17.4	15.0	5523		309	293	9.6	0.951	0.0532	41.5		
Truck SUV	8	2007	991	0.299	19.5	13.2	18.5	15.8	5749		320	313	9.4	0.977	0.0546	45.7		
Truck SUV	8	2008	672	0.219	19.3	13.1	18.3	15.6	5784		322	330	9.0	1.030	0.0572	45.3		
Truck SUV	8	2009	212	0.124	19.7	13.3	18.8	16.0	5758		323	335	8.9	1.041	0.0583	46.3		
Truck SUV	8	2010	283	0.123	19.9	13.5	18.9	16.1	5944		327	338	9.1	1.039	0.0571	48.2		
Truck SUV	8	2011	518	0.169	20.2	13.6	19.2	16.3	5985		331	350	8.9	1.061	0.0588	49.1		
Truck SUV	8	2012	434	0.155	20.5	13.7	19.5	16.5	5917		333	354	8.7	1.066	0.0602	49.2		
Truck SUV	Other	1975																
Truck SUV	Other	1976																
Truck SUV	Other	1977																
Truck SUV	Other	1978																

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	8	1981		84.5%	9.9%	59.2%											
Truck SUV	8	1982		79.9%	8.9%	57.5%					24.1%						
Truck SUV	8	1983		80.8%	4.7%	67.6%					16.7%						
Truck SUV	8	1984		79.4%	6.4%	49.3%					7.8%						
Truck SUV	8	1985		71.7%	3.3%	55.5%			4.5%		4.8%						
Truck SUV	8	1986		75.2%	3.6%	72.9%			20.0%		3.4%						
Truck SUV	8	1987		73.9%	2.9%	69.9%			16.7%	53.7%	1.9%						
Truck SUV	8	1988		74.9%	2.6%	70.9%			29.0%	60.1%	1.5%						
Truck SUV	8	1989		76.0%	3.0%	73.6%			32.9%	60.0%	1.1%						
Truck SUV	8	1990		73.0%	2.0%	86.9%			32.8%	62.1%	1.2%						
Truck SUV	8	1991		70.6%	1.4%	89.7%			30.1%	64.0%	1.8%						
Truck SUV	8	1992		73.8%	1.3%	98.2%			30.7%	69.3%							
Truck SUV	8	1993		70.7%	1.3%	98.7%			24.3%	75.7%							
Truck SUV	8	1994		81.1%	1.4%	98.6%			48.6%	51.4%		100.0%					
Truck SUV	8	1995		82.9%	1.2%	98.8%			41.7%	58.3%		100.0%					
Truck SUV	8	1996		78.6%	0.8%	99.2%			99.9%		0.1%	100.0%					
Truck SUV	8	1997		76.2%	0.1%	99.9%			100.0%		0.0%	100.0%					
Truck SUV	8	1998		75.6%		100.0%			100.0%		0.0%	100.0%					
Truck SUV	8	1999		58.7%		100.0%			100.0%			95.2%	1.9%	2.9%			
Truck SUV	8	2000		70.5%		100.0%			100.0%			94.7%		5.3%		0.5%	
Truck SUV	8	2001		67.9%		100.0%			100.0%			84.5%	1.1%	14.4%		2.2%	
Truck SUV	8	2002		64.5%		100.0%			100.0%			87.8%	1.2%	11.0%		0.9%	
Truck SUV	8	2003		62.0%		100.0%			100.0%			81.6%	0.7%	17.8%		2.6%	
Truck SUV	8	2004		65.4%		100.0%			100.0%			71.9%	0.3%	26.6%	1.2%	14.1%	
Truck SUV	8	2005		67.3%		100.0%			100.0%			65.2%	11.6%	22.5%	0.7%	29.3%	
Truck SUV	8	2006		70.7%		100.0%			100.0%			48.9%	20.2%	30.4%	0.5%	49.7%	
Truck SUV	8	2007		63.4%		100.0%			100.0%			75.0%	6.4%	18.6%		28.1%	
Truck SUV	8	2008		67.1%	0.0%	98.8%	1.2%	2.1%	97.9%			58.1%	7.8%	34.0%		42.9%	1.2%
Truck SUV	8	2009		60.7%	0.1%	97.0%	3.0%	3.6%	96.4%			64.2%	5.5%	30.3%		47.4%	3.8%
Truck SUV	8	2010		66.2%	0.0%	99.5%	0.4%	10.5%	89.5%			42.3%	16.1%	41.5%		86.0%	0.5%
Truck SUV	8	2011		72.5%		99.6%	0.4%	13.3%	86.7%			60.9%	10.2%	28.9%		99.8%	0.4%
Truck SUV	8	2012		66.8%		95.6%	4.4%	9.5%	90.5%			65.5%	12.8%	21.7%		99.3%	4.4%
Truck SUV	Other	1975															
Truck SUV	Other	1976															
Truck SUV	Other	1977															
Truck SUV	Other	1978															

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Truck SUV	Other	1979																
Truck SUV	Other	1980																
Truck SUV	Other	1981																
Truck SUV	Other	1982																
Truck SUV	Other	1983																
Truck SUV	Other	1984																
Truck SUV	Other	1985																
Truck SUV	Other	1986																
Truck SUV	Other	1987																
Truck SUV	Other	1988																
Truck SUV	Other	1989																
Truck SUV	Other	1990																
Truck SUV	Other	1991																
Truck SUV	Other	1992																
Truck SUV	Other	1993																
Truck SUV	Other	1994																
Truck SUV	Other	1995																
Truck SUV	Other	1996																
Truck SUV	Other	1997																
Truck SUV	Other	1998																
Truck SUV	Other	1999																
Truck SUV	Other	2000																
Truck SUV	Other	2001																
Truck SUV	Other	2002																
Truck SUV	Other	2003																
Truck SUV	Other	2004	1	0.000	22.8	15.4	21.8	18.4	6000		300	310	9.7	1.033	0.0517	55.3		
Truck SUV	Other	2005																
Truck SUV	Other	2006	1	0.000	21.7	14.8	20.0	17.4	6000		300	310	9.6	1.033	0.0517	52.2		
Truck SUV	Other	2007	0	0.000	21.7	14.8	20.0	17.4	6000		300	310	7.2	1.033	0.0517	52.2		
Truck SUV	Other	2008	0	0.000	21.7	14.8	20.0	17.4	6000		300	310	7.1	1.033	0.0517	52.2		
Truck SUV	Other	2009																
Truck SUV	Other	2010																
Truck SUV	Other	2011																
Truck SUV	Other	2012																
Pickup	2	1975	3	0.002	15.5	11.7	15.9	13.2	3000		80	135	10.7	1.688	0.0450	19.9		
Pickup	2	1976	4	0.002	16.4	12.4	16.8	14.1	3000		80	135	10.7	1.688	0.0450	21.1		

2012 FE Trends Report

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Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Truck SUV	Other	1979															
Truck SUV	Other	1980															
Truck SUV	Other	1981															
Truck SUV	Other	1982															
Truck SUV	Other	1983															
Truck SUV	Other	1984															
Truck SUV	Other	1985															
Truck SUV	Other	1986															
Truck SUV	Other	1987															
Truck SUV	Other	1988															
Truck SUV	Other	1989															
Truck SUV	Other	1990															
Truck SUV	Other	1991															
Truck SUV	Other	1992															
Truck SUV	Other	1993															
Truck SUV	Other	1994															
Truck SUV	Other	1995															
Truck SUV	Other	1996															
Truck SUV	Other	1997															
Truck SUV	Other	1998															
Truck SUV	Other	1999															
Truck SUV	Other	2000															
Truck SUV	Other	2001															
Truck SUV	Other	2002															
Truck SUV	Other	2003															
Truck SUV	Other	2004		100.0%		100.0%					100.0%	100.0%					
Truck SUV	Other	2005															
Truck SUV	Other	2006		100.0%		100.0%					100.0%	100.0%					
Truck SUV	Other	2007		100.0%		100.0%					100.0%	100.0%					
Truck SUV	Other	2008		100.0%		100.0%					100.0%	100.0%					
Truck SUV	Other	2009															
Truck SUV	Other	2010															
Truck SUV	Other	2011															
Truck SUV	Other	2012															
Pickup	2	1975			68.2%												
Pickup	2	1976			81.1%												

2012 FE Trends Report

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Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	2	1977	3	0.001	19.3	14.7	19.4	16.5	3000		80	135	10.7	1.688	0.0450	24.8		
Pickup	2	1978																
Pickup	2	1979																
Pickup	2	1980																
Pickup	2	1981																
Pickup	2	1982																
Pickup	2	1983																
Pickup	2	1984																
Pickup	2	1985																
Pickup	2	1986																
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Pickup	2	2009																
Pickup	2	2010																
Pickup	2	2011																
Pickup	2	2012																

2012 FE Trends Report

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Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	2	1977			85.1%												
Pickup	2	1978															
Pickup	2	1979															
Pickup	2	1980															
Pickup	2	1981															
Pickup	2	1982															
Pickup	2	1983															
Pickup	2	1984															
Pickup	2	1985															
Pickup	2	1986															
Pickup	2	1987															
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Pickup	2	2005															
Pickup	2	2006															
Pickup	2	2007															
Pickup	2	2008															
Pickup	2	2009															
Pickup	2	2010															
Pickup	2	2011															
Pickup	2	2012															

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	4	1975	214	0.159	22.2	17.2	21.6	19.0	2817		116	88	14.7	0.750	0.0314	26.8		
Pickup	4	1976	224	0.120	23.7	18.4	23.1	20.2	2826		117	89	14.6	0.757	0.0318	28.7		
Pickup	4	1977	304	0.150	26.4	20.6	25.3	22.5	2819		122	91	14.2	0.748	0.0324	32.0		
Pickup	4	1978	339	0.150	26.3	21.0	24.3	22.4	2844		121	88	14.7	0.731	0.0310	32.1		
Pickup	4	1979	459	0.208	23.4	18.4	22.1	19.9	2832		123	85	14.9	0.692	0.0300	28.7		
Pickup	4	1980	550	0.383	24.6	19.6	22.8	20.9	2818		124	87	14.5	0.705	0.0311	29.9		
Pickup	4	1981	497	0.346	27.7	22.1	25.7	23.6	2842		130	85	15.1	0.652	0.0298	34.1		
Pickup	4	1982	485	0.337	27.8	22.1	25.7	23.6	2886		133	87	14.9	0.657	0.0304	34.6		
Pickup	4	1983	707	0.434	27.6	22.0	25.6	23.5	2921		135	88	14.8	0.651	0.0303	34.7		
Pickup	4	1984	795	0.389	27.2	21.7	25.2	23.1	2973		134	89	14.9	0.661	0.0300	34.7		
Pickup	4	1985	819	0.394	27.4	21.9	25.3	23.3	3034		141	98	14.0	0.693	0.0322	35.5		
Pickup	4	1986	1256	0.496	27.0	21.3	25.1	22.9	3054		139	97	14.2	0.696	0.0318	35.1		
Pickup	4	1987	1064	0.496	27.1	21.1	25.3	22.9	3050		140	96	14.2	0.686	0.0316	35.0		
Pickup	4	1988	913	0.371	27.1	21.1	25.1	22.8	3070		142	97	14.2	0.685	0.0317	35.2		
Pickup	4	1989	773	0.347	26.8	20.8	24.7	22.5	3085		144	102	13.7	0.710	0.0331	34.8		
Pickup	4	1990	554	0.302	27.1	20.9	24.8	22.6	3096		144	110	13.0	0.765	0.0356	35.1		
Pickup	4	1991	632	0.329	27.3	20.9	25.0	22.7	3119		145	108	13.2	0.749	0.0349	35.5		
Pickup	4	1992	471	0.256	27.1	20.5	24.8	22.4	3194		143	110	13.3	0.767	0.0347	35.9		
Pickup	4	1993	478	0.239	27.3	20.5	24.9	22.5	3211		143	112	13.2	0.782	0.0351	36.2		
Pickup	4	1994	706	0.265	27.3	20.4	24.9	22.4	3333		141	113	13.4	0.799	0.0342	37.5		
Pickup	4	1995	653	0.288	26.8	19.8	24.4	21.9	3426		147	124	12.8	0.848	0.0365	37.8		
Pickup	4	1996	556	0.284	27.0	19.7	24.9	22.1	3420		143	124	12.8	0.871	0.0366	38.0		
Pickup	4	1997	465	0.193	27.5	20.0	24.9	22.3	3457		141	120	13.2	0.853	0.0349	38.8		
Pickup	4	1998	615	0.255	27.0	19.5	24.6	21.9	3462		145	127	12.7	0.877	0.0370	38.1		
Pickup	4	1999	392	0.154	26.5	19.0	24.1	21.4	3452		147	128	12.7	0.867	0.0371	37.2		
Pickup	4	2000	437	0.167	26.0	18.5	23.6	21.0	3466		145	127	12.7	0.879	0.0368	36.5		
Pickup	4	2001	277	0.110	25.8	18.4	23.0	20.6	3501		146	132	12.5	0.906	0.0378	36.3		
Pickup	4	2002	166	0.070	26.3	18.8	23.0	20.9	3525		149	143	11.7	0.958	0.0407	37.1		
Pickup	4	2003	289	0.117	26.3	18.3	23.7	21.0	3527		142	133	12.5	0.933	0.0377	37.1		
Pickup	4	2004	155	0.062	26.2	18.3	23.1	20.7	3542		152	147	11.5	0.972	0.0418	36.8		
Pickup	4	2005	126	0.055	26.0	17.7	23.6	20.7	3740		160	162	11.1	1.017	0.0434	38.7		
Pickup	4	2006	165	0.075	25.8	17.6	23.6	20.6	3749		160	162	11.2	1.012	0.0434	38.6		
Pickup	4	2007	139	0.066	25.6	17.5	23.2	20.3	3712		161	164	11.0	1.015	0.0443	38.0		
Pickup	4	2008	128	0.072	26.7	18.4	23.7	21.1	3698		159	162	11.1	1.015	0.0438	39.1		
Pickup	4	2009	94	0.095	27.2	18.8	24.0	21.4	3719		158	159	11.3	1.005	0.0427	39.9		
Pickup	4	2010	86	0.068	27.2	18.7	24.1	21.4	3703		155	156	11.4	1.007	0.0422	39.7		

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	4	1975			83.5%												
Pickup	4	1976			81.4%												
Pickup	4	1977			82.3%												
Pickup	4	1978		6.9%	88.1%												
Pickup	4	1979		20.5%	88.1%												
Pickup	4	1980	4.8%	20.2%	89.9%					2.7%	2.0%						
Pickup	4	1981	6.7%	23.0%	93.1%					1.8%	16.3%						
Pickup	4	1982	6.6%	23.4%	90.8%	2.3%				0.7%	15.4%						
Pickup	4	1983	4.3%	18.9%	86.3%	1.4%				0.2%	5.7%						
Pickup	4	1984	1.5%	20.6%	88.9%	2.5%			2.5%		4.2%						
Pickup	4	1985		22.4%	84.6%	8.8%			18.3%	10.7%	1.7%						
Pickup	4	1986		19.8%	85.9%	7.9%			14.3%	22.6%	0.7%						
Pickup	4	1987		17.3%	84.5%	7.9%			11.7%	26.8%	0.3%						
Pickup	4	1988		15.2%	84.9%	9.3%			27.3%	29.7%							
Pickup	4	1989		15.3%	84.9%	10.6%			34.5%	36.6%							
Pickup	4	1990		13.1%	84.9%	12.9%			69.5%	10.5%							
Pickup	4	1991		12.4%	85.3%	12.0%			67.3%	23.0%							
Pickup	4	1992		13.8%	86.8%	10.1%			77.6%	9.8%							
Pickup	4	1993		14.8%	86.8%	9.9%			87.0%	4.2%							
Pickup	4	1994		12.2%	85.2%	11.2%			96.7%	0.4%		99.8%		0.2%			
Pickup	4	1995		15.3%	79.9%	17.0%			97.3%	2.7%		82.3%		17.7%			
Pickup	4	1996		9.8%	76.6%	18.6%			100.0%			64.8%	15.9%	19.3%			
Pickup	4	1997		5.9%	78.0%	22.0%			100.0%			71.4%	28.1%	0.5%			
Pickup	4	1998		11.1%	66.9%	27.1%			100.0%			64.4%		35.6%			
Pickup	4	1999		10.5%	57.4%	36.5%			100.0%			65.4%		34.6%			
Pickup	4	2000		7.9%	48.0%	47.2%			100.0%			65.0%		35.0%			
Pickup	4	2001		8.7%	48.5%	43.8%			100.0%			46.0%		54.0%			
Pickup	4	2002		12.5%	47.9%	39.6%			100.0%			0.1%		99.9%			
Pickup	4	2003		10.6%	38.8%	53.6%			100.0%			46.3%		53.7%			
Pickup	4	2004		12.4%	42.3%	42.4%			100.0%					100.0%		12.5%	
Pickup	4	2005		17.6%	43.0%	57.0%			100.0%					100.0%		68.4%	
Pickup	4	2006		15.0%	37.9%	62.1%			100.0%					100.0%		79.7%	
Pickup	4	2007		8.3%	33.1%	66.9%			100.0%					100.0%		100.0%	
Pickup	4	2008		10.8%	29.8%	70.2%			100.0%					100.0%		100.0%	
Pickup	4	2009		14.1%	34.1%	65.9%			100.0%					100.0%		100.0%	
Pickup	4	2010		12.4%	25.8%	74.2%			100.0%					100.0%		58.8%	

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	4	2011	100	0.068	27.5	18.9	24.2	21.6	3700		154	154	11.5	1.004	0.0417	40.1		
Pickup	4	2012	79	0.059	27.1	18.5	23.5	21.1	3844		168	168	11.1	1.000	0.0440	40.5		
Pickup	5	1975																
Pickup	5	1976																
Pickup	5	1977																
Pickup	5	1978																
Pickup	5	1979																
Pickup	5	1980																
Pickup	5	1981																
Pickup	5	1982																
Pickup	5	1983																
Pickup	5	1984																
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Pickup	5	1998																
Pickup	5	1999																
Pickup	5	2000																
Pickup	5	2001																
Pickup	5	2002																
Pickup	5	2003																
Pickup	5	2004	96	0.038	23.9	16.4	22.0	19.1	4076		211	215	9.5	1.019	0.0530	39.0		
Pickup	5	2005	131	0.057	23.2	15.8	21.5	18.6	4141		211	215	9.6	1.019	0.0521	38.5		
Pickup	5	2006	78	0.036	23.5	16.0	21.7	18.8	4162		211	215	9.7	1.019	0.0519	39.1		
Pickup	5	2007	49	0.023	21.3	14.4	20.0	17.2	4160		223	208	10.0	0.931	0.0497	35.7		
Pickup	5	2008	53	0.030	22.1	14.9	20.9	17.8	4124		223	190	10.6	0.853	0.0464	36.7		

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	4	2011		14.7%	18.8%	81.2%			100.0%					100.0%		52.7%	
Pickup	4	2012		23.3%	36.1%	63.9%			100.0%					100.0%		100.0%	
Pickup	5	1975															
Pickup	5	1976															
Pickup	5	1977															
Pickup	5	1978															
Pickup	5	1979															
Pickup	5	1980															
Pickup	5	1981															
Pickup	5	1982															
Pickup	5	1983															
Pickup	5	1984															
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Pickup	5	1995															
Pickup	5	1996															
Pickup	5	1997															
Pickup	5	1998															
Pickup	5	1999															
Pickup	5	2000															
Pickup	5	2001															
Pickup	5	2002															
Pickup	5	2003															
Pickup	5	2004		43.9%	2.9%	97.1%			100.0%					100.0%		100.0%	
Pickup	5	2005		51.2%	2.4%	97.6%			100.0%					100.0%		100.0%	
Pickup	5	2006		51.9%	2.1%	97.9%			100.0%					100.0%		100.0%	
Pickup	5	2007		48.9%		100.0%			100.0%			100.0%				100.0%	
Pickup	5	2008		49.6%		100.0%			100.0%			100.0%				100.0%	

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	5	2009	21	0.021	23.3	15.9	21.5	18.7	4294		223	245	8.9	1.099	0.0574	40.1		
Pickup	5	2010	20	0.016	23.6	16.0	21.8	18.9	4281		226	245	8.9	1.084	0.0575	40.4		
Pickup	5	2011	18	0.012	23.6	16.0	21.8	18.9	4276		226	242	9.0	1.071	0.0569	40.4		
Pickup	5	2012	36	0.027	24.2	16.4	22.3	19.3	4138		226	242	8.8	1.071	0.0588	39.9		
Pickup	6	1975	144	0.107	17.1	13.7	15.8	14.6	4020		271	103	17.0	0.384	0.0256	29.5		
Pickup	6	1976	272	0.146	18.9	15.1	17.4	16.0	4008		267	103	16.9	0.389	0.0257	32.3		
Pickup	6	1977	254	0.125	19.0	15.3	17.3	16.2	4045		271	110	16.2	0.405	0.0272	32.9		
Pickup	6	1978	347	0.153	18.5	14.9	16.8	15.7	4054		274	116	15.5	0.428	0.0287	32.1		
Pickup	6	1979	356	0.161	17.5	14.3	15.6	14.8	4173		266	122	15.1	0.464	0.0294	31.3		
Pickup	6	1980	387	0.269	19.1	15.2	17.7	16.3	4027		271	121	14.8	0.451	0.0300	32.9		
Pickup	6	1981	472	0.328	20.1	16.0	18.7	17.1	3934		274	120	14.6	0.444	0.0306	33.9		
Pickup	6	1982	480	0.333	21.7	17.1	20.5	18.5	3578		236	113	14.2	0.502	0.0321	33.2		
Pickup	6	1983	484	0.297	21.6	16.9	20.7	18.4	3653		228	112	14.6	0.516	0.0310	33.7		
Pickup	6	1984	688	0.336	21.0	16.4	20.1	17.9	3676		227	110	14.8	0.510	0.0304	33.0		
Pickup	6	1985	591	0.284	21.7	16.9	20.8	18.5	3588		228	117	14.0	0.535	0.0327	33.1		
Pickup	6	1986	601	0.237	21.1	16.5	19.9	17.9	3705		228	129	13.3	0.604	0.0354	33.2		
Pickup	6	1987	632	0.294	21.4	16.5	20.4	18.1	3647		222	136	12.5	0.638	0.0378	33.0		
Pickup	6	1988	746	0.304	21.4	16.4	20.5	18.1	3695		229	142	12.2	0.644	0.0388	33.4		
Pickup	6	1989	732	0.328	20.9	16.0	19.8	17.6	3869		240	145	12.5	0.627	0.0378	34.1		
Pickup	6	1990	593	0.323	21.0	15.9	20.1	17.7	3959		240	147	12.5	0.637	0.0376	35.0		
Pickup	6	1991	769	0.400	21.9	16.3	21.0	18.3	3807		237	147	12.2	0.641	0.0390	34.8		
Pickup	6	1992	792	0.430	21.2	15.7	20.4	17.7	3950		243	146	12.6	0.622	0.0375	35.0		
Pickup	6	1993	916	0.458	21.3	15.7	20.4	17.8	3944		239	150	12.4	0.645	0.0384	35.0		
Pickup	6	1994	1057	0.396	21.3	15.6	20.3	17.7	3984		245	162	11.8	0.675	0.0410	35.2		
Pickup	6	1995	679	0.299	20.8	15.1	19.9	17.2	4123		256	161	12.1	0.645	0.0396	35.4		
Pickup	6	1996	629	0.321	21.0	15.3	19.9	17.3	4104		249	168	11.7	0.688	0.0412	35.7		
Pickup	6	1997	674	0.280	21.5	15.4	20.3	17.6	4100		247	186	10.8	0.753	0.0453	36.2		
Pickup	6	1998	729	0.302	21.3	15.2	19.9	17.4	4064		238	180	11.0	0.760	0.0443	35.4		
Pickup	6	1999	794	0.312	20.9	14.9	19.4	17.0	4045		230	174	11.3	0.763	0.0430	34.5		
Pickup	6	2000	921	0.353	20.9	14.9	19.3	17.0	4080		228	175	11.3	0.774	0.0430	34.7		
Pickup	6	2001	854	0.339	20.7	14.7	19.0	16.8	4127		232	184	11.0	0.798	0.0447	34.6		
Pickup	6	2002	842	0.354	20.6	14.6	18.7	16.6	4192		232	186	11.0	0.806	0.0444	34.8		
Pickup	6	2003	852	0.344	20.9	14.7	18.9	16.8	4251		233	187	11.1	0.807	0.0441	35.7		
Pickup	6	2004	595	0.238	20.8	14.5	18.9	16.7	4256		227	192	10.8	0.849	0.0452	35.6		
Pickup	6	2005	529	0.230	21.1	14.5	19.2	16.9	4398		239	215	10.3	0.901	0.0492	37.1		
Pickup	6	2006	595	0.272	21.4	14.8	19.5	17.1	4450		237	221	10.1	0.937	0.0499	38.1		

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	5	2009		58.8%	0.5%	99.5%			100.0%					100.0%		100.0%	
Pickup	5	2010		61.0%	0.0%	100.0%			100.0%					100.0%		100.0%	
Pickup	5	2011		64.1%		100.0%			100.0%					100.0%		100.0%	
Pickup	5	2012		46.0%		100.0%			100.0%					100.0%		100.0%	
Pickup	6	1975		3.3%	16.3%												
Pickup	6	1976		5.3%	35.3%												
Pickup	6	1977		10.8%	29.6%												
Pickup	6	1978		11.4%	30.9%						0.3%						
Pickup	6	1979		11.7%	61.4%	2.4%					0.8%						
Pickup	6	1980		12.6%	65.4%	19.5%					0.2%						
Pickup	6	1981		10.2%	61.1%	21.9%											
Pickup	6	1982		8.9%	56.6%	30.2%											
Pickup	6	1983		23.5%	53.0%	32.1%											
Pickup	6	1984		25.8%	49.8%	30.5%											
Pickup	6	1985		26.8%	52.4%	33.5%				1.1%							
Pickup	6	1986		30.7%	53.0%	30.9%			23.3%	26.8%							
Pickup	6	1987		33.1%	46.1%	45.7%			50.4%	31.2%							
Pickup	6	1988		34.3%	49.8%	42.0%			53.9%	46.1%							
Pickup	6	1989		33.6%	51.5%	43.8%			52.7%	47.3%							
Pickup	6	1990		30.0%	46.3%	50.3%			62.2%	37.8%							
Pickup	6	1991		25.8%	51.7%	48.3%			43.6%	56.4%							
Pickup	6	1992		23.2%	48.6%	51.4%			56.4%	43.6%							
Pickup	6	1993		24.2%	45.3%	54.7%			58.5%	41.5%							
Pickup	6	1994		27.0%	39.0%	61.0%			71.1%	28.9%		94.6%	5.4%				
Pickup	6	1995		28.1%	42.7%	57.3%			69.6%	30.4%		98.6%		1.4%			
Pickup	6	1996		27.2%	33.5%	66.5%			100.0%			89.9%		10.1%			
Pickup	6	1997		21.5%	27.8%	72.2%			100.0%			95.8%		4.2%			
Pickup	6	1998		28.7%	28.0%	72.0%			100.0%			92.9%		7.1%			
Pickup	6	1999		33.0%	23.9%	76.1%			100.0%			92.4%		7.6%			
Pickup	6	2000		31.4%	21.7%	78.3%			100.0%			93.0%		7.0%			
Pickup	6	2001		28.2%	16.4%	83.6%			100.0%			88.4%		11.6%			
Pickup	6	2002		32.5%	15.1%	84.9%			100.0%			80.2%		19.8%			
Pickup	6	2003		30.5%	15.0%	85.0%			100.0%			86.1%		13.9%			
Pickup	6	2004		34.0%	15.6%	84.4%			100.0%			82.1%		17.9%			
Pickup	6	2005		30.2%	12.4%	87.6%			100.0%			65.9%		34.1%		34.1%	
Pickup	6	2006		36.5%	10.8%	89.2%			100.0%			49.6%		50.4%		50.4%	

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	6	2007	506	0.239	21.4	14.8	19.5	17.1	4513		239	219	10.3	0.923	0.0489	38.7		
Pickup	6	2008	434	0.242	21.4	14.8	19.5	17.1	4527		239	220	10.3	0.928	0.0490	38.8		
Pickup	6	2009	181	0.182	22.0	15.2	19.8	17.5	4479		243	226	9.9	0.939	0.0510	39.3		
Pickup	6	2010	210	0.164	21.8	15.1	19.8	17.4	4490		242	231	9.8	0.958	0.0517	39.2		
Pickup	6	2011	438	0.296	22.3	15.3	20.4	17.8	4930		233	269	9.4	1.173	0.0542	44.2		
Pickup	6	2012	371	0.278	22.8	15.6	20.9	18.2	5132		231	281	9.4	1.241	0.0545	46.8		
Pickup	8	1975	982	0.732	12.6	10.0	11.8	10.8	4274		353	158	12.7	0.446	0.0373	23.3		
Pickup	8	1976	1367	0.732	13.2	10.6	12.0	11.2	4360		359	155	13.1	0.430	0.0358	24.6		
Pickup	8	1977	1466	0.723	14.4	11.7	12.9	12.2	4366		360	164	12.6	0.457	0.0378	26.9		
Pickup	8	1978	1582	0.698	14.0	11.5	12.5	11.9	4386		353	162	12.7	0.460	0.0373	26.4		
Pickup	8	1979	1393	0.631	13.6	11.3	12.1	11.6	4566		347	156	13.8	0.449	0.0344	27.0		
Pickup	8	1980	500	0.348	15.9	12.8	14.6	13.6	4533		332	150	13.9	0.453	0.0333	31.3		
Pickup	8	1981	470	0.326	17.4	13.8	16.1	14.8	4311		312	143	13.8	0.461	0.0334	32.2		
Pickup	8	1982	476	0.331	17.8	14.2	16.5	15.1	4437		318	150	13.7	0.475	0.0341	34.4		
Pickup	8	1983	437	0.269	17.2	13.6	16.1	14.7	4430		317	152	13.5	0.483	0.0346	33.3		
Pickup	8	1984	561	0.275	16.9	13.3	15.9	14.4	4463		316	154	13.4	0.489	0.0347	32.6		
Pickup	8	1985	668	0.321	16.7	13.2	15.6	14.2	4437		315	159	13.0	0.506	0.0361	31.9		
Pickup	8	1986	675	0.267	17.4	13.6	16.3	14.7	4424		311	157	13.1	0.503	0.0356	32.8		
Pickup	8	1987	451	0.210	17.0	13.2	15.9	14.4	4482		320	170	12.6	0.527	0.0379	32.3		
Pickup	8	1988	800	0.325	17.5	13.4	16.7	14.8	4537		329	180	12.1	0.544	0.0397	33.6		
Pickup	8	1989	726	0.326	17.5	13.3	16.8	14.7	4502		330	184	11.9	0.556	0.0411	33.3		
Pickup	8	1990	688	0.375	17.3	13.0	16.8	14.5	4572		335	189	11.8	0.561	0.0414	33.4		
Pickup	8	1991	520	0.271	17.3	12.9	16.8	14.5	4542		331	190	11.6	0.573	0.0420	33.1		
Pickup	8	1992	577	0.313	17.4	12.9	17.0	14.6	4653		330	190	11.9	0.573	0.0410	34.0		
Pickup	8	1993	608	0.304	17.7	13.0	17.2	14.8	4691		331	200	11.3	0.606	0.0429	34.8		
Pickup	8	1994	906	0.339	17.6	12.9	16.9	14.7	4706		334	205	11.1	0.615	0.0437	34.5		
Pickup	8	1995	939	0.414	17.3	12.6	16.6	14.4	4752		333	201	11.4	0.606	0.0425	34.3		
Pickup	8	1996	771	0.394	17.7	12.8	17.0	14.6	4815		332	226	10.5	0.680	0.0470	35.3		
Pickup	8	1997	1269	0.527	18.3	13.1	17.6	15.1	4933		318	229	10.6	0.721	0.0465	37.3		
Pickup	8	1998	1070	0.443	18.0	12.8	17.3	14.8	4902		323	232	10.4	0.723	0.0477	36.4		
Pickup	8	1999	1359	0.534	18.1	12.9	17.1	14.9	5043		324	245	10.2	0.758	0.0490	37.5		
Pickup	8	2000	1254	0.480	18.8	13.4	17.5	15.3	4835		313	249	9.7	0.798	0.0517	37.1		
Pickup	8	2001	1388	0.551	18.2	12.9	17.0	14.8	5022		316	252	9.9	0.801	0.0503	37.4		
Pickup	8	2002	1372	0.576	18.3	12.9	16.9	14.8	5137		310	261	9.8	0.843	0.0511	38.2		
Pickup	8	2003	1333	0.539	18.5	13.0	16.9	14.9	5133		311	265	9.7	0.855	0.0518	38.3		
Pickup	8	2004	1657	0.661	18.5	13.0	16.9	14.9	5364		317	280	9.7	0.881	0.0524	40.1		

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	6	2007		34.9%	8.8%	91.2%			100.0%			54.5%		45.5%		38.7%	
Pickup	6	2008		34.9%	7.3%	92.7%			100.0%			54.4%		45.6%		19.5%	
Pickup	6	2009		48.1%	4.7%	95.3%			100.0%			38.5%		61.5%		18.2%	
Pickup	6	2010		50.9%	4.1%	95.9%			100.0%			35.3%		64.7%		64.7%	
Pickup	6	2011		53.0%	2.7%	97.3%		25.8%	74.2%			25.6%		74.4%		74.4%	
Pickup	6	2012		52.2%	2.1%	97.9%		34.7%	65.3%			15.7%		84.3%		84.3%	
Pickup	8	1975		18.0%	35.4%												
Pickup	8	1976		27.5%	32.4%												
Pickup	8	1977		27.7%	27.3%												
Pickup	8	1978		34.7%	27.9%						1.6%						
Pickup	8	1979		10.2%	18.6%	1.5%					3.7%						
Pickup	8	1980		28.5%	19.5%	47.9%					9.6%						
Pickup	8	1981		17.0%	16.8%	62.2%					4.5%						
Pickup	8	1982		20.7%	13.7%	56.5%					15.4%						
Pickup	8	1983		25.6%	11.5%	66.5%					7.1%						
Pickup	8	1984		29.1%	12.8%	65.7%					3.9%						
Pickup	8	1985		27.8%	10.3%	64.4%			13.1%		1.8%						
Pickup	8	1986		30.2%	11.9%	72.0%			32.2%		1.0%						
Pickup	8	1987	0.1%	34.1%	14.4%	54.8%			30.0%	45.3%	0.6%						
Pickup	8	1988	0.0%	38.1%	13.4%	69.4%			27.4%	71.4%	0.6%						
Pickup	8	1989		38.8%	18.8%	72.1%			29.3%	70.2%	0.5%						
Pickup	8	1990		38.0%	14.0%	79.1%			30.2%	69.3%	0.5%						
Pickup	8	1991		38.5%	12.7%	85.3%			30.8%	68.7%	0.6%						
Pickup	8	1992		40.7%	12.5%	87.4%			44.2%	55.4%	0.4%						
Pickup	8	1993	0.0%	43.0%	8.1%	91.9%			45.1%	54.9%							
Pickup	8	1994		45.4%	6.1%	93.9%			46.3%	53.7%		100.0%					
Pickup	8	1995		48.9%	9.4%	90.6%			50.1%	49.9%		100.0%					
Pickup	8	1996		45.0%	5.3%	94.7%			99.5%		0.5%	100.0%					
Pickup	8	1997		52.2%	4.6%	95.4%			99.9%		0.1%	100.0%					
Pickup	8	1998		52.6%	4.1%	95.9%			99.9%		0.1%	100.0%					
Pickup	8	1999		62.5%	2.4%	97.6%			100.0%		0.0%	100.0%					
Pickup	8	2000		54.1%	2.0%	98.0%			100.0%			90.8%		9.2%			
Pickup	8	2001		51.2%	2.0%	98.0%			100.0%			94.7%		5.3%			
Pickup	8	2002		52.0%	1.5%	98.5%			100.0%			93.4%		6.6%			
Pickup	8	2003		51.5%	1.2%	98.8%			100.0%			93.6%		6.4%			
Pickup	8	2004		54.2%	0.6%	99.4%			100.0%			72.7%	21.6%	5.6%		21.6%	0.0%

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	8	2005	1509	0.656	18.7	12.9	17.2	15.1	5370		316	287	9.5	0.906	0.0536	40.5		
Pickup	8	2006	1349	0.617	19.0	13.1	17.3	15.2	5390		314	284	9.6	0.904	0.0529	41.1		
Pickup	8	2007	1419	0.672	19.2	13.3	17.8	15.5	5544		318	299	9.5	0.937	0.0539	43.1		
Pickup	8	2008	1178	0.657	19.6	13.4	18.2	15.8	5601		321	313	9.2	0.974	0.0559	44.6		
Pickup	8	2009	694	0.702	20.1	13.7	18.8	16.2	5581		318	308	9.2	0.971	0.0553	45.4		
Pickup	8	2010	960	0.752	20.3	13.9	19.0	16.4	5654		318	315	9.2	0.990	0.0557	46.4		
Pickup	8	2011	923	0.624	20.4	13.9	19.2	16.5	5617		321	338	8.6	1.054	0.0602	46.5		
Pickup	8	2012	850	0.636	20.5	14.0	19.3	16.6	5559		322	342	8.5	1.062	0.0616	46.2		
Pickup	Other	1975																
Pickup	Other	1976																
Pickup	Other	1977																
Pickup	Other	1978																
Pickup	Other	1979																
Pickup	Other	1980																
Pickup	Other	1981																
Pickup	Other	1982																
Pickup	Other	1983																
Pickup	Other	1984																
Pickup	Other	1985																
Pickup	Other	1986																
Pickup	Other	1987																
Pickup	Other	1988																
Pickup	Other	1989																
Pickup	Other	1990																
Pickup	Other	1991																
Pickup	Other	1992																
Pickup	Other	1993																
Pickup	Other	1994																
Pickup	Other	1995																
Pickup	Other	1996																
Pickup	Other	1997																
Pickup	Other	1998																
Pickup	Other	1999																
Pickup	Other	2000																
Pickup	Other	2001																
Pickup	Other	2002																

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	8	2005		54.7%	0.4%	99.6%			100.0%			66.7%	21.4%	11.9%		33.3%	0.1%
Pickup	8	2006		53.4%	0.4%	99.6%			100.0%			60.6%	24.1%	15.2%		39.4%	0.2%
Pickup	8	2007		52.7%	0.2%	99.8%			100.0%			66.4%	18.6%	15.0%		32.5%	0.0%
Pickup	8	2008		56.0%	0.2%	99.8%			100.0%			64.9%	16.8%	18.3%		35.0%	
Pickup	8	2009		56.0%		99.7%	0.3%		100.0%			72.1%	23.4%	4.6%		31.3%	0.3%
Pickup	8	2010		62.3%		99.9%	0.1%		100.0%			45.6%	39.6%	14.8%		61.2%	0.1%
Pickup	8	2011		68.6%		99.8%	0.2%		100.0%			67.8%		32.2%		95.0%	0.2%
Pickup	8	2012		57.1%		99.6%	0.4%		100.0%			63.4%		36.6%		94.2%	0.4%
Pickup	Other	1975															
Pickup	Other	1976															
Pickup	Other	1977															
Pickup	Other	1978															
Pickup	Other	1979															
Pickup	Other	1980															
Pickup	Other	1981															
Pickup	Other	1982															
Pickup	Other	1983															
Pickup	Other	1984															
Pickup	Other	1985															
Pickup	Other	1986															
Pickup	Other	1987															
Pickup	Other	1988															
Pickup	Other	1989															
Pickup	Other	1990															
Pickup	Other	1991															
Pickup	Other	1992															
Pickup	Other	1993															
Pickup	Other	1994															
Pickup	Other	1995															
Pickup	Other	1996															
Pickup	Other	1997															
Pickup	Other	1998															
Pickup	Other	1999															
Pickup	Other	2000															
Pickup	Other	2001															
Pickup	Other	2002															

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP						
Pickup	Other	2003																
Pickup	Other	2004	3	0.001	13.0	8.6	13.6	10.8	5135		505	500	5.9	0.990	0.0975	27.8		
Pickup	Other	2005	5	0.002	12.3	8.4	12.1	10.2	5825		505	500	6.5	0.990	0.0860	29.7		
Pickup	Other	2006	2	0.001	12.3	8.4	12.1	10.2	5833		505	500	6.5	0.990	0.0859	29.6		
Pickup	Other	2007																
Pickup	Other	2008																
Pickup	Other	2009																
Pickup	Other	2010																
Pickup	Other	2011																
Pickup	Other	2012																

2012 FE Trends Report

Appendix J: Fuel Economy Data Stratified by Vehicle Type and Cylinder Count

Vehicle Type*	Cylinders	Model Year	Drivetrain		Transmission			Fuel Metering				Number of Valves				VVT	Hybrid
			Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five		
Pickup	Other	2003															
Pickup	Other	2004			100.0%				100.0%					100.0%			
Pickup	Other	2005			35.0%	65.0%			100.0%			100.0%					
Pickup	Other	2006			33.4%	66.6%			100.0%			100.0%					
Pickup	Other	2007															
Pickup	Other	2008															
Pickup	Other	2009															
Pickup	Other	2010															
Pickup	Other	2011															
Pickup	Other	2012															

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix K Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	Carbureted	1986	3812	0.344	29.8	22.8	29.0	25.3	2872	105.7	161	96	14.0	0.658	0.0330	36.6	2754	3873	67%	2%	34%	50%
Car	Carbureted	1987	2871	0.265	30.6	23.5	29.3	25.9	2802	102.9	148	92	14.3	0.688	0.0322	36.4	2732	3757	73%	3%	37%	52%
Car	Carbureted	1988	1747	0.161	32.5	25.0	30.5	27.3	2725	101.7	131	88	14.3	0.746	0.0319	37.2	2847	3805	82%	1%	44%	52%
Car	Carbureted	1989	975	0.096	33.2	25.4	31.0	27.8	2704	100.0	118	87	14.1	0.799	0.0322	37.4	2817	3770	90%	0%	41%	53%
Car	Carbureted	1990	125	0.014	31.0	23.4	29.1	25.9	2980	105.8	148	96	14.0	0.763	0.0324	37.9	2742	4096	71%		42%	58%
Car	Carbureted	1991	5	0.001	32.1	25.0	28.3	26.5	2561	92.1	95	75	14.9	0.815	0.0296	33.9	2557	3131	66%		100%	
Car	Carbureted	1992	4	0.000	26.0	20.1	22.9	21.4	3212	97.7	125	90	15.4	0.738	0.0283	34.4	2168	3364	20%		100%	
Car	Carbureted	1993	3	0.000	22.5	17.3	20.0	18.6	3500	100.0	138	96	15.7	0.696	0.0274	32.5	1856	3248			100%	
Car	Carbureted	1994																				
Car	Carbureted	1995																				
Car	Carbureted	1996																				
Car	Carbureted	1997																				
Car	Carbureted	1998																				
Car	Carbureted	1999																				
Car	Carbureted	2000																				
Car	Carbureted	2001																				
Car	Carbureted	2002																				
Car	Carbureted	2003																				
Car	Carbureted	2004																				
Car	Carbureted	2005																				
Car	Carbureted	2006																				
Car	Carbureted	2007																				
Car	Carbureted	2008																				
Car	Carbureted	2009																				
Car	Carbureted	2010																				
Car	Carbureted	2011																				
Car	Carbureted	2012																				
Car	Diesel Fixed Timing 2 Valve	1986	35	0.003	40.5	32.0	37.5	34.3	2906	106.2	123	74	17.8	0.584	0.0246	50.2	3759	5331	73%		71%	11%
Car	Diesel Fixed Timing 2 Valve	1987	27	0.002	30.5	24.3	27.5	25.7	3584	110.8	172	129	13.4	0.737	0.0355	46.5	2910	5137	13%		14%	
Car	Diesel Fixed Timing 2 Valve	1988	1	0.000	37.4	29.5	33.6	31.3	3000	95.9	152	93	14.6	0.612	0.0310	47.0	3005	4507				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	Diesel Fixed Timing 2 Valve	1989	4	0.000	45.5	35.0	41.6	37.9	2813	103.0	102	55	20.6	0.541	0.0195	53.3	3930	5494	92%		92%	
Car	Diesel Fixed Timing 2 Valve	1990	4	0.000	36.7	28.1	33.4	30.5	3280	107.5	141	93	16.9	0.643	0.0273	50.6	3400	5428	45%		45%	
Car	Diesel Fixed Timing 2 Valve	1991	11	0.001	35.3	26.9	32.0	29.2	3346	107.4	148	96	16.6	0.635	0.0276	49.4	3269	5297	44%		44%	
Car	Diesel Fixed Timing 2 Valve	1992	5	0.001	32.3	24.5	29.4	26.7	3691	110.2	154	115	14.9	0.737	0.0308	49.1	3013	5419	20%		20%	
Car	Diesel Fixed Timing 2 Valve	1993																				
Car	Diesel Fixed Timing 2 Valve	1994	1	0.000	27.8	20.0	26.9	23.0	5000	123.7	210	148	15.2	0.705	0.0296	57.5	2844	7111				
Car	Diesel Fixed Timing 2 Valve	1995	0	0.000	27.8	19.9	26.8	22.9	5000	123.7	210	148	15.2	0.705	0.0296	57.3	2834	7086				
Car	Diesel Fixed Timing 2 Valve	1996	5	0.001	47.2	33.8	42.7	37.9	3500	119.6	116	90	16.5	0.776	0.0257	66.3	4529	7925	100%		100%	
Car	Diesel Fixed Timing 2 Valve	1997	4	0.000	49.6	35.0	44.7	39.5	3323	110.1	116	90	15.8	0.776	0.0272	65.5	4343	7233	100%		100%	
Car	Diesel Fixed Timing 2 Valve	1998	12	0.001	51.1	35.8	45.5	40.4	3000	100.7	116	90	14.6	0.776	0.0300	60.6	4065	6097	100%		100%	0%
Car	Diesel Fixed Timing 2 Valve	1999	9	0.001	52.1	36.5	45.2	40.7	3000	99.9	116	90	14.7	0.776	0.0300	61.1	4071	6106	100%		96%	4%
Car	Diesel Fixed Timing 2 Valve	2000	21	0.001	49.8	34.3	43.8	38.9	3000	100.0	116	90	14.8	0.776	0.0300	58.6	3905	5858	100%		69%	31%
Car	Diesel Fixed Timing 2 Valve	2001	23	0.001	49.1	33.5	43.1	38.2	3103	100.1	116	90	15.2	0.776	0.0291	59.4	3841	5945	100%		60%	40%
Car	Diesel Fixed Timing 2 Valve	2002	33	0.002	47.8	32.3	42.2	37.1	3226	101.7	116	90	15.7	0.776	0.0281	59.9	3794	6109	100%		43%	57%
Car	Diesel Fixed Timing 2 Valve	2003	30	0.002	49.9	33.5	43.1	38.3	3207	105.7	116	90	15.6	0.776	0.0282	61.5	4065	6531	100%		69%	32%
Car	Diesel Fixed Timing 2 Valve	2004	22	0.001	44.3	29.1	39.8	34.3	3319	106.7	117	105	14.3	0.897	0.0317	57.1	3681	6103	100%		50%	50%
Car	Diesel Fixed Timing 2 Valve	2005	23	0.001	43.4	28.5	38.5	33.5	3470	111.0	117	105	14.8	0.899	0.0303	58.0	3712	6446	100%		39%	61%
Car	Diesel Fixed Timing 2 Valve	2006	45	0.003	44.5	29.9	37.6	33.9	3474	105.1	116	100	15.4	0.862	0.0288	58.8	3560	6185	100%		37%	63%
Car	Diesel Fixed Timing 2 Valve	2007																				
Car	Diesel Fixed Timing 2 Valve	2008																				
Car	Diesel Fixed Timing 2 Valve	2009																				
Car	Diesel Fixed Timing 2 Valve	2010																				
Car	Diesel Fixed Timing 2 Valve	2011																				
Car	Diesel Fixed Timing 2 Valve	2012																				
Car	Diesel Fixed Timing 4 Valve	1986																				
Car	Diesel Fixed Timing 4 Valve	1987																				
Car	Diesel Fixed Timing 4 Valve	1988																				
Car	Diesel Fixed Timing 4 Valve	1989																				
Car	Diesel Fixed Timing 4 Valve	1990																				
Car	Diesel Fixed Timing 4 Valve	1991																				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	Diesel Fixed Timing 4 Valve	1992																				
Car	Diesel Fixed Timing 4 Valve	1993																				
Car	Diesel Fixed Timing 4 Valve	1994																				
Car	Diesel Fixed Timing 4 Valve	1995	5	0.001	34.5	25.1	31.9	28.2	4000	106.4	183	134	13.7	0.732	0.0335	56.4	2998	5996				
Car	Diesel Fixed Timing 4 Valve	1996	3	0.000	35.8	25.6	33.5	29.1	4000	110.3	183	134	13.7	0.732	0.0335	58.3	3214	6427				
Car	Diesel Fixed Timing 4 Valve	1997	3	0.000	33.9	24.1	31.5	27.5	4000	110.1	182	134	13.7	0.736	0.0335	54.9	3024	6047				100%
Car	Diesel Fixed Timing 4 Valve	1998	3	0.000	34.9	24.1	33.6	28.3	4000	110.1	182	174	11.1	0.956	0.0435	56.7	3118	6237				100%
Car	Diesel Fixed Timing 4 Valve	1999	5	0.000	34.8	23.9	33.2	28.2	4000	110.1	182	174	11.1	0.956	0.0435	56.3	3099	6198				100%
Car	Diesel Fixed Timing 4 Valve	2000																				
Car	Diesel Fixed Timing 4 Valve	2001																				
Car	Diesel Fixed Timing 4 Valve	2002																				
Car	Diesel Fixed Timing 4 Valve	2003																				
Car	Diesel Fixed Timing 4 Valve	2004																				
Car	Diesel Fixed Timing 4 Valve	2005	7	0.001	35.5	23.1	33.4	28.0	4000	111.6	197	201	9.9	1.020	0.0503	56.0	3127	6254				100%
Car	Diesel Fixed Timing 4 Valve	2006	5	0.001	35.5	23.1	33.4	28.0	4000	111.6	197	201	9.9	1.020	0.0503	56.0	3127	6254				100%
Car	Diesel Fixed Timing 4 Valve	2007	4	0.001	31.8	20.9	30.0	25.3	4572	130.7	182	212	9.4	1.164	0.0474	57.6	3281	7584		38%		100%
Car	Diesel Fixed Timing 4 Valve	2008	5	0.001	32.5	21.6	29.8	25.6	4358	123.6	182	211	7.4	1.160	0.0493	55.6	3146	6911		24%		100%
Car	Diesel Fixed Timing 4 Valve	2009	39	0.004	44.4	29.0	39.5	34.2	3533	107.1	122	143	8.3	1.166	0.0404	60.4	3666	6470	96%	1%	23%	77%
Car	Diesel Fixed Timing 4 Valve	2010	59	0.006	45.2	29.2	40.9	34.9	3515	113.8	122	144	8.7	1.175	0.0408	61.4	3977	6982	97%		26%	3%
Car	Diesel Fixed Timing 4 Valve	2011	62	0.007	44.2	28.6	40.4	34.3	3556	107.9	127	154	8.5	1.198	0.0430	61.1	3720	6595	89%		22%	78%
Car	Diesel Fixed Timing 4 Valve	2012	88	0.008	45.2	29.6	40.8	35.1	3521	111.3	121	141	8.7	1.169	0.0401	61.8	3912	6879	99%	1%	22%	1%
Car	Diesel Variable Timing 2 Valve	1986																				
Car	Diesel Variable Timing 2 Valve	1987																				
Car	Diesel Variable Timing 2 Valve	1988																				
Car	Diesel Variable Timing 2 Valve	1989																				
Car	Diesel Variable Timing 2 Valve	1990																				
Car	Diesel Variable Timing 2 Valve	1991																				
Car	Diesel Variable Timing 2 Valve	1992																				
Car	Diesel Variable Timing 2 Valve	1993																				
Car	Diesel Variable Timing 2 Valve	1994																				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	Diesel Variable Timing 2 Valve	1995																				
Car	Diesel Variable Timing 2 Valve	1996																				
Car	Diesel Variable Timing 2 Valve	1997																				
Car	Diesel Variable Timing 2 Valve	1998																				
Car	Diesel Variable Timing 2 Valve	1999																				
Car	Diesel Variable Timing 2 Valve	2000																				
Car	Diesel Variable Timing 2 Valve	2001																				
Car	Diesel Variable Timing 2 Valve	2002																				
Car	Diesel Variable Timing 2 Valve	2003																				
Car	Diesel Variable Timing 2 Valve	2004																				
Car	Diesel Variable Timing 2 Valve	2005	6	0.000	36.1	23.4	34.2	28.6	3500	110.6	121	134	12.3	1.107	0.0383	50.0	3159	5529	100%			100%
Car	Diesel Variable Timing 2 Valve	2006																				
Car	Diesel Variable Timing 2 Valve	2007																				
Car	Diesel Variable Timing 2 Valve	2008																				
Car	Diesel Variable Timing 2 Valve	2009																				
Car	Diesel Variable Timing 2 Valve	2010																				
Car	Diesel Variable Timing 2 Valve	2011																				
Car	Diesel Variable Timing 2 Valve	2012																				
Car	Diesel Variable Timing 4 Valve	1986																				
Car	Diesel Variable Timing 4 Valve	1987																				
Car	Diesel Variable Timing 4 Valve	1988																				
Car	Diesel Variable Timing 4 Valve	1989																				
Car	Diesel Variable Timing 4 Valve	1990																				
Car	Diesel Variable Timing 4 Valve	1991																				
Car	Diesel Variable Timing 4 Valve	1992																				
Car	Diesel Variable Timing 4 Valve	1993																				
Car	Diesel Variable Timing 4 Valve	1994																				
Car	Diesel Variable Timing 4 Valve	1995																				
Car	Diesel Variable Timing 4 Valve	1996																				
Car	Diesel Variable Timing 4 Valve	1997																				

2012 FE Trends Report

Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	Diesel Variable Timing 4 Valve	1998																				
Car	Diesel Variable Timing 4 Valve	1999																				
Car	Diesel Variable Timing 4 Valve	2000																				
Car	Diesel Variable Timing 4 Valve	2001																				
Car	Diesel Variable Timing 4 Valve	2002																				
Car	Diesel Variable Timing 4 Valve	2003																				
Car	Diesel Variable Timing 4 Valve	2004																				
Car	Diesel Variable Timing 4 Valve	2005																				
Car	Diesel Variable Timing 4 Valve	2006																				
Car	Diesel Variable Timing 4 Valve	2007																				
Car	Diesel Variable Timing 4 Valve	2008																				
Car	Diesel Variable Timing 4 Valve	2009	1	0.001	36.0	22.7	36.1	28.8	4000	104.6	183	265	6.0	1.448	0.0663	57.6	3014	6027				100%
Car	Diesel Variable Timing 4 Valve	2010	2	0.001	45.4	29.4	41.0	35.1	3500	109.0	120	140	9.3	1.167	0.0400	61.4	3823	6691	100%			
Car	Diesel Variable Timing 4 Valve	2011	3	0.001	34.0	21.8	33.4	27.2	4500	111.6	182	210	7.6	1.154	0.0467	61.1	3032	6822				100%
Car	Diesel Variable Timing 4 Valve	2012	2	0.001	33.3	21.5	32.4	26.6	4500	111.6	182	210	6.7	1.154	0.0467	59.8	2966	6673				100%
Car	GDI Fixed Timing 4 Valve	1986																				
Car	GDI Fixed Timing 4 Valve	1987																				
Car	GDI Fixed Timing 4 Valve	1988																				
Car	GDI Fixed Timing 4 Valve	1989																				
Car	GDI Fixed Timing 4 Valve	1990																				
Car	GDI Fixed Timing 4 Valve	1991																				
Car	GDI Fixed Timing 4 Valve	1992																				
Car	GDI Fixed Timing 4 Valve	1993																				
Car	GDI Fixed Timing 4 Valve	1994																				
Car	GDI Fixed Timing 4 Valve	1995																				
Car	GDI Fixed Timing 4 Valve	1996																				
Car	GDI Fixed Timing 4 Valve	1997																				
Car	GDI Fixed Timing 4 Valve	1998																				
Car	GDI Fixed Timing 4 Valve	1999																				
Car	GDI Fixed Timing 4 Valve	2000																				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	GDI Fixed Timing 4 Valve	2001																				
Car	GDI Fixed Timing 4 Valve	2002																				
Car	GDI Fixed Timing 4 Valve	2003																				
Car	GDI Fixed Timing 4 Valve	2004																				
Car	GDI Fixed Timing 4 Valve	2005																				
Car	GDI Fixed Timing 4 Valve	2006																				
Car	GDI Fixed Timing 4 Valve	2007	4	0.000	30.6	20.2	28.8	24.3	3000	77.2	98	168	9.0	1.714	0.0560	36.5	1879	2819	100%		48%	52%
Car	GDI Fixed Timing 4 Valve	2008	109	0.008	30.5	20.2	28.5	24.2	3751	104.3	121	200	9.4	1.653	0.0536	45.4	2523	4728	76%	25%	14%	75%
Car	GDI Fixed Timing 4 Valve	2009	95	0.010	30.7	20.6	28.1	24.3	3748	103.7	121	204	9.3	1.687	0.0547	45.6	2518	4714	66%	34%	10%	83%
Car	GDI Fixed Timing 4 Valve	2010																				
Car	GDI Fixed Timing 4 Valve	2011																				
Car	GDI Fixed Timing 4 Valve	2012																				
Car	GDI Fixed Timing 5 Valve	1986																				
Car	GDI Fixed Timing 5 Valve	1987																				
Car	GDI Fixed Timing 5 Valve	1988																				
Car	GDI Fixed Timing 5 Valve	1989																				
Car	GDI Fixed Timing 5 Valve	1990																				
Car	GDI Fixed Timing 5 Valve	1991																				
Car	GDI Fixed Timing 5 Valve	1992																				
Car	GDI Fixed Timing 5 Valve	1993																				
Car	GDI Fixed Timing 5 Valve	1994																				
Car	GDI Fixed Timing 5 Valve	1995																				
Car	GDI Fixed Timing 5 Valve	1996																				
Car	GDI Fixed Timing 5 Valve	1997																				
Car	GDI Fixed Timing 5 Valve	1998																				
Car	GDI Fixed Timing 5 Valve	1999																				
Car	GDI Fixed Timing 5 Valve	2000																				
Car	GDI Fixed Timing 5 Valve	2001																				
Car	GDI Fixed Timing 5 Valve	2002																				
Car	GDI Fixed Timing 5 Valve	2003																				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	GDI Fixed Timing 5 Valve	2004																				
Car	GDI Fixed Timing 5 Valve	2005																				
Car	GDI Fixed Timing 5 Valve	2006																				
Car	GDI Fixed Timing 5 Valve	2007																				
Car	GDI Fixed Timing 5 Valve	2008	1	0.000	20.4	13.5	20.3	16.7	4181	102.9	254	344	6.7	1.354	0.0825	34.9	1716	3581		100%	46%	54%
Car	GDI Fixed Timing 5 Valve	2009	0	0.000	20.3	13.4	20.3	16.6	4500	89.0	254	344	7.1	1.354	0.0764	37.4	1480	3331		100%	34%	66%
Car	GDI Fixed Timing 5 Valve	2010																				
Car	GDI Fixed Timing 5 Valve	2011																				
Car	GDI Fixed Timing 5 Valve	2012																				
Car	GDI Variable Timing 4 Valve	1986																				
Car	GDI Variable Timing 4 Valve	1987																				
Car	GDI Variable Timing 4 Valve	1988																				
Car	GDI Variable Timing 4 Valve	1989																				
Car	GDI Variable Timing 4 Valve	1990																				
Car	GDI Variable Timing 4 Valve	1991																				
Car	GDI Variable Timing 4 Valve	1992																				
Car	GDI Variable Timing 4 Valve	1993																				
Car	GDI Variable Timing 4 Valve	1994																				
Car	GDI Variable Timing 4 Valve	1995																				
Car	GDI Variable Timing 4 Valve	1996																				
Car	GDI Variable Timing 4 Valve	1997																				
Car	GDI Variable Timing 4 Valve	1998																				
Car	GDI Variable Timing 4 Valve	1999																				
Car	GDI Variable Timing 4 Valve	2000																				
Car	GDI Variable Timing 4 Valve	2001																				
Car	GDI Variable Timing 4 Valve	2002																				
Car	GDI Variable Timing 4 Valve	2003																				
Car	GDI Variable Timing 4 Valve	2004																				
Car	GDI Variable Timing 4 Valve	2005																				
Car	GDI Variable Timing 4 Valve	2006																				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	GDI Variable Timing 4 Valve	2007	22	0.001	34.4	23.1	30.7	26.9	3108	75.0	103	193	8.4	1.860	0.0618	42.0	2068	3164	78%		59%	41%
Car	GDI Variable Timing 4 Valve	2008	143	0.015	26.2	17.4	25.0	21.0	3890	108.5	192	270	7.8	1.466	0.0691	41.1	2298	4458	36%	21%	16%	82%
Car	GDI Variable Timing 4 Valve	2009	166	0.032	26.7	17.7	25.5	21.4	3968	102.1	185	282	7.7	1.559	0.0713	42.8	2207	4374	17%	37%	18%	80%
Car	GDI Variable Timing 4 Valve	2010	640	0.083	28.6	18.9	27.3	22.9	4021	119.1	170	244	8.8	1.451	0.0605	46.4	2761	5555	49%	29%	7%	82%
Car	GDI Variable Timing 4 Valve	2011	1275	0.154	30.4	19.9	29.2	24.3	3907	121.6	165	238	8.8	1.462	0.0607	47.8	3005	5839	61%	23%	4%	91%
Car	GDI Variable Timing 4 Valve	2012	2589	0.237	33.3	21.8	31.3	26.3	3604	114.4	154	220	8.9	1.443	0.0599	47.7	3077	5473	71%	12%	8%	78%
Car	Hybrid	1986																				
Car	Hybrid	1987																				
Car	Hybrid	1988																				
Car	Hybrid	1989																				
Car	Hybrid	1990																				
Car	Hybrid	1991																				
Car	Hybrid	1992																				
Car	Hybrid	1993																				
Car	Hybrid	1994																				
Car	Hybrid	1995																				
Car	Hybrid	1996																				
Car	Hybrid	1997																				
Car	Hybrid	1998																				
Car	Hybrid	1999																				
Car	Hybrid	2000	6	0.000	76.4	51.8	63.0	57.4	2000	50.0	61	67	11.0	1.098	0.0335	57.4	2870	2870	100%		100%	
Car	Hybrid	2001	3	0.000	71.2	49.3	56.3	53.0	2111	50.0	61	66	11.1	1.084	0.0315	55.9	2661	2797	100%		56%	
Car	Hybrid	2002	25	0.002	58.4	43.7	42.0	42.8	2933	96.3	89	70	17.8	0.786	0.0239	62.7	4103	6068	100%		3%	
Car	Hybrid	2003	47	0.003	56.9	40.8	42.8	41.9	2982	100.1	84	80	11.7	0.957	0.0269	62.5	4193	6266	100%		14%	
Car	Hybrid	2004	71	0.005	62.4	45.0	44.7	44.8	2994	108.4	88	79	10.9	0.901	0.0263	67.3	4886	7322	100%		7%	
Car	Hybrid	2005	172	0.011	58.3	41.4	42.5	42.0	3077	110.9	101	96	9.9	0.919	0.0306	65.7	4771	7289	100%		3%	11%
Car	Hybrid	2006	132	0.015	59.9	42.7	42.9	42.9	3088	110.2	95	93	10.1	0.983	0.0298	66.8	4806	7363	100%		0%	3%
Car	Hybrid	2007	290	0.022	55.2	39.7	40.0	39.9	3320	111.6	109	108	10.0	0.968	0.0316	66.8	4579	7454	99%			5%
Car	Hybrid	2008	271	0.025	57.6	41.7	40.9	41.2	3245	112.0	104	100	9.9	0.943	0.0300	67.4	4728	7541	99%	1%		3%
Car	Hybrid	2009	183	0.023	53.7	38.8	38.9	38.9	3418	112.2	115	114	9.7	0.982	0.0327	66.8	4470	7491	100%	0%		6%

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	Hybrid	2010																				
Car	Hybrid	2011																				
Car	Hybrid	2012																				
Car	Port Fixed Timing 2 Valve	1986	3698	0.334	25.6	19.2	25.9	21.8	3271	109.2	187	136	11.7	0.768	0.0414	35.7	2412	3928	63%	1%	23%	63%
Car	Port Fixed Timing 2 Valve	1987	3846	0.355	25.2	18.8	25.7	21.4	3309	110.4	192	139	11.6	0.762	0.0418	35.5	2394	3950	65%	1%	20%	68%
Car	Port Fixed Timing 2 Valve	1988	4765	0.439	25.9	19.1	26.3	22.0	3321	110.9	193	137	11.9	0.737	0.0409	36.6	2458	4078	69%	1%	16%	71%
Car	Port Fixed Timing 2 Valve	1989	4853	0.479	26.0	19.1	26.4	22.0	3323	112.1	190	135	12.0	0.739	0.0406	36.6	2486	4118	74%	1%	13%	73%
Car	Port Fixed Timing 2 Valve	1990	4429	0.499	25.9	18.8	26.3	21.8	3408	112.9	195	139	12.0	0.739	0.0405	37.2	2483	4214	79%	0%	10%	79%
Car	Port Fixed Timing 2 Valve	1991	4272	0.488	26.1	18.9	26.4	21.9	3365	113.0	191	144	11.6	0.768	0.0423	37.0	2514	4198	80%	0%	11%	80%
Car	Port Fixed Timing 2 Valve	1992	4740	0.568	26.2	18.7	26.6	21.9	3388	113.4	195	148	11.4	0.776	0.0432	37.2	2508	4235	80%	1%	9%	84%
Car	Port Fixed Timing 2 Valve	1993	5201	0.582	26.4	18.9	26.6	22.1	3357	113.3	193	145	11.5	0.766	0.0428	37.2	2536	4228	77%	0%	10%	84%
Car	Port Fixed Timing 2 Valve	1994	4801	0.549	26.4	18.7	26.6	22.0	3414	113.3	197	148	11.5	0.766	0.0429	37.6	2520	4277	74%	1%	9%	86%
Car	Port Fixed Timing 2 Valve	1995	4535	0.472	26.8	18.7	27.2	22.2	3418	114.1	200	158	11.0	0.802	0.0457	38.1	2574	4358	76%	0%	10%	90%
Car	Port Fixed Timing 2 Valve	1996	3467	0.424	26.7	18.6	26.9	22.1	3451	113.4	199	160	10.9	0.817	0.0460	38.2	2526	4338	74%	0%	10%	90%
Car	Port Fixed Timing 2 Valve	1997	3537	0.407	27.1	18.7	27.0	22.3	3409	113.7	193	160	10.8	0.836	0.0464	38.1	2561	4335	78%	0%	10%	90%
Car	Port Fixed Timing 2 Valve	1998	3373	0.400	26.4	18.2	26.3	21.7	3445	113.2	199	165	10.6	0.835	0.0475	37.5	2483	4252	76%	0%	9%	91%
Car	Port Fixed Timing 2 Valve	1999	3242	0.565	26.5	18.2	26.1	21.7	3459	112.8	199	164	10.7	0.830	0.0469	37.6	2467	4247	75%		9%	92%
Car	Port Fixed Timing 2 Valve	2000	3562	0.550	26.5	18.1	25.9	21.6	3505	113.2	199	169	10.6	0.854	0.0477	38.0	2473	4313	72%		9%	91%
Car	Port Fixed Timing 2 Valve	2001	3114	0.506	26.7	18.2	26.0	21.7	3507	113.8	199	172	10.4	0.872	0.0485	38.3	2495	4359	74%		8%	92%
Car	Port Fixed Timing 2 Valve	2002	2643	0.465	27.7	18.7	26.9	22.5	3461	112.9	198	172	10.3	0.882	0.0494	38.9	2557	4409	82%		8%	92%
Car	Port Fixed Timing 2 Valve	2003	2198	0.441	26.8	17.9	26.1	21.7	3638	115.9	207	184	10.1	0.891	0.0502	39.6	2534	4603	76%		5%	95%
Car	Port Fixed Timing 2 Valve	2004	1826	0.374	26.6	17.6	26.0	21.5	3678	115.8	218	194	9.7	0.891	0.0526	39.6	2506	4610	74%		6%	94%
Car	Port Fixed Timing 2 Valve	2005	1885	0.336	26.7	17.6	25.7	21.5	3752	120.4	220	199	9.8	0.917	0.0528	40.3	2597	4873	72%	6%	4%	96%
Car	Port Fixed Timing 2 Valve	2006	1366	0.263	26.3	17.2	25.7	21.2	3815	117.7	237	220	9.2	0.932	0.0573	40.6	2517	4800	69%	1%	4%	96%
Car	Port Fixed Timing 2 Valve	2007	841	0.225	25.3	16.7	24.6	20.4	3833	118.9	232	212	9.7	0.920	0.0549	39.1	2443	4682	60%	5%	6%	94%
Car	Port Fixed Timing 2 Valve	2008	551	0.187	24.7	16.2	24.4	20.0	3990	120.0	255	235	9.1	0.917	0.0593	40.1	2427	4858	54%	6%	6%	94%
Car	Port Fixed Timing 2 Valve	2009	159	0.115	24.3	16.0	23.8	19.7	4009	117.8	272	255	8.8	0.948	0.0647	39.6	2338	4744	30%	8%	8%	92%
Car	Port Fixed Timing 2 Valve	2010	138	0.077	24.2	15.9	23.9	19.6	4025	103.4	302	296	7.9	0.966	0.0742	39.6	2041	4169			31%	69%
Car	Port Fixed Timing 2 Valve	2011	117	0.039	24.5	16.2	24.3	20.0	4059	108.8	300	308	8.2	1.008	0.0761	40.7	2217	4493	16%		19%	81%
Car	Port Fixed Timing 2 Valve	2012	73	0.022	24.1	16.0	23.9	19.7	3750	92.5	312	389	6.9	1.193	0.1002	37.3	1914	3517	27%		48%	52%

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	Port Fixed Timing 3 Valve	1986	169	0.015	32.2	25.1	30.4	27.3	2626	92.1	112	105	11.8	0.943	0.0401	35.8	2500	3305	100%		66%	34%
Car	Port Fixed Timing 3 Valve	1987	185	0.017	32.4	24.9	30.9	27.3	2654	92.7	114	106	11.8	0.939	0.0401	36.3	2520	3369	100%		53%	47%
Car	Port Fixed Timing 3 Valve	1988	282	0.026	28.9	21.9	27.9	24.4	3051	107.6	131	122	11.9	0.942	0.0400	37.3	2634	4011	90%		39%	61%
Car	Port Fixed Timing 3 Valve	1989	567	0.056	28.4	21.3	27.5	23.9	3019	102.4	132	121	11.9	0.920	0.0401	36.2	2459	3711	84%		41%	59%
Car	Port Fixed Timing 3 Valve	1990	386	0.044	29.0	21.7	28.0	24.3	2915	99.9	131	119	11.8	0.915	0.0408	35.6	2454	3565	82%	1%	42%	51%
Car	Port Fixed Timing 3 Valve	1991	451	0.052	31.5	23.6	29.5	26.2	2710	102.2	113	103	12.4	0.921	0.0379	35.6	2704	3642	98%	1%	39%	60%
Car	Port Fixed Timing 3 Valve	1992	299	0.036	31.7	23.7	29.6	26.3	2667	100.6	114	104	12.2	0.923	0.0387	35.2	2683	3545	100%	0%	44%	56%
Car	Port Fixed Timing 3 Valve	1993	211	0.024	35.2	26.4	31.8	28.8	2451	96.8	93	92	12.5	0.988	0.0373	35.5	2829	3446	99%	1%	56%	31%
Car	Port Fixed Timing 3 Valve	1994	155	0.018	36.0	27.0	31.9	29.3	2392	96.3	89	85	13.0	0.955	0.0356	35.2	2845	3395	100%		50%	29%
Car	Port Fixed Timing 3 Valve	1995	102	0.011	37.1	26.9	34.2	30.2	2475	99.6	91	91	12.7	1.004	0.0368	37.4	3017	3730	100%		36%	36%
Car	Port Fixed Timing 3 Valve	1996	74	0.009	36.4	26.1	33.5	29.5	2478	100.7	91	91	12.7	1.002	0.0367	36.6	2977	3687	100%		32%	38%
Car	Port Fixed Timing 3 Valve	1997	83	0.010	35.3	25.0	33.0	28.6	2641	100.7	102	106	12.2	1.025	0.0391	37.9	2929	3816	86%		33%	67%
Car	Port Fixed Timing 3 Valve	1998	120	0.014	31.8	22.2	30.2	25.8	3116	104.6	139	150	11.1	1.058	0.0459	39.9	2746	4194	55%		18%	82%
Car	Port Fixed Timing 3 Valve	1999	175	0.015	30.1	20.9	28.8	24.5	3246	99.5	155	166	10.7	1.052	0.0486	39.4	2512	3938	47%		14%	86%
Car	Port Fixed Timing 3 Valve	2000	163	0.012	29.0	20.0	27.8	23.6	3403	105.4	162	173	10.8	1.054	0.0484	39.8	2535	4216	45%		14%	87%
Car	Port Fixed Timing 3 Valve	2001	174	0.014	26.1	17.8	25.0	21.2	3731	103.0	205	219	9.2	1.067	0.0571	39.4	2223	4079	16%	6%	13%	87%
Car	Port Fixed Timing 3 Valve	2002	168	0.013	25.5	17.4	24.2	20.6	3727	103.0	199	213	9.5	1.071	0.0557	38.3	2163	3961	15%	6%	12%	88%
Car	Port Fixed Timing 3 Valve	2003	186	0.014	23.8	16.2	22.8	19.3	3971	98.3	233	255	8.4	1.098	0.0636	38.5	1925	3820		3%	0%	100%
Car	Port Fixed Timing 3 Valve	2004	144	0.010	23.8	16.0	22.7	19.2	3972	95.3	228	244	8.8	1.065	0.0607	38.4	1845	3691		28%	3%	97%
Car	Port Fixed Timing 3 Valve	2005	130	0.009	24.2	16.2	23.1	19.5	3930	90.6	225	241	8.9	1.067	0.0607	38.5	1773	3521		23%	5%	95%
Car	Port Fixed Timing 3 Valve	2006	67	0.005	21.5	14.3	21.0	17.5	4191	101.5	289	306	7.6	1.049	0.0730	36.7	1766	3772		12%	6%	94%
Car	Port Fixed Timing 3 Valve	2007	20	0.004	20.2	13.5	19.8	16.5	4201	94.1	305	335	7.3	1.083	0.0782	34.6	1531	3279		6%	64%	36%
Car	Port Fixed Timing 3 Valve	2008	3	0.002	21.5	14.5	20.5	17.4	3977	64.7	262	358	6.8	1.325	0.0879	34.8	1115	2259			14%	86%
Car	Port Fixed Timing 3 Valve	2009	3	0.006	18.0	11.9	18.3	14.8	4649	80.3	369	509	5.3	1.381	0.1099	34.4	1174	2812				100%
Car	Port Fixed Timing 3 Valve	2010																				
Car	Port Fixed Timing 3 Valve	2011	0	0.000	18.2	12.0	18.7	15.0	5234	111.0	362	608	5.1	1.678	0.1166	39.4	1676	4445				100%
Car	Port Fixed Timing 3 Valve	2012	0	0.000	18.2	12.0	18.4	15.0	5222	114.3	356	585	5.2	1.642	0.1120	39.2	1716	4503				100%
Car	Port Fixed Timing 4 Valve	1986	176	0.016	27.8	21.4	26.9	23.6	3032	89.0	126	144	10.6	1.150	0.0470	36.1	2112	3189	57%		72%	23%
Car	Port Fixed Timing 4 Valve	1987	560	0.052	29.7	22.7	28.6	25.1	3067	98.9	125	131	11.5	1.046	0.0423	38.8	2536	3849	83%		44%	54%
Car	Port Fixed Timing 4 Valve	1988	773	0.071	28.9	21.9	28.0	24.4	3085	98.2	131	137	11.1	1.046	0.0441	37.9	2430	3729	92%	1%	35%	64%

2012 FE Trends Report
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Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	Port Fixed Timing 4 Valve	1989	879	0.087	28.6	21.5	27.7	24.1	3082	99.4	132	139	11.0	1.054	0.0449	37.3	2419	3704	85%	5%	31%	67%
Car	Port Fixed Timing 4 Valve	1990	1998	0.225	28.9	21.7	27.5	24.2	3022	98.5	125	134	11.2	1.068	0.0440	36.6	2400	3610	89%	3%	32%	67%
Car	Port Fixed Timing 4 Valve	1991	1826	0.209	28.7	21.4	27.2	23.9	3040	98.1	129	138	10.9	1.076	0.0451	36.4	2370	3584	83%	5%	36%	63%
Car	Port Fixed Timing 4 Valve	1992	2015	0.241	29.0	21.3	27.8	24.1	3103	101.5	130	138	11.1	1.069	0.0443	37.6	2486	3821	79%	3%	31%	69%
Car	Port Fixed Timing 4 Valve	1993	2357	0.264	28.9	21.0	27.9	24.0	3140	103.7	138	142	11.0	1.035	0.0448	37.8	2528	3923	90%	4%	26%	73%
Car	Port Fixed Timing 4 Valve	1994	2658	0.304	28.5	20.6	27.5	23.6	3180	104.9	143	148	11.0	1.035	0.0456	37.6	2510	3945	91%	0%	23%	75%
Car	Port Fixed Timing 4 Valve	1995	3921	0.408	29.1	20.7	28.3	24.0	3156	105.3	141	149	10.7	1.058	0.0465	37.9	2558	3997	84%	3%	20%	78%
Car	Port Fixed Timing 4 Valve	1996	3621	0.443	28.6	20.2	27.9	23.6	3211	107.7	147	152	10.7	1.044	0.0468	37.9	2565	4086	92%	3%	16%	83%
Car	Port Fixed Timing 4 Valve	1997	4053	0.466	28.7	20.2	27.9	23.6	3206	107.1	146	153	10.7	1.049	0.0469	37.9	2548	4062	91%	3%	15%	85%
Car	Port Fixed Timing 4 Valve	1998	3409	0.405	29.2	20.3	28.2	23.8	3252	108.0	145	153	10.7	1.063	0.0465	38.9	2604	4202	91%	4%	12%	87%
Car	Port Fixed Timing 4 Valve	1999	3900	0.306	28.5	19.7	27.5	23.3	3357	109.6	151	162	10.5	1.082	0.0478	39.1	2569	4291	92%	3%	10%	89%
Car	Port Fixed Timing 4 Valve	2000	3718	0.280	28.0	19.2	26.8	22.7	3380	110.3	153	165	10.5	1.081	0.0481	38.4	2524	4247	89%	3%	8%	90%
Car	Port Fixed Timing 4 Valve	2001	3199	0.271	27.7	18.9	26.5	22.4	3441	111.7	155	165	10.6	1.068	0.0476	38.7	2519	4326	91%	3%	9%	90%
Car	Port Fixed Timing 4 Valve	2002	2937	0.254	27.1	18.5	25.6	21.8	3447	112.2	160	174	10.2	1.094	0.0499	37.7	2470	4240	86%	5%	10%	89%
Car	Port Fixed Timing 4 Valve	2003	2485	0.224	28.2	19.2	26.4	22.6	3388	110.3	154	166	10.4	1.083	0.0486	38.4	2513	4241	88%	5%	13%	85%
Car	Port Fixed Timing 4 Valve	2004	2451	0.218	28.2	18.9	26.6	22.6	3447	113.3	158	175	10.1	1.113	0.0504	38.9	2573	4424	90%	6%	11%	87%
Car	Port Fixed Timing 4 Valve	2005	2360	0.190	28.2	18.8	26.2	22.4	3503	115.5	158	178	10.0	1.135	0.0505	39.3	2598	4552	83%	10%	9%	88%
Car	Port Fixed Timing 4 Valve	2006	2154	0.172	27.6	18.5	25.7	22.0	3601	119.7	164	185	9.9	1.138	0.0510	39.7	2639	4763	78%	10%	8%	89%
Car	Port Fixed Timing 4 Valve	2007	2422	0.195	28.8	19.2	26.9	22.9	3551	115.2	163	189	9.8	1.166	0.0523	40.8	2667	4706	83%	9%	8%	91%
Car	Port Fixed Timing 4 Valve	2008	2384	0.216	29.3	19.5	27.3	23.3	3526	114.5	162	188	9.8	1.162	0.0525	41.2	2702	4730	78%	11%	6%	92%
Car	Port Fixed Timing 4 Valve	2009	1006	0.149	30.1	20.0	27.8	23.8	3464	113.1	157	184	9.7	1.168	0.0524	41.3	2722	4672	79%	11%	5%	95%
Car	Port Fixed Timing 4 Valve	2010	377	0.051	30.1	20.0	28.1	23.9	3518	112.6	169	194	9.5	1.152	0.0542	42.3	2754	4764	59%	2%	4%	96%
Car	Port Fixed Timing 4 Valve	2011	172	0.022	31.7	21.0	29.7	25.2	3397	111.7	166	200	9.4	1.193	0.0571	43.1	2875	4809	75%	4%	7%	86%
Car	Port Fixed Timing 4 Valve	2012	18	0.005	32.1	21.7	28.6	25.2	3258	99.8	140	177	9.9	1.240	0.0526	41.4	2586	4139	60%	33%	12%	7%
Car	Port Fixed Timing 5 Valve	1986																				
Car	Port Fixed Timing 5 Valve	1987																				
Car	Port Fixed Timing 5 Valve	1988																				
Car	Port Fixed Timing 5 Valve	1989																				
Car	Port Fixed Timing 5 Valve	1990																				
Car	Port Fixed Timing 5 Valve	1991																				

2012 FE Trends Report
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Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	Port Fixed Timing 5 Valve	1992																				
Car	Port Fixed Timing 5 Valve	1993																				
Car	Port Fixed Timing 5 Valve	1994																				
Car	Port Fixed Timing 5 Valve	1995																				
Car	Port Fixed Timing 5 Valve	1996																				
Car	Port Fixed Timing 5 Valve	1997	8	0.001	28.0	19.3	28.2	23.1	3341	101.6	109	150	10.8	1.376	0.0451	38.6	2348	3917	32%	68%	35%	65%
Car	Port Fixed Timing 5 Valve	1998	33	0.004	29.0	19.8	28.9	23.8	3463	109.8	109	150	11.1	1.376	0.0434	41.3	2621	4541	77%	23%	49%	51%
Car	Port Fixed Timing 5 Valve	1999	73	0.005	28.6	19.4	28.6	23.4	3471	112.5	109	150	11.1	1.376	0.0433	40.7	2644	4591	80%	20%	34%	66%
Car	Port Fixed Timing 5 Valve	2000	111	0.007	28.1	19.4	26.8	22.8	3374	104.4	116	166	10.2	1.416	0.0490	38.6	2398	4036	73%	28%	49%	51%
Car	Port Fixed Timing 5 Valve	2001	182	0.012	27.6	19.0	26.3	22.4	3409	101.1	118	176	9.8	1.490	0.0512	38.2	2279	3860	64%	36%	57%	44%
Car	Port Fixed Timing 5 Valve	2002	201	0.012	27.5	18.6	26.5	22.3	3582	106.2	122	186	9.7	1.552	0.0519	40.0	2381	4249	69%	31%	31%	65%
Car	Port Fixed Timing 5 Valve	2003	212	0.013	28.2	19.0	26.8	22.7	3581	107.0	121	183	9.8	1.539	0.0510	40.6	2436	4349	74%	26%	30%	63%
Car	Port Fixed Timing 5 Valve	2004	160	0.010	27.8	18.5	26.4	22.3	3660	106.5	121	184	10.0	1.534	0.0502	40.8	2383	4352	65%	36%	25%	67%
Car	Port Fixed Timing 5 Valve	2005	64	0.004	28.3	18.8	26.8	22.6	3636	103.6	112	175	10.2	1.561	0.0483	41.2	2346	4263	71%	29%	24%	64%
Car	Port Fixed Timing 5 Valve	2006	6	0.000	29.7	19.9	27.4	23.6	3840	87.9	109	174	10.8	1.596	0.0460	45.4	2083	4001	96%	4%	11%	10%
Car	Port Fixed Timing 5 Valve	2007	2	0.000	20.3	13.4	20.2	16.6	4151	101.9	254	344	6.7	1.354	0.0831	34.5	1695	3510		100%	49%	51%
Car	Port Fixed Timing 5 Valve	2008																				
Car	Port Fixed Timing 5 Valve	2009																				
Car	Port Fixed Timing 5 Valve	2010																				
Car	Port Fixed Timing 5 Valve	2011																				
Car	Port Fixed Timing 5 Valve	2012																				
Car	Port Variable Timing 2 Valve	1986																				
Car	Port Variable Timing 2 Valve	1987																				
Car	Port Variable Timing 2 Valve	1988																				
Car	Port Variable Timing 2 Valve	1989																				
Car	Port Variable Timing 2 Valve	1990																				
Car	Port Variable Timing 2 Valve	1991																				
Car	Port Variable Timing 2 Valve	1992	5	0.001	18.2	13.3	18.0	15.3	4500	50.0	303	322	7.5	1.063	0.0716	34.4	765	1721				
Car	Port Variable Timing 2 Valve	1993	0	0.000	17.9	12.9	18.1	15.1	4000	82.3	329	345	6.4	1.049	0.0863	30.2	1242	2485			52%	49%
Car	Port Variable Timing 2 Valve	1994	0	0.000	16.6	11.0	19.8	14.2	4500	90.8	340	377	6.6	1.109	0.0838	32.0	1290	2903			100%	

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	Port Variable Timing 2 Valve	1995	8	0.001	22.2	15.5	23.0	18.6	3581	57.7	229	275	7.1	1.209	0.0768	33.2	1061	1931			80%	7%
Car	Port Variable Timing 2 Valve	1996	8	0.001	21.0	14.6	21.5	17.5	3646	68.2	236	296	6.8	1.276	0.0816	32.2	1194	2226		35%	76%	15%
Car	Port Variable Timing 2 Valve	1997	7	0.001	21.3	14.7	21.8	17.7	3597	65.1	231	292	6.8	1.282	0.0816	32.0	1152	2105		29%	78%	10%
Car	Port Variable Timing 2 Valve	1998	4	0.000	21.4	14.8	21.6	17.7	3806	78.3	253	286	7.2	1.152	0.0754	33.7	1362	2677		12%	59%	31%
Car	Port Variable Timing 2 Valve	1999	3	0.000	22.0	15.0	22.7	18.3	4153	118.0	266	304	7.3	1.149	0.0735	38.0	2169	4477		85%		100%
Car	Port Variable Timing 2 Valve	2000																				
Car	Port Variable Timing 2 Valve	2001	38	0.002	25.6	17.4	24.9	20.8	3455	101.8	173	177	9.7	1.023	0.0512	36.0	2124	3660	98%		46%	54%
Car	Port Variable Timing 2 Valve	2002																				
Car	Port Variable Timing 2 Valve	2003																				
Car	Port Variable Timing 2 Valve	2004																				
Car	Port Variable Timing 2 Valve	2005	71	0.004	36.3	24.7	31.2	28.1	3000	116.6	110	131	11.1	1.188	0.0435	42.1	3274	4911	100%		9%	92%
Car	Port Variable Timing 2 Valve	2006	191	0.014	27.9	18.5	26.3	22.3	3670	117.2	205	221	9.1	1.090	0.0595	41.1	2673	4845	94%	3%	6%	94%
Car	Port Variable Timing 2 Valve	2007	513	0.055	28.5	18.6	27.6	22.9	3836	117.1	212	205	9.5	0.973	0.0535	43.9	2691	5150	100%		1%	99%
Car	Port Variable Timing 2 Valve	2008	406	0.046	27.8	18.0	27.8	22.5	3980	117.9	216	215	9.4	0.991	0.0540	44.9	2666	5307	99%			100%
Car	Port Variable Timing 2 Valve	2009	308	0.044	27.2	17.6	27.0	22.0	4050	118.5	234	234	9.0	0.999	0.0576	44.7	2630	5312	89%	0%	3%	97%
Car	Port Variable Timing 2 Valve	2010	296	0.068	30.0	19.5	29.2	24.1	3880	115.9	227	233	8.8	1.044	0.0587	48.2	2933	5556	77%	1%	3%	80%
Car	Port Variable Timing 2 Valve	2011	255	0.096	28.4	18.6	28.5	23.2	4016	121.2	230	228	9.2	0.994	0.0559	47.1	2871	5703	86%	2%	2%	93%
Car	Port Variable Timing 2 Valve	2012	119	0.067	32.4	21.3	30.3	25.6	3807	110.5	234	251	8.4	1.123	0.0614	52.7	3226	5758	44%	7%	8%	48%
Car	Port Variable Timing 3 Valve	1986																				
Car	Port Variable Timing 3 Valve	1987																				
Car	Port Variable Timing 3 Valve	1988																				
Car	Port Variable Timing 3 Valve	1989																				
Car	Port Variable Timing 3 Valve	1990																				
Car	Port Variable Timing 3 Valve	1991																				
Car	Port Variable Timing 3 Valve	1992																				
Car	Port Variable Timing 3 Valve	1993																				
Car	Port Variable Timing 3 Valve	1994																				
Car	Port Variable Timing 3 Valve	1995																				
Car	Port Variable Timing 3 Valve	1996																				
Car	Port Variable Timing 3 Valve	1997																				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	Port Variable Timing 3 Valve	1998																				
Car	Port Variable Timing 3 Valve	1999																				
Car	Port Variable Timing 3 Valve	2000																				
Car	Port Variable Timing 3 Valve	2001																				
Car	Port Variable Timing 3 Valve	2002																				
Car	Port Variable Timing 3 Valve	2003																				
Car	Port Variable Timing 3 Valve	2004																				
Car	Port Variable Timing 3 Valve	2005	54	0.031	22.8	15.2	22.0	18.5	3969	96.4	284	310	7.0	1.090	0.0781	36.7	1788	3542			55%	45%
Car	Port Variable Timing 3 Valve	2006	86	0.040	22.4	15.0	21.5	18.1	4269	108.6	270	299	7.7	1.113	0.0713	38.6	1962	4287		17%	35%	65%
Car	Port Variable Timing 3 Valve	2007	60	0.023	23.1	15.3	22.4	18.7	3760	97.9	280	303	6.8	1.082	0.0809	35.1	1831	3438			60%	41%
Car	Port Variable Timing 3 Valve	2008	42	0.019	22.8	15.1	22.1	18.5	4000	98.0	280	304	7.1	1.086	0.0760	36.9	1810	3620			68%	32%
Car	Port Variable Timing 3 Valve	2009	18	0.015	22.7	14.7	21.8	17.7	4029	98.2	291	343	7.1	1.166	0.0851	35.7	1740	3501			70%	30%
Car	Port Variable Timing 3 Valve	2010	23	0.013	24.3	16.2	23.3	19.6	4019	94.2	282	323	6.8	1.142	0.0802	39.4	1848	3712			58%	43%
Car	Port Variable Timing 3 Valve	2011	23	0.006	26.3	17.3	25.6	21.2	4010	96.2	305	401	5.7	1.313	0.1000	42.5	2042	4094			63%	37%
Car	Port Variable Timing 3 Valve	2012	34	0.007	26.4	17.4	25.6	21.3	4004	96.1	305	400	5.7	1.312	0.1000	42.6	2043	4090			54%	46%
Car	Port Variable Timing 4 Valve	1986																				
Car	Port Variable Timing 4 Valve	1987																				
Car	Port Variable Timing 4 Valve	1988																				
Car	Port Variable Timing 4 Valve	1989																				
Car	Port Variable Timing 4 Valve	1990	54	0.006	23.0	17.1	22.6	19.3	4000	111.9	249	252	8.3	1.013	0.0630	38.7	2166	4331				100%
Car	Port Variable Timing 4 Valve	1991	208	0.024	30.2	22.2	29.4	25.2	3142	99.7	145	157	10.5	1.104	0.0482	40.0	2615	3980	65%		29%	71%
Car	Port Variable Timing 4 Valve	1992	366	0.044	28.5	20.8	27.7	23.8	3256	99.7	150	167	10.2	1.133	0.0498	39.1	2472	3889	60%		31%	65%
Car	Port Variable Timing 4 Valve	1993	402	0.045	29.2	21.2	28.1	24.2	3213	96.8	140	161	10.3	1.168	0.0487	39.0	2403	3773	67%		30%	66%
Car	Port Variable Timing 4 Valve	1994	675	0.077	30.2	21.8	29.0	24.9	3216	98.8	132	150	10.8	1.154	0.0459	40.2	2510	3982	81%		28%	69%
Car	Port Variable Timing 4 Valve	1995	914	0.095	29.7	21.2	28.5	24.4	3275	102.3	142	159	10.4	1.135	0.0479	40.1	2536	4107	83%		23%	74%
Car	Port Variable Timing 4 Valve	1996	912	0.112	29.8	21.2	28.7	24.5	3222	103.3	141	155	10.5	1.113	0.0474	39.6	2563	4091	87%		24%	76%
Car	Port Variable Timing 4 Valve	1997	933	0.107	29.2	20.6	28.1	23.9	3294	101.2	149	167	10.2	1.137	0.0498	39.6	2470	4014	75%		21%	78%
Car	Port Variable Timing 4 Valve	1998	1423	0.169	29.5	20.6	28.3	24.1	3283	103.7	146	164	10.3	1.122	0.0491	39.6	2530	4121	84%	0%	17%	82%
Car	Port Variable Timing 4 Valve	1999	1383	0.103	28.7	19.9	27.5	23.4	3329	104.8	151	171	10.0	1.136	0.0508	39.0	2481	4106	83%	0%	17%	83%
Car	Port Variable Timing 4 Valve	2000	2101	0.146	29.2	20.1	27.8	23.6	3264	105.9	148	173	9.8	1.171	0.0523	38.7	2542	4113	83%	1%	16%	84%

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/CID	HP/WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	Port Variable Timing 4 Valve	2001	2340	0.188	30.5	20.9	28.5	24.5	3211	105.1	142	167	10.0	1.168	0.0512	39.7	2644	4181	81%	2%	14%	85%
Car	Port Variable Timing 4 Valve	2002	2858	0.249	30.2	20.6	28.2	24.2	3312	108.3	148	172	10.0	1.162	0.0513	40.3	2665	4373	85%	3%	12%	88%
Car	Port Variable Timing 4 Valve	2003	3299	0.300	30.5	20.6	28.5	24.4	3303	108.3	149	176	9.8	1.180	0.0527	40.5	2687	4398	84%	3%	12%	88%
Car	Port Variable Timing 4 Valve	2004	3465	0.354	29.9	20.0	28.0	23.8	3403	109.4	154	184	9.7	1.188	0.0531	40.7	2654	4467	81%	5%	11%	88%
Car	Port Variable Timing 4 Valve	2005	4036	0.409	30.5	20.3	28.2	24.2	3375	110.0	151	179	9.8	1.182	0.0523	40.9	2707	4519	84%	4%	10%	89%
Car	Port Variable Timing 4 Valve	2006	4678	0.485	30.2	20.1	28.1	24.0	3457	109.6	156	189	9.6	1.208	0.0538	41.7	2676	4580	78%	5%	10%	89%
Car	Port Variable Timing 4 Valve	2007	4823	0.473	30.8	20.5	28.5	24.4	3481	110.1	156	190	9.6	1.217	0.0537	42.7	2735	4712	82%	5%	8%	80%
Car	Port Variable Timing 4 Valve	2008	4329	0.481	30.9	20.6	28.6	24.5	3500	110.2	156	192	9.6	1.223	0.0539	43.0	2742	4750	82%	6%	8%	78%
Car	Port Variable Timing 4 Valve	2009	4265	0.601	32.4	21.6	29.8	25.6	3428	111.9	148	179	10.0	1.200	0.0512	44.0	2896	4926	89%	4%	6%	82%
Car	Port Variable Timing 4 Valve	2010	5435	0.674	33.7	22.5	30.6	26.5	3448	113.0	148	179	9.8	1.192	0.0510	46.7	3087	5291	91%	5%	4%	79%
Car	Port Variable Timing 4 Valve	2011	5026	0.674	33.2	22.0	30.6	26.2	3518	113.7	152	186	9.7	1.218	0.0521	46.8	3053	5334	87%	6%	4%	81%
Car	Port Variable Timing 4 Valve	2012	5601	0.654	35.5	23.6	32.2	27.8	3412	112.1	143	175	9.9	1.217	0.0506	48.5	3212	5448	91%	4%	7%	77%
Car	Port Variable Timing 5 Valve	1986																				
Car	Port Variable Timing 5 Valve	1987																				
Car	Port Variable Timing 5 Valve	1988																				
Car	Port Variable Timing 5 Valve	1989																				
Car	Port Variable Timing 5 Valve	1990																				
Car	Port Variable Timing 5 Valve	1991																				
Car	Port Variable Timing 5 Valve	1992																				
Car	Port Variable Timing 5 Valve	1993																				
Car	Port Variable Timing 5 Valve	1994																				
Car	Port Variable Timing 5 Valve	1995	1	0.000	13.7	9.5	14.5	11.5	4000	50.0	213	375	6.1	1.761	0.0938	23.1	577	1153			100%	
Car	Port Variable Timing 5 Valve	1996	0	0.000	13.8	9.5	14.7	11.6	3500	50.0	213	375	5.5	1.761	0.1071	20.4	582	1019			100%	
Car	Port Variable Timing 5 Valve	1997	1	0.000	13.8	9.5	14.7	11.6	3500	50.0	213	375	5.5	1.761	0.1071	20.3	581	1017			100%	
Car	Port Variable Timing 5 Valve	1998	38	0.005	24.2	16.3	25.2	20.1	3701	108.1	170	196	9.5	1.156	0.0533	37.3	2187	4052	20%	79%	25%	75%
Car	Port Variable Timing 5 Valve	1999	67	0.004	24.1	16.1	25.4	20.0	3689	111.4	170	197	9.5	1.156	0.0535	37.1	2251	4159	43%	56%	17%	82%
Car	Port Variable Timing 5 Valve	2000	56	0.003	23.8	16.3	23.7	19.6	3736	119.3	179	211	9.1	1.180	0.0565	36.6	2351	4377	48%	51%	20%	80%
Car	Port Variable Timing 5 Valve	2001	75	0.005	23.7	16.0	23.4	19.4	3767	115.1	177	211	9.2	1.188	0.0561	36.6	2244	4231	42%	57%	14%	86%
Car	Port Variable Timing 5 Valve	2002	39	0.002	25.0	16.9	24.4	20.4	3787	115.1	177	213	9.2	1.197	0.0564	38.8	2372	4495	55%	44%	8%	92%
Car	Port Variable Timing 5 Valve	2003	39	0.002	24.8	16.6	24.1	20.1	3975	115.5	178	219	9.5	1.218	0.0550	40.3	2358	4688	60%	38%	9%	91%

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	Port Variable Timing 5 Valve	2004	36	0.003	22.9	15.3	22.2	18.6	4160	110.6	213	275	8.3	1.275	0.0662	39.2	2113	4415	29%	66%	15%	85%
Car	Port Variable Timing 5 Valve	2005	30	0.002	23.6	15.7	22.7	19.0	4124	109.9	210	273	8.2	1.310	0.0657	39.5	2132	4366	21%	78%	13%	83%
Car	Port Variable Timing 5 Valve	2006	14	0.001	23.1	15.4	22.1	18.7	4310	104.9	237	309	7.6	1.300	0.0715	40.3	1956	4247		100%	8%	92%
Car	Port Variable Timing 5 Valve	2007																				
Car	Port Variable Timing 5 Valve	2008	0	0.000	19.3	13.1	18.3	15.6	3500	50.0	255	344	5.8	1.349	0.0983	27.3	781	1366			100%	
Car	Port Variable Timing 5 Valve	2009	0	0.000	19.3	13.1	18.3	15.6	3500	50.0	255	344	5.8	1.349	0.0983	27.3	781	1366			100%	
Car	Port Variable Timing 5 Valve	2010																				
Car	Port Variable Timing 5 Valve	2011																				
Car	Port Variable Timing 5 Valve	2012																				
Car	TBI 2 Valve	1986	3184	0.287	28.3	21.7	27.8	24.1	3007	109.1	159	98	14.1	0.639	0.0326	36.3	2646	3958	84%		10%	67%
Car	TBI 2 Valve	1987	3338	0.308	29.2	22.1	28.6	24.7	2930	107.8	148	97	13.9	0.672	0.0330	36.3	2679	3909	91%	0%	15%	60%
Car	TBI 2 Valve	1988	3083	0.284	30.5	23.1	29.6	25.7	2852	107.3	142	98	13.7	0.708	0.0340	36.9	2790	3952	94%	1%	20%	70%
Car	TBI 2 Valve	1989	2403	0.237	29.5	22.0	29.0	24.8	2967	108.4	159	106	13.3	0.696	0.0353	37.0	2730	4006	89%	1%	14%	76%
Car	TBI 2 Valve	1990	1498	0.169	30.3	22.5	29.7	25.4	2932	105.7	146	102	13.5	0.715	0.0345	37.4	2722	3953	92%	1%	14%	77%
Car	TBI 2 Valve	1991	1558	0.178	28.8	21.1	28.3	24.1	3070	107.4	167	110	13.3	0.692	0.0351	37.1	2635	4002	75%	1%	16%	82%
Car	TBI 2 Valve	1992	761	0.091	28.5	21.0	27.4	23.7	3134	109.9	180	112	13.5	0.682	0.0347	37.4	2704	4139	63%		20%	72%
Car	TBI 2 Valve	1993	621	0.070	29.9	22.0	28.4	24.8	3040	109.4	164	104	13.8	0.694	0.0335	37.9	2806	4172	73%	1%	25%	70%
Car	TBI 2 Valve	1994	457	0.052	33.8	24.9	31.1	27.7	2620	100.4	117	84	14.3	0.745	0.0319	36.8	2886	3686	94%		32%	57%
Car	TBI 2 Valve	1995	129	0.013	37.0	27.6	32.6	30.0	2395	102.2	93	74	14.6	0.830	0.0308	36.8	3223	3756	84%		43%	28%
Car	TBI 2 Valve	1996	86	0.011	42.5	31.4	36.7	34.0	2144	99.9	86	66	14.7	0.778	0.0306	37.1	3490	3705	100%		43%	
Car	TBI 2 Valve	1997	67	0.008	40.3	29.6	34.8	32.1	2202	90.5	76	67	14.8	0.889	0.0304	35.9	2973	3250	100%		26%	
Car	TBI 2 Valve	1998	12	0.001	53.6	38.1	46.1	42.0	2000	89.7	60	55	15.7	0.917	0.0275	42.0	3765	3765	100%		100%	
Car	TBI 2 Valve	1999	8	0.001	50.3	35.4	43.5	39.3	2000	88.0	61	55	15.7	0.902	0.0275	39.3	3461	3461	100%		100%	
Car	TBI 2 Valve	2000	5	0.000	50.8	35.8	43.0	39.4	2000	88.0	61	55	15.7	0.902	0.0275	39.4	3464	3464			100%	
Car	TBI 2 Valve	2001																				
Car	TBI 2 Valve	2002																				
Car	TBI 2 Valve	2003																				
Car	TBI 2 Valve	2004																				
Car	TBI 2 Valve	2005																				
Car	TBI 2 Valve	2006																				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	TBI 2 Valve	2007																				
Car	TBI 2 Valve	2008																				
Car	TBI 2 Valve	2009																				
Car	TBI 2 Valve	2010																				
Car	TBI 2 Valve	2011																				
Car	TBI 2 Valve	2012																				
Car	TBI 3 Valve	1986																				
Car	TBI 3 Valve	1987																				
Car	TBI 3 Valve	1988																				
Car	TBI 3 Valve	1989	246	0.024	34.5	26.5	32.0	28.9	2508	101.0	98	90	12.9	0.918	0.0359	36.3	2926	3669	100%	0%	53%	47%
Car	TBI 3 Valve	1990																				
Car	TBI 3 Valve	1991	72	0.008	34.9	26.1	32.8	29.0	2602	91.9	97	95	12.7	0.979	0.0366	37.8	2682	3477	100%		60%	
Car	TBI 3 Valve	1992	60	0.007	34.2	25.4	32.0	28.3	2750	91.9	97	95	13.3	0.979	0.0345	39.2	2621	3604	100%		47%	
Car	TBI 3 Valve	1993	41	0.005	35.3	26.2	32.5	29.0	2596	91.9	97	90	13.2	0.928	0.0347	37.7	2677	3466	100%		62%	
Car	TBI 3 Valve	1994																				
Car	TBI 3 Valve	1995																				
Car	TBI 3 Valve	1996																				
Car	TBI 3 Valve	1997																				
Car	TBI 3 Valve	1998																				
Car	TBI 3 Valve	1999																				
Car	TBI 3 Valve	2000																				
Car	TBI 3 Valve	2001																				
Car	TBI 3 Valve	2002																				
Car	TBI 3 Valve	2003																				
Car	TBI 3 Valve	2004																				
Car	TBI 3 Valve	2005																				
Car	TBI 3 Valve	2006																				
Car	TBI 3 Valve	2007																				
Car	TBI 3 Valve	2008																				
Car	TBI 3 Valve	2009																				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Car	TBI 3 Valve	2010																				
Car	TBI 3 Valve	2011																				
Car	TBI 3 Valve	2012																				
Car	TBI 4 Valve	1986																				
Car	TBI 4 Valve	1987																				
Car	TBI 4 Valve	1988	195	0.018	38.1	29.9	34.6	31.9	2379	94.5	91	71	15.0	0.775	0.0298	38.1	3030	3606	100%		57%	43%
Car	TBI 4 Valve	1989	199	0.020	36.2	28.0	32.9	30.2	2434	95.8	91	93	12.3	1.012	0.0381	36.9	2910	3540	100%		54%	46%
Car	TBI 4 Valve	1990	382	0.043	36.5	28.0	33.1	30.3	2513	97.7	94	91	12.7	0.971	0.0363	38.2	2966	3726	100%		59%	41%
Car	TBI 4 Valve	1991	344	0.039	35.5	27.3	31.8	29.3	2589	95.8	93	97	12.5	1.041	0.0375	38.1	2830	3651	100%		46%	55%
Car	TBI 4 Valve	1992	95	0.011	31.7	24.0	28.9	26.2	2744	93.9	98	106	12.3	1.076	0.0386	35.9	2460	3375	100%		16%	84%
Car	TBI 4 Valve	1993	94	0.010	31.1	23.2	28.7	25.6	2856	102.6	106	120	11.6	1.121	0.0417	36.8	2658	3778	100%		31%	66%
Car	TBI 4 Valve	1994																				
Car	TBI 4 Valve	1995																				
Car	TBI 4 Valve	1996																				
Car	TBI 4 Valve	1997																				
Car	TBI 4 Valve	1998																				
Car	TBI 4 Valve	1999																				
Car	TBI 4 Valve	2000																				
Car	TBI 4 Valve	2001																				
Car	TBI 4 Valve	2002																				
Car	TBI 4 Valve	2003																				
Car	TBI 4 Valve	2004																				
Car	TBI 4 Valve	2005																				
Car	TBI 4 Valve	2006																				
Car	TBI 4 Valve	2007																				
Car	TBI 4 Valve	2008																				
Car	TBI 4 Valve	2009																				
Car	TBI 4 Valve	2010																				
Car	TBI 4 Valve	2011																				
Car	TBI 4 Valve	2012																				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Van	Port Fixed Timing 2 Valve	1999	1281	0.565	22.0	15.4	21.2	18.0	4330		229	183	11.4	0.806	0.0422	39.2			73%	3%		100%
Van	Port Fixed Timing 2 Valve	2000	1325	0.550	22.4	15.6	21.5	18.3	4306		226	182	11.5	0.812	0.0423	39.6			75%	4%		100%
Van	Port Fixed Timing 2 Valve	2001	954	0.506	21.6	15.0	20.7	17.6	4602		241	204	11.0	0.855	0.0443	40.8			60%	11%		100%
Van	Port Fixed Timing 2 Valve	2002	890	0.465	22.8	15.7	21.6	18.5	4407		226	194	11.0	0.865	0.0441	41.1			78%	4%		100%
Van	Port Fixed Timing 2 Valve	2003	914	0.441	23.5	16.0	22.2	19.0	4381		226	196	10.9	0.874	0.0448	41.7			78%	7%		100%
Van	Port Fixed Timing 2 Valve	2004	454	0.374	23.0	15.5	21.9	18.6	4445		233	198	10.9	0.857	0.0446	41.4			78%	5%		100%
Van	Port Fixed Timing 2 Valve	2005	919	0.336	23.6	15.9	22.3	19.0	4388		224	199	10.8	0.890	0.0453	41.7			89%	2%		100%
Van	Port Fixed Timing 2 Valve	2006	617	0.263	23.5	15.7	22.3	18.9	4505		226	198	11.1	0.880	0.0440	42.6			87%	2%		100%
Van	Port Fixed Timing 2 Valve	2007	327	0.225	23.3	15.5	22.3	18.8	4498		226	198	11.1	0.875	0.0439	42.2			90%	1%		100%
Van	Port Fixed Timing 2 Valve	2008	295	0.187	23.8	15.9	22.6	19.2	4573		225	176	12.3	0.783	0.0384	43.9			90%	1%		100%
Van	Port Fixed Timing 2 Valve	2009	151	0.115	23.8	16.0	22.7	19.2	4577		223	189	11.7	0.855	0.0412	44.0			90%	2%		100%
Van	Port Fixed Timing 2 Valve	2010	263	0.077	24.0	16.0	23.1	19.4	4516		224	191	11.4	0.852	0.0423	43.8			97%			100%
Van	Port Fixed Timing 2 Valve	2011	11	0.039	20.0	13.9	18.2	16.0	5325		275	209	12.1	0.758	0.0392	42.8						100%
Van	Port Fixed Timing 2 Valve	2012	25	0.022	19.3	13.3	17.7	15.5	5337		286	224	11.5	0.783	0.0420	41.6						100%
Van	Port Fixed Timing 4 Valve	1999	62	0.306	25.6	18.0	24.1	20.8	3998		148	150	12.5	1.015	0.0375	41.6			100%			100%
Van	Port Fixed Timing 4 Valve	2000	112	0.280	24.6	17.3	22.9	19.9	4000		150	159	12.0	1.061	0.0397	40.0			100%			100%
Van	Port Fixed Timing 4 Valve	2001	69	0.271	23.9	16.9	21.8	19.3	4045		151	158	12.1	1.043	0.0391	39.0			100%			100%
Van	Port Fixed Timing 4 Valve	2002	93	0.254	22.0	15.3	20.6	17.8	4570		184	176	12.3	0.966	0.0384	40.8			100%			100%
Van	Port Fixed Timing 4 Valve	2003	77	0.224	21.5	14.9	20.0	17.4	4706		193	182	12.3	0.952	0.0386	41.1			100%			100%
Van	Port Fixed Timing 4 Valve	2004	59	0.218	21.6	14.4	21.1	17.6	4897		206	190	12.2	0.926	0.0388	43.0			100%			100%
Van	Port Fixed Timing 4 Valve	2005	191	0.190	23.5	15.8	22.2	18.9	4494		191	194	11.2	1.022	0.0435	42.4			81%	19%		61%
Van	Port Fixed Timing 4 Valve	2006	125	0.172	24.9	16.7	23.3	19.9	4288		198	213	10.2	1.076	0.0494	42.7			84%	16%		56%
Van	Port Fixed Timing 4 Valve	2007	107	0.195	24.6	16.5	23.1	19.7	4344		207	222	9.9	1.074	0.0510	42.8			88%	12%		65%
Van	Port Fixed Timing 4 Valve	2008	115	0.216	24.4	16.3	23.4	19.7	4642		227	254	9.3	1.123	0.0549	45.9			87%	13%		100%
Van	Port Fixed Timing 4 Valve	2009	44	0.149	25.0	16.6	24.0	20.1	4785		237	252	9.5	1.064	0.0527	48.4			100%			100%
Van	Port Fixed Timing 4 Valve	2010	86	0.051	27.7	18.8	25.0	21.9	4353		191	203	10.8	1.080	0.0458	47.4			100%			100%
Van	Port Fixed Timing 4 Valve	2011	28	0.022	29.9	20.8	25.7	23.3	3526		124	141	11.9	1.144	0.0401	41.1			99%			100%
Van	Port Fixed Timing 4 Valve	2012	48	0.005	30.6	21.0	26.8	23.9	3500		122	136	12.2	1.115	0.0389	41.9			100%			100%
Van	Port Variable Timing 2 Valve	1999																				
Van	Port Variable Timing 2 Valve	2000																				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Van	Port Variable Timing 2 Valve	2001																				
Van	Port Variable Timing 2 Valve	2002																				
Van	Port Variable Timing 2 Valve	2003																				
Van	Port Variable Timing 2 Valve	2004																				
Van	Port Variable Timing 2 Valve	2005																				
Van	Port Variable Timing 2 Valve	2006	4	0.014	24.1	16.0	23.4	19.5	4500		237	240	9.4	1.013	0.0533	43.9			100%			100%
Van	Port Variable Timing 2 Valve	2007	71	0.055	24.1	16.0	23.4	19.5	4500		237	240	9.4	1.013	0.0533	43.9			100%			100%
Van	Port Variable Timing 2 Valve	2008	77	0.046	24.0	15.9	23.2	19.4	4500		237	240	9.4	1.013	0.0533	43.7			100%			100%
Van	Port Variable Timing 2 Valve	2009																				
Van	Port Variable Timing 2 Valve	2010	7	0.068	18.4	12.9	16.7	14.8	5783		323	301	9.6	0.932	0.0521	42.8				47%		100%
Van	Port Variable Timing 2 Valve	2011	7	0.096	17.9	12.4	16.5	14.5	5920		328	303	9.7	0.926	0.0514	42.8				43%		100%
Van	Port Variable Timing 2 Valve	2012	9	0.067	18.2	12.6	16.9	14.7	5813		326	311	9.4	0.953	0.0537	42.7				33%		100%
Van	Port Variable Timing 4 Valve	1999	120	0.103	24.1	16.7	23.4	19.7	4210		195	196	10.5	1.008	0.0467	41.6			100%			100%
Van	Port Variable Timing 4 Valve	2000	254	0.146	24.0	16.5	23.3	19.6	4241		197	197	10.5	1.004	0.0466	41.6			100%			100%
Van	Port Variable Timing 4 Valve	2001	209	0.188	24.3	16.7	23.2	19.8	4295		200	207	10.2	1.041	0.0484	42.4			100%			100%
Van	Port Variable Timing 4 Valve	2002	259	0.249	24.3	16.7	23.2	19.7	4287		200	226	9.5	1.133	0.0527	42.3			100%			100%
Van	Port Variable Timing 4 Valve	2003	241	0.300	24.3	16.5	23.2	19.6	4342		203	229	9.5	1.129	0.0527	42.6			100%			100%
Van	Port Variable Timing 4 Valve	2004	440	0.354	24.9	16.7	23.8	20.1	4475		206	233	9.6	1.132	0.0520	44.9			94%	6%		100%
Van	Port Variable Timing 4 Valve	2005	371	0.409	25.2	16.8	24.2	20.3	4500		208	242	9.4	1.165	0.0538	45.8			94%	7%		100%
Van	Port Variable Timing 4 Valve	2006	421	0.485	25.3	16.8	24.3	20.4	4488		207	229	9.8	1.108	0.0511	45.9			95%	5%		100%
Van	Port Variable Timing 4 Valve	2007	342	0.473	25.1	16.7	23.9	20.2	4500		212	250	9.2	1.179	0.0555	45.4			98%	2%		100%
Van	Port Variable Timing 4 Valve	2008	303	0.481	25.8	17.2	24.4	20.7	4446		208	247	9.2	1.188	0.0555	46.0			96%	4%	0%	100%
Van	Port Variable Timing 4 Valve	2009	173	0.601	26.0	17.4	24.6	20.9	4514		203	240	9.6	1.181	0.0531	47.1			96%	4%	1%	99%
Van	Port Variable Timing 4 Valve	2010	204	0.674	25.7	17.1	24.5	20.6	4590		207	241	9.6	1.163	0.0526	47.4			97%	3%	1%	99%
Van	Port Variable Timing 4 Valve	2011	475	0.674	26.4	17.6	25.0	21.2	4521		214	266	8.7	1.244	0.0589	47.9			95%	6%		97%
Van	Port Variable Timing 4 Valve	2012	603	0.654	26.6	17.6	25.4	21.3	4509		216	270	8.6	1.247	0.0598	48.1			97%	3%		91%
Truck SUV	Diesel Fixed Timing 2 Valve	1999																				
Truck SUV	Diesel Fixed Timing 2 Valve	2000																				
Truck SUV	Diesel Fixed Timing 2 Valve	2001																				
Truck SUV	Diesel Fixed Timing 2 Valve	2002																				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Truck SUV	Diesel Fixed Timing 2 Valve	2003																				
Truck SUV	Diesel Fixed Timing 2 Valve	2004	1	0.001	22.8	15.4	21.8	18.4	6000		300	310	9.7	1.033	0.0517	55.3				100%		100%
Truck SUV	Diesel Fixed Timing 2 Valve	2005																				
Truck SUV	Diesel Fixed Timing 2 Valve	2006	1	0.003	21.7	14.8	20.0	17.4	6000		300	310	9.6	1.033	0.0517	52.2				100%		100%
Truck SUV	Diesel Fixed Timing 2 Valve	2007	0	0.000	21.7	14.8	20.0	17.4	6000		300	310	7.2	1.033	0.0517	52.2				100%		100%
Truck SUV	Diesel Fixed Timing 2 Valve	2008	0	0.000	21.7	14.8	20.0	17.4	6000		300	310	7.1	1.033	0.0517	52.2				100%		100%
Truck SUV	Diesel Fixed Timing 2 Valve	2009																				
Truck SUV	Diesel Fixed Timing 2 Valve	2010																				
Truck SUV	Diesel Fixed Timing 2 Valve	2011																				
Truck SUV	Diesel Fixed Timing 2 Valve	2012																				
Truck SUV	Diesel Fixed Timing 4 Valve	1999																				
Truck SUV	Diesel Fixed Timing 4 Valve	2000																				
Truck SUV	Diesel Fixed Timing 4 Valve	2001																				
Truck SUV	Diesel Fixed Timing 4 Valve	2002																				
Truck SUV	Diesel Fixed Timing 4 Valve	2003																				
Truck SUV	Diesel Fixed Timing 4 Valve	2004																				
Truck SUV	Diesel Fixed Timing 4 Valve	2005	9	0.001	28.1	19.4	24.7	22.1	4500		171	160	13.1	0.936	0.0356	49.7				100%		100%
Truck SUV	Diesel Fixed Timing 4 Valve	2006	7	0.001	27.2	19.0	23.5	21.3	4500		171	160	10.1	0.936	0.0356	48.0				100%		100%
Truck SUV	Diesel Fixed Timing 4 Valve	2007	8	0.001	26.5	18.3	23.5	20.9	5162		182	215	8.7	1.181	0.0419	54.0				95%		100%
Truck SUV	Diesel Fixed Timing 4 Valve	2008	13	0.001	26.0	18.0	23.0	20.5	5393		182	215	8.7	1.181	0.0402	55.3				98%		100%
Truck SUV	Diesel Fixed Timing 4 Valve	2009	2	0.004	24.8	16.9	22.7	19.8	6000		182	210	8.8	1.154	0.0350	59.3				100%		100%
Truck SUV	Diesel Fixed Timing 4 Valve	2010	7	0.006	27.0	18.0	25.4	21.6	5667		183	252	7.4	1.375	0.0446	61.4				100%		100%
Truck SUV	Diesel Fixed Timing 4 Valve	2011	19	0.007	27.3	18.5	24.5	21.5	5543		183	240	7.5	1.313	0.0434	59.7				100%		100%
Truck SUV	Diesel Fixed Timing 4 Valve	2012	15	0.008	27.0	18.2	24.2	21.2	5701		182	235	7.9	1.290	0.0415	60.7				100%		100%
Truck SUV	Diesel Variable Timing 4 Valve	1999																				
Truck SUV	Diesel Variable Timing 4 Valve	2000																				
Truck SUV	Diesel Variable Timing 4 Valve	2001																				
Truck SUV	Diesel Variable Timing 4 Valve	2002																				
Truck SUV	Diesel Variable Timing 4 Valve	2003																				
Truck SUV	Diesel Variable Timing 4 Valve	2004																				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Truck SUV	Diesel Variable Timing 4 Valve	2005																				
Truck SUV	Diesel Variable Timing 4 Valve	2006																				
Truck SUV	Diesel Variable Timing 4 Valve	2007																				
Truck SUV	Diesel Variable Timing 4 Valve	2008																				
Truck SUV	Diesel Variable Timing 4 Valve	2009	6	0.001	27.2	18.3	25.1	21.6	5230		182	235	7.7	1.289	0.0448	56.7				100%		100%
Truck SUV	Diesel Variable Timing 4 Valve	2010	7	0.001	25.9	17.5	23.8	20.7	5523		182	214	8.8	1.172	0.0389	57.0				100%		100%
Truck SUV	Diesel Variable Timing 4 Valve	2011	7	0.001	27.3	18.0	26.0	21.9	5619		181	225	8.5	1.243	0.0404	61.3				100%		100%
Truck SUV	Diesel Variable Timing 4 Valve	2012	8	0.001	27.5	18.3	26.5	22.2	5455		181	225	8.5	1.243	0.0416	60.5				100%		100%
Truck SUV	GDI Variable Timing 4 Valve	1999																				
Truck SUV	GDI Variable Timing 4 Valve	2000																				
Truck SUV	GDI Variable Timing 4 Valve	2001																				
Truck SUV	GDI Variable Timing 4 Valve	2002																				
Truck SUV	GDI Variable Timing 4 Valve	2003																				
Truck SUV	GDI Variable Timing 4 Valve	2004																				
Truck SUV	GDI Variable Timing 4 Valve	2005																				
Truck SUV	GDI Variable Timing 4 Valve	2006																				
Truck SUV	GDI Variable Timing 4 Valve	2007																				
Truck SUV	GDI Variable Timing 4 Valve	2008	60	0.015	21.0	14.3	19.7	16.9	5176		211	296	9.0	1.432	0.0575	43.7				100%	0%	100%
Truck SUV	GDI Variable Timing 4 Valve	2009	130	0.032	23.6	15.9	22.2	19.0	4872		202	278	9.0	1.399	0.0569	46.3			46%	54%	1%	99%
Truck SUV	GDI Variable Timing 4 Valve	2010	280	0.083	23.6	15.9	22.3	19.0	5029		218	294	8.9	1.358	0.0582	47.8			42%	58%	0%	94%
Truck SUV	GDI Variable Timing 4 Valve	2011	462	0.154	23.7	15.9	22.5	19.1	5067		220	310	8.5	1.433	0.0609	48.4			37%	62%	0%	100%
Truck SUV	GDI Variable Timing 4 Valve	2012	444	0.237	24.6	16.5	23.1	19.7	4898		205	291	8.7	1.460	0.0593	48.4			26%	74%	0%	100%
Truck SUV	Hybrid	1999																				
Truck SUV	Hybrid	2000																				
Truck SUV	Hybrid	2001																				
Truck SUV	Hybrid	2002																				
Truck SUV	Hybrid	2003																				
Truck SUV	Hybrid	2004																				
Truck SUV	Hybrid	2005	6	0.011	36.6	28.1	26.3	27.0	4000		140	135	11.7	0.964	0.0338	54.0				100%		
Truck SUV	Hybrid	2006	92	0.015	35.0	27.1	25.0	25.9	4432		194	198	7.6	1.021	0.0445	57.3			22%	78%		

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Truck SUV	Hybrid	2007	47	0.022	34.9	27.1	25.0	25.8	4423		192	196	8.3	1.017	0.0442	57.1			25%	75%		
Truck SUV	Hybrid	2008	73	0.025	34.0	26.2	24.5	25.2	4728		207	207	8.3	1.002	0.0431	59.6			8%	87%		
Truck SUV	Hybrid	2009	27	0.023	33.2	25.3	24.4	24.8	4999		235	231	8.7	0.997	0.0453	61.7			1%	89%		7%
Truck SUV	Hybrid	2010																				
Truck SUV	Hybrid	2011																				
Truck SUV	Hybrid	2012																				
Truck SUV	Port Fixed Timing 2 Valve	1999	1724	0.565	18.8	13.4	17.8	15.5	4652		278	209	10.9	0.761	0.0451	35.9				78%	5%	96%
Truck SUV	Port Fixed Timing 2 Valve	2000	1953	0.550	19.0	13.5	17.8	15.5	4724		275	213	10.9	0.780	0.0452	36.5				84%	4%	96%
Truck SUV	Port Fixed Timing 2 Valve	2001	1636	0.506	19.3	13.7	17.8	15.7	4758		271	220	10.6	0.813	0.0461	37.3			10%	72%	3%	97%
Truck SUV	Port Fixed Timing 2 Valve	2002	2002	0.465	19.2	13.4	17.9	15.6	4875		273	237	10.3	0.867	0.0484	37.9				70%	3%	97%
Truck SUV	Port Fixed Timing 2 Valve	2003	1729	0.441	19.0	13.2	17.7	15.4	5138		285	243	10.4	0.854	0.0473	39.4				70%	2%	98%
Truck SUV	Port Fixed Timing 2 Valve	2004	1907	0.374	19.2	13.3	17.9	15.5	4997		284	243	10.2	0.856	0.0487	38.6			1%	71%	2%	98%
Truck SUV	Port Fixed Timing 2 Valve	2005	1169	0.336	19.3	13.3	17.9	15.6	5051		285	252	10.0	0.884	0.0498	39.4				74%	3%	97%
Truck SUV	Port Fixed Timing 2 Valve	2006	883	0.263	19.6	13.4	18.2	15.8	4913		272	243	10.2	0.890	0.0493	38.8				76%	4%	96%
Truck SUV	Port Fixed Timing 2 Valve	2007	1119	0.225	20.5	14.0	19.2	16.5	5222		283	262	10.0	0.920	0.0500	43.2				65%	3%	97%
Truck SUV	Port Fixed Timing 2 Valve	2008	767	0.187	20.7	14.1	19.3	16.7	5033		270	250	10.2	0.921	0.0494	42.0				71%	4%	96%
Truck SUV	Port Fixed Timing 2 Valve	2009	262	0.115	20.8	14.1	19.5	16.8	4975		265	249	10.1	0.931	0.0497	41.6				67%	2%	98%
Truck SUV	Port Fixed Timing 2 Valve	2010	280	0.077	21.3	14.5	19.7	17.1	4548		233	207	10.7	0.889	0.0458	38.9				80%	8%	92%
Truck SUV	Port Fixed Timing 2 Valve	2011	187	0.039	22.0	15.1	20.4	17.7	4323		229	204	10.4	0.892	0.0474	38.2				86%	10%	90%
Truck SUV	Port Fixed Timing 2 Valve	2012	85	0.022	22.2	15.1	20.7	17.9	4431		232	219	10.2	0.938	0.0492	39.5				79%		100%
Truck SUV	Port Fixed Timing 3 Valve	1999	52	0.015	20.3	14.7	18.6	16.6	5000		216	232	10.7	1.080	0.0464	41.5				32%		100%
Truck SUV	Port Fixed Timing 3 Valve	2000	36	0.012	20.8	15.0	18.8	16.9	5500		195	215	12.1	1.103	0.0391	46.4						100%
Truck SUV	Port Fixed Timing 3 Valve	2001	40	0.014	20.8	14.8	19.0	16.8	5500		214	231	11.6	1.085	0.0420	46.3				100%		100%
Truck SUV	Port Fixed Timing 3 Valve	2002	44	0.013	19.1	13.7	17.0	15.4	5000		227	237	10.5	1.059	0.0475	38.5				100%		100%
Truck SUV	Port Fixed Timing 3 Valve	2003	36	0.014	18.8	13.5	16.6	15.1	5138		239	243	10.5	1.024	0.0472	38.7				100%		100%
Truck SUV	Port Fixed Timing 3 Valve	2004	20	0.010	18.8	13.5	16.4	15.0	5535		245	246	11.0	1.007	0.0444	41.5				100%		100%
Truck SUV	Port Fixed Timing 3 Valve	2005	21	0.009	18.7	13.3	16.4	14.9	5048		247	252	10.1	1.018	0.0497	37.7				100%		100%
Truck SUV	Port Fixed Timing 3 Valve	2006	11	0.005	18.5	12.7	17.3	15.0	5023		303	304	8.5	1.001	0.0605	37.6				100%		100%
Truck SUV	Port Fixed Timing 3 Valve	2007	27	0.004	18.9	12.8	18.2	15.4	5026		283	295	8.8	1.044	0.0587	38.7				79%		100%
Truck SUV	Port Fixed Timing 3 Valve	2008	17	0.002	18.9	12.7	18.4	15.4	5066		282	298	8.8	1.054	0.0588	39.0				82%		100%

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Truck SUV	Port Fixed Timing 3 Valve	2009	4	0.006	19.9	13.5	18.6	16.0	5099		285	313	8.6	1.091	0.0610	41.0				93%		100%
Truck SUV	Port Fixed Timing 3 Valve	2010	38	0.028	19.0	13.0	17.9	15.4	6265		330	310	10.0	0.939	0.0496	48.2				39%		100%
Truck SUV	Port Fixed Timing 3 Valve	2011	1	0.000	15.2	10.9	13.1	12.1	6000		332	500	6.6	1.506	0.0833	36.2				100%		100%
Truck SUV	Port Fixed Timing 3 Valve	2012																				
Truck SUV	Port Fixed Timing 4 Valve	1999	498	0.306	22.5	16.4	20.1	18.2	4077		181	180	11.1	1.022	0.0440	37.0				87%	12%	88%
Truck SUV	Port Fixed Timing 4 Valve	2000	473	0.280	22.5	16.4	19.9	18.1	4101		176	175	11.4	1.016	0.0426	37.1				87%	10%	90%
Truck SUV	Port Fixed Timing 4 Valve	2001	641	0.271	22.0	15.7	19.9	17.8	4142		187	189	10.8	1.033	0.0458	36.7				86%	6%	94%
Truck SUV	Port Fixed Timing 4 Valve	2002	645	0.254	21.2	15.1	19.2	17.1	4289		201	195	10.8	0.988	0.0459	36.5				84%	7%	92%
Truck SUV	Port Fixed Timing 4 Valve	2003	613	0.224	21.3	14.9	19.6	17.2	4316		213	205	10.4	0.988	0.0478	37.0				80%	3%	95%
Truck SUV	Port Fixed Timing 4 Valve	2004	581	0.218	21.1	14.6	19.2	16.9	4422		222	217	10.1	1.005	0.0495	37.3				82%	4%	95%
Truck SUV	Port Fixed Timing 4 Valve	2005	431	0.190	22.7	15.7	20.5	18.1	4184		192	201	10.4	1.060	0.0479	37.8				83%	5%	95%
Truck SUV	Port Fixed Timing 4 Valve	2006	281	0.172	23.8	16.4	21.5	19.0	4004		180	186	10.5	1.045	0.0467	38.1				87%	7%	94%
Truck SUV	Port Fixed Timing 4 Valve	2007	351	0.195	23.2	15.9	21.2	18.5	4409		202	238	9.5	1.170	0.0534	40.8			0%	96%	2%	98%
Truck SUV	Port Fixed Timing 4 Valve	2008	395	0.216	23.7	16.3	21.4	18.9	4348		205	230	9.6	1.123	0.0525	40.9			2%	89%	1%	99%
Truck SUV	Port Fixed Timing 4 Valve	2009	261	0.149	25.6	17.3	23.7	20.4	4080		183	213	9.7	1.164	0.0519	41.6			19%	80%	4%	97%
Truck SUV	Port Fixed Timing 4 Valve	2010	66	0.051	23.8	15.8	23.1	19.3	4455		211	230	9.7	1.092	0.0516	42.9			66%	33%		100%
Truck SUV	Port Fixed Timing 4 Valve	2011	19	0.022	22.1	15.2	20.1	17.6	4397		239	242	9.3	1.011	0.0552	38.8				79%		100%
Truck SUV	Port Fixed Timing 4 Valve	2012																				
Truck SUV	Port Variable Timing 2 Valve	1999																				
Truck SUV	Port Variable Timing 2 Valve	2000																				
Truck SUV	Port Variable Timing 2 Valve	2001																				
Truck SUV	Port Variable Timing 2 Valve	2002																				
Truck SUV	Port Variable Timing 2 Valve	2003																				
Truck SUV	Port Variable Timing 2 Valve	2004																				
Truck SUV	Port Variable Timing 2 Valve	2005																				
Truck SUV	Port Variable Timing 2 Valve	2006	23	0.014	24.9	16.7	23.6	20.0	4000		213	255	8.2	1.197	0.0638	40.0				100%		100%
Truck SUV	Port Variable Timing 2 Valve	2007	146	0.055	18.6	12.5	18.2	15.2	5683		327	351	8.6	1.075	0.0611	43.1				93%	1%	99%
Truck SUV	Port Variable Timing 2 Valve	2008	92	0.046	19.1	12.9	18.6	15.6	5480		314	330	8.8	1.053	0.0594	42.7				90%	1%	99%
Truck SUV	Port Variable Timing 2 Valve	2009	33	0.044	19.3	12.9	19.0	15.7	5517		345	358	8.2	1.038	0.0645	43.5				71%		100%
Truck SUV	Port Variable Timing 2 Valve	2010	118	0.068	21.4	14.4	20.5	17.3	5881		337	331	9.1	0.977	0.0566	51.2				56%		99%

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Truck SUV	Port Variable Timing 2 Valve	2011	315	0.096	21.0	14.1	19.8	16.9	5953		339	346	8.9	1.018	0.0583	50.5				69%		99%
Truck SUV	Port Variable Timing 2 Valve	2012	281	0.067	21.0	14.0	20.0	16.9	5879		343	355	8.6	1.035	0.0608	50.1				63%		93%
Truck SUV	Port Variable Timing 3 Valve	1999																				
Truck SUV	Port Variable Timing 3 Valve	2000																				
Truck SUV	Port Variable Timing 3 Valve	2001																				
Truck SUV	Port Variable Timing 3 Valve	2002																				
Truck SUV	Port Variable Timing 3 Valve	2003																				
Truck SUV	Port Variable Timing 3 Valve	2004																				
Truck SUV	Port Variable Timing 3 Valve	2005	117	0.031	18.0	12.3	16.8	14.5	6000		330	300	10.0	0.909	0.0500	43.6				43%		100%
Truck SUV	Port Variable Timing 3 Valve	2006	187	0.040	18.9	12.9	17.7	15.3	5559		294	291	9.6	1.013	0.0527	42.4				62%		100%
Truck SUV	Port Variable Timing 3 Valve	2007	36	0.023	18.3	12.3	17.8	14.9	6000		330	300	10.0	0.909	0.0500	44.7						100%
Truck SUV	Port Variable Timing 3 Valve	2008	35	0.019	18.5	12.4	18.0	15.1	6000		330	300	10.0	0.909	0.0500	45.3						100%
Truck SUV	Port Variable Timing 3 Valve	2009	8	0.015	20.0	13.6	18.9	16.2	5876		331	328	9.2	0.991	0.0561	47.6				25%		100%
Truck SUV	Port Variable Timing 3 Valve	2010	8	0.013	20.1	13.6	19.0	16.2	5052		284	303	8.7	1.064	0.0597	41.1				100%		100%
Truck SUV	Port Variable Timing 3 Valve	2011	52	0.006	19.1	13.0	18.1	15.5	6350		330	310	10.1	0.939	0.0489	49.3				58%		100%
Truck SUV	Port Variable Timing 3 Valve	2012	56	0.007	19.6	13.3	18.5	15.8	6312		330	310	10.1	0.939	0.0492	50.0				49%		100%
Truck SUV	Port Variable Timing 4 Valve	1999	69	0.103	23.3	16.8	21.2	18.9	4000		183	220	9.2	1.202	0.0550	37.8				100%		100%
Truck SUV	Port Variable Timing 4 Valve	2000	64	0.146	22.7	16.3	20.6	18.4	4086		190	225	9.2	1.189	0.0551	37.6				91%		100%
Truck SUV	Port Variable Timing 4 Valve	2001	390	0.188	21.8	15.5	19.9	17.7	4219		191	222	9.7	1.164	0.0524	37.5			9%	79%	3%	97%
Truck SUV	Port Variable Timing 4 Valve	2002	897	0.249	21.8	15.2	20.4	17.7	4336		213	235	9.5	1.113	0.0539	38.4			7%	76%	2%	98%
Truck SUV	Port Variable Timing 4 Valve	2003	1194	0.300	22.1	15.3	20.5	17.8	4411		211	234	9.6	1.118	0.0528	39.4			8%	76%	2%	96%
Truck SUV	Port Variable Timing 4 Valve	2004	1549	0.354	21.9	15.1	20.4	17.7	4566		224	244	9.6	1.102	0.0532	40.3			6%	76%	2%	96%
Truck SUV	Port Variable Timing 4 Valve	2005	1511	0.409	21.9	15.0	20.2	17.5	4590		222	246	9.5	1.118	0.0534	40.3			6%	80%	1%	96%
Truck SUV	Port Variable Timing 4 Valve	2006	1516	0.485	22.0	15.0	20.3	17.6	4652		222	243	9.7	1.106	0.0521	41.0			9%	77%	1%	96%
Truck SUV	Port Variable Timing 4 Valve	2007	1579	0.473	23.3	16.0	21.3	18.6	4478		209	238	9.6	1.155	0.0531	41.9			13%	78%	2%	89%
Truck SUV	Port Variable Timing 4 Valve	2008	1619	0.481	23.6	16.1	21.8	18.9	4578		211	249	9.5	1.187	0.0540	43.4			18%	74%	1%	91%
Truck SUV	Port Variable Timing 4 Valve	2009	980	0.601	25.0	17.0	22.8	19.9	4448		199	241	9.5	1.215	0.0539	44.3			20%	79%	1%	83%
Truck SUV	Port Variable Timing 4 Valve	2010	1501	0.674	26.2	17.9	23.6	20.8	4312		194	232	9.5	1.200	0.0535	45.1			11%	85%	1%	83%
Truck SUV	Port Variable Timing 4 Valve	2011	2006	0.674	26.5	18.0	24.0	21.0	4349		193	235	9.5	1.216	0.0536	45.8			13%	82%	1%	82%
Truck SUV	Port Variable Timing 4 Valve	2012	1909	0.654	26.7	18.2	24.3	21.2	4290		195	241	9.2	1.236	0.0558	45.7			16%	80%	3%	82%

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu- Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton- MPG	Cu-Ft- MPG	Cu-Ft- Ton- MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Truck SUV	Port Variable Timing 5 Valve	1999																				
Truck SUV	Port Variable Timing 5 Valve	2000																				
Truck SUV	Port Variable Timing 5 Valve	2001																				
Truck SUV	Port Variable Timing 5 Valve	2002																				
Truck SUV	Port Variable Timing 5 Valve	2003																				
Truck SUV	Port Variable Timing 5 Valve	2004	18	0.003	18.0	12.3	17.1	14.6	5500		255	310	9.0	1.216	0.0564	40.2				100%		100%
Truck SUV	Port Variable Timing 5 Valve	2005	7	0.002	18.0	12.3	17.0	14.6	5500		255	310	9.0	1.216	0.0564	40.1				100%		100%
Truck SUV	Port Variable Timing 5 Valve	2006	4	0.001	18.0	12.3	17.0	14.6	5500		255	310	9.0	1.216	0.0564	40.1				100%		100%
Truck SUV	Port Variable Timing 5 Valve	2007																				
Truck SUV	Port Variable Timing 5 Valve	2008																				
Truck SUV	Port Variable Timing 5 Valve	2009																				
Truck SUV	Port Variable Timing 5 Valve	2010																				
Truck SUV	Port Variable Timing 5 Valve	2011																				
Truck SUV	Port Variable Timing 5 Valve	2012																				
Pickup	Diesel Fixed Timing 2 Valve	1999	0	0.001	18.9	13.5	17.7	15.5	6000		395	180	15.0	0.456	0.0300	46.4				100%		100%
Pickup	Diesel Fixed Timing 2 Valve	2000																				
Pickup	Diesel Fixed Timing 2 Valve	2001																				
Pickup	Diesel Fixed Timing 2 Valve	2002																				
Pickup	Diesel Fixed Timing 2 Valve	2003																				
Pickup	Diesel Fixed Timing 2 Valve	2004																				
Pickup	Diesel Fixed Timing 2 Valve	2005																				
Pickup	Diesel Fixed Timing 2 Valve	2006																				
Pickup	Diesel Fixed Timing 2 Valve	2007																				
Pickup	Diesel Fixed Timing 2 Valve	2008																				
Pickup	Diesel Fixed Timing 2 Valve	2009																				
Pickup	Diesel Fixed Timing 2 Valve	2010																				
Pickup	Diesel Fixed Timing 2 Valve	2011																				
Pickup	Diesel Fixed Timing 2 Valve	2012																				
Pickup	GDI Variable Timing 4 Valve	1999																				
Pickup	GDI Variable Timing 4 Valve	2000																				

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Pickup	GDI Variable Timing 4 Valve	2001																				
Pickup	GDI Variable Timing 4 Valve	2002																				
Pickup	GDI Variable Timing 4 Valve	2003																				
Pickup	GDI Variable Timing 4 Valve	2004																				
Pickup	GDI Variable Timing 4 Valve	2005																				
Pickup	GDI Variable Timing 4 Valve	2006																				
Pickup	GDI Variable Timing 4 Valve	2007																				
Pickup	GDI Variable Timing 4 Valve	2008																				
Pickup	GDI Variable Timing 4 Valve	2009																				
Pickup	GDI Variable Timing 4 Valve	2010																				
Pickup	GDI Variable Timing 4 Valve	2011	113	0.154	22.6	15.3	21.1	18.2	5877		214	360	8.4	1.682	0.0613	53.4				75%		100%
Pickup	GDI Variable Timing 4 Valve	2012	129	0.237	22.6	15.3	21.2	18.2	5857		214	360	8.4	1.682	0.0616	53.3				77%		100%
Pickup	Hybrid	1999																				
Pickup	Hybrid	2000																				
Pickup	Hybrid	2001																				
Pickup	Hybrid	2002																				
Pickup	Hybrid	2003																				
Pickup	Hybrid	2004	0	0.005	21.2	15.4	17.9	16.7	5318		325	295	9.1	0.908	0.0556	44.4				64%		100%
Pickup	Hybrid	2005	1	0.011	21.2	15.3	17.9	16.7	5151		325	295	6.5	0.908	0.0574	43.0				30%		100%
Pickup	Hybrid	2006	3	0.015	21.3	15.2	18.4	16.9	5346		325	295	6.8	0.908	0.0553	45.0				69%		100%
Pickup	Hybrid	2007	1	0.022	21.7	15.5	18.7	17.1	5212		325	295	6.7	0.908	0.0567	44.6				42%		100%
Pickup	Hybrid	2008																				
Pickup	Hybrid	2009	2	0.023	28.3	21.1	21.8	21.5	6000		364	332	8.2	0.912	0.0553	64.6				56%		
Pickup	Hybrid	2010																				
Pickup	Hybrid	2011																				
Pickup	Hybrid	2012																				
Pickup	Port Fixed Timing 2 Valve	1999	2348	0.565	19.7	14.0	18.5	16.1	4565		275	209	10.9	0.763	0.0453	36.7				46%	15%	85%
Pickup	Port Fixed Timing 2 Valve	2000	2280	0.550	20.3	14.4	18.9	16.5	4391		263	205	10.8	0.786	0.0462	36.3				38%	15%	85%
Pickup	Port Fixed Timing 2 Valve	2001	2197	0.506	19.3	13.6	18.0	15.7	4642		280	221	10.5	0.795	0.0473	36.5				39%	10%	91%
Pickup	Port Fixed Timing 2 Valve	2002	1957	0.465	19.0	13.4	17.6	15.4	4832		287	236	10.3	0.822	0.0487	37.2				45%	6%	94%

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Pickup	Port Fixed Timing 2 Valve	2003	2116	0.441	19.6	13.7	17.9	15.8	4749		275	230	10.5	0.834	0.0479	37.5				40%	8%	92%
Pickup	Port Fixed Timing 2 Valve	2004	1694	0.374	19.3	13.5	17.6	15.5	4970		291	253	10.0	0.864	0.0507	38.5				45%	5%	95%
Pickup	Port Fixed Timing 2 Valve	2005	1360	0.336	19.3	13.3	17.8	15.5	5053		294	260	9.9	0.879	0.0514	39.2				45%	4%	97%
Pickup	Port Fixed Timing 2 Valve	2006	1112	0.263	19.7	13.6	18.1	15.9	5083		292	257	10.1	0.875	0.0505	40.3				41%	4%	96%
Pickup	Port Fixed Timing 2 Valve	2007	1154	0.225	19.9	13.7	18.4	16.0	5274		298	271	9.9	0.904	0.0512	42.2				44%	2%	98%
Pickup	Port Fixed Timing 2 Valve	2008	993	0.187	20.4	14.0	18.9	16.4	5285		296	273	9.9	0.917	0.0515	43.7				44%	2%	98%
Pickup	Port Fixed Timing 2 Valve	2009	495	0.115	20.5	14.0	19.1	16.5	5347		304	287	9.5	0.941	0.0536	44.1				48%	0%	100%
Pickup	Port Fixed Timing 2 Valve	2010	178	0.077	20.7	14.2	19.1	16.6	5001		268	242	10.3	0.901	0.0484	41.6				33%	1%	99%
Pickup	Port Fixed Timing 2 Valve	2011	158	0.039	20.7	14.3	18.9	16.6	4696		259	232	10.2	0.892	0.0494	38.9				41%	3%	97%
Pickup	Port Fixed Timing 2 Valve	2012	108	0.022	21.1	14.4	19.5	16.9	5132		271	249	10.5	0.912	0.0481	43.5				25%		100%
Pickup	Port Fixed Timing 3 Valve	1999																				
Pickup	Port Fixed Timing 3 Valve	2000																				
Pickup	Port Fixed Timing 3 Valve	2001																				
Pickup	Port Fixed Timing 3 Valve	2002																				
Pickup	Port Fixed Timing 3 Valve	2003																				
Pickup	Port Fixed Timing 3 Valve	2004																				
Pickup	Port Fixed Timing 3 Valve	2005																				
Pickup	Port Fixed Timing 3 Valve	2006																				
Pickup	Port Fixed Timing 3 Valve	2007	17	0.004	19.1	12.9	18.5	15.6	5019		281	295	8.8	1.048	0.0587	39.1				63%		100%
Pickup	Port Fixed Timing 3 Valve	2008	9	0.002	17.9	12.2	17.1	14.6	5408		302	351	8.2	1.153	0.0643	39.4				43%		100%
Pickup	Port Fixed Timing 3 Valve	2009	51	0.006	20.7	14.1	19.5	16.7	5626		280	292	9.7	1.043	0.0520	47.1				38%		100%
Pickup	Port Fixed Timing 3 Valve	2010	268	0.028	19.8	13.6	18.3	16.0	5886		330	310	9.5	0.939	0.0527	47.0				78%		100%
Pickup	Port Fixed Timing 3 Valve	2011																				
Pickup	Port Fixed Timing 3 Valve	2012																				
Pickup	Port Fixed Timing 4 Valve	1999	196	0.306	23.6	17.3	20.8	19.0	3544		171	159	10.8	0.935	0.0449	33.7				41%	46%	41%
Pickup	Port Fixed Timing 4 Valve	2000	332	0.280	21.6	15.8	19.1	17.4	3993		204	186	10.6	0.918	0.0462	34.7				40%	29%	65%
Pickup	Port Fixed Timing 4 Valve	2001	322	0.271	22.2	16.2	19.5	17.8	3932		196	180	10.8	0.928	0.0455	35.1				34%	29%	64%
Pickup	Port Fixed Timing 4 Valve	2002	423	0.254	21.8	15.7	19.2	17.5	4032		200	181	11.0	0.912	0.0445	35.4				32%	25%	70%
Pickup	Port Fixed Timing 4 Valve	2003	358	0.224	22.4	15.9	19.7	17.9	4005		200	182	10.8	0.926	0.0452	36.0				34%	25%	69%
Pickup	Port Fixed Timing 4 Valve	2004	339	0.218	21.6	15.3	19.1	17.2	4147		208	188	10.9	0.919	0.0451	35.8				34%	23%	70%

2012 FE Trends Report
Appendix K: Fuel Economy Data Stratified by Vehicle Type, Engine Type and Valves Per Cylinder

Vehicle Type*	Engine Type and Valves	Model Year	Prod (000)	Frac	Fuel Economy				Weight Lb	Vol Cu-Ft	ENGINE		0-60 Time (sec)	HP/ CID	HP/ WT	Ton-MPG	Cu-Ft-MPG	Cu-Ft-Ton-MPG	Drivetrain		Transmission	
					Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD	Manual	Lockup
Pickup	Port Fixed Timing 4 Valve	2005	40	0.190	27.5	19.0	24.2	21.7	3696		144	151	11.7	1.046	0.0408	40.1				21%	41%	59%
Pickup	Port Fixed Timing 4 Valve	2006	33	0.172	28.1	19.3	25.0	22.2	3595		142	150	11.5	1.051	0.0416	40.0				23%	40%	60%
Pickup	Port Fixed Timing 4 Valve	2007	97	0.195	22.9	16.0	20.1	18.1	4195		241	236	9.0	0.980	0.0565	38.0				39%	7%	93%
Pickup	Port Fixed Timing 4 Valve	2008	113	0.216	22.7	15.9	20.0	18.0	4256		241	236	9.1	0.980	0.0558	38.2				46%	9%	91%
Pickup	Port Fixed Timing 4 Valve	2009	78	0.149	22.9	15.9	20.4	18.2	4341		241	236	9.3	0.979	0.0546	39.4				60%	8%	92%
Pickup	Port Fixed Timing 4 Valve	2010	36	0.051	27.7	19.2	24.2	21.7	3500		140	143	11.7	1.021	0.0409	38.1					13%	87%
Pickup	Port Fixed Timing 4 Valve	2011	47	0.022	27.8	19.3	24.4	21.9	3500		140	143	11.7	1.021	0.0409	38.4					15%	85%
Pickup	Port Fixed Timing 4 Valve	2012																				
Pickup	Port Variable Timing 2 Valve	1999																				
Pickup	Port Variable Timing 2 Valve	2000																				
Pickup	Port Variable Timing 2 Valve	2001																				
Pickup	Port Variable Timing 2 Valve	2002																				
Pickup	Port Variable Timing 2 Valve	2003																				
Pickup	Port Variable Timing 2 Valve	2004																				
Pickup	Port Variable Timing 2 Valve	2005																				
Pickup	Port Variable Timing 2 Valve	2006	0	0.014	15.2	10.6	14.2	12.4	6500		330	445	7.7	1.348	0.0685	40.2				100%		100%
Pickup	Port Variable Timing 2 Valve	2007	112	0.055	21.1	14.4	19.6	17.0	4630		241	204	11.0	0.852	0.0445	39.3				22%	10%	90%
Pickup	Port Variable Timing 2 Valve	2008	61	0.046	21.5	14.5	20.6	17.4	4368		244	219	10.2	0.880	0.0493	37.8				54%		100%
Pickup	Port Variable Timing 2 Valve	2009	72	0.044	19.4	13.1	18.5	15.8	5687		345	345	8.5	1.000	0.0609	44.8				64%	0%	100%
Pickup	Port Variable Timing 2 Valve	2010	334	0.068	20.8	14.1	19.8	16.8	5504		326	324	8.8	0.992	0.0589	46.5				67%		100%
Pickup	Port Variable Timing 2 Valve	2011	580	0.096	20.8	14.0	19.8	16.8	5522		326	331	8.7	1.012	0.0600	46.6				70%		100%
Pickup	Port Variable Timing 2 Valve	2012	489	0.067	20.6	13.9	19.6	16.7	5441		329	335	8.5	1.016	0.0617	45.6				57%		99%
Pickup	Port Variable Timing 3 Valve	1999																				
Pickup	Port Variable Timing 3 Valve	2000																				
Pickup	Port Variable Timing 3 Valve	2001																				
Pickup	Port Variable Timing 3 Valve	2002																				
Pickup	Port Variable Timing 3 Valve	2003																				
Pickup	Port Variable Timing 3 Valve	2004	358	0.023	18.1	12.6	16.7	14.6	5833		330	300	9.7	0.909	0.0515	42.7				69%		100%
Pickup	Port Variable Timing 3 Valve	2005	322	0.031	18.2	12.6	16.6	14.6	5835		330	300	9.7	0.909	0.0515	42.7				67%		100%
Pickup	Port Variable Timing 3 Valve	2006	325	0.040	18.0	12.5	16.5	14.5	5828		330	300	9.7	0.909	0.0516	42.2				67%		100%



EPA-420-R-13-001 *The "Car" vehicle type includes Non-Truck SUVs.

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix L Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler- Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Adjusted Composite	Car	Car	1975	12.9	18.1	26.7	11.9	21.5	13.4		22.8		14.7	23.1	14.7	13.5	13.4
Adjusted Composite	Car	Car	1976	14.2	21.4	28.0	14.2	22.8	14.3		23.8		15.6	26.0	15.9	18.8	14.9
Adjusted Composite	Car	Car	1977	15.2	24.6	30.8	14.1	23.1	14.2		25.4		16.9	25.9	16.3	25.3	15.6
Adjusted Composite	Car	Car	1978	16.3	23.0	28.8	15.8	23.0	16.5		23.8		16.4	28.0	15.9	30.4	17.0
Adjusted Composite	Car	Car	1979	16.4	20.4	24.6	16.3	22.7	18.2		25.1		16.7	27.0	17.3	21.3	17.3
Adjusted Composite	Car	Car	1980	18.7	23.3	24.6	19.1	26.4	19.6		26.7		21.3	25.0	20.3	21.8	20.0
Adjusted Composite	Car	Car	1981	19.9	26.4	26.0	19.6	25.8	22.4		29.6		21.8	27.9	21.6	26.3	21.4
Adjusted Composite	Car	Car	1982	20.9	26.0	28.2	20.8	26.0	22.9		28.9		21.6	28.0	22.2	24.9	22.3
Adjusted Composite	Car	Car	1983	20.1	26.9	29.9	20.1	27.7	24.3		26.8		21.6	27.7	22.4	24.5	22.0
Adjusted Composite	Car	Car	1984	20.9	27.9	29.9	21.5	26.9	24.3		24.7		23.0	27.6	22.1	25.6	22.4
Adjusted Composite	Car	Car	1985	21.9	27.3	28.7	22.1	25.1	24.0		25.6		21.7	27.0	19.5	25.3	23.0
Adjusted Composite	Car	Car	1986	23.1	27.4	28.4	22.6	25.7	24.3	29.5	25.1		21.2	26.1	17.9	25.0	23.8
Adjusted Composite	Car	Car	1987	23.3	27.8	27.7	22.6	24.9	23.4	29.0	24.4		20.3	26.1	18.5	24.6	23.9
Adjusted Composite	Car	Car	1988	23.9	27.5	26.7	22.9	25.8	24.0	28.7	25.4		18.0	27.6	17.8	24.0	24.2
Adjusted Composite	Car	Car	1989	23.3	26.7	26.2	22.8	25.3	23.5	27.8	25.2		18.3	27.3	17.8	24.7	23.8
Adjusted Composite	Car	Car	1990	23.0	25.4	25.3	22.2	23.8	22.9	27.6	24.1		18.4	24.1	17.8	25.0	23.4
Adjusted Composite	Car	Car	1991	22.9	25.4	25.3	22.7	24.2	22.9	27.1	24.7		19.1	24.0	18.6	25.2	23.4
Adjusted Composite	Car	Car	1992	22.4	24.0	25.8	22.2	24.9	23.0	25.7	24.2		20.0	23.2	18.2	25.3	23.1
Adjusted Composite	Car	Car	1993	22.9	24.0	26.6	22.8	24.2	23.1	25.6	22.4	26.1	20.9	24.6	18.9	24.9	23.4
Adjusted Composite	Car	Car	1994	22.9	24.0	26.4	22.3	24.7	21.8	26.9	23.3	26.9	20.8	23.8	19.5	25.0	23.2
Adjusted Composite	Car	Car	1995	22.7	24.7	26.9	22.7	24.1	23.3	25.4	23.7	25.4	20.9	23.8	20.3	25.2	23.4
Adjusted Composite	Car	Car	1996	23.1	24.2	26.0	21.7	24.8	22.5	27.0	23.2	23.7	22.3	23.2	20.8	25.8	23.4
Adjusted Composite	Car	Car	1997	23.2	24.3	26.2	22.1	24.2	22.4	25.4	23.5	25.1	21.1	23.6	20.6	25.1	23.4
Adjusted Composite	Car	Car	1998	22.7	24.6	25.9	22.5	24.6	23.3	24.9	23.5	25.0	20.7	23.0	22.2	24.4	23.4
Adjusted Composite	Car	Car	1999	22.5	24.6	25.0	22.3	24.1	22.1	24.9	23.1	24.9	20.7	22.7	21.5	24.4	23.0
Adjusted Composite	Car	Car	2000	22.6	24.7	25.0	22.1	22.7	22.5	24.4	23.3	24.2	20.2	22.5	20.3	24.1	22.9
Adjusted Composite	Car	Car	2001	22.9	25.1	25.9	21.8	22.8	22.5	25.0	23.0	24.3	20.2	22.4	20.2	23.5	23.1
Adjusted Composite	Car	Car	2002	23.1	24.6	25.5	21.9	23.2	22.1	24.8	23.4	23.5	21.1	21.7	19.9	23.6	23.2
Adjusted Composite	Car	Car	2003	23.0	25.7	26.1	21.5	22.3	23.8	24.1	23.6	24.0	21.5	21.8	19.7	23.8	23.3
Adjusted Composite	Car	Car	2004	23.4	25.7	26.0	20.7	22.5	22.9	23.4	22.9	23.1	21.2	20.9	19.8	22.4	23.2
Adjusted Composite	Car	Car	2005	23.2	27.1	26.0	21.7	23.3	22.3	24.0	22.9	23.3	21.6	21.3	20.1	23.3	23.6
Adjusted Composite	Car	Car	2006	22.7	26.9	26.5	21.5	23.0	20.5	23.8	23.8	25.7	21.7	21.9	19.6	24.3	23.4
Adjusted Composite	Car	Car	2007	23.0	27.3	26.5	22.2	24.9	22.2	25.4	22.8	26.9	22.2	22.2	18.9	24.8	24.2
Adjusted Composite	Car	Car	2008	22.7	28.3	26.8	22.5	25.3	22.4	26.6	23.1	27.1	21.9	22.8	20.5	25.2	24.3
Adjusted Composite	Car	Car	2009	23.8	28.6	27.0	23.4	26.0	21.9	26.7	24.3	28.0	22.8	23.0	20.7	24.7	25.3
Adjusted Composite	Car	Car	2010	23.7	30.6	27.7	24.7	26.4	21.8	28.2	25.5	28.7	22.8	24.4	20.0	26.3	26.1

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Adjusted Composite	Car	Car	2011	24.1	28.7	28.5	25.5	26.4	22.3	28.5	26.8	29.5	23.3	24.4	20.4	27.0	26.0
Adjusted Composite	Car	Car	2012	25.3	31.1	29.7	28.4	27.1	24.6	30.2	26.7	30.0	24.4	25.7	23.0	27.1	27.7
Adjusted Composite	Car	Wagon	1975	12.5	19.4		11.3	17.8	13.8		23.3			21.7		15.5	13.8
Adjusted Composite	Car	Wagon	1976	13.2	21.0	25.1	13.8	23.4	14.6		23.8			23.8		18.6	14.7
Adjusted Composite	Car	Wagon	1977	14.4	23.7	27.1	13.5	23.0	14.2		24.5			25.5		23.5	15.3
Adjusted Composite	Car	Wagon	1978	15.2	21.7	26.7	15.8	21.7	15.3		22.0			23.4		17.5	16.4
Adjusted Composite	Car	Wagon	1979	15.1	21.2	25.3	16.6	23.7	15.7		21.3			23.9	20.9	26.7	16.7
Adjusted Composite	Car	Wagon	1980	17.2	23.3	27.6	19.1	27.3	16.5		34.1			22.8	21.1	27.2	20.1
Adjusted Composite	Car	Wagon	1981	18.0	24.7	28.6	21.6	26.7	21.4		34.5			25.3	24.8	28.2	21.8
Adjusted Composite	Car	Wagon	1982	18.6	24.9	31.2	21.5	27.2	23.2		25.4			26.0	24.9	28.3	21.6
Adjusted Composite	Car	Wagon	1983	19.5	29.5	31.2	21.9	29.5	23.3		26.1			25.7	24.9	26.5	23.2
Adjusted Composite	Car	Wagon	1984	20.6	28.8	30.7	22.3	29.9	23.9		21.2			25.4	24.6	23.5	22.6
Adjusted Composite	Car	Wagon	1985	20.9	29.9	29.5	22.9	25.6	22.9		22.1			25.1	22.8	23.5	23.4
Adjusted Composite	Car	Wagon	1986	21.6	27.2	29.2	23.3	24.0	22.6		19.4			24.7		24.7	23.0
Adjusted Composite	Car	Wagon	1987	21.9	27.5	28.8	22.5	23.6	22.6		22.5			23.7	22.4	28.4	23.0
Adjusted Composite	Car	Wagon	1988	22.5	26.5	28.6	22.5	23.6	24.5		26.0			24.7	17.5	26.9	23.3
Adjusted Composite	Car	Wagon	1989	22.0	25.6	28.9	21.9	27.0	25.9		24.6			24.4	17.5	25.9	22.6
Adjusted Composite	Car	Wagon	1990	22.2	25.0	29.1	21.4	27.9	26.9		23.8			22.8	17.7		22.4
Adjusted Composite	Car	Wagon	1991	21.5	25.6	23.9	24.4				22.6			22.9	17.7		23.4
Adjusted Composite	Car	Wagon	1992	21.1	24.0	22.6	24.1				22.4		19.5	23.5	17.7		23.0
Adjusted Composite	Car	Wagon	1993	22.4	24.6	22.9	26.1		22.7		19.8		20.3	23.5	19.5		24.6
Adjusted Composite	Car	Wagon	1994	22.7	24.3	23.9	26.3				19.6		19.7	22.7	20.5		24.4
Adjusted Composite	Car	Wagon	1995	22.9	25.3	23.9	26.0				19.6		20.2	23.2	21.1		24.4
Adjusted Composite	Car	Wagon	1996	23.2	25.1	23.3	23.0			24.9	22.7			22.3			22.8
Adjusted Composite	Car	Wagon	1997	27.4		22.1	24.4			24.9	20.2			22.7			23.7
Adjusted Composite	Car	Wagon	1998	27.6			23.9			24.1	21.3			22.5	22.3		23.1
Adjusted Composite	Car	Wagon	1999	28.0			22.7			23.6	21.8		19.4	22.3	21.8		22.6
Adjusted Composite	Car	Wagon	2000	24.0			23.0			23.5	20.5		20.1	22.5	21.8		22.4
Adjusted Composite	Car	Wagon	2001	24.5			23.2		21.8		19.7		20.3	22.2	21.3		21.7
Adjusted Composite	Car	Wagon	2002	23.1			23.1		20.5		22.4		20.7	21.9	20.6		21.5
Adjusted Composite	Car	Wagon	2003	26.9	27.5		22.8		20.6		22.8		20.7	21.8	20.3		23.2
Adjusted Composite	Car	Wagon	2004	27.3	28.0		22.1		19.7		22.2		20.8	21.8	19.5	20.5	22.1
Adjusted Composite	Car	Wagon	2005	27.4	28.4		24.5		19.3		23.3		20.6	22.0	19.0	21.2	22.2
Adjusted Composite	Car	Wagon	2006	25.0	28.1		26.4		20.1		23.5		21.2	22.4	18.9	21.5	22.5
Adjusted Composite	Car	Wagon	2007	24.8	28.2	30.6	27.7		20.0		23.5	21.9	21.5	22.6	17.3	21.5	23.0
Adjusted Composite	Car	Wagon	2008	26.1	25.6	30.7			20.7		23.4	22.0	20.6	22.7	17.4		23.9

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Adjusted Composite	Car	Wagon	2009	25.6	25.7	30.6		28.7	21.8	26.9	27.0	23.0	21.2	22.7	17.4		25.5
Adjusted Composite	Car	Wagon	2010	25.6	25.9	30.7		25.0	24.3	26.9	30.6	27.0	20.5	22.5			26.5
Adjusted Composite	Car	Wagon	2011	19.5	25.1	30.8		27.5	25.2	26.9	31.1	27.2	21.4	22.6	19.6		27.0
Adjusted Composite	Car	Wagon	2012	21.8	31.7	30.2		27.6	25.2	26.9	31.5	26.3	21.4	29.6	22.3		28.2
Adjusted Composite	Car	Non-Truck SUV	1975	13.2	10.2				12.4								11.1
Adjusted Composite	Car	Non-Truck SUV	1976	14.3	9.2				14.1								10.6
Adjusted Composite	Car	Non-Truck SUV	1977	15.3	11.7				13.9								12.2
Adjusted Composite	Car	Non-Truck SUV	1978	14.9	11.1				13.9								11.6
Adjusted Composite	Car	Non-Truck SUV	1979		11.7				17.2								14.3
Adjusted Composite	Car	Non-Truck SUV	1980						15.0								14.6
Adjusted Composite	Car	Non-Truck SUV	1981						14.7								14.7
Adjusted Composite	Car	Non-Truck SUV	1982	18.8					19.9								19.8
Adjusted Composite	Car	Non-Truck SUV	1983	21.4					19.6								20.7
Adjusted Composite	Car	Non-Truck SUV	1984	20.2					15.6								19.3
Adjusted Composite	Car	Non-Truck SUV	1985	20.1					19.9								20.1
Adjusted Composite	Car	Non-Truck SUV	1986	18.9			20.0		19.2								18.9
Adjusted Composite	Car	Non-Truck SUV	1987	19.6			19.8		17.9								19.4
Adjusted Composite	Car	Non-Truck SUV	1988	19.6			19.4		17.9								19.2
Adjusted Composite	Car	Non-Truck SUV	1989	19.4			19.5		17.6								19.1
Adjusted Composite	Car	Non-Truck SUV	1990	19.0	17.4		19.5		17.8								18.8
Adjusted Composite	Car	Non-Truck SUV	1991	19.0	17.9		17.8		17.3								18.2
Adjusted Composite	Car	Non-Truck SUV	1992	18.7	14.2		17.7		17.3							17.9	17.8
Adjusted Composite	Car	Non-Truck SUV	1993	19.5	15.1		18.0		16.1							18.2	17.0
Adjusted Composite	Car	Non-Truck SUV	1994	18.8		16.8	17.5		17.4							17.8	18.0
Adjusted Composite	Car	Non-Truck SUV	1995	18.9	17.6		18.6		16.2			21.0					17.8
Adjusted Composite	Car	Non-Truck SUV	1996	18.8	21.1	16.3	18.5		17.1			20.3					18.4
Adjusted Composite	Car	Non-Truck SUV	1997	18.0	22.6	15.9	17.6		16.9			18.9					19.2
Adjusted Composite	Car	Non-Truck SUV	1998	18.4	24.1	20.3	17.4		17.1			19.7					18.2
Adjusted Composite	Car	Non-Truck SUV	1999	18.2	22.2	20.2	17.7		17.7			19.7					18.5
Adjusted Composite	Car	Non-Truck SUV	2000	18.0	21.3	20.4	17.2	16.3	17.2			18.7					17.9
Adjusted Composite	Car	Non-Truck SUV	2001	19.3	21.7	20.8	18.1	16.5	17.2	21.0		18.4				20.0	18.8
Adjusted Composite	Car	Non-Truck SUV	2002	19.4	22.1	22.9	19.0	16.6	16.5	20.5		18.4				20.2	19.3
Adjusted Composite	Car	Non-Truck SUV	2003	20.7	22.5	23.5	19.4	18.4	17.7	20.6						20.3	19.9
Adjusted Composite	Car	Non-Truck SUV	2004	19.9	21.6	23.2	20.2	18.6	18.2	20.1						20.2	20.0
Adjusted Composite	Car	Non-Truck SUV	2005	19.9	22.0	23.3	20.9	18.8	17.7	20.2		20.8				20.9	20.2
Adjusted Composite	Car	Non-Truck SUV	2006	20.1	22.9	23.3	21.4	18.6	18.0	20.4		20.9				21.3	20.5

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Adjusted Composite	Car	Non-Truck SUV	2007	20.4	22.0	23.6	20.4	19.0	18.5	20.6		20.0				19.3	20.6
Adjusted Composite	Car	Non-Truck SUV	2008	20.3	22.2	23.5	21.4	21.1		20.8		20.0				21.1	21.2
Adjusted Composite	Car	Non-Truck SUV	2009	20.7	23.0	23.5	22.7	21.7	21.7	21.0		20.6				21.3	22.0
Adjusted Composite	Car	Non-Truck SUV	2010	23.4	23.4	24.4	22.4	22.0	22.0	24.0		22.4			19.1	23.4	23.0
Adjusted Composite	Car	Non-Truck SUV	2011	23.7	23.7	24.3	23.0	23.4		24.1		24.2			18.9	23.6	23.6
Adjusted Composite	Car	Non-Truck SUV	2012	24.4	23.6	26.5	23.4	23.3		23.4		24.9			19.1	23.0	24.1
Adjusted Composite	Car	All	1975	12.8	18.4	26.7	11.8	21.4	13.5		22.8		14.7	22.5	14.7	14.6	13.5
Adjusted Composite	Car	All	1976	14.1	20.8	27.8	14.1	22.9	14.3		23.8		15.6	25.3	15.9	18.7	14.9
Adjusted Composite	Car	All	1977	15.1	23.7	30.2	14.0	23.1	14.2		25.4		16.9	25.7	16.3	25.0	15.6
Adjusted Composite	Car	All	1978	16.2	22.2	28.6	15.8	22.8	16.2		23.7		16.4	25.5	15.9	30.2	16.9
Adjusted Composite	Car	All	1979	16.3	20.3	24.7	16.3	22.8	17.9		25.1		16.7	25.2	17.4	21.9	17.2
Adjusted Composite	Car	All	1980	18.7	23.3	24.8	19.1	26.6	19.4		27.0		21.3	24.0	20.3	22.2	20.0
Adjusted Composite	Car	All	1981	19.8	26.3	26.2	19.9	25.9	22.2		29.7		21.8	26.6	21.7	26.4	21.4
Adjusted Composite	Car	All	1982	20.7	25.9	28.4	20.9	26.1	22.9		28.8		21.6	26.9	22.3	25.0	22.2
Adjusted Composite	Car	All	1983	20.1	27.7	30.0	20.4	27.9	24.1		26.7		21.6	26.6	22.4	24.6	22.1
Adjusted Composite	Car	All	1984	20.8	28.0	29.9	21.6	27.2	24.2		24.6		23.0	26.5	22.1	25.6	22.4
Adjusted Composite	Car	All	1985	21.8	28.0	28.8	22.1	25.1	23.9		25.4		21.7	25.9	19.6	25.3	23.0
Adjusted Composite	Car	All	1986	23.0	27.3	28.5	22.7	25.4	24.1	29.5	25.0		21.2	25.5	17.9	25.0	23.7
Adjusted Composite	Car	All	1987	23.1	27.8	27.7	22.5	24.8	23.3	29.0	24.4		20.3	24.8	18.6	24.7	23.8
Adjusted Composite	Car	All	1988	23.8	27.5	26.7	22.8	25.7	23.9	28.7	25.4		18.0	26.3	17.8	24.0	24.1
Adjusted Composite	Car	All	1989	23.1	26.7	26.2	22.7	25.3	23.4	27.8	25.2		18.3	26.3	17.8	24.7	23.6
Adjusted Composite	Car	All	1990	23.0	25.3	25.4	22.1	23.8	22.8	27.6	24.1		18.4	23.4	17.8	25.0	23.3
Adjusted Composite	Car	All	1991	22.7	25.4	25.2	22.6	24.2	22.8	27.1	24.7		19.1	23.5	18.6	25.2	23.3
Adjusted Composite	Car	All	1992	22.3	23.9	25.7	22.1	24.9	22.6	25.7	24.1		19.9	23.3	18.2	25.1	22.9
Adjusted Composite	Car	All	1993	22.7	23.8	26.5	22.9	24.2	20.9	25.6	22.3	26.1	20.9	24.1	18.9	24.8	23.0
Adjusted Composite	Car	All	1994	22.7	24.0	26.2	22.3	24.7	21.3	26.9	23.2	26.9	20.8	23.2	19.6	24.9	23.0
Adjusted Composite	Car	All	1995	22.6	24.3	26.8	23.0	24.1	22.6	25.4	23.5	25.4	20.8	23.4	20.3	25.2	23.3
Adjusted Composite	Car	All	1996	22.9	24.0	25.8	21.7	24.8	21.8	26.8	23.2	23.4	22.3	22.5	20.8	25.8	23.1
Adjusted Composite	Car	All	1997	23.0	24.1	26.0	22.1	24.2	21.8	25.4	23.4	23.7	21.1	22.9	20.6	25.1	23.2
Adjusted Composite	Car	All	1998	22.4	24.6	25.7	21.9	24.6	22.4	24.9	23.4	24.0	20.7	22.6	22.2	24.4	23.0
Adjusted Composite	Car	All	1999	22.3	24.5	24.8	21.8	24.1	21.6	24.8	23.1	23.7	20.7	22.4	21.5	24.4	22.7
Adjusted Composite	Car	All	2000	22.3	24.5	24.8	21.6	21.8	21.7	24.4	23.1	22.6	20.2	22.5	20.4	24.1	22.5
Adjusted Composite	Car	All	2001	22.6	24.8	25.6	21.2	21.9	21.7	24.6	22.7	23.2	20.2	22.3	20.3	22.9	22.6
Adjusted Composite	Car	All	2002	22.8	24.4	25.4	21.7	22.3	21.4	24.2	23.3	22.7	21.1	21.8	20.0	23.1	22.8
Adjusted Composite	Car	All	2003	22.9	25.6	26.0	21.3	21.8	21.8	23.5	23.5	24.0	21.5	21.8	19.8	23.2	23.0
Adjusted Composite	Car	All	2004	23.1	25.4	25.9	20.7	21.8	21.6	22.6	22.8	23.1	21.2	21.5	19.8	22.1	22.9

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler- Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Adjusted Composite	Car	All	2005	22.8	26.9	25.9	21.6	22.7	21.0	22.9	22.9	23.0	21.6	21.7	20.1	22.9	23.1
Adjusted Composite	Car	All	2006	22.5	26.8	26.3	21.5	22.5	20.3	23.1	23.8	24.9	21.7	22.2	19.4	23.6	23.0
Adjusted Composite	Car	All	2007	22.8	26.9	26.4	21.9	24.2	21.4	23.8	22.9	24.3	22.1	22.5	18.8	23.6	23.7
Adjusted Composite	Car	All	2008	22.6	27.4	26.7	22.2	24.9	22.1	25.1	23.1	24.4	21.9	22.7	20.3	24.4	23.9
Adjusted Composite	Car	All	2009	23.7	27.8	27.0	23.2	25.5	21.9	25.6	24.6	25.6	22.8	22.8	20.6	24.2	25.0
Adjusted Composite	Car	All	2010	23.8	29.5	27.6	24.1	25.8	22.1	27.4	26.1	27.9	22.8	23.8	19.9	25.8	25.7
Adjusted Composite	Car	All	2011	24.0	28.1	27.9	24.8	26.1	22.7	27.7	27.3	26.7	23.3	23.9	20.2	26.3	25.6
Adjusted Composite	Car	All	2012	25.1	30.4	29.4	27.6	26.8	24.6	29.3	27.0	27.5	24.4	27.4	22.7	27.0	27.3
Adjusted Composite	Truck	Van	1975	12.2	17.5		10.7		10.7		17.6						11.1
Adjusted Composite	Truck	Van	1976	11.9			11.4		12.1		17.0						11.8
Adjusted Composite	Truck	Van	1977	12.7			13.2		11.7		18.9						12.5
Adjusted Composite	Truck	Van	1978	11.9			12.8		11.4		17.0						12.1
Adjusted Composite	Truck	Van	1979	12.4			10.3		11.7		16.0						11.5
Adjusted Composite	Truck	Van	1980	14.2			13.8		14.1		16.2						14.1
Adjusted Composite	Truck	Van	1981	15.3			14.3		14.8		15.8						14.8
Adjusted Composite	Truck	Van	1982	15.2			13.8		15.0		18.4						14.7
Adjusted Composite	Truck	Van	1983	16.0			13.8		15.3		16.4						15.1
Adjusted Composite	Truck	Van	1984	15.5	22.9		14.1		17.2		17.6						16.1
Adjusted Composite	Truck	Van	1985	15.9	22.6		13.8		17.8		18.1						16.5
Adjusted Composite	Truck	Van	1986	16.4	22.2		16.7		18.6		16.2						17.5
Adjusted Composite	Truck	Van	1987	16.8	21.5		16.6	18.9	18.9		15.9						17.7
Adjusted Composite	Truck	Van	1988	17.1	21.6		16.4	18.8	19.4		16.7						17.9
Adjusted Composite	Truck	Van	1989	17.0	21.6		16.7	18.6	19.0		17.4					19.0	17.8
Adjusted Composite	Truck	Van	1990	17.4			16.3	21.3	19.3		17.3					17.0	17.8
Adjusted Composite	Truck	Van	1991	17.4	19.1		16.6	21.7	19.0		17.3					17.0	17.9
Adjusted Composite	Truck	Van	1992	17.4	18.6		16.4	21.3	18.9							17.8	17.9
Adjusted Composite	Truck	Van	1993	17.3	18.1		17.4	18.1	19.7		17.4					17.9	18.2
Adjusted Composite	Truck	Van	1994	17.5	18.2		16.6	18.8	18.6		16.6					17.7	17.8
Adjusted Composite	Truck	Van	1995	17.1	18.6	20.9	18.0	19.0	19.0		16.1					17.3	18.1
Adjusted Composite	Truck	Van	1996	17.7	18.4	23.3	17.7	18.9	18.8							17.2	18.3
Adjusted Composite	Truck	Van	1997	18.0	18.2	20.2	17.1	18.6	18.7		15.3					16.9	18.2
Adjusted Composite	Truck	Van	1998	18.2	19.8	21.9	18.4	18.7	19.2							16.4	18.7
Adjusted Composite	Truck	Van	1999	18.0	19.7	19.8	17.2	19.0	18.8		15.7						18.3
Adjusted Composite	Truck	Van	2000	18.0	19.6	19.6	17.7	18.7	19.1		15.6					18.7	18.6
Adjusted Composite	Truck	Van	2001	18.7	20.0	19.6	14.7	18.4	19.0		16.7					18.7	18.0
Adjusted Composite	Truck	Van	2002	18.2	19.9	19.7	17.7	18.4	19.3		16.8	16.2				19.3	18.7

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Adjusted Composite	Truck	Van	2003	18.8	19.9	19.7	17.9		19.7		16.7	16.2				19.3	19.0
Adjusted Composite	Truck	Van	2004	18.6	20.5	19.6	17.4	19.9	19.8			17.3				19.2	19.2
Adjusted Composite	Truck	Van	2005	18.2	19.9	21.0	18.8	19.9	19.6			17.3				19.1	19.3
Adjusted Composite	Truck	Van	2006	18.4	20.0	21.0	18.1	20.1	19.7			19.2				19.0	19.5
Adjusted Composite	Truck	Van	2007	18.2	20.8	19.9	19.7	19.7	19.2			19.2					19.5
Adjusted Composite	Truck	Van	2008	18.4	20.8	20.4	19.3	19.7	19.7			19.2				24.1	19.8
Adjusted Composite	Truck	Van	2009	16.0	20.8	20.4	19.6	19.7	19.8			19.2				23.8	20.1
Adjusted Composite	Truck	Van	2010	16.2	20.8	20.2	23.4		19.7			19.8				24.1	20.1
Adjusted Composite	Truck	Van	2011	15.8	20.8	22.4	21.9	21.5	20.8			21.3					21.0
Adjusted Composite	Truck	Van	2012	16.1	21.1	22.4	21.5	21.5	20.9			21.3					21.1
Adjusted Composite	Truck	Truck SUV	1975	9.9			9.0		12.5								11.0
Adjusted Composite	Truck	Truck SUV	1976	11.0	10.0		11.6		12.7								11.8
Adjusted Composite	Truck	Truck SUV	1977	12.4	10.8		12.3		13.5								12.8
Adjusted Composite	Truck	Truck SUV	1978	11.9	9.8		11.2		13.2								12.3
Adjusted Composite	Truck	Truck SUV	1979	9.5	11.3		9.3		12.9								10.5
Adjusted Composite	Truck	Truck SUV	1980	12.4	11.7		11.8		14.3								13.2
Adjusted Composite	Truck	Truck SUV	1981	13.7	12.2		12.8		15.7								14.3
Adjusted Composite	Truck	Truck SUV	1982	16.4	12.1		12.5		15.1								14.7
Adjusted Composite	Truck	Truck SUV	1983	17.3	12.0		13.0		15.0								15.8
Adjusted Composite	Truck	Truck SUV	1984	17.1	14.7		15.6		15.5								16.2
Adjusted Composite	Truck	Truck SUV	1985	17.2	18.0		16.0		12.7								16.5
Adjusted Composite	Truck	Truck SUV	1986	16.5	19.8		16.8		16.2								17.0
Adjusted Composite	Truck	Truck SUV	1987	16.3	19.1		17.0	15.7	16.8								17.3
Adjusted Composite	Truck	Truck SUV	1988	16.4	17.1		16.6	15.6	16.2								17.0
Adjusted Composite	Truck	Truck SUV	1989	16.8	16.5		15.7	15.9	16.2								16.6
Adjusted Composite	Truck	Truck SUV	1990	16.5	16.3		15.2	16.3	16.6								16.4
Adjusted Composite	Truck	Truck SUV	1991	17.2	15.2		16.6	16.3	16.2							17.2	16.7
Adjusted Composite	Truck	Truck SUV	1992	16.1	14.2		16.4	16.3	16.5							17.1	16.2
Adjusted Composite	Truck	Truck SUV	1993	16.2	14.3		16.4	16.1	16.6							17.1	16.3
Adjusted Composite	Truck	Truck SUV	1994	16.1	14.4	16.5	16.4	15.4	15.7							16.9	16.0
Adjusted Composite	Truck	Truck SUV	1995	16.1	14.4		16.2	15.7	16.0			19.9					16.0
Adjusted Composite	Truck	Truck SUV	1996	16.3	17.5	15.7	16.2	16.3	15.7			18.8					16.2
Adjusted Composite	Truck	Truck SUV	1997	16.0	16.8	20.4	15.4	16.1	16.3			19.5					16.1
Adjusted Composite	Truck	Truck SUV	1998	16.7	17.9	20.6	15.0	15.9	15.5			19.7		21.8	17.4		16.2
Adjusted Composite	Truck	Truck SUV	1999	16.2	17.8	20.8	14.9	15.9	15.4			19.7		21.8	16.6		16.1
Adjusted Composite	Truck	Truck SUV	2000	15.9	17.5	20.9	15.1	15.7	15.5			18.9	14.3	22.4	16.6		16.0

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Adjusted Composite	Truck	Truck SUV	2001	15.2	17.5	20.1	17.0	15.9	15.5	19.3		18.4	15.7	22.3	16.8	19.2	16.4
Adjusted Composite	Truck	Truck SUV	2002	15.8	17.4	20.7	15.9	15.7	15.7	19.0		18.6	16.3	22.3	15.4	19.2	16.3
Adjusted Composite	Truck	Truck SUV	2003	15.5	17.4	19.8	15.5	17.1	16.5	18.7		15.6	16.2	21.9	15.1	19.0	16.4
Adjusted Composite	Truck	Truck SUV	2004	15.7	17.7	19.5	15.6	15.9	16.4	18.3	15.4	16.0	17.4	21.6	15.0	19.0	16.5
Adjusted Composite	Truck	Truck SUV	2005	15.7	18.1	19.2	16.2	16.7	16.0	18.4	16.0	16.7	17.2	22.6	14.9	19.0	16.7
Adjusted Composite	Truck	Truck SUV	2006	16.3	19.2	19.5	16.3	16.9	16.0	18.4	16.2	17.0	17.2	20.9	16.8	19.6	17.2
Adjusted Composite	Truck	Truck SUV	2007	16.5	19.1	19.9	17.0	17.6	17.3	19.5	15.7	18.5	18.8	21.6	16.2	18.6	17.7
Adjusted Composite	Truck	Truck SUV	2008	17.2	19.5	20.1	18.0	18.0	17.8	19.7	16.3	18.7	18.5	20.9	16.6	18.8	18.2
Adjusted Composite	Truck	Truck SUV	2009	18.1	21.0	20.4	19.3	20.1	18.2	19.9	19.5	19.4	18.3	22.4	16.7	18.5	19.3
Adjusted Composite	Truck	Truck SUV	2010	18.8	21.0	21.4	18.5	19.1	18.5	23.0	20.0	20.3	18.9	23.3	17.2	18.6	19.7
Adjusted Composite	Truck	Truck SUV	2011	18.3	20.9	20.9	19.6	19.8	19.1	22.6	21.7	22.9	20.3	23.9	16.9	19.6	19.8
Adjusted Composite	Truck	Truck SUV	2012	18.4	21.1	22.5	19.7	21.1	19.1	21.3	22.2	22.7	19.8	24.0	18.0	19.6	20.2
Adjusted Composite	Truck	Pickup	1975	12.2	18.2		10.7	20.1	11.1							14.4	11.9
Adjusted Composite	Truck	Pickup	1976	12.4	18.9		11.8	20.9	11.9							15.5	12.4
Adjusted Composite	Truck	Pickup	1977	12.9	23.1		13.6	21.3	12.3							20.9	13.6
Adjusted Composite	Truck	Pickup	1978	12.5	20.9		13.5	21.7	12.3					23.2		26.9	13.3
Adjusted Composite	Truck	Pickup	1979	12.9	16.6		12.6	19.7	12.7					23.5		25.7	13.2
Adjusted Composite	Truck	Pickup	1980	15.7	18.3		15.3	21.3	16.8		26.7			22.2		25.6	16.5
Adjusted Composite	Truck	Pickup	1981	17.0	22.5		16.4	23.6	16.9		31.4			24.1		26.4	17.9
Adjusted Composite	Truck	Pickup	1982	18.6	21.8		15.5	23.6	18.1		33.3			25.3		26.9	18.5
Adjusted Composite	Truck	Pickup	1983	18.2	21.7		17.3	23.3	19.9		30.3			25.1		26.1	18.9
Adjusted Composite	Truck	Pickup	1984	17.6	21.4		16.6	22.3	16.5					25.3		25.3	18.3
Adjusted Composite	Truck	Pickup	1985	17.4	23.0		17.3	21.8	15.8					25.2			18.2
Adjusted Composite	Truck	Pickup	1986	17.7	22.4		17.5	20.9	17.1					25.4		23.6	18.9
Adjusted Composite	Truck	Pickup	1987	18.1	22.4		17.7	21.2	17.9					25.1		22.2	19.0
Adjusted Composite	Truck	Pickup	1988	17.2	21.1		17.8	20.8	17.5							22.2	18.1
Adjusted Composite	Truck	Pickup	1989	17.3	19.7		17.2	20.8	16.8							22.0	17.8
Adjusted Composite	Truck	Pickup	1990	16.1	19.3		17.5	22.7	16.1							21.6	17.4
Adjusted Composite	Truck	Pickup	1991	17.9	19.7		17.6	22.4	15.8							21.4	18.2
Adjusted Composite	Truck	Pickup	1992	17.0	19.6		17.2	22.2	16.1							21.2	17.5
Adjusted Composite	Truck	Pickup	1993	16.8	19.6		17.6	21.8	15.8							21.4	17.6
Adjusted Composite	Truck	Pickup	1994	16.6	20.0		17.7	21.0	15.6							20.2	17.4
Adjusted Composite	Truck	Pickup	1995	16.7	19.1		16.8	20.4	14.8							22.0	16.9
Adjusted Composite	Truck	Pickup	1996	17.6	19.2		17.6	20.5	14.4								17.1
Adjusted Composite	Truck	Pickup	1997	16.9	16.6		17.4	20.2	14.7								16.8
Adjusted Composite	Truck	Pickup	1998	17.3	19.2		17.1	20.6	14.9							20.2	17.0

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Adjusted Composite	Truck	Pickup	1999	16.2	18.7		16.6	18.8	14.6							19.5	16.3
Adjusted Composite	Truck	Pickup	2000	16.9	16.8		16.7	17.6	15.1							19.3	16.7
Adjusted Composite	Truck	Pickup	2001	16.5	17.0		16.0	17.9	14.3							18.6	16.0
Adjusted Composite	Truck	Pickup	2002	15.4	16.7		16.2	17.6	14.6							18.9	15.8
Adjusted Composite	Truck	Pickup	2003	16.2	16.8		16.1	17.9	14.7					21.0		19.8	16.1
Adjusted Composite	Truck	Pickup	2004	16.1	16.5		15.6	18.5	14.5					20.3		19.9	15.7
Adjusted Composite	Truck	Pickup	2005	16.4	17.2		15.4	15.7	14.7					20.5		19.8	15.8
Adjusted Composite	Truck	Pickup	2006	16.6	17.2	17.2	15.3	15.9	15.4					21.3		20.6	16.1
Adjusted Composite	Truck	Pickup	2007	16.4	17.0	17.2	15.6	16.2	15.3							20.7	16.2
Adjusted Composite	Truck	Pickup	2008	16.8	16.9	17.2	16.0	15.7	16.3							20.8	16.5
Adjusted Composite	Truck	Pickup	2009	16.8	18.7	17.6	16.8	16.4	15.8							22.3	16.9
Adjusted Composite	Truck	Pickup	2010	17.3	17.3	17.6	16.6	16.4	16.0								16.9
Adjusted Composite	Truck	Pickup	2011	17.3	17.5	17.6	17.4	16.4	16.1								17.2
Adjusted Composite	Truck	Pickup	2012	17.4	17.4	18.1	17.5	16.6	16.3								17.3
Adjusted Composite	Truck	All	1975	12.0	18.1		10.7	20.1	11.2		17.6					14.4	11.6
Adjusted Composite	Truck	All	1976	12.2	18.3		11.7	20.9	12.2		17.0					15.5	12.2
Adjusted Composite	Truck	All	1977	12.8	22.8		13.4	21.3	12.3		18.9					20.9	13.3
Adjusted Composite	Truck	All	1978	12.3	20.2		13.2	21.7	12.2		17.0			23.2		26.9	12.9
Adjusted Composite	Truck	All	1979	12.3	16.6		11.9	19.7	12.4		16.0			23.5		25.7	12.5
Adjusted Composite	Truck	All	1980	15.2	18.2		14.8	21.3	15.4		21.5			22.2		25.6	15.8
Adjusted Composite	Truck	All	1981	16.5	22.3		15.8	23.6	16.0		25.1			24.1		26.4	17.1
Adjusted Composite	Truck	All	1982	17.9	21.4		14.8	23.6	16.5		23.6			25.3		26.9	17.4
Adjusted Composite	Truck	All	1983	17.6	21.2		16.3	23.3	17.5		17.3			25.1		26.1	17.7
Adjusted Composite	Truck	All	1984	17.1	21.2		16.0	22.3	16.5		17.6			25.3		25.3	17.4
Adjusted Composite	Truck	All	1985	17.0	22.5		16.4	21.8	16.5		18.1			25.2			17.5
Adjusted Composite	Truck	All	1986	17.1	22.1		17.2	20.9	17.6		16.2			25.4		23.6	18.2
Adjusted Composite	Truck	All	1987	17.3	21.9		17.3	19.9	18.0		15.9			25.1		22.2	18.3
Adjusted Composite	Truck	All	1988	17.0	20.5		17.3	19.1	18.1		16.7					22.2	17.8
Adjusted Composite	Truck	All	1989	17.1	19.4		16.8	19.9	17.7		17.4					21.1	17.6
Adjusted Composite	Truck	All	1990	16.6	18.3		16.9	21.2	18.0		17.3					19.5	17.4
Adjusted Composite	Truck	All	1991	17.7	18.6		17.1	20.6	17.7		17.3					19.0	17.8
Adjusted Composite	Truck	All	1992	16.9	18.3		16.8	19.9	17.8							19.3	17.3
Adjusted Composite	Truck	All	1993	16.8	18.4		17.3	19.7	18.2		17.4					19.4	17.5
Adjusted Composite	Truck	All	1994	16.7	18.1	16.5	17.2	18.9	17.0		16.6					19.5	17.2
Adjusted Composite	Truck	All	1995	16.6	17.4	20.9	17.1	18.5	16.7		16.1	19.9				20.1	17.0
Adjusted Composite	Truck	All	1996	17.1	18.6	18.6	17.2	18.7	16.7			18.8				17.2	17.2

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Adjusted Composite	Truck	All	1997	16.8	16.8	20.3	16.7	18.3	16.7		15.3	19.5				16.9	16.8
Adjusted Composite	Truck	All	1998	17.3	18.8	20.7	16.6	18.2	16.4			19.7		21.8	17.4	19.1	17.1
Adjusted Composite	Truck	All	1999	16.5	18.3	20.5	16.2	17.3	16.3		15.7	19.7		21.8	16.6	19.5	16.6
Adjusted Composite	Truck	All	2000	16.8	17.6	20.2	16.3	17.0	16.6		15.6	18.9	14.3	22.4	16.6	18.9	16.8
Adjusted Composite	Truck	All	2001	16.2	17.6	19.9	16.2	16.7	15.9	19.3	16.7	18.4	15.7	22.3	16.8	18.8	16.5
Adjusted Composite	Truck	All	2002	15.9	17.4	20.2	16.2	16.6	16.2	19.0	16.8	16.9	16.3	22.3	15.4	19.1	16.5
Adjusted Composite	Truck	All	2003	16.2	17.3	19.7	16.0	17.4	16.8	18.7	16.7	15.9	16.2	21.7	15.1	19.3	16.7
Adjusted Composite	Truck	All	2004	16.1	17.9	19.5	15.7	16.8	16.0	18.3	15.4	16.6	17.4	21.5	15.0	19.3	16.5
Adjusted Composite	Truck	All	2005	16.3	18.1	19.7	16.1	16.6	16.9	18.4	16.0	17.0	17.2	22.3	14.9	19.2	16.9
Adjusted Composite	Truck	All	2006	16.6	18.6	19.6	15.9	16.6	16.9	18.4	16.2	17.9	17.2	21.0	16.8	19.5	17.2
Adjusted Composite	Truck	All	2007	16.5	18.4	19.6	16.3	17.3	17.3	19.5	15.7	18.9	18.8	21.6	16.2	18.8	17.4
Adjusted Composite	Truck	All	2008	17.1	18.7	19.9	16.9	17.2	18.0	19.7	16.3	19.0	18.5	20.9	16.6	19.8	17.8
Adjusted Composite	Truck	All	2009	17.3	20.2	20.3	17.7	19.2	18.0	19.9	19.5	19.3	18.3	22.4	16.7	21.0	18.5
Adjusted Composite	Truck	All	2010	18.0	19.6	20.9	17.5	18.2	18.4	23.0	20.0	20.0	18.9	23.3	17.2	20.1	18.8
Adjusted Composite	Truck	All	2011	17.8	19.8	21.1	18.4	19.0	18.6	22.6	21.7	22.6	20.3	23.9	16.9	19.6	19.1
Adjusted Composite	Truck	All	2012	17.8	19.6	22.3	18.6	20.2	19.1	21.3	22.2	22.4	19.8	24.0	18.0	19.6	19.4
Adjusted Composite	All	All	1975	12.7	18.4	26.7	11.5	21.1	13.0		22.8		14.7	22.5	14.7	14.6	13.1
Adjusted Composite	All	All	1976	13.7	20.5	27.8	13.4	22.4	13.8		23.7		15.6	25.3	15.9	18.2	14.2
Adjusted Composite	All	All	1977	14.6	23.6	30.2	13.9	22.7	13.8		25.3		16.9	25.7	16.3	24.5	15.1
Adjusted Composite	All	All	1978	15.2	21.9	28.6	14.9	22.6	15.0		23.7		16.4	25.0	15.9	29.9	15.8
Adjusted Composite	All	All	1979	15.3	19.5	24.7	14.8	22.3	16.0		24.5		16.7	24.6	17.4	22.0	15.9
Adjusted Composite	All	All	1980	18.1	22.1	24.8	17.7	25.4	18.3		26.4		21.3	23.8	20.3	22.3	19.2
Adjusted Composite	All	All	1981	19.3	25.4	26.2	18.4	25.5	20.9		28.9		21.8	26.3	21.7	26.4	20.5
Adjusted Composite	All	All	1982	20.1	24.8	28.4	18.8	25.5	20.9		28.0		21.6	26.8	22.3	25.2	21.1
Adjusted Composite	All	All	1983	19.5	26.0	30.0	18.7	27.0	21.9		25.3		21.6	26.6	22.4	25.0	21.0
Adjusted Composite	All	All	1984	20.0	25.2	29.9	19.4	26.0	21.0		23.9		23.0	26.4	22.1	25.4	21.0
Adjusted Composite	All	All	1985	20.5	25.6	28.8	20.0	24.1	20.9		24.7		21.7	25.9	19.6	25.3	21.3
Adjusted Composite	All	All	1986	21.4	24.9	28.5	20.3	23.3	21.0	29.5	24.5		21.2	25.5	17.9	24.3	21.8
Adjusted Composite	All	All	1987	21.4	25.3	27.7	20.4	23.5	20.8	29.0	23.7		20.3	24.8	18.6	23.4	22.0
Adjusted Composite	All	All	1988	21.3	24.9	26.7	20.6	23.6	20.8	28.7	25.2		18.0	26.3	17.8	23.5	21.9
Adjusted Composite	All	All	1989	20.9	24.2	26.2	20.4	23.8	20.2	27.8	24.9		18.3	26.3	17.8	23.2	21.4
Adjusted Composite	All	All	1990	20.6	23.2	25.4	19.9	23.0	20.1	27.6	23.6		18.4	23.4	17.8	22.9	21.2
Adjusted Composite	All	All	1991	20.8	22.9	25.2	20.2	23.0	20.1	27.1	24.2		19.1	23.5	18.6	22.6	21.3
Adjusted Composite	All	All	1992	20.3	22.2	25.7	19.7	23.5	19.7	25.7	24.1		19.9	23.3	18.2	23.0	20.8
Adjusted Composite	All	All	1993	20.3	22.1	26.5	20.4	22.5	19.6	25.6	21.4	26.1	20.9	24.1	18.9	23.6	20.9
Adjusted Composite	All	All	1994	20.0	21.8	25.9	19.7	22.5	18.4	26.9	23.2	26.9	20.8	23.2	19.6	22.7	20.4

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Adjusted Composite	All	All	1995	19.8	22.2	26.5	19.9	21.5	19.0	25.4	23.4	23.3	20.8	23.4	20.3	24.3	20.5
Adjusted Composite	All	All	1996	20.4	22.4	25.3	19.2	22.8	18.3	26.8	23.2	22.4	22.3	22.5	20.8	24.8	20.4
Adjusted Composite	All	All	1997	20.1	22.1	25.2	18.8	21.7	18.3	25.4	23.3	22.7	21.1	22.9	20.6	24.3	20.2
Adjusted Composite	All	All	1998	20.1	22.3	25.0	18.7	22.1	18.0	24.9	23.4	22.8	20.7	22.4	20.7	22.7	20.1
Adjusted Composite	All	All	1999	19.4	22.0	23.9	18.5	21.6	17.6	24.8	23.0	22.5	20.7	22.2	20.0	23.4	19.7
Adjusted Composite	All	All	2000	19.4	21.2	23.8	18.6	19.7	18.2	24.4	23.0	21.7	19.9	22.5	19.3	22.3	19.8
Adjusted Composite	All	All	2001	19.4	21.3	24.0	18.2	19.4	17.6	24.1	22.6	22.4	19.0	22.3	19.4	21.2	19.6
Adjusted Composite	All	All	2002	18.8	20.9	23.9	18.1	20.1	17.7	23.6	23.2	20.7	20.1	22.0	18.8	21.9	19.5
Adjusted Composite	All	All	2003	18.7	21.7	23.3	17.8	20.4	17.9	22.8	23.4	19.9	20.4	21.8	18.9	21.9	19.6
Adjusted Composite	All	All	2004	18.9	21.2	23.1	17.0	19.4	17.7	22.0	21.7	20.2	20.2	21.5	19.1	21.5	19.3
Adjusted Composite	All	All	2005	19.1	22.7	23.1	18.1	20.1	18.2	22.5	22.2	19.6	20.2	21.9	19.3	22.1	19.9
Adjusted Composite	All	All	2006	19.6	22.4	23.0	18.0	20.0	18.1	22.9	23.4	21.6	20.8	21.6	18.8	23.2	20.1
Adjusted Composite	All	All	2007	19.1	23.3	23.3	18.9	21.3	18.6	23.2	21.9	22.5	21.5	22.1	18.1	22.7	20.6
Adjusted Composite	All	All	2008	19.6	22.8	23.9	19.3	21.9	19.3	24.4	22.3	22.9	21.2	22.3	19.3	23.1	21.0
Adjusted Composite	All	All	2009	20.6	25.4	24.6	20.5	23.6	19.1	25.1	23.8	24.2	21.9	22.6	19.5	23.2	22.4
Adjusted Composite	All	All	2010	21.3	25.4	24.9	20.4	23.1	19.5	27.0	25.0	27.0	22.1	23.4	18.9	24.4	22.6
Adjusted Composite	All	All	2011	20.7	24.1	24.1	21.1	23.3	19.4	27.2	26.0	25.8	22.7	23.9	19.1	25.0	22.4
Adjusted Composite	All	All	2012	21.4	25.6	26.4	23.2	24.6	20.6	28.8	26.2	26.7	23.1	25.2	21.4	25.9	23.8
Lab 55/45	Car	Car	1975	15.1	21.2	31.4	14.0	25.2	15.8		26.7		17.2	27.1	17.3	15.8	15.8
Lab 55/45	Car	Car	1976	16.7	25.0	32.9	16.7	26.8	16.8		27.9		18.4	30.5	18.6	22.0	17.5
Lab 55/45	Car	Car	1977	17.8	28.8	36.2	16.6	27.2	16.6		29.8		19.8	30.3	19.2	29.8	18.4
Lab 55/45	Car	Car	1978	19.1	27.0	34.0	18.6	27.0	19.3		28.0		19.2	32.9	18.7	35.8	20.0
Lab 55/45	Car	Car	1979	19.3	23.9	29.0	19.2	26.6	21.4		29.4		19.5	31.7	20.3	24.9	20.3
Lab 55/45	Car	Car	1980	22.0	27.4	28.9	22.5	31.1	23.0		31.3		25.0	29.3	23.9	25.5	23.5
Lab 55/45	Car	Car	1981	23.3	31.1	30.6	23.0	30.4	26.2		34.7		25.6	32.8	25.4	30.9	25.1
Lab 55/45	Car	Car	1982	24.5	30.5	33.2	24.4	30.5	26.9		33.9		25.4	33.0	26.1	29.3	26.1
Lab 55/45	Car	Car	1983	23.5	31.7	35.2	23.6	32.5	28.5		31.4		25.3	32.5	26.4	28.8	25.7
Lab 55/45	Car	Car	1984	24.4	32.8	35.1	25.2	31.6	28.5		29.0		27.0	32.4	25.9	30.1	26.3
Lab 55/45	Car	Car	1985	25.6	32.1	33.7	25.9	29.4	28.1		30.0		25.4	31.8	23.0	29.7	26.9
Lab 55/45	Car	Car	1986	27.1	32.3	33.5	26.6	30.2	28.6	34.9	29.6		25.0	30.8	21.1	29.4	28.0
Lab 55/45	Car	Car	1987	27.4	33.0	32.8	26.6	29.4	27.7	34.5	28.9		23.9	30.9	21.9	29.0	28.2
Lab 55/45	Car	Car	1988	28.2	32.7	31.8	27.1	30.7	28.4	34.3	30.1		21.3	32.9	21.1	28.4	28.6
Lab 55/45	Car	Car	1989	27.5	31.9	31.2	27.1	30.2	28.0	33.1	30.0		21.7	32.7	21.2	29.4	28.2
Lab 55/45	Car	Car	1990	27.3	30.4	30.3	26.4	28.3	27.3	33.1	28.8		21.9	28.8	21.2	29.9	27.8
Lab 55/45	Car	Car	1991	27.2	30.6	30.4	27.1	29.0	27.4	32.7	29.6		22.8	28.9	22.2	30.2	28.0
Lab 55/45	Car	Car	1992	26.7	28.9	31.0	26.6	29.9	27.7	31.1	29.1		23.8	27.9	21.8	30.5	27.6

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45	Car	Car	1993	27.3	28.9	32.2	27.4	29.1	27.9	31.0	26.9	31.7	25.0	29.8	22.7	30.1	28.1
Lab 55/45	Car	Car	1994	27.5	29.0	32.1	26.7	29.8	26.2	32.7	28.2	32.9	24.9	29.0	23.5	30.3	28.0
Lab 55/45	Car	Car	1995	27.3	30.0	32.9	27.3	29.2	28.1	30.9	28.7	31.0	25.1	28.9	24.5	30.6	28.3
Lab 55/45	Car	Car	1996	27.9	29.5	31.9	26.2	30.2	27.2	32.9	28.2	28.9	27.1	28.3	25.2	31.5	28.3
Lab 55/45	Car	Car	1997	28.1	29.8	32.2	26.7	29.6	27.1	31.1	28.7	30.8	25.5	28.9	25.0	30.8	28.4
Lab 55/45	Car	Car	1998	27.5	30.2	32.0	27.4	30.2	28.3	30.6	28.7	30.7	25.2	28.4	27.0	30.0	28.5
Lab 55/45	Car	Car	1999	27.4	30.4	30.9	27.2	29.6	26.9	30.6	28.4	30.7	25.2	28.0	26.3	30.2	28.2
Lab 55/45	Car	Car	2000	27.6	30.5	31.0	27.1	28.0	27.6	30.1	28.8	29.8	24.6	28.0	24.9	30.0	28.2
Lab 55/45	Car	Car	2001	28.1	31.3	32.2	26.7	28.3	27.8	31.0	28.5	30.3	24.7	27.9	24.8	29.3	28.5
Lab 55/45	Car	Car	2002	28.5	30.7	32.0	27.0	28.9	27.4	30.8	29.1	29.4	26.0	27.0	24.6	29.6	28.8
Lab 55/45	Car	Car	2003	28.4	32.2	32.7	26.6	27.9	29.7	30.1	29.5	30.1	26.6	27.2	24.4	30.0	29.0
Lab 55/45	Car	Car	2004	28.9	32.4	32.7	25.7	28.2	28.7	29.2	28.6	28.9	26.2	26.1	24.5	28.1	29.0
Lab 55/45	Car	Car	2005	28.8	34.5	32.8	27.1	29.4	28.0	30.2	28.6	29.2	26.9	26.6	25.1	29.5	29.7
Lab 55/45	Car	Car	2006	28.3	34.2	33.5	26.8	29.1	25.5	29.8	29.9	32.4	27.0	27.5	24.3	30.7	29.3
Lab 55/45	Car	Car	2007	28.6	34.9	33.4	27.7	31.6	28.0	32.1	28.5	34.2	27.5	28.1	23.3	31.4	30.5
Lab 55/45	Car	Car	2008	28.3	36.3	33.8	28.1	32.2	28.1	33.8	28.9	34.4	27.2	28.8	25.5	32.0	30.6
Lab 55/45	Car	Car	2009	29.7	36.6	34.1	30.0	33.1	27.4	33.8	30.6	35.7	28.4	29.0	25.8	31.2	32.0
Lab 55/45	Car	Car	2010	29.5	39.6	35.2	31.1	33.6	27.1	35.9	32.3	36.8	28.6	31.0	24.8	33.4	33.1
Lab 55/45	Car	Car	2011	29.9	36.8	36.1	32.1	33.7	27.5	NA	32.8	NA	29.1	31.0	25.3	34.5	32.7
Lab 55/45	Car	Car	2012	31.5	40.4	37.9	36.1	34.6	30.7	NA	32.7	NA	30.9	32.7	28.7	34.7	35.1
Lab 55/45	Car	Wagon	1975	14.6	22.8		13.2	20.9	16.2		27.2			25.5		18.2	16.1
Lab 55/45	Car	Wagon	1976	15.6	24.6	29.4	16.2	27.4	17.1		27.9			28.0		21.8	17.3
Lab 55/45	Car	Wagon	1977	16.9	27.8	31.9	15.8	27.1	16.7		28.7			29.9		27.6	18.0
Lab 55/45	Car	Wagon	1978	17.9	25.5	31.5	18.5	25.5	17.9		25.7			27.5		20.5	19.2
Lab 55/45	Car	Wagon	1979	17.8	24.9	29.9	19.4	27.9	18.4		25.0			28.1	24.6	31.4	19.7
Lab 55/45	Car	Wagon	1980	20.2	27.4	32.5	22.4	32.2	19.3		40.1			26.7	24.9	32.0	23.6
Lab 55/45	Car	Wagon	1981	21.1	29.1	33.7	25.3	31.4	25.1		40.6			29.7	29.2	33.2	25.6
Lab 55/45	Car	Wagon	1982	21.7	29.3	36.7	25.2	32.0	27.2		29.8			30.5	29.3	33.3	25.3
Lab 55/45	Car	Wagon	1983	22.8	34.8	36.7	25.7	34.6	27.4		30.6			30.2	29.4	31.2	27.2
Lab 55/45	Car	Wagon	1984	24.2	33.9	36.1	26.1	35.1	28.1		24.8			29.9	29.0	27.8	26.4
Lab 55/45	Car	Wagon	1985	24.4	35.1	34.8	26.8	30.0	27.0		25.9			29.6	26.9	27.7	27.5
Lab 55/45	Car	Wagon	1986	25.4	32.1	34.6	27.4	28.2	26.7		22.8			29.2		29.2	27.1
Lab 55/45	Car	Wagon	1987	25.7	32.6	34.2	26.5	27.8	26.8		26.7			28.1	26.6	33.6	27.2
Lab 55/45	Car	Wagon	1988	26.5	31.5	34.2	26.6	28.0	29.1		31.0			29.4	20.8	32.0	27.6
Lab 55/45	Car	Wagon	1989	26.0	30.6	34.7	25.9	32.3	31.0		29.3			29.3	21.0	31.0	26.9
Lab 55/45	Car	Wagon	1990	26.3	29.9	35.2	25.4	33.5	32.5		28.3			27.3	21.1		26.7

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45	Car	Wagon	1991	25.5	30.8	28.7	29.1				26.9			27.5	21.2		28.0
Lab 55/45	Car	Wagon	1992	25.1	28.9	27.1	28.8				26.7		23.2	28.3	21.3		27.5
Lab 55/45	Car	Wagon	1993	26.7	29.7	27.6	31.5		27.4		23.7		24.3	28.4	23.5		29.6
Lab 55/45	Car	Wagon	1994	27.2	29.5	29.0	31.7				23.6		23.5	27.5	24.7		29.4
Lab 55/45	Car	Wagon	1995	27.6	30.8	29.0	31.5				23.7		24.4	28.1	25.6		29.6
Lab 55/45	Car	Wagon	1996	28.0	30.6	28.5	27.9			30.2	27.6			27.2			27.7
Lab 55/45	Car	Wagon	1997	33.5		27.2	29.8			30.4	24.6			27.8			28.9
Lab 55/45	Car	Wagon	1998	33.9			29.2			29.5	25.9			27.7	27.2		28.3
Lab 55/45	Car	Wagon	1999	34.5			27.8			28.9	26.5		23.6	27.5	26.7		27.7
Lab 55/45	Car	Wagon	2000	29.6			28.4			28.9	25.0		24.5	28.0	26.7		27.7
Lab 55/45	Car	Wagon	2001	30.4			28.8		27.0		24.2		24.9	27.7	26.1		26.9
Lab 55/45	Car	Wagon	2002	28.7			28.9		25.4		27.7		25.5	27.3	25.5		26.7
Lab 55/45	Car	Wagon	2003	34.2	35.2		28.5		25.6		28.4		25.6	27.3	25.3		29.1
Lab 55/45	Car	Wagon	2004	35.1	36.1		27.8		24.6		27.6		25.8	27.4	24.2	25.4	27.8
Lab 55/45	Car	Wagon	2005	35.3	37.0		31.1		24.1		29.2		25.7	27.7	23.8	26.4	28.0
Lab 55/45	Car	Wagon	2006	31.8	36.5		33.8		25.2		29.6		26.4	28.2	23.5	27.2	28.4
Lab 55/45	Car	Wagon	2007	31.4	36.5	39.8	35.4		25.0		29.5	27.4	26.7	28.6	21.5	27.2	29.0
Lab 55/45	Car	Wagon	2008	33.3	32.8	39.9			26.0		29.4	27.5	25.5	28.7	21.7		30.2
Lab 55/45	Car	Wagon	2009	32.5	33.0	40.1		37.9	27.6	34.5	34.3	29.0	26.2	28.8	21.8		32.7
Lab 55/45	Car	Wagon	2010	32.4	33.3	40.2		32.1	31.3	34.5	39.3	35.0	25.3	28.6			34.0
Lab 55/45	Car	Wagon	2011	24.3	32.1	40.2		35.8	32.5	NA	39.4	NA	26.6	28.5	24.4		34.7
Lab 55/45	Car	Wagon	2012	27.1	42.1	40.3		35.9	32.6	NA	40.1	NA	26.6	38.2	27.7		36.7
Lab 55/45	Car	Non-Truck SUV	1975	15.6	12.0				14.5								13.1
Lab 55/45	Car	Non-Truck SUV	1976	16.9	10.7				16.5								12.4
Lab 55/45	Car	Non-Truck SUV	1977	18.0	13.7				16.4								14.3
Lab 55/45	Car	Non-Truck SUV	1978	17.6	13.0				16.4								13.6
Lab 55/45	Car	Non-Truck SUV	1979		13.8				20.3								16.8
Lab 55/45	Car	Non-Truck SUV	1980						17.6								17.2
Lab 55/45	Car	Non-Truck SUV	1981						17.3								17.3
Lab 55/45	Car	Non-Truck SUV	1982	22.0					23.6								23.4
Lab 55/45	Car	Non-Truck SUV	1983	25.1					23.2								24.3
Lab 55/45	Car	Non-Truck SUV	1984	23.6					18.4								22.6
Lab 55/45	Car	Non-Truck SUV	1985	23.5					23.4								23.5
Lab 55/45	Car	Non-Truck SUV	1986	22.2			23.5		22.7								22.3
Lab 55/45	Car	Non-Truck SUV	1987	23.0			23.3		21.1								22.9
Lab 55/45	Car	Non-Truck SUV	1988	23.1			23.0		21.1								22.7

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45	Car	Non-Truck SUV	1989	23.0			23.1		20.9								22.7
Lab 55/45	Car	Non-Truck SUV	1990	22.7	20.9		23.2		21.2								22.5
Lab 55/45	Car	Non-Truck SUV	1991	22.7	21.4		21.2		20.6								21.8
Lab 55/45	Car	Non-Truck SUV	1992	22.5	17.1		21.2		20.6							21.4	21.4
Lab 55/45	Car	Non-Truck SUV	1993	23.6	18.2		21.6		19.3							21.8	20.4
Lab 55/45	Car	Non-Truck SUV	1994	22.7		20.4	21.1		20.9							21.4	21.8
Lab 55/45	Car	Non-Truck SUV	1995	22.8	21.4		22.5		19.5			25.6					21.5
Lab 55/45	Car	Non-Truck SUV	1996	22.8	25.9	19.9	22.3		20.7			24.9					22.4
Lab 55/45	Car	Non-Truck SUV	1997	22.0	27.9	19.4	21.4		20.4			23.3					23.5
Lab 55/45	Car	Non-Truck SUV	1998	22.5	29.8	25.1	21.2		20.8			24.4					22.3
Lab 55/45	Car	Non-Truck SUV	1999	22.3	27.5	25.1	21.7		21.6			24.4					22.7
Lab 55/45	Car	Non-Truck SUV	2000	22.1	26.4	25.5	21.0	20.1	21.1			23.3					22.0
Lab 55/45	Car	Non-Truck SUV	2001	24.0	27.1	26.1	22.3	20.4	21.1	25.9		22.9				24.6	23.3
Lab 55/45	Car	Non-Truck SUV	2002	24.1	27.7	28.8	23.6	20.7	20.2	25.3		23.1				25.1	24.0
Lab 55/45	Car	Non-Truck SUV	2003	25.9	28.4	29.7	24.1	23.0	22.0	25.6						25.2	24.8
Lab 55/45	Car	Non-Truck SUV	2004	24.7	27.2	29.4	25.1	23.2	22.5	25.0						25.2	24.9
Lab 55/45	Car	Non-Truck SUV	2005	24.8	27.8	29.7	26.6	23.5	22.1	25.4		26.2				26.5	25.4
Lab 55/45	Car	Non-Truck SUV	2006	25.1	29.0	29.7	27.3	23.3	22.4	25.7		26.4				27.2	25.7
Lab 55/45	Car	Non-Truck SUV	2007	25.4	27.8	29.9	25.7	23.8	23.1	26.0		25.2				24.2	25.9
Lab 55/45	Car	Non-Truck SUV	2008	25.3	28.2	29.7	27.0	26.6		26.1		25.1				26.6	26.6
Lab 55/45	Car	Non-Truck SUV	2009	25.8	29.2	29.7	28.6	27.6	27.3	26.4		26.1				26.9	27.8
Lab 55/45	Car	Non-Truck SUV	2010	29.4	29.6	31.0	28.3	28.0	27.8	30.4		28.7			23.8	29.4	29.1
Lab 55/45	Car	Non-Truck SUV	2011	29.8	30.0	30.9	29.0	29.8		NA		NA			23.5	29.7	29.9
Lab 55/45	Car	Non-Truck SUV	2012	30.9	30.1	33.7	29.5	29.7		NA		NA			23.6	29.3	30.6
Lab 55/45	Car	All	1975	15.1	21.6	31.4	13.9	25.0	15.8		26.7		17.2	26.5	17.3	17.1	15.8
Lab 55/45	Car	All	1976	16.6	24.3	32.6	16.6	26.9	16.8		27.9		18.4	29.7	18.6	21.9	17.5
Lab 55/45	Car	All	1977	17.7	27.8	35.5	16.5	27.2	16.6		29.7		19.8	30.2	19.2	29.3	18.3
Lab 55/45	Car	All	1978	19.0	26.1	33.7	18.6	26.8	19.1		27.8		19.2	29.9	18.7	35.5	19.9
Lab 55/45	Car	All	1979	19.1	23.8	29.0	19.2	26.8	21.0		29.4		19.5	29.5	20.5	25.6	20.2
Lab 55/45	Car	All	1980	21.9	27.4	29.2	22.5	31.2	22.7		31.7		25.0	28.1	23.9	26.0	23.5
Lab 55/45	Car	All	1981	23.2	30.9	30.8	23.4	30.5	26.1		34.8		25.6	31.3	25.6	31.1	25.1
Lab 55/45	Car	All	1982	24.2	30.4	33.4	24.5	30.7	26.9		33.8		25.4	31.7	26.3	29.4	26.0
Lab 55/45	Car	All	1983	23.5	32.6	35.3	23.9	32.7	28.3		31.4		25.3	31.3	26.4	28.9	25.9
Lab 55/45	Car	All	1984	24.4	32.9	35.2	25.3	31.9	28.4		28.9		27.0	31.1	26.0	30.0	26.3
Lab 55/45	Car	All	1985	25.5	32.8	33.8	25.9	29.5	28.1		29.9		25.4	30.5	23.1	29.7	26.9
Lab 55/45	Car	All	1986	27.0	32.3	33.6	26.7	29.9	28.4	34.9	29.4		25.0	30.1	21.1	29.4	27.9

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45	Car	All	1987	27.2	32.9	32.8	26.5	29.3	27.6	34.5	28.8		23.9	29.5	22.0	29.2	28.0
Lab 55/45	Car	All	1988	28.1	32.7	31.8	26.9	30.6	28.3	34.3	30.2		21.3	31.4	21.1	28.4	28.5
Lab 55/45	Car	All	1989	27.4	31.8	31.3	27.0	30.2	27.9	33.1	30.0		21.7	31.5	21.2	29.5	28.1
Lab 55/45	Car	All	1990	27.2	30.3	30.4	26.3	28.4	27.2	33.1	28.8		21.9	28.0	21.2	29.9	27.7
Lab 55/45	Car	All	1991	27.0	30.5	30.3	27.0	29.0	27.3	32.7	29.5		22.8	28.2	22.2	30.2	27.8
Lab 55/45	Car	All	1992	26.6	28.8	30.9	26.4	29.9	27.2	31.1	29.0		23.8	28.1	21.8	30.2	27.4
Lab 55/45	Car	All	1993	27.2	28.8	32.2	27.5	29.1	25.1	31.0	26.7	31.7	25.0	29.2	22.7	30.0	27.6
Lab 55/45	Car	All	1994	27.3	29.1	31.9	26.8	29.8	25.6	32.7	28.1	32.9	24.9	28.2	23.6	30.2	27.7
Lab 55/45	Car	All	1995	27.2	29.5	32.8	27.7	29.2	27.3	30.9	28.6	30.9	25.1	28.5	24.5	30.6	28.1
Lab 55/45	Car	All	1996	27.6	29.3	31.6	26.2	30.2	26.3	32.7	28.2	28.6	27.1	27.4	25.2	31.5	28.0
Lab 55/45	Car	All	1997	27.9	29.5	32.0	26.9	29.6	26.3	31.0	28.6	29.1	25.5	28.0	25.0	30.8	28.2
Lab 55/45	Car	All	1998	27.3	30.2	31.7	26.7	30.2	27.2	30.6	28.6	29.5	25.2	27.8	27.0	30.0	28.1
Lab 55/45	Car	All	1999	27.2	30.2	30.6	26.6	29.6	26.3	30.5	28.3	29.3	25.2	27.6	26.3	30.2	27.8
Lab 55/45	Car	All	2000	27.2	30.3	30.8	26.5	26.9	26.6	30.0	28.5	27.9	24.6	28.0	24.9	30.0	27.7
Lab 55/45	Car	All	2001	27.7	30.9	31.9	26.1	27.1	26.8	30.5	28.0	28.9	24.7	27.7	24.9	28.4	27.9
Lab 55/45	Car	All	2002	28.2	30.4	31.8	26.8	27.8	26.4	30.0	29.0	28.4	26.0	27.2	24.6	28.9	28.3
Lab 55/45	Car	All	2003	28.4	32.2	32.6	26.5	27.2	27.2	29.3	29.3	30.1	26.5	27.3	24.4	29.2	28.7
Lab 55/45	Car	All	2004	28.7	32.1	32.6	25.7	27.3	27.0	28.2	28.5	28.9	26.2	26.9	24.5	27.8	28.5
Lab 55/45	Car	All	2005	28.3	34.2	32.7	27.2	28.7	26.3	28.8	28.7	28.9	26.9	27.3	25.0	29.0	29.1
Lab 55/45	Car	All	2006	28.0	34.1	33.3	26.9	28.4	25.3	29.0	29.9	31.4	27.0	28.0	24.0	30.0	28.9
Lab 55/45	Car	All	2007	28.4	34.3	33.5	27.4	30.7	26.9	30.0	28.6	30.7	27.5	28.4	23.2	29.9	29.8
Lab 55/45	Car	All	2008	28.1	35.2	33.8	27.8	31.7	27.7	31.7	28.9	30.9	27.2	28.7	25.3	30.9	30.1
Lab 55/45	Car	All	2009	29.7	35.6	34.2	29.6	32.5	27.4	32.3	31.0	32.6	28.4	28.9	25.6	30.7	31.6
Lab 55/45	Car	All	2010	29.7	38.1	35.1	30.4	32.8	27.7	34.9	33.1	35.8	28.5	30.2	24.7	32.8	32.6
Lab 55/45	Car	All	2011	29.8	35.9	35.4	31.2	33.3	28.2	NA	33.5	NA	29.1	30.2	25.1	33.4	32.3
Lab 55/45	Car	All	2012	31.4	39.4	37.7	35.1	34.3	30.8	NA	33.2	NA	30.9	35.0	28.3	34.5	34.6
Lab 55/45	Truck	Van	1975	14.4	20.5		12.6		12.6		20.7						13.1
Lab 55/45	Truck	Van	1976	14.0			13.4		14.2		19.9						13.9
Lab 55/45	Truck	Van	1977	15.0			15.5		13.8		22.2						14.7
Lab 55/45	Truck	Van	1978	14.1			15.0		13.4		20.0						14.2
Lab 55/45	Truck	Van	1979	14.7			12.1		13.8		18.7						13.5
Lab 55/45	Truck	Van	1980	16.7			16.2		16.6		19.0						16.6
Lab 55/45	Truck	Van	1981	18.0			16.8		17.4		18.5						17.5
Lab 55/45	Truck	Van	1982	17.9			16.2		17.7		21.7						17.3
Lab 55/45	Truck	Van	1983	18.9			16.3		18.0		19.3						17.7
Lab 55/45	Truck	Van	1984	18.2	27.0		16.6		20.2		20.7						18.9

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45	Truck	Van	1985	18.7	26.6		16.2		21.0		21.3						19.5
Lab 55/45	Truck	Van	1986	19.4	26.3		19.7		22.0		19.2						20.6
Lab 55/45	Truck	Van	1987	19.8	25.5		19.6	22.4	22.3		18.9						20.9
Lab 55/45	Truck	Van	1988	20.2	25.8		19.4	22.3	23.0		19.9						21.2
Lab 55/45	Truck	Van	1989	20.2	25.9		19.8	22.2	22.6		20.8					22.5	21.1
Lab 55/45	Truck	Van	1990	20.7			19.3	25.4	23.0		20.8					20.2	21.2
Lab 55/45	Truck	Van	1991	20.8	22.9		19.8	26.0	22.8		20.9					20.3	21.4
Lab 55/45	Truck	Van	1992	20.8	22.3		19.7	25.6	22.7							21.3	21.5
Lab 55/45	Truck	Van	1993	20.7	21.9		20.8	21.8	23.6		21.0					21.4	21.9
Lab 55/45	Truck	Van	1994	21.0	22.0		19.9	22.7	22.4		20.1					21.3	21.5
Lab 55/45	Truck	Van	1995	20.6	22.6	25.5	21.7	23.0	23.0		19.6					20.9	21.8
Lab 55/45	Truck	Van	1996	21.5	22.4	28.5	21.4	22.9	22.8							20.8	22.2
Lab 55/45	Truck	Van	1997	21.9	22.3	24.9	20.7	22.6	22.7		18.5					20.5	22.1
Lab 55/45	Truck	Van	1998	22.2	24.2	27.0	22.4	22.7	23.3							20.0	22.7
Lab 55/45	Truck	Van	1999	22.0	24.1	24.1	21.0	23.1	23.0		19.1						22.3
Lab 55/45	Truck	Van	2000	22.1	24.1	23.9	21.6	22.8	23.4		19.0					23.1	22.8
Lab 55/45	Truck	Van	2001	22.9	24.7	24.0	18.0	22.6	23.4		20.7					23.2	22.1
Lab 55/45	Truck	Van	2002	22.3	24.7	24.2	21.9	22.6	23.8		20.9	20.0				23.7	23.1
Lab 55/45	Truck	Van	2003	23.2	24.7	24.2	22.2		24.5		20.9	20.0				23.8	23.5
Lab 55/45	Truck	Van	2004	23.1	25.4	24.2	21.5	24.6	24.5			21.1				23.7	23.7
Lab 55/45	Truck	Van	2005	22.6	24.7	26.0	23.5	24.7	24.3			21.3				23.7	24.0
Lab 55/45	Truck	Van	2006	22.9	24.8	26.1	22.6	24.9	24.4			23.8				23.6	24.3
Lab 55/45	Truck	Van	2007	22.6	26.1	24.7	24.6	24.5	23.8			23.8					24.2
Lab 55/45	Truck	Van	2008	22.8	26.1	25.2	24.0	24.5	24.4			23.8				30.7	24.6
Lab 55/45	Truck	Van	2009	20.0	26.1	25.2	24.4	24.5	24.6			23.8				30.3	25.0
Lab 55/45	Truck	Van	2010	20.1	26.1	24.9	30.3		24.4			24.7				30.7	25.0
Lab 55/45	Truck	Van	2011	19.7	26.3	27.8	27.9	27.1	25.7			NA					26.3
Lab 55/45	Truck	Van	2012	20.0	26.6	27.8	27.3	27.2	25.9			NA					26.3
Lab 55/45	Truck	Truck SUV	1975	11.7			10.6		14.6								13.0
Lab 55/45	Truck	Truck SUV	1976	13.0	11.6		13.7		15.0								13.9
Lab 55/45	Truck	Truck SUV	1977	14.6	12.7		14.5		15.8								15.1
Lab 55/45	Truck	Truck SUV	1978	14.0	11.5		13.2		15.6								14.5
Lab 55/45	Truck	Truck SUV	1979	11.3	13.3		11.0		15.1								12.4
Lab 55/45	Truck	Truck SUV	1980	14.5	13.8		14.0		16.8								15.5
Lab 55/45	Truck	Truck SUV	1981	16.2	14.3		15.1		18.4								16.8
Lab 55/45	Truck	Truck SUV	1982	19.2	14.2		14.8		17.7								17.3

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45	Truck	Truck SUV	1983	20.2	14.1		15.3		17.7								18.5
Lab 55/45	Truck	Truck SUV	1984	20.0	17.3		18.3		18.3								19.0
Lab 55/45	Truck	Truck SUV	1985	20.1	21.1		18.8		15.0								19.4
Lab 55/45	Truck	Truck SUV	1986	19.4	23.3		19.8		19.1								20.1
Lab 55/45	Truck	Truck SUV	1987	19.3	22.7		20.0	18.7	19.9								20.4
Lab 55/45	Truck	Truck SUV	1988	19.4	20.3		19.6	18.5	19.2								20.2
Lab 55/45	Truck	Truck SUV	1989	20.0	19.7		18.6	19.0	19.2								19.7
Lab 55/45	Truck	Truck SUV	1990	19.6	19.4		18.0	19.5	19.8								19.6
Lab 55/45	Truck	Truck SUV	1991	20.5	18.2		19.8	19.5	19.4							20.5	20.0
Lab 55/45	Truck	Truck SUV	1992	19.2	17.0		19.6	19.6	19.8							20.5	19.4
Lab 55/45	Truck	Truck SUV	1993	19.4	17.2		19.7	19.4	20.0							20.6	19.6
Lab 55/45	Truck	Truck SUV	1994	19.4	17.4	20.1	19.7	18.6	18.9							20.3	19.3
Lab 55/45	Truck	Truck SUV	1995	19.4	17.5		19.6	19.1	19.3			24.3					19.3
Lab 55/45	Truck	Truck SUV	1996	19.8	21.4	19.0	19.6	19.8	19.0			23.0					19.6
Lab 55/45	Truck	Truck SUV	1997	19.4	20.7	25.1	18.7	19.6	19.8			24.0					19.6
Lab 55/45	Truck	Truck SUV	1998	20.3	22.1	25.5	18.2	19.5	18.9			24.4		26.8	21.3		19.7
Lab 55/45	Truck	Truck SUV	1999	19.8	22.0	25.9	18.1	19.5	18.8			24.4		27.0	20.3		19.6
Lab 55/45	Truck	Truck SUV	2000	19.5	21.7	26.2	18.4	19.3	19.0			23.6	17.5	27.8	20.4		19.6
Lab 55/45	Truck	Truck SUV	2001	18.8	21.7	25.1	20.9	19.7	18.9	24.0		22.9	19.2	27.9	20.8	23.6	20.2
Lab 55/45	Truck	Truck SUV	2002	19.4	21.7	25.8	19.6	19.5	19.4	23.5		23.3	20.1	28.0	19.1	23.8	20.1
Lab 55/45	Truck	Truck SUV	2003	19.1	21.7	24.7	19.0	21.3	20.5	23.3		19.3	20.0	27.5	18.8	23.6	20.3
Lab 55/45	Truck	Truck SUV	2004	19.4	22.2	24.4	19.2	19.6	20.2	22.8	19.0	19.9	21.5	27.1	18.8	23.7	20.4
Lab 55/45	Truck	Truck SUV	2005	19.5	22.8	24.1	20.2	20.7	19.8	23.0	19.8	20.7	21.3	28.6	18.7	24.0	20.8
Lab 55/45	Truck	Truck SUV	2006	20.2	24.4	24.5	20.2	20.9	19.9	22.9	20.0	21.1	21.2	26.4	20.9	24.8	21.4
Lab 55/45	Truck	Truck SUV	2007	20.4	24.2	25.0	21.1	21.9	21.6	24.5	19.5	23.2	23.4	27.3	20.2	23.2	22.0
Lab 55/45	Truck	Truck SUV	2008	21.2	24.7	25.3	22.5	22.3	22.3	24.6	20.2	23.4	22.9	26.4	20.8	23.5	22.7
Lab 55/45	Truck	Truck SUV	2009	22.4	26.5	25.7	24.1	25.4	22.7	24.9	24.5	24.3	22.7	28.4	20.8	23.1	24.1
Lab 55/45	Truck	Truck SUV	2010	23.3	26.6	27.0	23.1	24.0	23.1	29.2	25.2	25.7	23.6	29.6	21.4	23.2	24.7
Lab 55/45	Truck	Truck SUV	2011	22.7	26.4	26.3	24.5	24.9	23.8	NA	27.1	NA	25.3	30.4	21.1	24.6	24.9
Lab 55/45	Truck	Truck SUV	2012	23.0	26.7	28.4	24.6	26.7	23.8	NA	28.0	NA	24.6	30.5	22.5	24.6	25.4
Lab 55/45	Truck	Pickup	1975	14.3	21.3		12.6	23.6	13.0							16.8	14.0
Lab 55/45	Truck	Pickup	1976	14.6	22.1		13.9	24.5	14.0							18.2	14.6
Lab 55/45	Truck	Pickup	1977	15.2	27.2		15.9	25.0	14.5							24.5	16.0
Lab 55/45	Truck	Pickup	1978	14.7	24.6		15.9	25.6	14.5					27.2		31.7	15.7
Lab 55/45	Truck	Pickup	1979	15.2	19.5		14.8	23.2	15.0					27.5		30.2	15.5
Lab 55/45	Truck	Pickup	1980	18.5	21.5		18.0	25.1	19.8		31.3			26.0		30.1	19.4

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45	Truck	Pickup	1981	20.0	26.5		19.3	27.7	19.9		36.9			28.4		31.0	21.0
Lab 55/45	Truck	Pickup	1982	21.9	25.6		18.3	27.8	21.2		39.2			29.8		31.6	21.7
Lab 55/45	Truck	Pickup	1983	21.3	25.5		20.3	27.4	23.4		35.7			29.5		30.6	22.2
Lab 55/45	Truck	Pickup	1984	20.7	25.1		19.5	26.2	19.4					29.7		29.7	21.5
Lab 55/45	Truck	Pickup	1985	20.4	27.0		20.3	25.7	18.6					29.6			21.4
Lab 55/45	Truck	Pickup	1986	20.8	26.4		20.6	24.7	20.2					30.0		27.7	22.2
Lab 55/45	Truck	Pickup	1987	21.3	26.6		20.9	25.1	21.2					29.8		26.2	22.5
Lab 55/45	Truck	Pickup	1988	20.4	25.1		21.2	24.7	20.8							26.4	21.5
Lab 55/45	Truck	Pickup	1989	20.5	23.5		20.4	24.8	19.9							26.2	21.2
Lab 55/45	Truck	Pickup	1990	19.2	23.1		20.8	27.1	19.1							25.9	20.7
Lab 55/45	Truck	Pickup	1991	21.4	23.8		21.0	26.9	18.8							25.6	21.7
Lab 55/45	Truck	Pickup	1992	20.3	23.7		20.6	26.7	19.2							25.6	20.9
Lab 55/45	Truck	Pickup	1993	20.2	23.8		21.2	26.4	18.9							25.9	21.1
Lab 55/45	Truck	Pickup	1994	20.0	24.3		21.4	25.6	18.8							24.5	21.0
Lab 55/45	Truck	Pickup	1995	20.2	23.3		20.3	24.9	17.8							26.8	20.4
Lab 55/45	Truck	Pickup	1996	21.3	23.6		21.4	25.2	17.4								20.8
Lab 55/45	Truck	Pickup	1997	20.5	20.4		21.2	24.9	17.7								20.4
Lab 55/45	Truck	Pickup	1998	21.1	23.7		20.8	25.5	18.0							24.8	20.7
Lab 55/45	Truck	Pickup	1999	19.8	23.2		20.3	23.3	17.7							24.0	19.9
Lab 55/45	Truck	Pickup	2000	20.8	20.8		20.5	21.8	18.4							23.8	20.5
Lab 55/45	Truck	Pickup	2001	20.4	21.2		19.8	22.2	17.3							23.1	19.6
Lab 55/45	Truck	Pickup	2002	19.1	20.9		20.0	22.0	17.9							23.5	19.5
Lab 55/45	Truck	Pickup	2003	20.1	21.0		20.0	22.4	18.2					26.3		24.9	19.9
Lab 55/45	Truck	Pickup	2004	20.0	20.6		19.4	23.2	17.9					25.4		25.0	19.6
Lab 55/45	Truck	Pickup	2005	20.4	21.6		19.1	19.4	18.2					25.8		25.0	19.7
Lab 55/45	Truck	Pickup	2006	20.7	21.7	21.4	19.0	19.8	19.0					26.9		26.0	20.1
Lab 55/45	Truck	Pickup	2007	20.3	21.3	21.4	19.4	20.1	18.9							26.2	20.1
Lab 55/45	Truck	Pickup	2008	20.9	21.1	21.4	19.9	19.4	20.2							26.3	20.5
Lab 55/45	Truck	Pickup	2009	20.8	23.5	22.0	21.0	20.3	19.5							28.5	21.0
Lab 55/45	Truck	Pickup	2010	21.5	21.6	22.0	20.7	20.4	19.8								20.9
Lab 55/45	Truck	Pickup	2011	21.4	21.9	22.0	21.7	20.4	19.9								21.4
Lab 55/45	Truck	Pickup	2012	21.6	21.9	22.6	21.8	20.6	20.2								21.5
Lab 55/45	Truck	All	1975	14.1	21.3		12.5	23.6	13.2		20.7					16.8	13.7
Lab 55/45	Truck	All	1976	14.3	21.5		13.8	24.5	14.3		19.9					18.2	14.4
Lab 55/45	Truck	All	1977	15.1	26.8		15.8	25.0	14.5		22.2					24.5	15.6
Lab 55/45	Truck	All	1978	14.5	23.8		15.5	25.6	14.4		20.0			27.2		31.7	15.3

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45	Truck	All	1979	14.5	19.5		14.0	23.2	14.7		18.7			27.5		30.2	14.7
Lab 55/45	Truck	All	1980	17.9	21.4		17.4	25.1	18.2		25.2			26.0		30.1	18.6
Lab 55/45	Truck	All	1981	19.4	26.2		18.6	27.7	18.8		29.5			28.4		31.0	20.1
Lab 55/45	Truck	All	1982	21.0	25.2		17.5	27.8	19.4		27.8			29.8		31.6	20.5
Lab 55/45	Truck	All	1983	20.6	25.0		19.1	27.4	20.6		20.3			29.5		30.6	20.8
Lab 55/45	Truck	All	1984	20.1	24.9		18.8	26.2	19.4		20.7			29.7		29.7	20.4
Lab 55/45	Truck	All	1985	20.0	26.5		19.3	25.7	19.4		21.3			29.6			20.5
Lab 55/45	Truck	All	1986	20.1	26.1		20.3	24.7	20.7		19.2			30.0		27.7	21.4
Lab 55/45	Truck	All	1987	20.4	25.9		20.4	23.5	21.3		18.9			29.8		26.2	21.6
Lab 55/45	Truck	All	1988	20.2	24.4		20.5	22.7	21.4		19.9					26.4	21.1
Lab 55/45	Truck	All	1989	20.3	23.2		20.0	23.7	21.0		20.8					25.2	20.9
Lab 55/45	Truck	All	1990	19.7	21.9		20.1	25.3	21.4		20.8					23.3	20.7
Lab 55/45	Truck	All	1991	21.1	22.4		20.4	24.8	21.1		20.9					22.8	21.2
Lab 55/45	Truck	All	1992	20.2	22.0		20.1	24.0	21.4							23.2	20.8
Lab 55/45	Truck	All	1993	20.1	22.3		20.8	23.7	21.9		21.0					23.3	21.0
Lab 55/45	Truck	All	1994	20.1	22.0	20.1	20.7	22.9	20.5		20.1					23.6	20.7
Lab 55/45	Truck	All	1995	20.0	21.2	25.5	20.6	22.4	20.1		19.6	24.3				24.4	20.5
Lab 55/45	Truck	All	1996	20.7	22.8	22.7	20.8	22.9	20.2			23.0				20.8	20.8
Lab 55/45	Truck	All	1997	20.4	20.7	25.1	20.2	22.3	20.2		18.5	24.0				20.5	20.5
Lab 55/45	Truck	All	1998	21.1	23.1	25.7	20.2	22.3	20.0			24.4		26.8	21.3	23.4	20.8
Lab 55/45	Truck	All	1999	20.2	22.6	25.3	19.7	21.2	19.8		19.1	24.4		27.0	20.3	24.0	20.3
Lab 55/45	Truck	All	2000	20.6	21.7	24.9	19.9	20.9	20.3		19.0	23.6	17.5	27.8	20.4	23.3	20.7
Lab 55/45	Truck	All	2001	20.0	21.8	24.6	19.8	20.7	19.4	24.0	20.7	22.9	19.2	27.9	20.8	23.3	20.3
Lab 55/45	Truck	All	2002	19.6	21.7	25.0	20.0	20.7	20.0	23.5	20.9	20.9	20.1	28.0	19.1	23.7	20.3
Lab 55/45	Truck	All	2003	20.0	21.6	24.6	19.8	21.6	20.8	23.3	20.9	19.7	20.0	27.3	18.8	24.0	20.7
Lab 55/45	Truck	All	2004	19.9	22.4	24.3	19.5	20.9	19.7	22.8	19.0	20.6	21.5	27.1	18.8	24.0	20.5
Lab 55/45	Truck	All	2005	20.2	22.7	24.7	20.0	20.5	20.9	23.0	19.8	21.0	21.3	28.2	18.7	24.0	21.0
Lab 55/45	Truck	All	2006	20.7	23.4	24.5	19.8	20.6	21.0	22.9	20.0	22.1	21.2	26.5	20.9	24.5	21.4
Lab 55/45	Truck	All	2007	20.5	23.2	24.5	20.2	21.5	21.5	24.5	19.5	23.6	23.4	27.3	20.2	23.4	21.6
Lab 55/45	Truck	All	2008	21.2	23.5	24.9	21.0	21.4	22.4	24.6	20.2	23.6	22.9	26.4	20.8	24.8	22.2
Lab 55/45	Truck	All	2009	21.4	25.4	25.4	22.1	24.2	22.4	24.9	24.5	24.1	22.7	28.4	20.8	26.5	23.1
Lab 55/45	Truck	All	2010	22.3	24.7	26.2	21.8	22.8	22.9	29.2	25.2	25.0	23.6	29.6	21.4	25.2	23.4
Lab 55/45	Truck	All	2011	22.0	24.9	26.4	23.0	23.8	23.2	NA	27.1	NA	25.3	30.4	21.1	24.6	23.9
Lab 55/45	Truck	All	2012	22.2	24.8	28.0	23.3	25.5	23.8	NA	28.0	NA	24.6	30.5	22.5	24.6	24.3
Lab 55/45	All	All	1975	14.9	21.6	31.4	13.5	24.7	15.3		26.7		17.2	26.5	17.3	17.1	15.3
Lab 55/45	All	All	1976	16.1	24.0	32.6	15.7	26.3	16.2		27.8		18.4	29.7	18.6	21.3	16.7

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45	All	All	1977	17.2	27.7	35.5	16.3	26.7	16.2		29.7		19.8	30.2	19.2	28.8	17.7
Lab 55/45	All	All	1978	17.8	25.7	33.7	17.5	26.5	17.6		27.7		19.2	29.3	18.7	35.3	18.6
Lab 55/45	All	All	1979	18.0	22.9	29.0	17.3	26.2	18.8		28.7		19.5	28.9	20.5	25.8	18.7
Lab 55/45	All	All	1980	21.3	25.9	29.2	20.8	29.8	21.5		30.9		25.0	27.9	23.9	26.2	22.5
Lab 55/45	All	All	1981	22.6	29.9	30.8	21.6	30.0	24.5		34.0		25.6	30.9	25.6	31.1	24.1
Lab 55/45	All	All	1982	23.5	29.1	33.4	22.1	30.0	24.5		32.9		25.4	31.6	26.3	29.7	24.7
Lab 55/45	All	All	1983	22.9	30.5	35.3	21.9	31.7	25.8		29.7		25.3	31.2	26.4	29.4	24.6
Lab 55/45	All	All	1984	23.5	29.7	35.2	22.8	30.5	24.6		28.0		27.0	31.1	26.0	29.9	24.6
Lab 55/45	All	All	1985	24.0	30.0	33.8	23.4	28.4	24.6		29.0		25.4	30.5	23.1	29.7	25.0
Lab 55/45	All	All	1986	25.1	29.4	33.6	23.9	27.5	24.8	34.9	28.9		25.0	30.1	21.1	28.7	25.7
Lab 55/45	All	All	1987	25.3	30.0	32.8	24.0	27.8	24.6	34.5	28.1		23.9	29.5	22.0	27.7	25.9
Lab 55/45	All	All	1988	25.2	29.6	31.8	24.4	28.1	24.7	34.3	29.9		21.3	31.4	21.1	27.9	25.9
Lab 55/45	All	All	1989	24.8	28.9	31.3	24.2	28.4	24.1	33.1	29.7		21.7	31.5	21.2	27.7	25.4
Lab 55/45	All	All	1990	24.5	27.8	30.4	23.7	27.5	23.9	33.1	28.2		21.9	28.0	21.2	27.4	25.2
Lab 55/45	All	All	1991	24.8	27.5	30.3	24.2	27.6	24.1	32.7	29.1		22.8	28.2	22.2	27.1	25.4
Lab 55/45	All	All	1992	24.2	26.8	30.9	23.5	28.2	23.7	31.1	29.0		23.8	28.1	21.8	27.7	24.9
Lab 55/45	All	All	1993	24.3	26.7	32.2	24.5	27.1	23.5	31.0	25.7	31.7	25.0	29.2	22.7	28.6	25.1
Lab 55/45	All	All	1994	24.1	26.4	31.5	23.7	27.3	22.2	32.7	28.0	32.9	24.9	28.2	23.6	27.5	24.6
Lab 55/45	All	All	1995	23.9	27.0	32.4	24.0	26.1	22.9	30.9	28.4	28.3	25.1	28.5	24.5	29.5	24.7
Lab 55/45	All	All	1996	24.7	27.4	31.0	23.3	27.7	22.2	32.7	28.2	27.3	27.1	27.4	25.2	30.3	24.8
Lab 55/45	All	All	1997	24.4	27.1	31.0	22.8	26.6	22.2	31.0	28.4	27.8	25.5	28.0	25.0	29.8	24.5
Lab 55/45	All	All	1998	24.5	27.4	30.9	22.8	27.1	21.9	30.6	28.6	28.0	25.2	27.5	25.3	27.9	24.5
Lab 55/45	All	All	1999	23.7	27.1	29.6	22.6	26.5	21.5	30.5	28.2	27.8	25.2	27.4	24.4	28.9	24.1
Lab 55/45	All	All	2000	23.8	26.2	29.4	22.8	24.3	22.3	30.0	28.4	26.9	24.3	28.0	23.6	27.6	24.3
Lab 55/45	All	All	2001	23.8	26.5	29.9	22.4	24.1	21.6	29.9	28.0	27.9	23.3	27.8	23.9	26.3	24.2
Lab 55/45	All	All	2002	23.2	26.0	29.8	22.3	25.0	21.8	29.2	28.9	25.7	24.7	27.4	23.2	27.4	24.1
Lab 55/45	All	All	2003	23.1	27.1	29.1	22.1	25.4	22.3	28.5	29.2	24.8	25.2	27.3	23.4	27.4	24.3
Lab 55/45	All	All	2004	23.4	26.6	28.9	21.1	24.1	22.0	27.5	27.0	25.1	24.9	27.0	23.7	27.0	24.0
Lab 55/45	All	All	2005	23.8	28.8	29.1	22.6	25.1	22.6	28.2	27.8	24.4	25.1	27.6	24.1	27.9	24.8
Lab 55/45	All	All	2006	24.4	28.4	28.9	22.5	25.0	22.5	28.7	29.4	27.0	25.8	27.3	23.4	29.4	25.2
Lab 55/45	All	All	2007	23.8	29.6	29.3	23.5	26.8	23.2	29.2	27.4	28.3	26.7	28.0	22.4	28.6	25.8
Lab 55/45	All	All	2008	24.4	29.0	30.1	24.1	27.6	24.1	30.9	27.9	28.8	26.3	28.1	24.0	29.2	26.3
Lab 55/45	All	All	2009	25.6	32.4	31.1	25.8	29.9	23.9	31.7	30.0	30.7	27.3	28.7	24.3	29.3	28.2
Lab 55/45	All	All	2010	26.5	32.4	31.5	25.6	29.3	24.3	34.4	31.7	34.5	27.6	29.7	23.6	30.9	28.4
Lab 55/45	All	All	2011	25.7	30.6	30.4	26.5	29.6	24.2	NA	32.1	NA	28.4	30.4	23.7	31.7	28.1
Lab 55/45	All	All	2012	26.7	32.8	33.5	29.3	31.4	25.7	NA	32.3	NA	29.1	32.1	26.7	33.0	30.0

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Weight	Car	Car	1975	4492.1	2746.5	2000.0	4183.0	2589.5	4031.6		2339.4		3213.8	2250.0	3933.8	2900.1	4070.9
Weight	Car	Car	1976	4377.9	2742.3	2000.6	4221.6	2546.9	3971.7		2317.1		3178.4	2307.3	3924.4	2870.3	4044.2
Weight	Car	Car	1977	4161.5	2622.6	2057.9	4346.2	2536.9	4054.6		2306.4		3055.9	2250.0	3930.6	2499.2	3935.7
Weight	Car	Car	1978	3760.7	2610.8	2113.3	3890.6	2509.9	3596.9		2363.6		3064.9	2250.0	3971.5	2260.7	3571.8
Weight	Car	Car	1979	3728.0	2707.8	2312.6	3622.6	2501.7	3332.4		2355.1		3150.9	2275.0	3947.1	2561.8	3468.2
Weight	Car	Car	1980	3356.4	2621.7	2337.4	3178.3	2468.8	3027.5		2356.9		3064.1	2330.4	3766.6	2582.5	3091.6
Weight	Car	Car	1981	3418.0	2554.5	2350.6	3100.2	2535.3	2818.7		2380.2		3004.7	2307.2	3735.9	2449.1	3079.5
Weight	Car	Car	1982	3328.6	2576.0	2363.0	3056.3	2575.4	2944.1		2437.6		2979.7	2439.0	3884.1	2524.2	3038.6
Weight	Car	Car	1983	3428.4	2744.1	2389.1	3233.5	2522.6	2836.0		2439.0		3019.5	2464.0	3467.5	2493.2	3120.6
Weight	Car	Car	1984	3328.9	2711.6	2387.3	3193.8	2653.0	2788.6		2578.1		2905.0	2477.5	3318.9	2549.0	3090.6
Weight	Car	Car	1985	3301.8	2777.9	2440.2	3210.3	2749.2	2874.9		2642.7		3190.8	2501.4	3687.8	2547.4	3091.1
Weight	Car	Car	1986	3144.5	2768.8	2575.8	3221.5	2776.7	2869.7	2500.0	2642.5		3232.1	2617.7	3686.1	2696.1	3025.6
Weight	Car	Car	1987	3162.4	2821.5	2638.7	3226.6	2874.8	2889.1	2500.0	2684.3		3235.8	2605.4	3638.9	2727.0	3013.2
Weight	Car	Car	1988	3136.8	2778.1	2772.0	3246.1	2776.4	2958.0	2500.0	2670.5		3576.6	2455.7	3637.7	2874.0	3034.7
Weight	Car	Car	1989	3172.8	2829.0	2805.3	3283.1	2836.6	3077.1	2580.2	2724.9		3493.8	2500.1	3734.9	2858.9	3088.3
Weight	Car	Car	1990	3245.1	2959.5	2888.7	3398.1	3025.8	3214.9	2635.6	2890.4		3583.6	2905.5	3823.6	2869.9	3167.4
Weight	Car	Car	1991	3236.3	2919.9	2899.0	3289.8	3080.8	3189.1	2631.5	2895.4		3557.4	2911.5	3830.6	2865.6	3146.9
Weight	Car	Car	1992	3296.1	3096.4	3004.3	3443.8	3026.5	3172.0	2776.1	2941.7		3638.4	3133.0	3995.6	2898.4	3233.9
Weight	Car	Car	1993	3262.1	3143.8	2968.9	3342.3	3096.8	3179.4	2790.3	3091.7	2750.0	3630.5	2899.6	4150.1	2889.6	3210.4
Weight	Car	Car	1994	3274.2	3144.0	3047.2	3452.1	3034.7	3361.2	2665.8	3071.3	2750.0	3653.4	2973.1	4103.5	2877.1	3251.2
Weight	Car	Car	1995	3337.1	3175.4	2985.5	3411.7	3143.2	3205.8	2812.7	3083.4	2750.0	3756.4	3085.2	4086.0	2981.2	3265.8
Weight	Car	Car	1996	3335.6	3203.8	3040.6	3493.7	3121.4	3332.7	2696.1	3123.2	2750.0	3453.2	3122.0	4016.5	2895.2	3275.7
Weight	Car	Car	1997	3305.5	3231.9	3013.1	3439.9	3121.7	3355.2	2808.6	3122.5	2750.0	3571.7	3149.2	4013.6	2914.4	3273.7
Weight	Car	Car	1998	3369.3	3313.1	3172.8	3353.0	3283.4	3230.5	2823.6	3190.2	2750.0	3595.0	3221.0	3872.8	3017.6	3304.3
Weight	Car	Car	1999	3405.3	3303.8	3220.7	3410.4	3340.8	3515.6	2945.3	3228.2	2750.0	3663.3	3351.9	3874.6	2925.7	3361.5
Weight	Car	Car	2000	3455.4	3260.1	3195.3	3443.1	3381.3	3393.5	3026.7	3228.3	2750.0	3678.0	3342.3	4018.5	2955.1	3365.8
Weight	Car	Car	2001	3449.0	3241.8	3189.3	3467.5	3305.2	3438.9	3071.9	3281.6	2777.0	3730.4	3500.8	3938.7	3035.5	3365.5
Weight	Car	Car	2002	3404.6	3351.8	3218.5	3464.5	3368.5	3466.6	3101.1	3369.1	2996.6	3679.6	3538.5	3881.0	3075.8	3378.8
Weight	Car	Car	2003	3486.4	3217.2	3283.0	3616.3	3430.4	3320.0	3162.4	3399.7	3004.6	3579.3	3550.0	3921.4	3160.2	3416.4
Weight	Car	Car	2004	3421.8	3329.9	3295.7	3720.0	3528.3	3427.2	3247.3	3497.5	3257.4	3594.4	3523.5	3933.6	3281.9	3444.0
Weight	Car	Car	2005	3488.9	3262.8	3307.7	3652.2	3521.4	3519.1	3179.4	3591.5	3239.2	3507.3	3493.9	3858.9	3232.5	3444.1
Weight	Car	Car	2006	3581.6	3287.9	3335.6	3684.1	3525.0	3935.4	3523.7	3632.8	3134.8	3621.1	3500.0	4024.2	3182.5	3526.3
Weight	Car	Car	2007	3579.3	3370.5	3333.2	3588.8	3483.3	3767.8	3383.7	3680.0	3120.5	3691.1	3524.3	4187.7	3166.6	3503.1
Weight	Car	Car	2008	3671.0	3318.9	3386.3	3666.9	3462.6	3790.7	3220.4	3651.2	3125.1	3786.6	3532.3	3923.8	3132.5	3529.6
Weight	Car	Car	2009	3610.7	3313.3	3372.6	3557.4	3453.1	3874.5	3348.3	3631.2	3061.5	3686.6	3515.0	3888.5	3292.2	3478.0
Weight	Car	Car	2010	3685.6	3335.6	3354.5	3596.1	3451.8	3905.9	3168.0	3615.9	3055.1	3697.4	3528.3	4144.7	3245.5	3490.1

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Weight	Car	Car	2011	3772.7	3471.2	3374.4	3602.1	3451.3	3953.6	3392.7	3633.2	3212.4	3855.5	3527.7	4141.0	3127.3	3579.0
Weight	Car	Car	2012	3710.8	3343.2	3342.8	3321.5	3390.4	3607.2	3150.5	3623.0	3173.4	3839.1	3457.5	4051.5	3226.4	3449.6
Weight	Car	Wagon	1975	4594.2	2693.3		4517.9	3000.0	4167.0		2500.0			2500.0		2748.9	3956.6
Weight	Car	Wagon	1976	4722.9	2703.4	2250.0	4611.3	2693.1	4100.9		2500.0			2500.0		2820.1	4182.3
Weight	Car	Wagon	1977	4489.6	2660.8	2250.0	4514.0	2645.6	4126.0		2500.0			2500.0		2638.3	4004.9
Weight	Car	Wagon	1978	4122.4	2700.8	2250.0	3838.3	2668.3	3917.6		2500.0			2500.0		3000.0	3723.5
Weight	Car	Wagon	1979	4099.0	2622.4	2250.0	3603.9	2456.7	3870.7		2500.0			2500.0	4000.0	2500.0	3637.2
Weight	Car	Wagon	1980	4038.1	2604.9	2250.0	3254.6	2414.5	3768.4		2500.0			2500.0	4000.0	2326.7	3231.5
Weight	Car	Wagon	1981	4125.2	2584.3	2250.0	2906.3	2496.9	2940.8		2500.0			2500.0	4000.0	2441.5	3039.8
Weight	Car	Wagon	1982	3813.7	2562.1	2250.0	3041.6	2510.8	2925.4		2750.0			2608.8	4000.0	2474.8	3188.0
Weight	Car	Wagon	1983	3669.0	2497.5	2250.0	3081.2	2466.4	2902.2		2806.3			2642.7	4000.0	2497.0	3047.1
Weight	Car	Wagon	1984	3530.6	2572.9	2250.0	3151.2	2458.2	2807.6		3121.7			2696.2	4000.0	2451.6	3174.7
Weight	Car	Wagon	1985	3611.1	2515.2	2317.3	3104.1	2626.0	3004.2		3065.9			2733.0	4000.0	2457.2	3111.7
Weight	Car	Wagon	1986	3584.5	2618.5	2374.0	3142.1	2935.3	3105.2		3245.0			2746.1		2489.0	3214.9
Weight	Car	Wagon	1987	3615.2	2902.0	2390.3	3272.6	2999.4	3077.2		2847.5			2854.7	4000.0	2500.0	3248.1
Weight	Car	Wagon	1988	3644.7	2919.0	2599.0	3274.3	2977.1	2942.0		2553.4			2843.8	4000.0	2500.0	3241.5
Weight	Car	Wagon	1989	3642.5	2941.0	2536.0	3359.5	2767.4	2779.0		2766.2			2866.3	4000.0	2500.0	3327.2
Weight	Car	Wagon	1990	3616.7	2995.0	2666.0	3445.5	2691.6	2705.6		3175.5			3251.7	4000.0		3367.0
Weight	Car	Wagon	1991	3784.3	2937.3	3237.8	3182.5				3386.2			3266.9	4000.0		3304.6
Weight	Car	Wagon	1992	3824.7	3073.2	3500.0	3263.6				3358.5		4000.0	3254.6	4000.0		3390.9
Weight	Car	Wagon	1993	3499.7	3096.3	3500.0	3001.9		3062.8		3633.5		4000.0	3237.1	4000.0		3154.4
Weight	Car	Wagon	1994	3432.2	3204.9	3500.0	3020.5				3789.5		4000.0	3359.9	4000.0		3216.9
Weight	Car	Wagon	1995	3430.6	3230.2	3500.0	2981.0				3702.3		4000.0	3288.5	4000.0		3188.6
Weight	Car	Wagon	1996	3427.6	3226.7	3500.0	3512.3			3000.0	3711.2			3398.6			3452.8
Weight	Car	Wagon	1997	2748.7		3500.0	3265.6			3000.0	3793.1			3368.0			3283.4
Weight	Car	Wagon	1998	2749.1			3298.9			3000.0	3738.7			3398.3	4000.0		3358.7
Weight	Car	Wagon	1999	2748.6			3525.6			3000.0	3675.2		4000.0	3407.6	4000.0		3460.2
Weight	Car	Wagon	2000	3209.5			3504.9			3000.0	3611.9		3750.6	3454.5	4000.0		3468.1
Weight	Car	Wagon	2001	3274.2			3413.9		3500.0		3881.7		3843.9	3838.0	4000.0		3630.8
Weight	Car	Wagon	2002	3500.0			3392.3		3500.0		3694.7		3862.3	3765.8	4000.0		3610.4
Weight	Car	Wagon	2003	3047.0	3000.0		3414.9		3500.0		3756.5		3825.8	3824.0	3857.8		3424.6
Weight	Car	Wagon	2004	3017.2	2926.5		3530.2		4115.2		3822.3		3755.9	3797.6	4209.2	3500.0	3683.4
Weight	Car	Wagon	2005	3043.4	2879.7		3195.7		4206.3		3881.6		3821.5	3615.1	4224.2	3500.0	3651.5
Weight	Car	Wagon	2006	3345.3	2848.1		3000.0		3977.8		3752.6		4000.0	3566.7	4431.6	3500.0	3602.9
Weight	Car	Wagon	2007	3374.8	3000.0	2750.0	3000.0		3961.3		3898.8	3735.7	4000.0	3535.6	5401.8	3500.0	3558.8
Weight	Car	Wagon	2008	3407.9	3358.5	2750.0			3780.9		3744.9	3838.6	4289.6	3533.5	5277.5		3495.2

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Weight	Car	Wagon	2009	3419.1	3334.1	2750.0		3000.0	3500.0	3457.9	3638.5	3528.8	4124.6	3519.5	5248.3		3324.4
Weight	Car	Wagon	2010	3495.6	3304.4	2750.0		3329.4	3491.0	3500.0	3566.3	3011.0	4330.6	3500.0			3277.1
Weight	Car	Wagon	2011	4375.6	3427.9	2833.0		3309.1	3471.8	3500.0	3567.4	3000.6	4000.0	3500.0	4500.0		3262.3
Weight	Car	Wagon	2012	4199.8	3467.9	2814.2		3192.5	3461.3	3500.0	3553.1	3000.9	4000.0	3277.7	4500.0		3174.2
Weight	Car	Non-Truck SUV	1975	4000.0	4000.0				4000.0								4000.0
Weight	Car	Non-Truck SUV	1976	3945.7	4000.0				4000.0								3986.2
Weight	Car	Non-Truck SUV	1977	4000.0	4000.0				4000.0								4000.0
Weight	Car	Non-Truck SUV	1978	4000.0	4000.0				4000.0								4000.0
Weight	Car	Non-Truck SUV	1979		4000.0				2837.1								3270.9
Weight	Car	Non-Truck SUV	1980						4000.0								4000.0
Weight	Car	Non-Truck SUV	1981						4000.0								4000.0
Weight	Car	Non-Truck SUV	1982	3461.5					2500.0								2630.0
Weight	Car	Non-Truck SUV	1983	3500.0					2500.0								3124.4
Weight	Car	Non-Truck SUV	1984	3489.3					3471.6								3486.5
Weight	Car	Non-Truck SUV	1985	3500.0					3000.0								3469.2
Weight	Car	Non-Truck SUV	1986	3500.0			3500.0		3405.1								3479.5
Weight	Car	Non-Truck SUV	1987	3500.0			3500.0		3424.5								3491.8
Weight	Car	Non-Truck SUV	1988	3500.0			3500.0		3464.0								3494.8
Weight	Car	Non-Truck SUV	1989	3500.0			3500.0		3481.4								3497.2
Weight	Car	Non-Truck SUV	1990	3500.0	4000.0		3500.0		3474.1								3518.1
Weight	Car	Non-Truck SUV	1991	3628.0	4000.0		4000.0		3486.1								3732.5
Weight	Car	Non-Truck SUV	1992	3562.2	4000.0		4000.0		3491.7							4000.0	3712.5
Weight	Car	Non-Truck SUV	1993	3628.3	4000.0		4000.0		3904.3							4000.0	3847.5
Weight	Car	Non-Truck SUV	1994	3643.7		4000.0	4000.0		3667.7							4000.0	3735.2
Weight	Car	Non-Truck SUV	1995	3727.2	4000.0		4000.0		3762.8			3500.0					3763.4
Weight	Car	Non-Truck SUV	1996	3800.1	3332.9	4000.0	4000.0		3737.7			3500.0					3709.8
Weight	Car	Non-Truck SUV	1997	3901.8	3019.0	4000.0	4000.0		3881.9			3500.0					3549.5
Weight	Car	Non-Truck SUV	1998	3856.7	3052.7	3656.3	4000.0		3835.6			3500.0					3824.0
Weight	Car	Non-Truck SUV	1999	3864.5	3448.6	3655.3	4000.0		3829.6			3500.0					3831.2
Weight	Car	Non-Truck SUV	2000	3909.5	3591.1	3633.0	4000.0	4000.0	3912.8			3500.0					3869.8
Weight	Car	Non-Truck SUV	2001	3795.3	3453.6	3605.1	3826.2	4000.0	3846.0	4000.0		3500.0				3500.0	3765.2
Weight	Car	Non-Truck SUV	2002	3890.0	3359.3	3542.9	3647.4	4000.0	4000.0	4000.0		3500.0				3500.0	3747.2
Weight	Car	Non-Truck SUV	2003	3665.6	3256.1	3500.0	3612.7	4000.0	4000.0	4000.0						3500.0	3716.4
Weight	Car	Non-Truck SUV	2004	3991.1	3600.3	3500.0	3500.0	4050.7	4000.0	4000.0						3500.0	3853.8
Weight	Car	Non-Truck SUV	2005	4011.4	3484.7	3500.0	3517.3	4265.2	4000.0	3921.8		3851.3				3500.0	3847.8
Weight	Car	Non-Truck SUV	2006	3997.9	3692.6	3500.0	3545.3	4270.7	4000.0	3903.3		3815.0				3500.0	3875.8

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Weight	Car	Non-Truck SUV	2007	3982.9	3765.4	3500.0	4064.4	4232.8	4000.0	3956.3		3962.9				4000.0	3934.9
Weight	Car	Non-Truck SUV	2008	4083.8	3758.7	3500.0	3904.6	3948.5		3978.0		4049.8				3767.1	3902.5
Weight	Car	Non-Truck SUV	2009	4071.9	3818.4	3500.0	3791.1	3886.5	4000.0	3949.4		3989.4				3839.2	3846.0
Weight	Car	Non-Truck SUV	2010	4157.2	4025.2	3533.9	3918.6	3853.8	4000.0	3900.7		3543.1			4500.0	3563.6	3949.2
Weight	Car	Non-Truck SUV	2011	4027.5	3905.8	3538.0	3927.1	3721.4		3833.1		3923.2			4000.0	3517.8	3889.9
Weight	Car	Non-Truck SUV	2012	4091.9	3918.9	3526.1	3830.8	3765.1		3869.9		3853.6			4184.7	4000.0	3908.0
Weight	Car	All	1975	4499.6	2746.2	2000.0	4223.2	2606.0	4048.2		2360.1		3213.8	2345.6	3933.8	2812.2	4057.5
Weight	Car	All	1976	4400.6	2761.0	2020.6	4268.0	2567.9	3995.2		2325.6		3178.4	2366.2	3924.4	2852.7	4058.9
Weight	Car	All	1977	4186.2	2668.5	2085.1	4359.6	2554.8	4071.2		2319.9		3055.9	2353.1	3930.6	2524.8	3943.6
Weight	Car	All	1978	3788.6	2657.8	2125.7	3884.9	2533.8	3649.9		2370.1		3064.9	2376.2	3971.5	2269.0	3588.1
Weight	Car	All	1979	3761.4	2712.2	2307.9	3620.7	2493.7	3383.7		2355.6		3150.9	2404.0	3949.5	2553.8	3484.6
Weight	Car	All	1980	3384.0	2620.4	2330.0	3186.5	2461.1	3075.6		2364.2		3064.1	2401.6	3780.9	2558.7	3101.5
Weight	Car	All	1981	3445.3	2556.9	2342.6	3064.6	2530.0	2833.2		2383.6		3004.7	2400.0	3747.3	2448.5	3075.9
Weight	Car	All	1982	3369.8	2575.1	2353.7	3054.2	2568.0	2936.2		2447.2		2979.7	2526.3	3889.7	2522.6	3053.4
Weight	Car	All	1983	3448.6	2662.8	2379.7	3212.4	2516.1	2838.3		2446.7		3019.5	2557.0	3477.8	2493.3	3112.0
Weight	Car	All	1984	3348.5	2697.1	2379.8	3189.4	2632.6	2795.1		2589.9		2905.0	2583.2	3329.5	2548.2	3100.5
Weight	Car	All	1985	3328.0	2708.5	2432.4	3200.6	2737.8	2881.9		2654.8		3190.8	2632.4	3699.9	2546.6	3096.0
Weight	Car	All	1986	3177.1	2760.5	2564.5	3213.3	2801.2	2889.1	2500.0	2652.7		3232.1	2671.8	3686.1	2693.1	3043.0
Weight	Car	All	1987	3197.0	2831.1	2633.0	3235.0	2882.0	2900.9	2500.0	2689.4		3235.8	2727.4	3648.0	2715.7	3034.9
Weight	Car	All	1988	3163.2	2786.3	2769.7	3252.5	2786.1	2964.2	2500.0	2660.5		3576.6	2612.6	3650.4	2870.3	3051.1
Weight	Car	All	1989	3196.4	2835.8	2800.2	3291.4	2835.8	3079.7	2580.2	2726.0		3493.8	2621.3	3743.2	2857.3	3103.5
Weight	Car	All	1990	3257.6	2969.8	2884.4	3402.5	3024.7	3218.6	2635.6	2901.2		3583.6	3079.5	3828.8	2869.9	3178.4
Weight	Car	All	1991	3258.0	2927.8	2913.1	3313.7	3080.8	3194.6	2631.5	2911.3		3557.4	3078.7	3836.1	2865.6	3168.5
Weight	Car	All	1992	3313.0	3101.3	3015.5	3460.6	3026.5	3186.8	2776.1	2957.0		3648.4	3188.0	3995.7	2921.2	3253.6
Weight	Car	All	1993	3278.5	3150.2	2976.8	3326.9	3096.8	3359.9	2790.3	3113.7	2750.0	3639.7	3037.2	4147.1	2895.3	3241.1
Weight	Car	All	1994	3290.6	3145.4	3065.2	3439.6	3034.7	3388.4	2665.8	3087.1	2750.0	3660.4	3172.4	4099.0	2884.9	3268.1
Weight	Car	All	1995	3350.2	3209.9	2995.3	3370.2	3143.2	3244.5	2812.7	3102.5	2761.5	3760.4	3193.3	4082.0	2981.2	3274.1
Weight	Car	All	1996	3356.0	3210.8	3057.3	3501.6	3121.4	3376.9	2720.4	3144.5	2797.7	3453.2	3333.1	4016.5	2895.2	3296.8
Weight	Car	All	1997	3319.9	3203.3	3027.1	3433.7	3121.7	3403.3	2820.1	3142.9	2882.1	3571.7	3324.6	4013.6	2914.4	3285.5
Weight	Car	All	1998	3386.0	3304.2	3187.6	3413.9	3283.4	3298.7	2830.6	3209.3	2864.2	3595.0	3362.9	3878.2	3017.6	3333.9
Weight	Car	All	1999	3422.4	3311.2	3240.8	3468.2	3340.8	3548.1	2948.4	3256.4	2889.4	3675.7	3396.3	3879.6	2925.7	3390.3
Weight	Car	All	2000	3476.4	3277.3	3211.9	3492.0	3444.0	3457.1	3024.4	3254.9	2931.9	3680.9	3431.1	4017.8	2955.1	3400.9
Weight	Car	All	2001	3476.9	3257.9	3207.1	3512.6	3381.6	3492.2	3158.1	3331.2	2884.9	3734.3	3776.3	3941.0	3109.4	3410.9
Weight	Car	All	2002	3438.3	3352.4	3229.7	3476.1	3435.1	3503.0	3218.2	3399.8	3064.4	3684.4	3698.0	3886.7	3125.2	3415.3
Weight	Car	All	2003	3481.0	3202.5	3289.9	3608.2	3499.1	3467.7	3278.6	3442.8	3004.6	3585.6	3748.6	3920.0	3207.1	3437.2
Weight	Car	All	2004	3458.3	3323.0	3303.9	3700.4	3606.4	3643.9	3412.7	3534.9	3257.4	3596.3	3706.0	3949.2	3308.1	3492.3

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Weight	Car	All	2005	3549.1	3237.7	3314.6	3624.8	3591.9	3766.7	3364.2	3617.2	3299.8	3509.5	3574.7	3868.9	3277.3	3498.1
Weight	Car	All	2006	3622.5	3259.8	3343.2	3663.3	3597.3	3951.5	3592.7	3638.2	3229.3	3628.2	3543.6	4158.8	3244.8	3563.5
Weight	Car	All	2007	3612.2	3389.0	3307.2	3656.3	3550.7	3830.4	3554.0	3698.9	3390.2	3697.1	3531.1	4271.8	3305.3	3551.0
Weight	Car	All	2008	3706.7	3360.4	3348.7	3731.4	3500.6	3789.2	3386.2	3659.3	3419.9	3793.7	3533.1	3997.5	3238.0	3569.0
Weight	Car	All	2009	3619.6	3356.6	3319.3	3615.4	3490.8	3848.2	3448.1	3632.0	3292.4	3691.7	3517.5	3930.0	3353.8	3501.6
Weight	Car	All	2010	3775.5	3406.3	3320.6	3673.9	3491.3	3847.2	3293.8	3609.3	3054.0	3706.1	3519.4	4169.9	3292.7	3536.4
Weight	Car	All	2011	3849.2	3512.8	3358.9	3689.9	3471.3	3880.2	3458.6	3624.2	3428.3	3856.7	3520.0	4139.5	3204.8	3616.6
Weight	Car	All	2012	3803.1	3395.9	3309.4	3389.1	3394.6	3605.2	3228.9	3618.0	3238.8	3839.9	3376.3	4061.4	3255.5	3481.8
Weight	Truck	Van	1975	4183.4	3500.0		4135.5		4262.7		3496.6						4195.7
Weight	Truck	Van	1976	4224.8			4081.2		4326.4		3500.0						4199.9
Weight	Truck	Van	1977	4276.1			4109.8		4404.4		3500.0						4252.3
Weight	Truck	Van	1978	4313.4			4088.2		4387.0		3500.0						4249.6
Weight	Truck	Van	1979	4552.5			4664.7		4450.4		3500.0						4541.0
Weight	Truck	Van	1980	4337.5			4625.0		4137.1		3618.6						4352.7
Weight	Truck	Van	1981	4373.8			4508.6		4049.8		3644.3						4324.0
Weight	Truck	Van	1982	4447.2			4543.8		4030.8		3668.1						4342.1
Weight	Truck	Van	1983	4551.1			4515.9		4099.4		3625.0						4414.3
Weight	Truck	Van	1984	4523.1	3395.7		4389.3		3679.4		3627.2						4074.7
Weight	Truck	Van	1985	4287.3	3274.4		4464.1		3645.3		3655.8						3975.2
Weight	Truck	Van	1986	4240.6	3435.1		4217.7		3674.4		3764.4						3997.9
Weight	Truck	Van	1987	4214.0	3284.9		4247.2	3500.0	3707.3		3818.3						3972.1
Weight	Truck	Van	1988	4209.7	3515.3		4357.7	3611.4	3798.4		3867.6						4052.8
Weight	Truck	Van	1989	4215.2	3552.5		4273.6	3737.7	3825.2		4042.5					3998.5	4057.3
Weight	Truck	Van	1990	4265.1			4316.9	3451.7	3875.7		4020.2					3999.8	4095.0
Weight	Truck	Van	1991	4289.3	4000.0		4283.4	3381.9	3971.6		4021.3					3998.9	4132.6
Weight	Truck	Van	1992	4303.6	4000.0		4427.0	3500.0	3970.5							4081.3	4151.2
Weight	Truck	Van	1993	4363.6	4000.0		4279.7	4000.0	3822.9		4157.1					4050.4	4105.5
Weight	Truck	Van	1994	4315.7	4024.8		4436.6	4000.0	3971.4		4259.9					4067.1	4156.5
Weight	Truck	Van	1995	4337.0	4104.3	3500.0	4181.8	4000.0	3836.5		5000.0					4089.0	4109.5
Weight	Truck	Van	1996	4418.8	4065.4	3500.0	4214.0	4000.0	4156.5							4133.2	4195.5
Weight	Truck	Van	1997	4353.9	4136.9	3500.0	4408.0	4000.0	4152.3		5490.0					4178.1	4240.1
Weight	Truck	Van	1998	4291.5	4000.0	3500.0	4204.6	4000.0	4141.2							4287.2	4182.7
Weight	Truck	Van	1999	4326.6	4000.0	4500.0	4577.9	4000.0	4169.1		4897.3						4306.4
Weight	Truck	Van	2000	4323.4	4000.0	4500.0	4543.0	4000.0	4156.2		5115.5					4000.0	4275.6
Weight	Truck	Van	2001	4274.8	4000.0	4500.0	5336.8	4000.0	4429.6		4849.9					4000.0	4518.4
Weight	Truck	Van	2002	4307.4	4000.0	4500.0	4570.0	4000.0	4373.5		4638.3	5000.0				4000.0	4393.9

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Weight	Truck	Van	2003	4346.8	4000.0	4500.0	4613.1		4285.8		4564.4	5000.0				4000.0	4393.4
Weight	Truck	Van	2004	4360.2	4500.0	4500.0	4619.7	4500.0	4382.4			5000.0				4000.0	4486.7
Weight	Truck	Van	2005	4532.3	4500.0	4500.0	4463.8	4500.0	4285.4			5000.0				4000.0	4430.0
Weight	Truck	Van	2006	4715.2	4500.0	4500.0	4530.3	4500.0	4360.6			4500.0				4000.0	4475.5
Weight	Truck	Van	2007	4725.9	4500.0	4500.0	4282.8	4500.0	4401.3			4500.0					4479.3
Weight	Truck	Van	2008	4703.7	4500.0	4500.0	4500.0	4500.0	4554.3			4500.0				3500.0	4527.1
Weight	Truck	Van	2009	5271.2	4500.0	4835.3	4500.0	4500.0	4577.1			4500.0				3500.0	4572.0
Weight	Truck	Van	2010	5341.7	4500.0	4840.4	3500.0		4580.2			4500.0				3500.0	4533.0
Weight	Truck	Van	2011	5450.5	4552.0	4500.0	3768.2	4500.0	4500.0			4500.0					4501.4
Weight	Truck	Van	2012	5355.6	4556.0	4500.0	3873.6	4500.0	4500.0			4500.0					4485.4
Weight	Truck	Truck SUV	1975	4895.5			5000.0		3554.7								4213.6
Weight	Truck	Truck SUV	1976	4930.7	4500.0		5000.0		3594.5								4328.2
Weight	Truck	Truck SUV	1977	4703.1	4500.0		5000.0		3630.6								4248.2
Weight	Truck	Truck SUV	1978	4711.0	4500.0		5000.0		3608.0								4281.7
Weight	Truck	Truck SUV	1979	5168.6	4500.0		5000.0		3645.5								4560.5
Weight	Truck	Truck SUV	1980	5071.1	4001.3		4738.1		3507.0								4236.8
Weight	Truck	Truck SUV	1981	5013.3	4238.6		4686.1		3502.5								4208.0
Weight	Truck	Truck SUV	1982	5260.3	4342.0		4676.7		3741.8								4494.4
Weight	Truck	Truck SUV	1983	4507.1	4462.7		4673.3		3676.2								4269.7
Weight	Truck	Truck SUV	1984	4419.9	3939.0		3988.6		3646.0								4048.5
Weight	Truck	Truck SUV	1985	4348.1	3727.4		3977.6		4471.4								4092.2
Weight	Truck	Truck SUV	1986	4290.2	4028.6		3975.5		3744.8								3957.9
Weight	Truck	Truck SUV	1987	4392.9	3729.9		3972.2	4000.0	3688.8								3881.9
Weight	Truck	Truck SUV	1988	4463.3	4017.8		4004.3	4000.0	3664.6								3905.6
Weight	Truck	Truck SUV	1989	4405.6	4102.6		4494.5	4000.0	3646.8								4086.1
Weight	Truck	Truck SUV	1990	4430.9	4300.8		4584.3	4000.0	3566.2								4098.3
Weight	Truck	Truck SUV	1991	4179.1	4537.2		4491.1	4000.0	3571.5							4329.7	4157.2
Weight	Truck	Truck SUV	1992	4349.5	4573.3		4501.7	4000.0	3448.7							4500.0	4203.7
Weight	Truck	Truck SUV	1993	4622.0	4582.5		4514.2	4303.7	3478.4							4500.0	4331.2
Weight	Truck	Truck SUV	1994	4730.6	4483.8	4000.0	4511.4	4352.3	3738.1							4382.8	4331.1
Weight	Truck	Truck SUV	1995	4701.1	4543.9		4557.5	4204.3	3667.7			3500.0					4323.1
Weight	Truck	Truck SUV	1996	4786.1	3929.0	4500.0	4538.9	4000.0	3810.5			3500.0					4386.1
Weight	Truck	Truck SUV	1997	4935.1	4001.6	3672.8	4762.1	4398.5	3796.5			3500.0					4463.3
Weight	Truck	Truck SUV	1998	4624.6	3998.9	3605.6	4947.2	4398.2	4144.4			3500.0		3500.0	4500.0		4450.3
Weight	Truck	Truck SUV	1999	4687.7	4237.7	3586.9	5041.0	4337.7	4327.1			3500.0		3500.0	5000.0		4518.4
Weight	Truck	Truck SUV	2000	4965.7	4296.4	3610.8	5009.9	4422.8	4252.8			3500.0	5000.0	3500.0	5500.0		4602.0

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Weight	Truck	Truck SUV	2001	5191.8	4367.7	3864.7	4429.1	4391.6	4299.2	4000.0		3500.0	4797.2	3500.0	5500.0	3500.0	4545.6
Weight	Truck	Truck SUV	2002	5149.1	4399.1	3823.9	4552.1	4422.5	4380.7	4000.0		3500.0	5000.0	3500.0	5000.0	3500.0	4636.4
Weight	Truck	Truck SUV	2003	5288.0	4447.4	4061.1	4958.4	4344.5	4355.4	4000.0		4500.0	5000.0	3500.0	5138.3	3500.0	4753.7
Weight	Truck	Truck SUV	2004	5308.7	4536.0	4082.2	4915.9	4941.9	4291.7	4000.0	5507.9	4500.0	4507.6	3500.0	5534.7	3500.0	4755.8
Weight	Truck	Truck SUV	2005	5398.3	4510.1	4094.8	4760.4	4852.0	4544.6	4000.0	5500.0	4427.7	4561.9	3500.0	5047.6	3916.1	4755.6
Weight	Truck	Truck SUV	2006	5100.8	4533.5	4100.8	4947.2	4881.3	4622.8	4208.1	5527.3	4389.0	4542.5	3855.6	5005.1	3850.2	4715.4
Weight	Truck	Truck SUV	2007	5574.2	4461.2	4231.3	4736.0	4777.4	4431.6	4396.9	5568.0	4245.4	4581.1	3707.8	5290.1	4210.5	4797.3
Weight	Truck	Truck SUV	2008	5315.2	4636.8	4211.6	4582.5	4782.0	4397.3	4425.5	5571.6	4238.6	4752.6	3882.1	5478.5	4303.3	4727.4
Weight	Truck	Truck SUV	2009	5266.3	4409.3	4244.4	4468.4	4346.2	4358.8	4468.7	4537.6	4245.4	4983.6	3571.2	5385.3	4357.2	4547.2
Weight	Truck	Truck SUV	2010	5355.1	4544.1	4236.7	4717.0	4558.3	4274.2	3944.3	4551.1	4000.0	4935.2	3694.2	5120.6	4407.6	4555.2
Weight	Truck	Truck SUV	2011	5523.0	4531.2	4321.0	4725.0	4552.9	4472.0	3910.8	4537.6	4056.4	4964.0	3815.0	5302.2	4423.0	4665.3
Weight	Truck	Truck SUV	2012	5476.7	4480.6	4171.9	4780.6	4262.2	4521.4	4010.6	4554.8	4018.3	4947.4	3769.1	5250.5	4468.7	4601.7
Weight	Truck	Pickup	1975	4072.5	2750.0		4181.1	2750.0	4344.9							3000.0	4012.0
Weight	Truck	Pickup	1976	4193.1	2819.0		4229.0	2750.0	4338.2							3000.0	4121.8
Weight	Truck	Pickup	1977	4214.2	2780.3		4189.2	2750.0	4335.0							3000.0	4091.8
Weight	Truck	Pickup	1978	4247.8	2865.6		4215.5	2785.8	4225.8					2500.0		3000.0	4104.4
Weight	Truck	Pickup	1979	4494.6	2814.4		4144.1	2780.9	4041.4					2500.0		3000.0	4142.1
Weight	Truck	Pickup	1980	4157.4	2865.0		4032.3	2830.5	3429.6		2264.9			2500.0		2907.2	3740.0
Weight	Truck	Pickup	1981	4012.4	2887.8		3890.1	2893.0	3564.0		2318.0			2500.0		2885.1	3679.4
Weight	Truck	Pickup	1982	3850.3	3012.5		3972.5	2894.3	3469.7		2309.8			2500.0		2920.6	3628.9
Weight	Truck	Pickup	1983	3931.1	3032.6		3578.5	3040.7	3311.5		2378.8			2512.9		2907.9	3543.6
Weight	Truck	Pickup	1984	3962.1	3035.8		3768.2	3156.4	3637.9					2514.4		2860.1	3618.9
Weight	Truck	Pickup	1985	3926.0	3107.1		3687.8	3137.2	3798.3					2500.0			3642.4
Weight	Truck	Pickup	1986	3893.0	3129.3		3792.7	3229.4	3626.2					2500.0		3000.0	3574.0
Weight	Truck	Pickup	1987	3749.4	3113.8		3761.4	3168.9	3611.3					2500.0		3061.7	3526.4
Weight	Truck	Pickup	1988	4013.2	3180.7		3791.4	3239.4	3651.8							3030.3	3736.9
Weight	Truck	Pickup	1989	3976.3	3377.1		4022.9	3238.8	3680.8							3055.2	3803.2
Weight	Truck	Pickup	1990	4241.0	3396.0		3993.7	3167.0	3990.9							3116.3	3928.0
Weight	Truck	Pickup	1991	3845.3	3413.4		3985.9	3203.0	4034.5							3165.6	3779.3
Weight	Truck	Pickup	1992	4087.7	3366.1		4177.6	3228.7	4046.2							3177.6	3976.4
Weight	Truck	Pickup	1993	4188.9	3394.1		4108.9	3257.0	4111.2							3090.7	3995.9
Weight	Truck	Pickup	1994	4256.2	3382.3		4097.1	3333.0	4346.5							3573.4	4056.5
Weight	Truck	Pickup	1995	4270.0	3533.3		4322.0	3365.1	4516.2							3591.7	4182.3
Weight	Truck	Pickup	1996	4303.7	3507.6		4064.6	3355.0	4697.1								4189.9
Weight	Truck	Pickup	1997	4596.6	4085.5		4293.2	3349.5	4764.9								4414.6
Weight	Truck	Pickup	1998	4311.3	3432.1		4277.0	3603.8	4783.3							3612.1	4282.3

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Weight	Truck	Pickup	1999	4762.7	3548.9		4279.8	3787.6	4795.3							3664.2	4486.5
Weight	Truck	Pickup	2000	4401.2	4110.0		4309.3	3918.0	4662.1							3637.6	4340.0
Weight	Truck	Pickup	2001	4592.0	4046.0		4561.2	3880.2	4905.5							3617.3	4551.5
Weight	Truck	Pickup	2002	4987.7	4139.7		4518.8	3943.9	5010.6							3733.6	4689.8
Weight	Truck	Pickup	2003	4712.3	4148.0		4591.8	3944.6	5107.7					3858.6		3720.1	4641.5
Weight	Truck	Pickup	2004	4951.3	4296.3		5139.9	3869.7	5139.7					4000.0		3698.8	4938.8
Weight	Truck	Pickup	2005	4890.7	4476.3		5287.5	4894.9	5093.4					4000.0		3698.6	4987.8
Weight	Truck	Pickup	2006	4878.2	4485.4	4500.0	5369.4	4810.7	5206.4					3921.4		3642.6	4967.7
Weight	Truck	Pickup	2007	5212.6	4928.6	4500.0	5259.1	4770.8	5316.7							3627.5	5144.5
Weight	Truck	Pickup	2008	5257.0	4978.3	4500.0	5174.5	5139.9	5275.4							3597.8	5161.2
Weight	Truck	Pickup	2009	5325.4	4359.7	4500.0	5278.4	4926.1	5531.4							3545.5	5175.9
Weight	Truck	Pickup	2010	5317.8	5029.7	4500.0	5485.7	4943.0	5371.4								5308.8
Weight	Truck	Pickup	2011	5365.4	4917.5	4500.0	5372.7	4904.6	5348.3								5267.8
Weight	Truck	Pickup	2012	5151.7	4989.8	5000.0	5756.8	4877.5	5450.6								5300.7
Weight	Truck	All	1975	4159.5	2765.0		4181.6	2750.0	4080.5		3496.6					3000.0	4072.5
Weight	Truck	All	1976	4265.9	2874.4		4207.5	2750.0	4151.4		3500.0					3000.0	4155.3
Weight	Truck	All	1977	4266.9	2803.8		4197.6	2750.0	4178.7		3500.0					3000.0	4136.0
Weight	Truck	All	1978	4301.8	2914.8		4239.1	2785.8	4090.5		3500.0			2500.0		3000.0	4152.1
Weight	Truck	All	1979	4585.3	2819.8		4282.6	2780.9	4052.2		3500.0			2500.0		3000.0	4256.9
Weight	Truck	All	1980	4252.2	2879.7		4172.1	2830.5	3591.3		2769.9			2500.0		2907.2	3868.6
Weight	Truck	All	1981	4118.2	2906.0		4023.4	2893.0	3662.8		2651.9			2500.0		2885.1	3805.6
Weight	Truck	All	1982	4029.7	3042.5		4150.6	2894.3	3678.9		3002.0			2500.0		2920.6	3813.5
Weight	Truck	All	1983	4143.7	3069.2		3808.9	3040.7	3567.5		3487.8			2512.9		2907.9	3772.5
Weight	Truck	All	1984	4158.0	3132.8		3909.0	3156.4	3657.6		3627.2			2514.4		2860.1	3787.0
Weight	Truck	All	1985	4098.4	3175.5		3863.3	3137.2	3776.6		3655.8			2500.0			3803.2
Weight	Truck	All	1986	4068.2	3247.9		3922.9	3229.4	3676.2		3764.4			2500.0		3000.0	3741.1
Weight	Truck	All	1987	4029.5	3208.1		3931.4	3337.9	3670.9		3818.3			2500.0		3061.7	3717.9
Weight	Truck	All	1988	4139.6	3302.8		3954.2	3443.9	3727.0		3867.6					3030.3	3849.9
Weight	Truck	All	1989	4119.7	3456.6		4159.6	3352.0	3747.6		4042.5					3290.7	3931.7
Weight	Truck	All	1990	4280.7	3665.9		4137.0	3334.7	3824.9		4020.2					3472.4	4013.7
Weight	Truck	All	1991	4006.0	3755.6		4181.1	3382.9	3893.6		4021.3					3607.9	3960.9
Weight	Truck	All	1992	4194.6	3679.2		4303.6	3476.0	3892.8							3652.5	4077.5
Weight	Truck	All	1993	4328.9	3648.2		4232.5	3602.7	3815.1		4157.1					3616.2	4098.4
Weight	Truck	All	1994	4387.7	3685.8	4000.0	4245.8	3717.6	4000.4		4259.9					3708.0	4148.8
Weight	Truck	All	1995	4419.8	3881.3	3500.0	4311.7	3741.4	3946.2		5000.0	3500.0				3767.9	4201.1
Weight	Truck	All	1996	4503.0	3662.5	4010.4	4249.1	3693.9	4202.5			3500.0				4133.2	4254.8

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Weight	Truck	All	1997	4662.0	4014.7	3638.4	4461.2	3840.6	4229.2		5490.0	3500.0				4178.1	4393.9
Weight	Truck	All	1998	4394.2	3758.4	3591.6	4485.1	3985.1	4331.7			3500.0		3500.0	4500.0	3784.8	4317.0
Weight	Truck	All	1999	4655.9	3973.0	3887.8	4577.9	4111.6	4387.6		4897.3	3500.0		3500.0	5000.0	3664.2	4456.8
Weight	Truck	All	2000	4559.1	4159.6	4101.6	4589.3	4120.8	4301.6		5115.5	3500.0	5000.0	3500.0	5500.0	3860.5	4421.0
Weight	Truck	All	2001	4786.3	4197.5	4165.0	4627.9	4181.4	4561.4	4000.0	4849.9	3500.0	4797.2	3500.0	5500.0	3727.5	4542.7
Weight	Truck	All	2002	4993.3	4256.4	4148.4	4539.9	4199.2	4568.9	4000.0	4638.3	4532.5	5000.0	3500.0	5000.0	3743.5	4612.2
Weight	Truck	All	2003	4933.5	4305.6	4197.5	4752.0	4216.9	4576.0	4000.0	4564.4	4773.0	5000.0	3566.5	5138.3	3777.9	4654.6
Weight	Truck	All	2004	5085.3	4462.5	4191.9	5009.7	4671.3	4595.1	4000.0	5507.9	4764.3	4507.6	3517.0	5534.7	3782.3	4782.6
Weight	Truck	All	2005	5074.6	4497.6	4218.4	4992.7	4835.4	4574.0	4000.0	5500.0	4732.9	4561.9	3569.6	5047.6	3923.7	4762.9
Weight	Truck	All	2006	4953.9	4510.1	4272.9	5117.4	4828.9	4661.6	4208.1	5527.3	4435.8	4542.5	3861.0	5005.1	3876.6	4758.2
Weight	Truck	All	2007	5365.4	4633.6	4341.0	5028.3	4742.6	4604.4	4396.9	5568.0	4423.2	4581.1	3707.8	5290.1	4168.1	4871.3
Weight	Truck	All	2008	5243.8	4730.6	4310.2	4900.5	4884.1	4617.9	4425.5	5571.6	4393.1	4752.6	3882.1	5478.5	4105.4	4837.0
Weight	Truck	All	2009	5299.0	4407.2	4386.9	4955.2	4464.1	4674.2	4468.7	4537.6	4358.7	4983.6	3571.2	5385.3	3896.3	4752.8
Weight	Truck	All	2010	5336.3	4700.8	4410.5	5126.9	4672.3	4581.9	3944.3	4551.1	4362.1	4935.2	3694.2	5120.6	4110.0	4784.5
Weight	Truck	All	2011	5446.0	4643.8	4360.7	5060.1	4631.6	4656.0	3910.8	4537.6	4140.8	4964.0	3815.0	5302.2	4423.0	4824.3
Weight	Truck	All	2012	5302.9	4672.6	4286.6	5212.8	4433.0	4630.9	4010.6	4554.8	4132.8	4947.4	3769.1	5250.5	4468.7	4779.1
Weight	All	All	1975	4431.8	2748.1	2000.0	4212.5	2639.9	4054.0		2363.7		3213.8	2345.6	3933.8	2823.2	4060.4
Weight	All	All	1976	4372.5	2773.2	2020.6	4250.9	2609.6	4026.6		2333.4		3178.4	2366.2	3924.4	2873.4	4079.2
Weight	All	All	1977	4201.1	2684.6	2085.1	4311.9	2594.7	4092.5		2328.7		3055.9	2353.1	3930.6	2572.0	3981.8
Weight	All	All	1978	3898.1	2693.5	2125.7	3989.9	2580.1	3764.4		2381.2		3064.9	2400.9	3971.5	2312.3	3715.2
Weight	All	All	1979	3927.8	2732.8	2307.9	3811.8	2541.0	3564.2		2403.2		3150.9	2432.1	3949.5	2573.8	3655.5
Weight	All	All	1980	3494.5	2672.4	2330.0	3458.9	2531.2	3188.3		2402.3		3064.1	2411.6	3780.9	2578.0	3227.9
Weight	All	All	1981	3538.1	2621.5	2342.6	3370.6	2595.9	2972.2		2420.9		3004.7	2410.4	3747.3	2493.2	3201.8
Weight	All	All	1982	3490.4	2677.0	2353.7	3350.0	2637.5	3120.1		2514.5		2979.7	2525.0	3889.7	2578.0	3201.8
Weight	All	All	1983	3582.2	2753.6	2379.7	3428.1	2603.4	3029.2		2557.3		3019.5	2555.5	3477.8	2614.3	3257.3
Weight	All	All	1984	3497.8	2845.0	2379.8	3418.6	2748.0	3079.6		2671.1		2905.0	2581.1	3329.5	2701.6	3261.6
Weight	All	All	1985	3497.2	2888.5	2432.4	3406.3	2844.8	3163.4		2724.0		3190.8	2629.2	3699.9	2546.6	3271.1
Weight	All	All	1986	3365.8	2959.2	2564.5	3474.6	2981.4	3201.4	2500.0	2691.0		3232.1	2668.1	3686.1	2827.8	3238.0
Weight	All	All	1987	3385.9	2965.9	2633.0	3476.4	2983.7	3221.8	2500.0	2743.9		3235.8	2726.2	3648.0	2881.9	3220.5
Weight	All	All	1988	3444.1	2941.9	2769.7	3488.4	2954.7	3312.8	2500.0	2682.5		3576.6	2612.6	3650.4	2908.7	3283.5
Weight	All	All	1989	3476.6	3004.1	2800.2	3571.0	2956.2	3404.6	2580.2	2758.5		3493.8	2621.3	3743.2	3022.3	3351.5
Weight	All	All	1990	3560.3	3132.3	2884.4	3668.7	3109.3	3528.5	2635.6	2954.5		3583.6	3079.5	3828.8	3062.7	3426.0
Weight	All	All	1991	3499.8	3173.4	2913.1	3626.0	3169.5	3511.6	2631.5	2956.7		3557.4	3078.7	3836.1	3123.3	3409.6
Weight	All	All	1992	3584.6	3241.9	3015.5	3792.7	3132.4	3575.2	2776.1	2957.0		3648.4	3188.0	3995.7	3143.3	3512.3
Weight	All	All	1993	3630.6	3284.6	2976.8	3677.7	3260.9	3567.0	2790.3	3269.3	2750.0	3639.7	3037.2	4147.1	3022.8	3518.9
Weight	All	All	1994	3699.8	3316.9	3084.1	3792.5	3248.8	3768.1	2665.8	3091.1	2750.0	3660.4	3172.4	4099.0	3170.3	3603.4

2012 FE Trends Report

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Weight	All	All	1995	3759.7	3369.3	3015.7	3790.9	3380.8	3619.2	2812.7	3126.7	3005.7	3760.4	3193.3	4082.0	3095.5	3612.5
Weight	All	All	1996	3766.0	3321.8	3105.7	3871.2	3279.7	3882.0	2720.4	3144.5	2931.5	3453.2	3333.1	4016.5	2990.6	3658.8
Weight	All	All	1997	3841.1	3371.2	3097.3	3992.2	3374.9	3913.5	2820.1	3165.6	3016.2	3571.7	3324.6	4013.6	3003.6	3727.3
Weight	All	All	1998	3780.8	3455.0	3231.5	3982.4	3509.8	3990.0	2830.6	3209.3	3024.4	3595.0	3400.8	4040.0	3219.1	3744.0
Weight	All	All	1999	3935.0	3535.7	3345.4	4034.2	3569.8	4119.9	2948.4	3268.5	3050.8	3675.7	3427.0	4170.7	3053.6	3835.4
Weight	All	All	2000	3962.4	3623.3	3381.1	4029.5	3700.6	3986.5	3024.4	3268.1	3047.8	3720.5	3445.0	4390.1	3228.3	3821.3
Weight	All	All	2001	4032.1	3638.7	3427.7	4101.6	3709.6	4169.9	3217.9	3343.0	2972.2	3958.8	3674.4	4265.7	3337.7	3879.3
Weight	All	All	2002	4210.3	3732.3	3461.6	4106.5	3680.5	4202.7	3290.6	3415.9	3483.1	3911.2	3644.3	4120.3	3287.5	3950.9
Weight	All	All	2003	4271.5	3623.6	3625.8	4284.0	3694.3	4266.1	3365.1	3454.9	3720.5	3810.6	3670.8	4097.9	3378.8	3998.8
Weight	All	All	2004	4287.3	3862.5	3633.5	4595.3	4058.1	4235.9	3478.8	3752.6	3822.2	3807.1	3631.6	4130.7	3392.4	4111.1
Weight	All	All	2005	4275.5	3711.3	3659.4	4390.8	4033.8	4278.4	3417.5	3753.0	4004.7	3802.6	3573.3	4000.7	3393.8	4059.4
Weight	All	All	2006	4182.5	3810.9	3734.9	4466.8	4037.2	4373.9	3612.3	3704.6	3698.1	3779.2	3680.3	4322.8	3303.0	4066.5
Weight	All	All	2007	4492.0	3807.7	3712.9	4295.1	3958.9	4325.4	3647.3	3877.8	3685.6	3860.4	3595.5	4515.8	3441.8	4093.3
Weight	All	All	2008	4421.2	3953.4	3681.1	4282.9	3926.2	4305.8	3486.0	3816.7	3647.3	3960.5	3619.6	4351.4	3447.6	4085.0
Weight	All	All	2009	4304.8	3612.0	3626.4	4200.1	3729.9	4402.5	3520.0	3746.9	3481.3	3903.0	3543.1	4262.5	3508.8	3914.1
Weight	All	All	2010	4349.1	3821.2	3686.0	4366.6	3817.5	4336.9	3342.7	3744.6	3168.5	3899.4	3644.9	4474.2	3454.2	4001.6
Weight	All	All	2011	4566.6	3959.8	3848.7	4375.3	3838.4	4481.0	3495.2	3802.0	3563.5	4045.2	3718.7	4500.6	3393.8	4126.6
Weight	All	All	2012	4432.7	3827.4	3660.8	4099.8	3675.8	4296.5	3263.3	3747.5	3358.6	4109.0	3617.8	4335.5	3390.4	3950.3
Lab 55/45 Ton-MPG	Car	Car	1975	34.1	29.2	31.5	29.7	33.4	32.2		31.3		28.4	30.6	36.2	22.9	32.4
Lab 55/45 Ton-MPG	Car	Car	1976	36.5	34.4	33.2	35.4	34.8	33.6		32.4		29.2	35.4	39.0	32.3	35.4
Lab 55/45 Ton-MPG	Car	Car	1977	37.2	38.3	38.2	36.2	35.4	34.1		35.0		30.5	34.4	40.1	38.2	36.4
Lab 55/45 Ton-MPG	Car	Car	1978	36.2	35.9	36.3	36.1	34.6	35.2		34.2		29.5	37.7	39.8	40.9	35.9
Lab 55/45 Ton-MPG	Car	Car	1979	36.2	32.7	33.6	34.6	33.7	35.7		36.2		30.8	36.5	43.4	33.0	35.4
Lab 55/45 Ton-MPG	Car	Car	1980	37.0	36.2	34.0	35.6	38.7	35.0		38.8		38.8	34.7	46.2	33.9	36.5
Lab 55/45 Ton-MPG	Car	Car	1981	39.9	40.0	36.2	35.7	38.9	37.3		43.4		38.9	38.2	48.8	38.6	38.9
Lab 55/45 Ton-MPG	Car	Car	1982	41.0	39.5	39.5	37.5	40.0	39.9		43.4		38.4	40.3	52.3	37.9	40.1
Lab 55/45 Ton-MPG	Car	Car	1983	40.6	43.6	42.4	38.2	41.6	41.0		39.5		38.5	40.1	46.5	37.6	40.5
Lab 55/45 Ton-MPG	Car	Car	1984	40.9	44.7	42.3	40.6	42.5	40.1		38.7		39.3	40.4	43.8	39.7	41.0
Lab 55/45 Ton-MPG	Car	Car	1985	42.4	44.8	41.4	41.8	40.8	40.7		40.9		40.8	40.0	43.4	39.3	41.9
Lab 55/45 Ton-MPG	Car	Car	1986	42.9	44.8	43.4	43.0	42.2	41.4	43.7	40.0		40.7	40.5	39.5	40.3	42.6
Lab 55/45 Ton-MPG	Car	Car	1987	43.5	46.7	43.5	43.0	42.4	40.1	43.2	39.2		39.1	40.6	41.0	40.2	42.7
Lab 55/45 Ton-MPG	Car	Car	1988	44.4	45.5	44.4	44.0	42.9	42.2	43.0	40.5		38.4	40.7	38.8	41.1	43.7
Lab 55/45 Ton-MPG	Car	Car	1989	43.8	45.2	44.1	44.5	42.9	43.2	42.9	41.4		38.0	41.2	40.2	42.2	43.7
Lab 55/45 Ton-MPG	Car	Car	1990	44.4	45.1	44.2	44.9	43.0	44.0	43.8	41.8		39.2	41.8	40.9	43.1	44.2
Lab 55/45 Ton-MPG	Car	Car	1991	44.1	44.7	44.4	44.8	45.0	43.8	43.2	43.4		40.7	42.0	43.2	43.4	44.2
Lab 55/45 Ton-MPG	Car	Car	1992	44.1	44.6	47.3	45.8	45.7	44.0	43.2	43.0		43.3	43.5	44.0	44.2	44.8

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45 Ton-MPG	Car	Car	1993	44.7	45.4	48.3	45.8	45.3	44.4	43.4	41.6	43.6	45.5	43.1	47.4	43.8	45.3
Lab 55/45 Ton-MPG	Car	Car	1994	45.1	45.6	49.3	46.2	45.5	44.1	43.8	43.4	45.3	45.6	43.0	48.4	43.9	45.7
Lab 55/45 Ton-MPG	Car	Car	1995	45.7	47.6	49.4	46.8	46.1	45.1	43.7	44.5	42.7	47.0	44.6	50.5	46.0	46.3
Lab 55/45 Ton-MPG	Car	Car	1996	46.5	47.2	48.8	45.8	47.4	45.3	44.5	44.5	39.8	46.7	44.1	50.9	46.0	46.5
Lab 55/45 Ton-MPG	Car	Car	1997	46.5	48.2	48.9	46.0	46.4	45.6	43.8	45.3	42.4	45.5	45.5	50.4	45.2	46.6
Lab 55/45 Ton-MPG	Car	Car	1998	46.4	50.3	50.9	46.0	49.6	45.8	43.4	46.8	42.2	45.2	45.6	52.7	45.4	47.3
Lab 55/45 Ton-MPG	Car	Car	1999	46.7	50.3	50.0	46.5	49.5	47.4	45.0	46.4	42.2	46.2	46.9	51.2	44.2	47.5
Lab 55/45 Ton-MPG	Car	Car	2000	47.6	49.9	49.8	46.8	47.3	46.8	45.6	47.3	40.9	45.3	46.8	50.2	44.5	47.6
Lab 55/45 Ton-MPG	Car	Car	2001	48.5	51.5	51.9	46.6	46.8	47.9	47.6	47.5	41.9	46.2	48.9	48.9	44.6	48.3
Lab 55/45 Ton-MPG	Car	Car	2002	48.6	52.1	51.8	46.9	49.1	47.6	47.8	50.1	44.1	48.0	47.8	47.7	45.6	48.9
Lab 55/45 Ton-MPG	Car	Car	2003	49.5	52.3	54.4	48.1	48.2	49.6	47.7	50.8	45.2	47.6	48.3	48.2	47.4	49.9
Lab 55/45 Ton-MPG	Car	Car	2004	49.5	55.3	54.6	47.7	50.1	49.3	47.6	50.7	47.1	47.1	46.2	48.7	46.5	50.4
Lab 55/45 Ton-MPG	Car	Car	2005	50.3	58.5	55.0	49.6	51.8	49.3	48.1	52.3	47.3	47.3	46.9	48.9	48.0	51.8
Lab 55/45 Ton-MPG	Car	Car	2006	50.7	58.1	56.9	49.6	51.5	50.4	52.4	55.7	51.0	49.1	48.6	49.6	49.1	52.5
Lab 55/45 Ton-MPG	Car	Car	2007	51.4	60.9	56.8	50.1	55.7	53.2	54.3	52.8	53.4	51.1	49.7	49.1	49.9	54.4
Lab 55/45 Ton-MPG	Car	Car	2008	52.1	63.5	58.0	52.0	56.2	53.7	54.4	53.1	53.8	52.0	51.0	50.3	50.2	55.1
Lab 55/45 Ton-MPG	Car	Car	2009	54.0	62.4	58.0	53.8	57.5	53.6	56.4	56.8	54.6	53.0	51.1	50.4	51.6	56.7
Lab 55/45 Ton-MPG	Car	Car	2010	54.7	71.9	60.1	57.4	58.3	53.3	57.0	59.6	56.2	53.3	55.1	51.6	54.3	60.1
Lab 55/45 Ton-MPG	Car	Car	2011	56.9	68.1	61.4	58.9	58.3	54.7	NA	60.7	NA	56.8	55.1	52.5	53.9	60.0
Lab 55/45 Ton-MPG	Car	Car	2012	59.6	71.9	64.4	61.0	59.0	55.6	NA	60.4	NA	60.3	57.2	58.4	56.3	62.2
Lab 55/45 Ton-MPG	Car	Wagon	1975	33.7	30.8		30.8	31.5	33.5		34.1			32.0		25.8	32.2
Lab 55/45 Ton-MPG	Car	Wagon	1976	36.6	33.4	33.1	37.5	37.0	35.6		34.9			35.1		31.3	36.2
Lab 55/45 Ton-MPG	Car	Wagon	1977	38.1	37.2	36.1	35.8	36.2	34.6		36.4			37.7		37.6	36.3
Lab 55/45 Ton-MPG	Car	Wagon	1978	37.0	34.9	35.6	35.5	34.6	35.2		32.4			34.4		31.0	35.8
Lab 55/45 Ton-MPG	Car	Wagon	1979	36.6	32.9	33.7	35.0	34.3	35.6		31.3			35.2	49.3	39.4	35.8
Lab 55/45 Ton-MPG	Car	Wagon	1980	41.4	35.9	36.9	36.5	39.0	36.4		50.5			33.4	49.8	37.3	38.4
Lab 55/45 Ton-MPG	Car	Wagon	1981	44.1	37.7	38.0	37.1	39.5	36.9		50.7			37.3	58.5	40.7	39.1
Lab 55/45 Ton-MPG	Car	Wagon	1982	41.6	37.5	41.6	38.4	40.6	39.9		41.8			40.0	58.7	41.4	40.4
Lab 55/45 Ton-MPG	Car	Wagon	1983	41.8	43.5	41.5	39.5	42.7	40.0		45.2			40.1	58.8	39.3	41.6
Lab 55/45 Ton-MPG	Car	Wagon	1984	42.6	43.8	40.7	41.4	43.4	39.5		40.4			40.4	58.0	34.1	42.1
Lab 55/45 Ton-MPG	Car	Wagon	1985	43.9	44.2	40.5	41.9	39.9	40.6		39.9			40.6	53.8	34.2	42.7
Lab 55/45 Ton-MPG	Car	Wagon	1986	45.2	42.2	41.1	43.1	41.6	41.6		37.1			40.2		36.6	43.4
Lab 55/45 Ton-MPG	Car	Wagon	1987	46.2	47.3	41.0	43.5	41.9	41.3		38.4			40.2	53.2	42.1	44.1
Lab 55/45 Ton-MPG	Car	Wagon	1988	48.1	46.1	44.6	43.6	41.8	43.0		39.6			41.9	41.5	40.3	44.6
Lab 55/45 Ton-MPG	Car	Wagon	1989	47.1	45.1	44.2	43.6	44.7	43.2		40.4			42.0	41.9	38.9	44.6
Lab 55/45 Ton-MPG	Car	Wagon	1990	47.4	45.0	47.0	43.8	45.1	44.0		44.7			44.3	42.2		45.0

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45 Ton-MPG	Car	Wagon	1991	48.0	45.4	46.6	46.6				45.5			44.9	42.4		46.3
Lab 55/45 Ton-MPG	Car	Wagon	1992	47.8	44.5	47.5	47.2				44.7		46.4	46.0	42.5		46.7
Lab 55/45 Ton-MPG	Car	Wagon	1993	46.4	46.3	48.3	47.4		42.0		43.1		48.5	45.9	47.1		46.8
Lab 55/45 Ton-MPG	Car	Wagon	1994	46.5	47.2	50.8	48.2				44.7		47.0	46.2	49.5		47.5
Lab 55/45 Ton-MPG	Car	Wagon	1995	47.1	49.6	50.9	47.3				43.9		48.8	46.2	51.2		47.3
Lab 55/45 Ton-MPG	Car	Wagon	1996	47.7	49.3	50.0	48.9			45.3	55.0			46.2			47.9
Lab 55/45 Ton-MPG	Car	Wagon	1997	46.1		47.8	48.4			45.6	47.0			46.8			47.5
Lab 55/45 Ton-MPG	Car	Wagon	1998	46.7			48.0			44.3	48.5			47.1	54.4		47.4
Lab 55/45 Ton-MPG	Car	Wagon	1999	47.5			48.8			43.4	48.9		47.4	46.9	53.4		47.9
Lab 55/45 Ton-MPG	Car	Wagon	2000	47.6			49.8			43.4	45.4		46.1	48.3	53.5		48.0
Lab 55/45 Ton-MPG	Car	Wagon	2001	49.8			49.2		47.3		47.2		47.9	53.1	52.3		49.0
Lab 55/45 Ton-MPG	Car	Wagon	2002	50.3			48.8		44.5		52.1		49.3	51.5	50.9		48.4
Lab 55/45 Ton-MPG	Car	Wagon	2003	52.3	52.9		48.6		44.9		55.6		49.1	52.2	48.8		50.4
Lab 55/45 Ton-MPG	Car	Wagon	2004	53.0	52.9		48.9		50.3		54.2		48.4	52.0	51.1	44.4	51.4
Lab 55/45 Ton-MPG	Car	Wagon	2005	53.9	53.3		49.8		50.5		59.1		49.1	50.2	50.4	46.2	51.4
Lab 55/45 Ton-MPG	Car	Wagon	2006	53.3	51.9		50.7		50.0		55.8		52.9	50.4	52.1	47.6	51.3
Lab 55/45 Ton-MPG	Car	Wagon	2007	53.1	54.7	54.8	53.0		49.3		57.9	51.2	53.5	50.6	58.8	47.6	51.9
Lab 55/45 Ton-MPG	Car	Wagon	2008	56.8	55.1	54.9			49.1		55.1	52.8	54.7	50.7	57.6		53.1
Lab 55/45 Ton-MPG	Car	Wagon	2009	55.7	55.0	55.1		56.9	48.3	59.7	64.6	51.1	54.1	50.7	57.4		54.6
Lab 55/45 Ton-MPG	Car	Wagon	2010	56.6	55.1	55.3		54.3	54.8	60.4	72.0	52.7	54.8	50.1			56.1
Lab 55/45 Ton-MPG	Car	Wagon	2011	54.1	55.1	56.8		59.6	56.4	NA	72.0	NA	53.2	50.0	54.9		57.2
Lab 55/45 Ton-MPG	Car	Wagon	2012	57.1	80.0	56.6		57.6	56.3	NA	72.7	NA	53.2	63.3	62.5		59.9
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1975	31.3	24.0				29.5								26.5
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1976	33.5	21.5				33.2								25.9
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1977	36.0	28.2				32.9								29.5
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1978	35.2	26.4				33.0								27.9
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1979		27.6				28.8								27.8
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1980						35.4								34.6
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1981						34.5								34.5
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1982	38.3					29.5								30.7
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1983	44.0					29.0								38.4
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1984	41.2					31.6								39.7
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1985	41.1					35.5								40.8
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1986	38.9			41.1		38.9								38.9
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1987	40.3			40.8		36.5								40.0
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1988	40.4			40.3		36.8								39.9

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1989	40.3			40.5		36.4								39.8
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1990	39.7	41.8		40.6		36.8								39.6
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1991	41.2	42.9		42.6		36.0								40.7
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1992	40.0	34.1		42.4		36.1							42.8	39.9
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1993	42.5	36.3		43.2		37.7							43.6	39.5
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1994	41.2		40.9	42.2		38.4							42.9	40.6
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1995	42.3	42.7		45.0		36.6			44.7					40.6
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1996	43.4	43.4	40.0	44.7		38.7			43.5					41.7
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1997	43.1	42.2	38.9	42.8		39.6			40.8					41.9
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1998	43.3	45.5	46.2	42.5		39.9			42.7					42.8
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	1999	43.1	47.2	46.3	43.5		41.4			42.7					43.7
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	2000	43.3	47.3	46.6	42.1	40.3	41.3			40.9					42.8
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	2001	45.7	46.6	47.2	42.8	40.9	40.5	51.8		40.1				43.3	44.2
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	2002	47.2	46.4	51.3	43.2	41.5	40.4	50.7		40.5				44.0	45.3
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	2003	47.6	46.2	52.0	43.5	46.4	44.0	51.4						44.1	46.4
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	2004	49.6	48.8	51.4	43.9	47.3	45.0	50.4						44.2	48.2
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	2005	49.9	48.3	51.9	47.2	50.2	44.2	49.9		50.4				46.5	49.0
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	2006	50.2	53.7	51.9	49.4	49.9	44.7	50.2		50.3				47.7	50.0
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	2007	50.8	52.6	52.3	52.5	50.5	46.2	51.3		49.9				48.4	51.2
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	2008	51.9	53.2	52.0	53.5	53.2		52.0		50.7				50.2	52.4
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	2009	53.0	55.9	52.0	55.3	53.9	54.6	52.1		51.9				51.9	53.9
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	2010	61.9	59.9	54.7	55.6	54.3	55.6	59.4		50.8			53.6	52.4	57.8
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	2011	60.7	58.7	54.7	57.0	55.7		NA		NA			47.0	52.3	58.5
Lab 55/45 Ton-MPG	Car	Non-Truck SUV	2012	63.9	59.2	59.6	56.8	56.2		NA		NA			49.3	58.7	60.3
Lab 55/45 Ton-MPG	Car	All	1975	34.0	29.9	31.5	29.8	33.3	32.3		31.6		28.4	31.2	36.2	24.6	32.3
Lab 55/45 Ton-MPG	Car	All	1976	36.5	34.0	33.2	35.7	35.1	34.0		32.5		29.2	35.3	39.0	32.0	35.5
Lab 55/45 Ton-MPG	Car	All	1977	37.2	37.9	37.9	36.1	35.5	34.2		35.1		30.5	35.8	40.1	38.1	36.4
Lab 55/45 Ton-MPG	Car	All	1978	36.2	35.5	36.3	36.0	34.6	35.2		34.1		29.5	36.0	39.8	40.8	35.9
Lab 55/45 Ton-MPG	Car	All	1979	36.3	32.7	33.6	34.7	33.8	35.7		36.2		30.8	35.8	43.7	33.9	35.4
Lab 55/45 Ton-MPG	Car	All	1980	37.1	36.2	34.2	35.7	38.7	35.1		39.4		38.8	34.2	46.4	34.2	36.6
Lab 55/45 Ton-MPG	Car	All	1981	40.0	39.8	36.3	35.9	38.9	37.2		43.6		38.9	37.8	49.3	38.7	38.9
Lab 55/45 Ton-MPG	Car	All	1982	41.0	39.3	39.7	37.6	40.1	39.7		43.4		38.4	40.1	52.6	38.0	40.1
Lab 55/45 Ton-MPG	Car	All	1983	40.7	43.6	42.3	38.4	41.7	40.7		39.6		38.5	40.1	46.7	37.6	40.7
Lab 55/45 Ton-MPG	Car	All	1984	41.1	44.6	42.2	40.7	42.6	40.0		38.7		39.3	40.4	44.0	39.7	41.1
Lab 55/45 Ton-MPG	Car	All	1985	42.5	44.6	41.4	41.8	40.7	40.7		40.9		40.8	40.3	43.8	39.2	41.9
Lab 55/45 Ton-MPG	Car	All	1986	43.0	44.7	43.3	43.0	42.1	41.4	43.7	39.9		40.7	40.4	39.5	40.2	42.6

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45 Ton-MPG	Car	All	1987	43.6	46.7	43.4	43.0	42.4	40.1	43.2	39.2		39.1	40.4	41.3	40.3	42.7
Lab 55/45 Ton-MPG	Car	All	1988	44.5	45.6	44.4	43.9	42.8	42.1	43.0	40.4		38.4	41.2	38.9	41.1	43.7
Lab 55/45 Ton-MPG	Car	All	1989	43.9	45.2	44.1	44.3	42.9	43.1	42.9	41.3		38.0	41.5	40.2	42.2	43.7
Lab 55/45 Ton-MPG	Car	All	1990	44.5	45.1	44.2	44.8	43.0	43.8	43.8	41.9		39.2	43.1	41.0	43.1	44.2
Lab 55/45 Ton-MPG	Car	All	1991	44.1	44.7	44.5	44.8	45.0	43.7	43.2	43.5		40.7	43.4	43.1	43.4	44.2
Lab 55/45 Ton-MPG	Car	All	1992	44.1	44.5	47.3	45.7	45.7	43.6	43.2	43.0		43.4	44.7	43.9	44.1	44.7
Lab 55/45 Ton-MPG	Car	All	1993	44.7	45.4	48.3	45.9	45.3	42.7	43.4	41.7	43.6	45.6	44.3	47.4	43.8	45.1
Lab 55/45 Ton-MPG	Car	All	1994	45.0	45.6	49.2	46.2	45.5	43.6	43.8	43.4	45.3	45.6	44.7	48.5	43.9	45.5
Lab 55/45 Ton-MPG	Car	All	1995	45.6	47.5	49.5	46.8	46.1	44.5	43.7	44.5	42.8	47.1	45.5	50.6	46.0	46.2
Lab 55/45 Ton-MPG	Car	All	1996	46.4	47.1	48.7	46.0	47.4	44.6	44.6	44.9	40.1	46.7	45.7	50.9	46.0	46.4
Lab 55/45 Ton-MPG	Car	All	1997	46.3	47.4	48.8	46.2	46.4	45.0	43.9	45.4	42.1	45.5	46.5	50.4	45.2	46.5
Lab 55/45 Ton-MPG	Car	All	1998	46.2	50.1	50.8	45.7	49.6	45.1	43.5	46.8	42.3	45.2	46.8	52.8	45.4	47.1
Lab 55/45 Ton-MPG	Car	All	1999	46.5	50.2	49.8	46.3	49.5	46.8	44.9	46.5	42.3	46.2	46.9	51.2	44.2	47.3
Lab 55/45 Ton-MPG	Car	All	2000	47.4	49.8	49.7	46.5	46.6	46.1	45.4	47.1	40.9	45.3	48.0	50.3	44.5	47.3
Lab 55/45 Ton-MPG	Car	All	2001	48.3	51.1	51.7	46.2	46.2	47.0	48.0	47.4	41.7	46.2	52.3	49.1	44.4	48.0
Lab 55/45 Ton-MPG	Car	All	2002	48.5	51.7	51.8	46.7	48.3	46.5	48.2	50.3	43.6	48.0	50.4	47.9	45.4	48.6
Lab 55/45 Ton-MPG	Car	All	2003	49.5	52.0	54.3	47.7	48.0	47.6	48.2	51.4	45.2	47.6	51.1	48.3	46.9	49.7
Lab 55/45 Ton-MPG	Car	All	2004	49.6	54.5	54.4	47.5	49.7	49.3	48.2	51.1	47.1	47.2	50.1	48.8	46.3	50.3
Lab 55/45 Ton-MPG	Car	All	2005	50.4	57.4	54.9	49.3	51.7	49.5	48.5	52.9	47.6	47.3	49.1	48.9	47.8	51.5
Lab 55/45 Ton-MPG	Car	All	2006	50.9	57.1	56.7	49.6	51.4	50.0	52.0	55.7	50.9	49.2	49.8	50.4	48.8	52.2
Lab 55/45 Ton-MPG	Car	All	2007	51.4	60.2	56.2	50.5	55.2	51.9	53.4	53.3	52.3	51.2	50.2	49.8	49.5	53.9
Lab 55/45 Ton-MPG	Car	All	2008	52.3	62.0	57.2	52.4	56.0	52.9	53.8	53.3	52.9	52.0	50.8	50.7	50.2	54.6
Lab 55/45 Ton-MPG	Car	All	2009	54.1	61.3	57.2	54.2	57.0	53.2	55.8	57.7	53.8	53.0	50.8	50.6	51.6	56.3
Lab 55/45 Ton-MPG	Car	All	2010	56.4	70.1	59.1	57.0	57.6	53.6	57.5	61.3	54.8	53.3	53.5	51.8	54.1	59.6
Lab 55/45 Ton-MPG	Car	All	2011	58.0	66.9	59.9	58.4	58.1	55.0	NA	62.2	NA	56.7	53.7	52.2	53.6	59.6
Lab 55/45 Ton-MPG	Car	All	2012	60.6	71.2	63.2	60.5	58.6	55.6	NA	61.3	NA	60.3	59.9	58.0	56.4	61.9
Lab 55/45 Ton-MPG	Truck	Van	1975	30.9	35.9		26.4		27.4		36.2						28.1
Lab 55/45 Ton-MPG	Truck	Van	1976	30.6			28.0		30.8		34.9						29.7
Lab 55/45 Ton-MPG	Truck	Van	1977	32.4			32.2		30.5		38.9						31.7
Lab 55/45 Ton-MPG	Truck	Van	1978	31.1			31.2		29.7		35.0						30.8
Lab 55/45 Ton-MPG	Truck	Van	1979	33.9			28.6		31.0		32.9						31.3
Lab 55/45 Ton-MPG	Truck	Van	1980	36.4			37.9		34.6		34.4						36.4
Lab 55/45 Ton-MPG	Truck	Van	1981	39.5			38.3		35.6		33.8						38.0
Lab 55/45 Ton-MPG	Truck	Van	1982	39.8			37.1		35.9		42.1						38.0
Lab 55/45 Ton-MPG	Truck	Van	1983	43.4			37.1		37.3		35.3						39.7
Lab 55/45 Ton-MPG	Truck	Van	1984	41.3	45.9		36.8		38.4		37.5						39.3

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45 Ton-MPG	Truck	Van	1985	40.5	43.6		36.4		38.9		39.0						39.3
Lab 55/45 Ton-MPG	Truck	Van	1986	41.4	45.2		41.8		40.8		36.2						41.5
Lab 55/45 Ton-MPG	Truck	Van	1987	42.0	41.8		42.0	39.1	41.8		36.2						41.7
Lab 55/45 Ton-MPG	Truck	Van	1988	42.8	45.4		42.5	40.3	43.9		38.6						43.2
Lab 55/45 Ton-MPG	Truck	Van	1989	42.9	45.9		42.6	41.4	43.7		42.2					45.1	43.2
Lab 55/45 Ton-MPG	Truck	Van	1990	44.3			42.0	43.9	44.8		41.9					40.6	43.8
Lab 55/45 Ton-MPG	Truck	Van	1991	44.9	45.7		42.6	44.0	45.6		42.1					40.8	44.5
Lab 55/45 Ton-MPG	Truck	Van	1992	45.1	44.6		43.6	44.8	45.4							43.5	44.8
Lab 55/45 Ton-MPG	Truck	Van	1993	45.3	43.8		44.7	43.5	45.3		43.7					43.4	45.0
Lab 55/45 Ton-MPG	Truck	Van	1994	45.5	44.3		44.3	45.4	44.8		42.8					43.4	44.9
Lab 55/45 Ton-MPG	Truck	Van	1995	44.9	46.3	44.7	45.4	46.0	44.5		48.9					42.7	45.0
Lab 55/45 Ton-MPG	Truck	Van	1996	47.5	45.5	49.8	45.3	45.8	47.6							42.9	46.8
Lab 55/45 Ton-MPG	Truck	Van	1997	47.7	46.0	43.6	45.6	45.2	47.3		50.8					42.9	46.9
Lab 55/45 Ton-MPG	Truck	Van	1998	47.6	48.4	47.2	47.0	45.4	48.4							42.9	47.7
Lab 55/45 Ton-MPG	Truck	Van	1999	47.7	48.2	54.2	48.1	46.1	48.0		46.7						48.1
Lab 55/45 Ton-MPG	Truck	Van	2000	48.0	48.2	53.8	49.2	45.7	48.9		48.5					46.2	48.9
Lab 55/45 Ton-MPG	Truck	Van	2001	49.3	49.5	54.0	48.0	45.1	52.0		50.0					46.3	50.3
Lab 55/45 Ton-MPG	Truck	Van	2002	48.6	49.5	54.5	50.1	45.1	52.4		48.3	50.0				47.4	50.9
Lab 55/45 Ton-MPG	Truck	Van	2003	50.5	49.5	54.5	51.3		52.6		47.6	50.0				47.5	51.7
Lab 55/45 Ton-MPG	Truck	Van	2004	50.4	57.3	54.5	49.7	55.3	53.6			52.9				47.5	53.4
Lab 55/45 Ton-MPG	Truck	Van	2005	51.5	55.6	58.6	52.6	55.5	52.0			53.3				47.4	53.2
Lab 55/45 Ton-MPG	Truck	Van	2006	54.0	55.8	58.7	51.5	56.1	53.1			53.5				47.2	54.4
Lab 55/45 Ton-MPG	Truck	Van	2007	53.5	58.9	55.5	52.7	55.0	52.4			53.5					54.3
Lab 55/45 Ton-MPG	Truck	Van	2008	53.7	58.8	56.8	54.0	55.1	55.7			53.5				53.7	55.9
Lab 55/45 Ton-MPG	Truck	Van	2009	52.8	58.9	61.1	54.9	55.1	56.4			53.5				53.0	57.2
Lab 55/45 Ton-MPG	Truck	Van	2010	53.8	58.7	60.5	53.1		56.0			55.6				53.7	56.8
Lab 55/45 Ton-MPG	Truck	Van	2011	53.7	59.8	62.5	52.6	61.0	57.9			NA					59.2
Lab 55/45 Ton-MPG	Truck	Van	2012	53.6	60.6	62.5	53.1	61.3	58.4			NA					59.1
Lab 55/45 Ton-MPG	Truck	Truck SUV	1975	28.9			26.5		25.8								27.2
Lab 55/45 Ton-MPG	Truck	Truck SUV	1976	32.1	26.4		34.5		26.7								29.8
Lab 55/45 Ton-MPG	Truck	Truck SUV	1977	34.7	29.3		36.3		28.5								32.0
Lab 55/45 Ton-MPG	Truck	Truck SUV	1978	33.2	26.5		33.1		27.8								30.8
Lab 55/45 Ton-MPG	Truck	Truck SUV	1979	29.2	29.9		27.5		27.5								28.3
Lab 55/45 Ton-MPG	Truck	Truck SUV	1980	36.9	27.6		33.2		29.7								32.9
Lab 55/45 Ton-MPG	Truck	Truck SUV	1981	40.7	30.3		35.8		32.4								35.4
Lab 55/45 Ton-MPG	Truck	Truck SUV	1982	51.8	30.9		34.9		33.2								39.9

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45 Ton-MPG	Truck	Truck SUV	1983	45.9	31.6		36.2		32.5								40.3
Lab 55/45 Ton-MPG	Truck	Truck SUV	1984	44.4	35.1		36.8		33.8								39.0
Lab 55/45 Ton-MPG	Truck	Truck SUV	1985	43.9	41.2		37.8		33.8								40.2
Lab 55/45 Ton-MPG	Truck	Truck SUV	1986	41.8	47.8		39.4		36.4								40.0
Lab 55/45 Ton-MPG	Truck	Truck SUV	1987	42.2	43.4		39.9	37.4	37.1								39.7
Lab 55/45 Ton-MPG	Truck	Truck SUV	1988	43.2	41.4		39.2	37.1	35.3								39.4
Lab 55/45 Ton-MPG	Truck	Truck SUV	1989	43.8	41.1		42.2	37.9	35.2								40.3
Lab 55/45 Ton-MPG	Truck	Truck SUV	1990	43.0	41.8		41.7	39.0	35.4								40.1
Lab 55/45 Ton-MPG	Truck	Truck SUV	1991	42.8	41.7		44.5	39.0	34.8							44.3	41.6
Lab 55/45 Ton-MPG	Truck	Truck SUV	1992	41.6	39.2		44.2	39.2	34.2							46.2	40.8
Lab 55/45 Ton-MPG	Truck	Truck SUV	1993	44.6	39.6		44.6	41.8	34.9							46.3	42.3
Lab 55/45 Ton-MPG	Truck	Truck SUV	1994	45.8	39.0	40.2	44.6	40.4	35.3							44.6	41.8
Lab 55/45 Ton-MPG	Truck	Truck SUV	1995	45.5	39.9		44.6	40.0	35.3			42.6					41.8
Lab 55/45 Ton-MPG	Truck	Truck SUV	1996	47.1	42.0	42.8	44.6	39.7	36.2			40.3					43.1
Lab 55/45 Ton-MPG	Truck	Truck SUV	1997	47.7	41.3	46.4	44.5	43.1	37.7			42.0					43.7
Lab 55/45 Ton-MPG	Truck	Truck SUV	1998	46.8	44.2	46.1	45.0	42.9	39.1			42.7		46.9	48.0		43.9
Lab 55/45 Ton-MPG	Truck	Truck SUV	1999	46.2	46.5	46.6	45.5	42.4	40.7			42.7		47.3	50.9		44.4
Lab 55/45 Ton-MPG	Truck	Truck SUV	2000	48.3	46.4	47.3	46.1	42.8	40.2			41.3	43.6	48.7	56.3		45.2
Lab 55/45 Ton-MPG	Truck	Truck SUV	2001	48.5	47.4	48.4	46.4	43.2	40.6	47.9		40.2	46.1	48.8	57.2	41.3	46.0
Lab 55/45 Ton-MPG	Truck	Truck SUV	2002	49.9	47.8	49.3	44.5	43.2	42.4	47.1		40.8	50.4	48.9	47.8	41.7	46.6
Lab 55/45 Ton-MPG	Truck	Truck SUV	2003	50.5	48.4	50.1	46.9	46.5	44.7	46.7		43.6	50.2	48.2	48.3	41.4	48.2
Lab 55/45 Ton-MPG	Truck	Truck SUV	2004	51.4	50.5	49.7	47.1	48.4	43.3	45.8	52.4	44.9	48.3	47.7	52.0	41.4	48.5
Lab 55/45 Ton-MPG	Truck	Truck SUV	2005	52.5	51.5	49.5	48.1	50.3	45.2	46.1	54.8	46.0	48.4	50.2	47.3	47.1	49.6
Lab 55/45 Ton-MPG	Truck	Truck SUV	2006	51.3	57.0	50.2	50.1	51.1	46.1	48.1	55.7	46.4	48.1	50.9	52.7	47.8	50.9
Lab 55/45 Ton-MPG	Truck	Truck SUV	2007	56.9	54.8	53.2	50.2	52.4	48.0	53.8	54.5	49.2	53.5	50.6	53.9	48.9	53.1
Lab 55/45 Ton-MPG	Truck	Truck SUV	2008	56.6	58.1	53.7	51.8	53.8	49.1	54.4	56.4	49.5	54.4	51.2	57.4	50.5	54.0
Lab 55/45 Ton-MPG	Truck	Truck SUV	2009	59.1	59.0	54.8	54.2	55.3	49.7	55.6	55.4	51.7	56.9	50.7	56.4	50.4	55.1
Lab 55/45 Ton-MPG	Truck	Truck SUV	2010	62.4	61.1	57.4	54.9	55.0	49.6	57.7	57.4	51.4	59.0	54.9	55.1	51.1	56.6
Lab 55/45 Ton-MPG	Truck	Truck SUV	2011	62.6	60.2	57.2	57.9	57.0	53.4	NA	61.5	NA	63.4	58.3	56.4	54.5	58.2
Lab 55/45 Ton-MPG	Truck	Truck SUV	2012	63.2	60.6	59.5	58.8	57.1	54.0	NA	63.7	NA	61.4	57.7	60.0	55.0	58.6
Lab 55/45 Ton-MPG	Truck	Pickup	1975	29.6	29.3		26.9	32.5	28.5							25.8	28.8
Lab 55/45 Ton-MPG	Truck	Pickup	1976	31.1	31.1		30.2	33.8	30.7							28.0	30.9
Lab 55/45 Ton-MPG	Truck	Pickup	1977	32.5	37.8		34.6	34.4	31.5							39.0	33.4
Lab 55/45 Ton-MPG	Truck	Pickup	1978	31.9	35.3		34.6	35.7	30.9					34.2		47.7	33.1
Lab 55/45 Ton-MPG	Truck	Pickup	1979	35.0	27.5		31.5	32.4	31.2					34.5		45.3	32.9
Lab 55/45 Ton-MPG	Truck	Pickup	1980	38.9	30.9		37.0	35.8	34.2		37.6			32.5		43.8	36.7

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45 Ton-MPG	Truck	Pickup	1981	40.5	38.7		38.1	40.9	35.6		43.6			35.5		44.7	39.3
Lab 55/45 Ton-MPG	Truck	Pickup	1982	42.3	39.0		36.9	40.9	37.2		46.2			37.3		46.3	40.1
Lab 55/45 Ton-MPG	Truck	Pickup	1983	42.2	38.8		37.2	42.0	39.5		43.5			37.2		44.6	40.0
Lab 55/45 Ton-MPG	Truck	Pickup	1984	41.3	38.3		37.5	41.7	36.2					37.4		42.7	39.4
Lab 55/45 Ton-MPG	Truck	Pickup	1985	40.4	42.2		38.2	40.3	36.1					37.0			39.6
Lab 55/45 Ton-MPG	Truck	Pickup	1986	40.8	41.6		39.4	39.9	37.4					37.5		41.6	40.1
Lab 55/45 Ton-MPG	Truck	Pickup	1987	40.2	41.6		39.8	39.9	38.9					37.2		40.3	40.1
Lab 55/45 Ton-MPG	Truck	Pickup	1988	41.2	40.1		40.4	40.1	38.5							40.0	40.5
Lab 55/45 Ton-MPG	Truck	Pickup	1989	41.0	40.0		41.4	40.2	37.2							40.0	40.5
Lab 55/45 Ton-MPG	Truck	Pickup	1990	41.0	39.6		42.0	43.1	38.7							40.4	41.1
Lab 55/45 Ton-MPG	Truck	Pickup	1991	41.2	40.8		42.3	43.1	38.4							40.6	41.4
Lab 55/45 Ton-MPG	Truck	Pickup	1992	41.6	40.3		43.4	43.3	39.0							40.6	41.8
Lab 55/45 Ton-MPG	Truck	Pickup	1993	42.2	40.8		43.8	43.2	39.0							40.1	42.4
Lab 55/45 Ton-MPG	Truck	Pickup	1994	42.9	41.4		44.1	42.7	41.0							44.0	43.0
Lab 55/45 Ton-MPG	Truck	Pickup	1995	43.6	41.2		44.2	42.0	40.5							48.4	43.1
Lab 55/45 Ton-MPG	Truck	Pickup	1996	46.2	41.3		44.0	42.2	40.8								43.9
Lab 55/45 Ton-MPG	Truck	Pickup	1997	47.2	41.7		45.7	41.7	42.2								45.3
Lab 55/45 Ton-MPG	Truck	Pickup	1998	45.9	40.8		44.6	46.1	43.1							45.4	44.6
Lab 55/45 Ton-MPG	Truck	Pickup	1999	47.1	41.2		43.5	44.3	42.5							44.6	44.7
Lab 55/45 Ton-MPG	Truck	Pickup	2000	45.9	42.5		44.1	43.1	43.0							43.8	44.4
Lab 55/45 Ton-MPG	Truck	Pickup	2001	46.7	42.9		45.0	43.5	42.6							42.2	44.7
Lab 55/45 Ton-MPG	Truck	Pickup	2002	47.5	43.3		45.2	43.6	44.9							44.6	45.6
Lab 55/45 Ton-MPG	Truck	Pickup	2003	47.2	43.6		46.0	44.3	46.5					50.9		47.0	46.3
Lab 55/45 Ton-MPG	Truck	Pickup	2004	49.5	44.2		49.6	45.1	46.1					51.3		47.0	48.2
Lab 55/45 Ton-MPG	Truck	Pickup	2005	49.9	48.3		50.4	47.5	46.4					52.0		46.8	49.1
Lab 55/45 Ton-MPG	Truck	Pickup	2006	50.4	48.6	48.1	50.8	47.6	49.5					52.9		48.0	49.8
Lab 55/45 Ton-MPG	Truck	Pickup	2007	53.0	52.2	48.1	51.0	48.0	50.3							48.1	51.6
Lab 55/45 Ton-MPG	Truck	Pickup	2008	54.8	52.2	48.1	51.2	49.7	55.1							48.2	53.0
Lab 55/45 Ton-MPG	Truck	Pickup	2009	55.4	51.2	49.4	55.2	50.0	54.0							51.6	54.3
Lab 55/45 Ton-MPG	Truck	Pickup	2010	57.2	54.0	49.4	56.6	50.3	53.2								55.5
Lab 55/45 Ton-MPG	Truck	Pickup	2011	57.6	53.7	49.4	58.4	49.9	53.2								56.3
Lab 55/45 Ton-MPG	Truck	Pickup	2012	55.6	54.4	56.5	62.9	50.2	54.9								57.1
Lab 55/45 Ton-MPG	Truck	All	1975	29.7	29.4		26.8	32.5	27.1		36.2					25.8	28.5
Lab 55/45 Ton-MPG	Truck	All	1976	31.1	31.0		29.8	33.8	29.8		34.9					28.0	30.5
Lab 55/45 Ton-MPG	Truck	All	1977	32.7	37.7		34.1	34.4	30.4		38.9					39.0	33.0
Lab 55/45 Ton-MPG	Truck	All	1978	31.9	35.1		33.8	35.7	29.6		35.0			34.2		47.7	32.4

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45 Ton-MPG	Truck	All	1979	34.1	27.5		30.8	32.4	30.1		32.9			34.5		45.3	32.1
Lab 55/45 Ton-MPG	Truck	All	1980	38.4	30.9		36.9	35.8	33.0		36.4			32.5		43.8	36.3
Lab 55/45 Ton-MPG	Truck	All	1981	40.4	38.6		38.0	40.9	34.7		41.2			35.5		44.7	38.8
Lab 55/45 Ton-MPG	Truck	All	1982	42.6	38.8		36.8	40.9	36.1		44.1			37.3		46.3	39.7
Lab 55/45 Ton-MPG	Truck	All	1983	43.0	38.7		37.1	42.0	37.6		36.2			37.2		44.6	39.9
Lab 55/45 Ton-MPG	Truck	All	1984	41.9	39.4		37.2	41.7	36.4		37.5			37.4		42.7	39.3
Lab 55/45 Ton-MPG	Truck	All	1985	41.3	42.4		37.9	40.3	37.5		39.0			37.0			39.6
Lab 55/45 Ton-MPG	Truck	All	1986	41.1	42.6		40.0	39.9	38.8		36.2			37.5		41.6	40.4
Lab 55/45 Ton-MPG	Truck	All	1987	41.1	41.8		40.4	39.4	39.7		36.2			37.2		40.3	40.5
Lab 55/45 Ton-MPG	Truck	All	1988	41.9	40.5		40.8	39.4	40.4		38.6					40.0	40.9
Lab 55/45 Ton-MPG	Truck	All	1989	42.0	40.4		41.9	39.8	40.1		42.2					41.3	41.3
Lab 55/45 Ton-MPG	Truck	All	1990	42.4	40.3		41.9	42.5	41.6		41.9					40.5	41.8
Lab 55/45 Ton-MPG	Truck	All	1991	42.3	42.2		43.0	42.2	41.8		42.1					41.1	42.3
Lab 55/45 Ton-MPG	Truck	All	1992	42.5	40.8		43.6	42.0	42.1							42.2	42.6
Lab 55/45 Ton-MPG	Truck	All	1993	43.5	41.0		44.2	42.9	42.3		43.7					42.0	43.2
Lab 55/45 Ton-MPG	Truck	All	1994	44.2	40.9	40.2	44.2	42.8	41.5		42.8					43.9	43.2
Lab 55/45 Ton-MPG	Truck	All	1995	44.5	41.3	44.7	44.7	42.2	40.2		48.9	42.6				46.4	43.3
Lab 55/45 Ton-MPG	Truck	All	1996	46.7	41.7	46.2	44.5	42.4	42.9			40.3				42.9	44.5
Lab 55/45 Ton-MPG	Truck	All	1997	47.5	41.5	45.8	45.3	42.8	43.1		50.8	42.0				42.9	45.1
Lab 55/45 Ton-MPG	Truck	All	1998	46.5	43.5	46.2	45.3	44.6	43.6			42.7		46.9	48.0	44.7	45.1
Lab 55/45 Ton-MPG	Truck	All	1999	47.0	44.9	49.1	45.0	43.8	43.8		46.7	42.7		47.3	50.9	44.6	45.4
Lab 55/45 Ton-MPG	Truck	All	2000	47.0	45.2	50.9	45.7	43.4	44.1		48.5	41.3	43.6	48.7	56.3	45.2	45.8
Lab 55/45 Ton-MPG	Truck	All	2001	47.9	45.9	51.0	45.9	43.5	44.8	47.9	50.0	40.2	46.1	48.8	57.2	43.5	46.3
Lab 55/45 Ton-MPG	Truck	All	2002	48.9	46.3	51.8	45.4	43.5	46.3	47.1	48.3	47.1	50.4	48.9	47.8	44.5	47.0
Lab 55/45 Ton-MPG	Truck	All	2003	49.2	46.6	51.5	47.0	45.8	48.0	46.7	47.6	47.1	50.2	48.7	48.3	45.5	48.1
Lab 55/45 Ton-MPG	Truck	All	2004	50.6	50.3	51.0	48.6	48.9	45.5	45.8	52.4	49.1	48.3	47.8	52.0	45.5	49.0
Lab 55/45 Ton-MPG	Truck	All	2005	51.2	51.3	52.3	49.9	49.8	48.3	46.1	54.8	49.9	48.4	50.4	47.3	47.2	50.2
Lab 55/45 Ton-MPG	Truck	All	2006	51.1	53.8	52.5	50.7	50.1	49.3	48.1	55.7	49.4	48.1	51.1	52.7	47.6	51.2
Lab 55/45 Ton-MPG	Truck	All	2007	55.0	54.3	53.5	50.9	51.2	49.6	53.8	54.5	52.2	53.5	50.6	53.9	48.8	52.8
Lab 55/45 Ton-MPG	Truck	All	2008	55.5	56.2	54.0	51.6	52.5	52.2	54.4	56.4	51.9	54.4	51.2	57.4	51.2	53.9
Lab 55/45 Ton-MPG	Truck	All	2009	56.9	56.5	56.0	54.8	54.3	52.6	55.6	55.4	52.5	56.9	50.7	56.4	51.8	55.1
Lab 55/45 Ton-MPG	Truck	All	2010	59.6	58.6	58.0	55.9	53.6	52.7	57.7	57.4	54.5	59.0	54.9	55.1	52.0	56.3
Lab 55/45 Ton-MPG	Truck	All	2011	60.1	58.3	58.0	58.0	55.6	54.2	NA	61.5	NA	63.4	58.3	56.4	54.5	57.8
Lab 55/45 Ton-MPG	Truck	All	2012	59.0	58.4	60.2	60.5	57.0	55.3	NA	63.7	NA	61.4	57.7	60.0	55.0	58.2
Lab 55/45 Ton-MPG	All	All	1975	33.2	29.8	31.5	29.0	33.1	31.4		31.6		28.4	31.2	36.2	24.6	31.6
Lab 55/45 Ton-MPG	All	All	1976	35.4	33.7	33.2	34.0	34.8	33.1		32.6		29.2	35.3	39.0	31.4	34.4

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Lab 55/45 Ton-MPG	All	All	1977	36.4	37.9	37.9	35.6	35.3	33.5		35.1		30.5	35.8	40.1	38.2	35.7
Lab 55/45 Ton-MPG	All	All	1978	35.3	35.4	36.3	35.4	34.8	33.7		34.1		29.5	35.7	39.8	41.2	35.1
Lab 55/45 Ton-MPG	All	All	1979	35.8	31.7	33.6	33.5	33.6	34.2		36.0		30.8	35.4	43.7	34.4	34.7
Lab 55/45 Ton-MPG	All	All	1980	37.3	35.1	34.2	36.0	38.2	34.6		39.1		38.8	34.0	46.4	34.8	36.6
Lab 55/45 Ton-MPG	All	All	1981	40.1	39.6	36.3	36.6	39.3	36.8		43.3		38.9	37.5	49.3	39.3	38.9
Lab 55/45 Ton-MPG	All	All	1982	41.3	39.2	39.7	37.4	40.2	38.8		43.5		38.4	40.0	52.6	39.2	40.0
Lab 55/45 Ton-MPG	All	All	1983	41.1	42.5	42.3	37.9	41.8	39.9		39.3		38.5	40.0	46.7	39.7	40.5
Lab 55/45 Ton-MPG	All	All	1984	41.2	42.8	42.2	39.6	42.4	38.8		38.6		39.3	40.3	44.0	41.1	40.7
Lab 55/45 Ton-MPG	All	All	1985	42.2	43.8	41.4	40.6	40.6	39.7		40.7		40.8	40.2	43.8	39.2	41.4
Lab 55/45 Ton-MPG	All	All	1986	42.6	43.8	43.3	41.9	41.1	40.4	43.7	39.8		40.7	40.3	39.5	40.8	42.0
Lab 55/45 Ton-MPG	All	All	1987	43.0	45.0	43.4	42.1	41.7	40.0	43.2	39.0		39.1	40.4	41.3	40.3	42.1
Lab 55/45 Ton-MPG	All	All	1988	43.8	44.0	44.4	42.9	41.9	41.3	43.0	40.4		38.4	41.2	38.9	40.8	42.9
Lab 55/45 Ton-MPG	All	All	1989	43.3	43.9	44.1	43.6	42.2	41.7	42.9	41.4		38.0	41.5	40.2	41.9	43.0
Lab 55/45 Ton-MPG	All	All	1990	43.8	44.0	44.2	43.7	42.9	42.7	43.8	41.9		39.2	43.1	41.0	42.3	43.5
Lab 55/45 Ton-MPG	All	All	1991	43.5	44.0	44.5	44.2	44.2	42.8	43.2	43.4		40.7	43.4	43.1	42.6	43.6
Lab 55/45 Ton-MPG	All	All	1992	43.6	43.6	47.3	44.9	44.8	42.8	43.2	43.0		43.4	44.7	43.9	43.6	44.1
Lab 55/45 Ton-MPG	All	All	1993	44.3	44.2	48.3	45.3	44.5	42.5	43.4	42.0	43.6	45.6	44.3	47.4	43.5	44.5
Lab 55/45 Ton-MPG	All	All	1994	44.7	44.1	49.0	45.3	44.7	42.3	43.8	43.4	45.3	45.6	44.7	48.5	43.9	44.6
Lab 55/45 Ton-MPG	All	All	1995	45.2	46.0	49.3	45.9	44.6	42.2	43.7	44.6	42.7	47.1	45.5	50.6	46.0	45.2
Lab 55/45 Ton-MPG	All	All	1996	46.5	45.7	48.6	45.3	46.0	43.6	44.6	44.9	40.1	46.7	45.7	50.9	45.8	45.6
Lab 55/45 Ton-MPG	All	All	1997	46.8	46.2	48.4	45.7	45.2	43.8	43.9	45.4	42.1	45.5	46.5	50.4	45.0	45.9
Lab 55/45 Ton-MPG	All	All	1998	46.4	47.9	50.3	45.5	48.0	44.1	43.5	46.8	42.4	45.2	46.8	51.5	45.2	46.3
Lab 55/45 Ton-MPG	All	All	1999	46.7	48.4	49.7	45.7	47.8	44.7	44.9	46.5	42.4	46.2	47.0	51.2	44.3	46.5
Lab 55/45 Ton-MPG	All	All	2000	47.2	48.0	49.9	46.2	45.4	44.9	45.4	47.2	41.0	45.3	48.1	51.8	44.7	46.7
Lab 55/45 Ton-MPG	All	All	2001	48.1	49.0	51.5	46.0	45.1	45.6	48.0	47.5	41.5	46.2	51.0	50.8	44.1	47.3
Lab 55/45 Ton-MPG	All	All	2002	48.7	49.4	51.8	46.0	46.7	46.3	48.1	50.2	44.6	48.4	50.0	47.9	45.2	47.9
Lab 55/45 Ton-MPG	All	All	2003	49.3	50.0	53.3	47.3	47.4	47.9	48.0	51.3	45.9	48.1	50.1	48.3	46.5	49.0
Lab 55/45 Ton-MPG	All	All	2004	50.1	52.5	53.1	48.2	49.3	46.9	48.0	51.3	47.8	47.4	49.2	49.2	46.1	49.7
Lab 55/45 Ton-MPG	All	All	2005	50.8	55.1	53.9	49.6	51.0	48.7	48.3	53.0	48.7	47.6	49.5	48.7	47.7	50.9
Lab 55/45 Ton-MPG	All	All	2006	51.0	55.7	54.9	50.2	50.9	49.6	51.9	55.7	50.3	49.0	50.3	50.8	48.7	51.7
Lab 55/45 Ton-MPG	All	All	2007	53.2	58.2	55.2	50.7	53.8	50.4	53.4	53.4	52.3	51.6	50.3	50.8	49.4	53.4
Lab 55/45 Ton-MPG	All	All	2008	53.8	59.5	56.1	52.0	54.9	52.5	53.9	53.5	52.7	52.4	50.9	52.3	50.4	54.4
Lab 55/45 Ton-MPG	All	All	2009	55.3	60.1	56.9	54.4	56.4	52.8	55.8	57.4	53.5	53.6	50.8	51.9	51.6	55.9
Lab 55/45 Ton-MPG	All	All	2010	57.6	66.4	58.8	56.4	56.5	53.0	57.6	60.7	54.8	54.2	54.5	52.8	53.6	58.3
Lab 55/45 Ton-MPG	All	All	2011	58.9	63.5	59.0	58.2	57.3	54.4	NA	62.1	NA	57.9	56.8	53.5	53.7	58.8
Lab 55/45 Ton-MPG	All	All	2012	59.9	66.9	62.1	60.5	58.2	55.4	NA	61.6	NA	60.5	58.6	58.4	56.2	60.6

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler- Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Engine Size (CID)	Car	Car	1975	344.2	129.1	83.4	307.5	117.0	283.7		94.1		161.2	83.0	205.3	152.0	292.7
Engine Size (CID)	Car	Car	1976	329.3	115.6	83.1	304.3	112.3	281.7		97.8		158.7	87.3	195.6	142.4	287.8
Engine Size (CID)	Car	Car	1977	314.0	108.1	87.5	322.4	110.7	289.7		96.9		148.4	97.0	199.3	104.9	280.8
Engine Size (CID)	Car	Car	1978	288.3	112.4	90.2	281.6	110.1	244.3		94.4		147.2	97.0	208.5	79.5	252.3
Engine Size (CID)	Car	Car	1979	283.4	113.3	97.7	249.9	111.6	214.1		94.5		149.6	97.0	204.3	116.9	238.9
Engine Size (CID)	Car	Car	1980	222.6	115.0	100.4	206.4	105.9	178.7		97.5		135.5	99.4	196.3	115.1	187.7
Engine Size (CID)	Car	Car	1981	224.2	113.7	100.5	193.6	114.0	156.1		104.1		130.9	105.2	184.2	113.1	183.6
Engine Size (CID)	Car	Car	1982	209.5	117.9	101.1	180.9	118.2	167.8		105.3		142.4	106.6	185.6	116.9	174.6
Engine Size (CID)	Car	Car	1983	221.9	123.6	101.8	207.9	117.5	155.1		109.2		146.0	107.6	167.1	120.0	184.8
Engine Size (CID)	Car	Car	1984	210.4	118.4	105.0	199.2	124.6	143.7		113.6		142.7	107.4	165.9	117.9	180.0
Engine Size (CID)	Car	Car	1985	207.8	121.8	104.8	199.7	128.4	150.7		114.5		160.2	108.3	195.9	118.3	178.7
Engine Size (CID)	Car	Car	1986	189.8	115.9	108.4	191.8	129.2	147.2	90.0	115.0		174.8	108.0	225.7	122.1	167.8
Engine Size (CID)	Car	Car	1987	191.0	114.5	109.6	188.4	124.7	152.9	90.0	113.9		171.2	104.4	219.0	123.5	161.7
Engine Size (CID)	Car	Car	1988	179.6	111.2	114.9	190.8	117.4	153.3	90.0	112.9		185.1	101.1	219.8	129.1	160.1
Engine Size (CID)	Car	Car	1989	186.3	114.6	112.7	185.9	124.5	152.2	98.5	113.3		176.2	98.4	216.4	125.5	162.2
Engine Size (CID)	Car	Car	1990	182.8	122.2	119.7	196.1	144.2	160.9	103.5	117.6		178.7	120.7	205.0	122.7	162.9
Engine Size (CID)	Car	Car	1991	187.3	120.7	122.6	183.2	143.3	161.3	102.8	115.6		164.4	120.3	205.0	122.5	162.8
Engine Size (CID)	Car	Car	1992	191.9	128.8	124.8	202.8	136.9	162.6	101.8	121.5		156.2	135.2	206.9	120.8	169.7
Engine Size (CID)	Car	Car	1993	188.7	131.9	118.9	190.0	138.2	169.0	105.4	141.5	98.0	161.2	120.0	206.0	124.7	167.3
Engine Size (CID)	Car	Car	1994	185.5	130.9	120.5	202.7	134.8	179.7	98.2	130.6	98.0	163.9	128.9	210.5	122.8	168.3
Engine Size (CID)	Car	Car	1995	191.2	134.9	116.7	195.2	148.1	156.6	110.1	132.6	101.6	167.3	130.5	203.0	119.7	167.8
Engine Size (CID)	Car	Car	1996	188.3	134.4	123.9	198.3	144.9	157.5	101.6	133.4	111.4	161.0	136.4	194.0	115.2	165.8
Engine Size (CID)	Car	Car	1997	183.4	136.7	122.1	195.8	145.8	159.4	108.3	132.8	111.1	181.7	139.4	208.3	115.7	164.4
Engine Size (CID)	Car	Car	1998	191.6	143.1	128.3	183.8	146.3	143.9	108.4	131.5	109.0	184.4	142.7	190.4	118.1	164.5
Engine Size (CID)	Car	Car	1999	190.1	141.9	135.1	187.3	148.1	163.2	117.5	130.5	109.0	178.5	143.3	197.4	118.4	166.3
Engine Size (CID)	Car	Car	2000	193.1	140.6	134.1	191.0	157.9	154.0	119.5	130.8	109.0	179.7	148.9	222.2	118.1	166.0
Engine Size (CID)	Car	Car	2001	191.4	140.5	134.4	194.0	149.5	160.2	123.2	131.2	108.2	185.2	149.3	223.9	123.1	165.5
Engine Size (CID)	Car	Car	2002	194.5	153.9	135.7	189.1	164.8	162.0	128.2	127.2	110.0	174.2	138.1	208.6	126.6	166.5
Engine Size (CID)	Car	Car	2003	194.0	142.6	141.2	200.6	177.4	150.6	132.6	127.2	112.6	167.9	142.3	221.5	134.1	167.4
Engine Size (CID)	Car	Car	2004	192.8	147.1	139.5	215.6	176.8	158.6	139.5	133.9	136.5	171.0	141.7	214.0	149.9	169.6
Engine Size (CID)	Car	Car	2005	195.5	140.9	140.7	195.8	166.1	177.1	134.0	143.2	138.6	163.0	147.8	201.3	134.8	167.1
Engine Size (CID)	Car	Car	2006	202.2	143.6	139.2	196.5	166.1	226.1	162.7	145.7	128.9	185.0	150.0	226.4	137.9	174.0
Engine Size (CID)	Car	Car	2007	192.9	146.2	139.1	187.4	163.0	184.8	149.1	151.4	126.8	185.1	150.4	242.6	133.1	166.7
Engine Size (CID)	Car	Car	2008	196.7	142.0	141.7	194.0	161.0	179.6	134.6	150.7	126.2	185.2	150.7	219.2	130.8	166.9
Engine Size (CID)	Car	Car	2009	184.3	133.6	140.2	176.0	157.3	199.9	144.1	143.9	121.1	172.2	150.5	212.5	143.5	157.4
Engine Size (CID)	Car	Car	2010	197.4	131.3	138.4	176.9	158.3	207.2	132.9	139.3	125.9	169.4	156.8	222.2	138.4	158.5

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Engine Size (CID)	Car	Car	2011	178.7	145.2	140.0	175.9	157.3	223.5	140.6	142.7	129.7	177.3	156.7	218.7	130.3	161.9
Engine Size (CID)	Car	Car	2012	169.1	136.8	138.0	152.1	151.8	181.2	119.5	145.9	126.7	161.3	151.2	197.9	136.9	150.2
Engine Size (CID)	Car	Wagon	1975	326.6	113.4		325.7	119.0	283.1		89.0			83.0		131.0	255.5
Engine Size (CID)	Car	Wagon	1976	335.7	113.9	91.0	315.0	109.3	274.8		97.0			89.7		136.7	275.7
Engine Size (CID)	Car	Wagon	1977	324.6	108.9	91.0	325.6	110.1	277.7		96.2			97.0		107.3	265.8
Engine Size (CID)	Car	Wagon	1978	299.3	113.8	91.0	260.7	115.3	255.0		97.0			97.0		160.0	243.5
Engine Size (CID)	Car	Wagon	1979	292.2	107.4	91.0	232.9	96.1	257.2		97.0			97.0	183.0	86.0	234.3
Engine Size (CID)	Car	Wagon	1980	283.8	114.3	91.0	205.2	97.6	239.7		90.3			98.3	183.0	86.0	189.5
Engine Size (CID)	Car	Wagon	1981	286.7	115.6	91.0	148.0	104.7	169.5		97.0			109.0	183.0	91.0	164.9
Engine Size (CID)	Car	Wagon	1982	247.9	114.9	91.0	166.9	105.0	156.6		104.5			109.0	183.0	91.0	178.1
Engine Size (CID)	Car	Wagon	1983	230.0	96.9	91.0	172.4	106.5	150.3		108.3			109.0	183.0	91.0	160.8
Engine Size (CID)	Car	Wagon	1984	194.9	94.8	91.0	185.4	106.0	139.8		124.9			109.0	183.0	91.0	165.8
Engine Size (CID)	Car	Wagon	1985	202.4	98.1	91.0	182.4	123.0	141.3		120.8			109.0	183.0	91.0	158.0
Engine Size (CID)	Car	Wagon	1986	196.9	98.4	91.0	171.9	120.2	158.2		136.0			109.0		91.0	162.0
Engine Size (CID)	Car	Wagon	1987	204.9	115.7	91.0	172.3	127.7	155.3		123.7			109.0	183.0	98.0	161.7
Engine Size (CID)	Car	Wagon	1988	209.0	113.4	93.4	177.2	121.6	139.2		111.1			109.0	181.0	98.0	163.4
Engine Size (CID)	Car	Wagon	1989	207.7	114.7	91.9	188.7	98.0	101.7		115.7			109.0	181.0	98.0	171.1
Engine Size (CID)	Car	Wagon	1990	205.7	115.5	91.9	192.9	98.0	93.4		117.6			127.2	181.0		165.3
Engine Size (CID)	Car	Wagon	1991	227.7	111.3	119.0	162.3				122.5			126.1	181.0		158.0
Engine Size (CID)	Car	Wagon	1992	249.9	121.9	132.0	173.3				128.6		152.0	125.0	181.0		170.7
Engine Size (CID)	Car	Wagon	1993	210.4	129.6	132.0	144.0		129.3		169.7		152.0	124.8	191.2		150.1
Engine Size (CID)	Car	Wagon	1994	197.6	130.1	132.0	146.2				169.4		170.4	129.3	195.0		153.8
Engine Size (CID)	Car	Wagon	1995	197.5	131.4	132.0	140.1				166.0		154.0	133.5	195.0		146.9
Engine Size (CID)	Car	Wagon	1996	197.1	131.1	132.0	155.9			110.0	156.2			140.9			154.8
Engine Size (CID)	Car	Wagon	1997	116.0		132.0	146.2			109.0	168.2			143.7			142.2
Engine Size (CID)	Car	Wagon	1998	116.0			147.8			110.0	149.8			145.1	195.0		143.0
Engine Size (CID)	Car	Wagon	1999	116.0			162.1			121.0	130.9		189.4	145.2	195.0		147.7
Engine Size (CID)	Car	Wagon	2000	145.3			151.8			121.0	153.8		169.3	148.4	195.0		147.2
Engine Size (CID)	Car	Wagon	2001	146.5			146.2		148.0		149.7		158.6	154.9	195.0		150.3
Engine Size (CID)	Car	Wagon	2002	156.3			144.9		148.0		137.7		159.9	150.9	195.0		148.5
Engine Size (CID)	Car	Wagon	2003	114.3	110.0		147.5		148.0		134.9		158.3	153.5	173.2		135.1
Engine Size (CID)	Car	Wagon	2004	111.9	104.4		158.7		180.5		136.5		152.0	152.6	203.8	183.0	150.9
Engine Size (CID)	Car	Wagon	2005	116.2	100.9		132.9		202.4		134.6		152.0	152.6	205.9	183.0	157.6
Engine Size (CID)	Car	Wagon	2006	130.3	98.5		121.0		184.5		136.4		183.0	152.8	221.3	143.1	153.5
Engine Size (CID)	Car	Wagon	2007	131.0	110.0	91.0	121.0		190.4		140.3	152.5	183.0	151.4	219.0	141.5	148.4
Engine Size (CID)	Car	Wagon	2008	131.2	134.4	91.0			167.8		140.7	156.2	183.0	151.3	210.9		141.9

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Engine Size (CID)	Car	Wagon	2009	134.5	132.7	91.0		110.0	144.0	121.0	128.7	145.0	183.0	150.6	211.3		129.2
Engine Size (CID)	Car	Wagon	2010	136.8	130.7	92.0		144.3	127.1	122.0	123.8	121.4	183.0	153.0			125.4
Engine Size (CID)	Car	Wagon	2011	239.7	139.1	95.6		112.0	123.1	122.0	125.2	119.6	183.0	153.0	213.0		122.1
Engine Size (CID)	Car	Wagon	2012	218.3	124.0	94.8		116.3	123.8	122.0	124.3	114.4	183.0	124.6	221.3		116.7
Engine Size (CID)	Car	Non-Truck SUV	1975	250.3	257.0				302.7								261.6
Engine Size (CID)	Car	Non-Truck SUV	1976	260.9	258.0				298.0								263.3
Engine Size (CID)	Car	Non-Truck SUV	1977	268.6	258.0				276.3								261.0
Engine Size (CID)	Car	Non-Truck SUV	1978	270.4	258.0				296.4								262.3
Engine Size (CID)	Car	Non-Truck SUV	1979		258.0				132.9								185.1
Engine Size (CID)	Car	Non-Truck SUV	1980						279.3								280.2
Engine Size (CID)	Car	Non-Truck SUV	1981						318.0								318.0
Engine Size (CID)	Car	Non-Truck SUV	1982	207.0					151.0								158.6
Engine Size (CID)	Car	Non-Truck SUV	1983	170.4					150.6								163.0
Engine Size (CID)	Car	Non-Truck SUV	1984	171.9					220.0								179.5
Engine Size (CID)	Car	Non-Truck SUV	1985	171.7					157.8								170.9
Engine Size (CID)	Car	Non-Truck SUV	1986	171.4			179.0		164.0								169.8
Engine Size (CID)	Car	Non-Truck SUV	1987	171.4			179.0		223.0								178.9
Engine Size (CID)	Car	Non-Truck SUV	1988	203.7			179.0		232.5								199.2
Engine Size (CID)	Car	Non-Truck SUV	1989	245.8			179.0		237.3								226.0
Engine Size (CID)	Car	Non-Truck SUV	1990	230.5	173.0		179.0		236.6								208.7
Engine Size (CID)	Car	Non-Truck SUV	1991	225.3	177.6		231.0		239.4								214.9
Engine Size (CID)	Car	Non-Truck SUV	1992	197.5	180.0		231.0		240.5							231.0	209.9
Engine Size (CID)	Car	Non-Truck SUV	1993	202.6	180.0		231.0		264.2							231.0	238.3
Engine Size (CID)	Car	Non-Truck SUV	1994	198.2		183.3	231.0		235.8							231.0	208.9
Engine Size (CID)	Car	Non-Truck SUV	1995	212.0	180.0		244.0		242.0			122.0					214.0
Engine Size (CID)	Car	Non-Truck SUV	1996	217.7	163.9	188.5	244.0		237.5			122.0					215.0
Engine Size (CID)	Car	Non-Truck SUV	1997	222.4	135.1	193.0	244.0		248.3			122.0					189.5
Engine Size (CID)	Car	Non-Truck SUV	1998	221.3	124.2	142.8	244.0		244.4			122.0					218.3
Engine Size (CID)	Car	Non-Truck SUV	1999	215.6	149.4	142.7	244.0		240.0			122.0					210.5
Engine Size (CID)	Car	Non-Truck SUV	2000	227.7	158.1	139.4	244.0	197.7	246.9			122.0					211.5
Engine Size (CID)	Car	Non-Truck SUV	2001	196.3	149.7	135.3	218.7	197.7	247.0	153.9		122.0				175.7	193.6
Engine Size (CID)	Car	Non-Truck SUV	2002	201.8	143.8	148.2	197.8	194.8	243.6	157.5		122.0				177.7	183.1
Engine Size (CID)	Car	Non-Truck SUV	2003	175.0	137.6	144.0	194.3	205.0	231.6	163.1						178.8	181.2
Engine Size (CID)	Car	Non-Truck SUV	2004	204.4	178.8	144.0	180.1	203.2	224.2	169.0						178.0	191.0
Engine Size (CID)	Car	Non-Truck SUV	2005	200.4	172.1	144.0	165.8	224.2	224.1	162.4		149.5				164.2	185.9
Engine Size (CID)	Car	Non-Truck SUV	2006	198.4	167.5	144.0	162.4	225.9	226.0	157.3		146.5				155.7	183.6

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Engine Size (CID)	Car	Non-Truck SUV	2007	197.3	183.8	144.0	188.8	224.8	226.5	175.3		168.9				140.0	185.4
Engine Size (CID)	Car	Non-Truck SUV	2008	194.4	180.8	144.0	180.0	191.2		174.8		168.2				143.4	178.6
Engine Size (CID)	Car	Non-Truck SUV	2009	191.2	182.0	144.0	176.4	193.8	144.1	174.0		167.7				145.3	175.3
Engine Size (CID)	Car	Non-Truck SUV	2010	160.7	184.2	145.6	184.1	186.4	146.0	166.5		125.8			213.0	151.5	171.5
Engine Size (CID)	Car	Non-Truck SUV	2011	154.4	177.1	145.5	188.4	175.7		165.6		163.1			213.0	152.6	165.8
Engine Size (CID)	Car	Non-Truck SUV	2012	155.1	178.1	145.7	176.1	178.6		168.6		157.2			213.0	151.9	163.4
Engine Size (CID)	Car	All	1975	342.8	123.8	83.4	309.6	117.1	283.6		93.4		161.2	83.0	205.3	139.8	288.3
Engine Size (CID)	Car	All	1976	329.7	118.2	83.8	305.5	111.9	280.4		97.8		158.7	88.1	195.6	140.4	286.5
Engine Size (CID)	Car	All	1977	314.8	112.6	88.0	322.6	110.6	286.9		96.9		148.4	97.0	199.3	105.3	279.1
Engine Size (CID)	Car	All	1978	289.2	116.4	90.3	279.4	110.9	246.1		94.5		147.2	97.0	208.5	80.4	251.4
Engine Size (CID)	Car	All	1979	284.2	114.1	97.2	248.2	108.9	217.9		94.6		149.6	97.0	203.4	112.9	238.3
Engine Size (CID)	Car	All	1980	225.1	115.0	99.6	206.3	104.7	182.7		97.2		135.5	98.9	195.5	112.4	187.8
Engine Size (CID)	Car	All	1981	226.6	113.9	99.7	185.3	112.7	157.7		103.9		130.9	107.0	184.2	111.4	181.9
Engine Size (CID)	Car	All	1982	212.8	117.7	100.2	178.9	116.7	166.3		105.3		142.4	107.8	185.5	116.0	174.9
Engine Size (CID)	Car	All	1983	222.2	114.8	101.0	203.0	116.2	154.6		109.2		146.0	108.3	167.4	119.1	181.9
Engine Size (CID)	Car	All	1984	208.6	115.9	104.3	197.8	122.7	144.0		113.9		142.7	108.2	166.2	117.7	178.7
Engine Size (CID)	Car	All	1985	206.7	115.5	103.9	198.1	127.9	150.2		114.6		160.2	108.7	195.4	118.0	176.8
Engine Size (CID)	Car	All	1986	190.1	114.9	107.4	189.7	127.8	148.0	90.0	115.3		174.8	108.4	225.7	121.7	167.3
Engine Size (CID)	Car	All	1987	191.6	114.7	109.2	186.5	124.8	153.5	90.0	114.2		171.2	106.7	218.1	122.2	161.8
Engine Size (CID)	Car	All	1988	181.2	111.3	114.6	189.5	117.6	153.6	90.0	112.7		185.1	104.3	218.5	128.8	160.6
Engine Size (CID)	Car	All	1989	188.1	114.6	112.3	186.0	124.2	152.8	98.5	113.3		176.2	101.9	215.3	125.3	163.3
Engine Size (CID)	Car	All	1990	183.8	122.2	119.2	195.7	144.1	162.1	103.5	117.6		178.7	124.0	204.3	122.7	163.4
Engine Size (CID)	Car	All	1991	189.1	120.7	122.5	183.6	143.3	162.8	102.8	115.8		164.4	123.0	204.2	122.5	163.9
Engine Size (CID)	Car	All	1992	193.2	128.9	124.9	202.1	136.9	166.2	101.8	121.7		156.1	130.6	205.9	123.1	170.9
Engine Size (CID)	Car	All	1993	189.6	132.3	119.1	185.8	138.2	192.5	105.4	142.7	98.0	160.9	122.0	205.7	125.3	170.1
Engine Size (CID)	Car	All	1994	186.2	130.9	121.4	198.6	134.8	184.7	98.2	131.4	98.0	164.0	129.1	209.8	123.6	169.3
Engine Size (CID)	Car	All	1995	191.9	136.7	117.0	189.7	148.1	162.5	110.1	133.7	101.9	167.1	132.1	202.6	119.7	168.0
Engine Size (CID)	Car	All	1996	189.7	135.9	124.8	196.1	144.9	166.2	102.2	134.3	112.0	161.0	139.8	194.0	115.2	167.2
Engine Size (CID)	Car	All	1997	184.0	136.5	122.8	192.4	145.8	167.5	108.3	133.9	113.0	181.7	142.8	208.3	115.7	164.7
Engine Size (CID)	Car	All	1998	192.2	142.5	128.8	188.1	146.3	155.3	108.4	132.1	111.0	184.4	144.6	190.6	118.1	166.7
Engine Size (CID)	Car	All	1999	190.8	142.3	135.5	191.2	148.1	171.2	117.7	130.5	111.4	178.9	144.8	197.4	118.4	168.2
Engine Size (CID)	Car	All	2000	194.4	141.5	134.3	193.7	162.0	165.3	119.6	132.4	112.2	179.3	148.5	221.2	118.1	168.3
Engine Size (CID)	Car	All	2001	191.5	141.2	134.4	195.3	154.8	166.1	126.0	132.7	110.3	184.3	153.9	222.8	131.4	167.0
Engine Size (CID)	Car	All	2002	194.8	153.1	136.2	187.8	168.0	163.3	132.0	128.2	111.6	173.8	147.1	207.9	132.6	166.7
Engine Size (CID)	Car	All	2003	189.7	139.8	141.3	198.0	180.7	162.1	136.9	128.1	112.6	167.7	150.4	220.4	140.3	166.4
Engine Size (CID)	Car	All	2004	191.3	146.6	139.7	211.6	180.8	168.1	145.9	134.2	136.5	170.8	149.0	213.4	153.5	170.0

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Engine Size (CID)	Car	All	2005	193.2	138.7	140.8	190.7	171.6	187.4	141.1	142.4	139.7	162.9	151.0	201.4	140.1	168.1
Engine Size (CID)	Car	All	2006	195.6	139.8	139.4	192.4	171.9	212.7	161.7	145.3	131.3	185.0	151.8	224.7	140.2	172.9
Engine Size (CID)	Car	All	2007	189.0	148.0	136.1	187.0	168.6	187.9	156.9	150.5	139.7	185.1	151.0	241.0	134.7	167.4
Engine Size (CID)	Car	All	2008	192.0	144.9	138.1	190.2	163.3	177.7	143.4	149.9	139.3	185.2	151.1	218.8	132.9	166.5
Engine Size (CID)	Car	All	2009	178.9	137.6	135.5	176.1	160.2	190.8	148.5	142.3	132.7	172.4	150.6	212.5	143.7	156.9
Engine Size (CID)	Car	All	2010	184.9	136.8	135.1	178.7	160.8	192.3	137.6	137.2	124.3	169.6	155.6	221.6	140.3	158.1
Engine Size (CID)	Car	All	2011	171.5	148.2	137.4	179.3	155.2	208.2	143.7	140.3	139.8	177.3	155.7	218.3	134.8	160.5
Engine Size (CID)	Car	All	2012	166.0	139.6	134.6	155.3	149.4	180.4	124.3	144.4	127.9	161.4	139.2	198.8	137.5	149.6
Engine Size (CID)	Truck	Van	1975	305.7	133.0		334.0		313.3		109.0						317.5
Engine Size (CID)	Truck	Van	1976	321.1			335.5		313.7		120.0						323.7
Engine Size (CID)	Truck	Van	1977	325.3			343.0		327.0		120.0						331.8
Engine Size (CID)	Truck	Van	1978	327.6			335.1		327.0		120.0						329.2
Engine Size (CID)	Truck	Van	1979	319.2			336.3		321.2		120.0						321.9
Engine Size (CID)	Truck	Van	1980	297.1			314.4		278.4		120.0						287.9
Engine Size (CID)	Truck	Van	1981	284.9			310.1		271.4		120.0						284.1
Engine Size (CID)	Truck	Van	1982	291.3			313.6		276.0		111.2						286.9
Engine Size (CID)	Truck	Van	1983	305.8			313.3		269.8		118.9						294.4
Engine Size (CID)	Truck	Van	1984	301.3	122.0		312.7		200.7		117.0						249.3
Engine Size (CID)	Truck	Van	1985	285.9	122.0		311.2		188.6		117.0						236.1
Engine Size (CID)	Truck	Van	1986	278.7	137.0		241.9		185.8		129.0						227.8
Engine Size (CID)	Truck	Van	1987	284.1	137.0		236.0	146.0	193.0		129.0						225.9
Engine Size (CID)	Truck	Van	1988	286.5	137.0		239.7	146.0	188.5		129.0						228.8
Engine Size (CID)	Truck	Van	1989	290.1	137.0		229.3	146.0	187.3		129.0					174.4	225.4
Engine Size (CID)	Truck	Van	1990	258.2			239.6	146.0	200.5		129.0					177.5	225.4
Engine Size (CID)	Truck	Van	1991	261.7	149.0		236.2	146.0	199.0		129.0					177.2	219.6
Engine Size (CID)	Truck	Van	1992	266.5	149.0		238.7	146.0	197.6							178.6	222.3
Engine Size (CID)	Truck	Van	1993	269.5	148.2		220.1	181.0	193.6		150.0					180.0	217.8
Engine Size (CID)	Truck	Van	1994	264.6	149.0		237.3	181.0	208.0		150.0					179.0	226.0
Engine Size (CID)	Truck	Van	1995	269.4	149.0	132.0	238.7	181.0	201.1		150.0					180.0	231.0
Engine Size (CID)	Truck	Van	1996	257.0	149.0	132.0	235.3	181.0	207.6							180.0	220.3
Engine Size (CID)	Truck	Van	1997	247.8	149.0	132.0	229.2	181.0	208.3		170.0					180.0	220.1
Engine Size (CID)	Truck	Van	1998	239.8	183.0	138.0	227.3	181.0	203.3							180.0	217.2
Engine Size (CID)	Truck	Van	1999	243.1	183.0	212.0	237.7	200.0	208.0		170.0						222.7
Engine Size (CID)	Truck	Van	2000	241.1	183.0	212.0	236.0	200.0	204.3		170.0					152.0	216.5
Engine Size (CID)	Truck	Van	2001	233.9	183.0	212.0	295.8	200.0	213.2		170.0					152.0	229.0
Engine Size (CID)	Truck	Van	2002	234.7	183.0	212.0	238.3	200.0	210.1		170.0	213.0				183.0	217.5

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Engine Size (CID)	Truck	Van	2003	228.3	183.0	212.0	241.3		212.6		170.0	213.0				183.0	219.1
Engine Size (CID)	Truck	Van	2004	232.2	202.0	212.0	253.0	214.0	211.5			213.0				183.0	218.6
Engine Size (CID)	Truck	Van	2005	231.3	202.0	212.0	223.2	214.0	214.0			213.0				183.0	215.6
Engine Size (CID)	Truck	Van	2006	231.3	202.0	212.0	231.7	214.0	213.4			231.0				183.0	216.2
Engine Size (CID)	Truck	Van	2007	251.4	211.0	212.0	204.6	214.0	216.2			231.0					219.0
Engine Size (CID)	Truck	Van	2008	249.6	211.0	212.0	213.0	214.0	221.3			231.0				140.0	220.0
Engine Size (CID)	Truck	Van	2009	284.5	211.0	212.0	213.0	214.0	220.4			231.0				140.0	215.2
Engine Size (CID)	Truck	Van	2010	288.6	211.0	214.0	122.0		226.5			232.0				140.0	214.2
Engine Size (CID)	Truck	Van	2011	294.1	209.1	214.0	141.2	214.0	220.0			214.0					211.8
Engine Size (CID)	Truck	Van	2012	290.1	209.1	214.0	152.0	214.0	220.0			214.0					213.5
Engine Size (CID)	Truck	Truck SUV	1975	353.5			302.0		316.8								332.1
Engine Size (CID)	Truck	Truck SUV	1976	361.4	258.0		302.0		320.6								338.9
Engine Size (CID)	Truck	Truck SUV	1977	358.7	258.0		302.0		324.8								336.7
Engine Size (CID)	Truck	Truck SUV	1978	356.3	258.0		362.2		323.0								342.2
Engine Size (CID)	Truck	Truck SUV	1979	370.7	258.0		351.0		296.5								336.8
Engine Size (CID)	Truck	Truck SUV	1980	341.3	258.0		321.4		265.8								294.5
Engine Size (CID)	Truck	Truck SUV	1981	317.1	258.0		320.6		261.1								290.0
Engine Size (CID)	Truck	Truck SUV	1982	333.0	258.0		318.9		283.6								305.0
Engine Size (CID)	Truck	Truck SUV	1983	247.5	258.0		318.5		287.9								265.4
Engine Size (CID)	Truck	Truck SUV	1984	236.5	194.0		226.0		238.1								231.4
Engine Size (CID)	Truck	Truck SUV	1985	225.6	169.9		226.2		319.6								221.7
Engine Size (CID)	Truck	Truck SUV	1986	222.0	150.8		226.1		216.7								210.0
Engine Size (CID)	Truck	Truck SUV	1987	230.4	156.8		221.2	175.2	242.7								212.3
Engine Size (CID)	Truck	Truck SUV	1988	248.4	175.2		225.9	180.9	252.2								221.8
Engine Size (CID)	Truck	Truck SUV	1989	264.8	180.5		247.8	180.9	247.0								243.7
Engine Size (CID)	Truck	Truck SUV	1990	255.5	178.4		264.5	181.0	243.7								234.8
Engine Size (CID)	Truck	Truck SUV	1991	251.8	190.9		239.7	181.0	234.5							231.0	233.3
Engine Size (CID)	Truck	Truck SUV	1992	258.2	178.7		240.8	181.0	229.1							231.0	235.1
Engine Size (CID)	Truck	Truck SUV	1993	276.7	197.5		243.8	181.0	225.7							231.0	244.0
Engine Size (CID)	Truck	Truck SUV	1994	269.7	196.3	193.0	242.3	181.0	254.3							231.0	244.9
Engine Size (CID)	Truck	Truck SUV	1995	270.0	189.7		255.6	181.0	241.0			122.0					244.6
Engine Size (CID)	Truck	Truck SUV	1996	281.3	195.5	193.0	261.3	200.0	261.4			122.0					258.9
Engine Size (CID)	Truck	Truck SUV	1997	294.0	204.1	132.6	279.7	200.0	241.1			122.0					255.4
Engine Size (CID)	Truck	Truck SUV	1998	272.4	190.0	134.4	287.3	200.0	266.1			122.0		150.0	195.0		252.5
Engine Size (CID)	Truck	Truck SUV	1999	279.9	194.9	132.2	287.9	200.0	273.6			122.0		150.0	215.6		252.8
Engine Size (CID)	Truck	Truck SUV	2000	281.5	199.8	128.1	287.6	200.0	268.0			122.0	268.0	150.0	213.5		253.1

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Engine Size (CID)	Truck	Truck SUV	2001	293.6	198.9	152.3	238.3	210.1	263.3	162.0		122.0	211.8	150.0	213.8	179.6	239.0
Engine Size (CID)	Truck	Truck SUV	2002	282.5	204.7	165.7	251.7	207.6	252.0	162.0		122.0	202.6	150.0	227.4	180.2	244.6
Engine Size (CID)	Truck	Truck SUV	2003	286.6	222.8	177.2	267.4	213.1	255.3	173.2		213.0	204.9	150.0	239.5	181.3	247.4
Engine Size (CID)	Truck	Truck SUV	2004	290.6	227.7	180.1	266.2	280.1	258.2	184.0	223.4	213.0	185.5	150.0	245.3	181.0	252.0
Engine Size (CID)	Truck	Truck SUV	2005	292.5	223.0	181.3	247.2	255.0	259.1	179.0	217.2	205.5	193.7	150.0	247.3	174.9	244.3
Engine Size (CID)	Truck	Truck SUV	2006	270.8	219.6	182.2	253.4	255.5	256.4	183.2	219.1	201.2	195.8	161.7	233.1	169.2	236.4
Engine Size (CID)	Truck	Truck SUV	2007	300.7	218.9	177.0	236.0	245.5	235.2	184.1	231.3	194.4	204.2	156.9	252.3	171.2	240.4
Engine Size (CID)	Truck	Truck SUV	2008	275.2	225.5	174.6	219.9	238.5	228.6	189.5	226.6	183.9	203.8	177.5	247.9	198.7	229.6
Engine Size (CID)	Truck	Truck SUV	2009	259.1	203.5	178.8	206.4	207.8	218.9	183.9	164.7	189.2	204.6	155.1	243.8	202.2	211.1
Engine Size (CID)	Truck	Truck SUV	2010	260.6	211.4	179.5	223.9	224.7	215.1	173.3	168.9	164.4	199.1	156.5	231.5	210.7	212.2
Engine Size (CID)	Truck	Truck SUV	2011	275.0	210.4	184.7	220.9	220.4	222.1	178.4	146.6	168.9	193.5	160.3	236.3	215.2	217.1
Engine Size (CID)	Truck	Truck SUV	2012	274.9	207.4	183.6	223.7	198.9	225.3	183.8	152.0	162.8	196.9	157.6	228.8	220.6	214.9
Engine Size (CID)	Truck	Pickup	1975	320.6	133.0		324.9	119.0	338.3							84.6	306.1
Engine Size (CID)	Truck	Pickup	1976	328.8	133.0		331.8	119.0	334.7							85.9	316.2
Engine Size (CID)	Truck	Pickup	1977	324.8	134.0		334.8	119.0	341.1							96.4	312.6
Engine Size (CID)	Truck	Pickup	1978	322.0	134.0		326.7	119.0	325.8					97.0		110.0	306.3
Engine Size (CID)	Truck	Pickup	1979	303.7	134.0		318.4	119.0	272.3					97.0		120.0	287.0
Engine Size (CID)	Truck	Pickup	1980	269.3	134.0		287.2	119.0	206.1		94.0			97.0		120.0	235.8
Engine Size (CID)	Truck	Pickup	1981	259.3	142.7		280.6	132.8	218.2		99.2			109.0		120.0	236.6
Engine Size (CID)	Truck	Pickup	1982	244.0	142.9		292.2	132.8	216.5		98.9			109.0		123.4	228.3
Engine Size (CID)	Truck	Pickup	1983	244.5	143.6		233.3	140.5	188.6		101.1			109.0		120.8	211.8
Engine Size (CID)	Truck	Pickup	1984	242.7	144.1		250.8	144.7	224.0					109.0		120.3	215.4
Engine Size (CID)	Truck	Pickup	1985	240.6	144.1		251.2	146.0	249.6					109.0			221.3
Engine Size (CID)	Truck	Pickup	1986	238.1	144.0		249.2	150.5	218.3					109.0		122.0	206.0
Engine Size (CID)	Truck	Pickup	1987	230.7	144.0		235.2	151.0	221.5					109.0		130.6	202.1
Engine Size (CID)	Truck	Pickup	1988	269.6	147.1		232.7	151.4	226.0							134.6	229.3
Engine Size (CID)	Truck	Pickup	1989	274.6	154.3		247.8	151.9	233.6							135.9	235.8
Engine Size (CID)	Truck	Pickup	1990	300.1	156.1		245.4	149.3	255.3							139.5	246.5
Engine Size (CID)	Truck	Pickup	1991	257.1	154.3		244.9	149.2	263.9							142.3	231.9
Engine Size (CID)	Truck	Pickup	1992	276.3	153.5		251.2	150.1	257.2							141.9	244.6
Engine Size (CID)	Truck	Pickup	1993	281.5	155.0		246.4	149.7	263.2							137.3	243.9
Engine Size (CID)	Truck	Pickup	1994	287.4	152.4		240.4	151.9	283.3							181.1	247.5
Engine Size (CID)	Truck	Pickup	1995	277.5	171.0		264.0	153.3	295.8							156.9	256.5
Engine Size (CID)	Truck	Pickup	1996	272.8	174.2		230.4	146.0	305.4								251.4
Engine Size (CID)	Truck	Pickup	1997	288.7	202.8		245.9	146.0	308.6								264.0
Engine Size (CID)	Truck	Pickup	1998	267.2	169.7		243.9	146.0	299.3							177.9	251.9

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Engine Size (CID)	Truck	Pickup	1999	293.4	174.7		246.4	166.0	306.9							176.6	267.4
Engine Size (CID)	Truck	Pickup	2000	272.1	218.6		247.4	177.4	292.4							177.2	255.2
Engine Size (CID)	Truck	Pickup	2001	279.2	209.8		268.0	177.5	306.4							179.9	268.8
Engine Size (CID)	Truck	Pickup	2002	302.2	217.5		262.2	179.3	289.7							178.0	271.3
Engine Size (CID)	Truck	Pickup	2003	276.6	218.6		262.4	182.4	293.6					150.0		171.0	264.3
Engine Size (CID)	Truck	Pickup	2004	302.0	220.8		280.9	177.1	301.1					150.0		170.9	281.5
Engine Size (CID)	Truck	Pickup	2005	288.8	246.0		286.4	290.5	298.5					150.0		170.3	284.0
Engine Size (CID)	Truck	Pickup	2006	286.6	245.1	212.0	291.8	279.5	291.1					150.0		161.0	277.9
Engine Size (CID)	Truck	Pickup	2007	298.0	274.3	212.0	283.9	270.0	298.0							156.8	286.4
Engine Size (CID)	Truck	Pickup	2008	298.1	277.4	212.0	277.4	290.8	298.3							160.0	286.4
Engine Size (CID)	Truck	Pickup	2009	304.8	228.8	212.0	281.6	270.2	316.5							149.5	286.8
Engine Size (CID)	Truck	Pickup	2010	303.3	273.9	214.0	294.3	269.4	315.6								292.7
Engine Size (CID)	Truck	Pickup	2011	308.7	265.2	214.0	252.7	270.2	316.7								282.2
Engine Size (CID)	Truck	Pickup	2012	301.4	271.4	214.0	264.0	268.2	318.9								284.9
Engine Size (CID)	Truck	All	1975	321.4	133.0		326.8	119.0	318.7		109.0					84.6	311.0
Engine Size (CID)	Truck	All	1976	330.9	137.1		332.1	119.0	323.4		120.0					85.9	319.7
Engine Size (CID)	Truck	All	1977	328.1	135.7		335.5	119.0	331.5		120.0					96.4	318.4
Engine Size (CID)	Truck	All	1978	326.1	137.7		330.6	119.0	325.4		120.0			97.0		110.0	314.7
Engine Size (CID)	Truck	All	1979	314.0	134.4		323.3	119.0	293.2		120.0			97.0		120.0	298.7
Engine Size (CID)	Truck	All	1980	278.5	135.6		293.7	119.0	237.4		103.7			97.0		120.0	248.4
Engine Size (CID)	Truck	All	1981	266.0	144.3		287.1	132.8	243.6		104.4			109.0		120.0	247.0
Engine Size (CID)	Truck	All	1982	256.7	145.5		298.9	132.8	246.1		105.2			109.0		123.4	243.9
Engine Size (CID)	Truck	All	1983	256.5	146.6		252.5	140.5	227.6		116.9			109.0		120.8	231.8
Engine Size (CID)	Truck	All	1984	251.8	142.7		257.5	144.7	218.2		117.0			109.0		120.3	225.1
Engine Size (CID)	Truck	All	1985	246.4	142.5		257.1	146.0	221.5		117.0			109.0			224.9
Engine Size (CID)	Truck	All	1986	244.7	143.7		244.1	150.5	202.7		129.0			109.0		122.0	211.9
Engine Size (CID)	Truck	All	1987	245.3	144.6		233.7	154.5	214.0		129.0			109.0		130.6	210.7
Engine Size (CID)	Truck	All	1988	269.1	150.2		233.4	158.0	213.6		129.0					134.6	227.7
Engine Size (CID)	Truck	All	1989	275.9	156.0		241.9	156.1	212.8		129.0					145.5	234.2
Engine Size (CID)	Truck	All	1990	279.5	162.8		245.6	154.2	219.8		129.0					154.8	237.4
Engine Size (CID)	Truck	All	1991	256.9	159.1		241.7	156.4	219.1		129.0					165.4	228.9
Engine Size (CID)	Truck	All	1992	270.2	157.0		246.2	160.0	215.0							163.0	235.6
Engine Size (CID)	Truck	All	1993	277.5	160.5		237.6	161.3	212.3		150.0					162.7	235.1
Engine Size (CID)	Truck	All	1994	278.4	163.1	193.0	240.1	165.1	237.8		150.0					183.1	241.2
Engine Size (CID)	Truck	All	1995	273.3	174.8	132.0	253.0	167.0	239.2		150.0	122.0				165.1	245.4
Engine Size (CID)	Truck	All	1996	274.0	180.4	163.1	241.0	169.7	246.1			122.0				180.0	245.0

2012 FE Trends Report

Appendix L: Fuel Economy Data Stratified by Vehicle Type and Manufacturer

Characteristic	Car or Truck	Vehicle Type	Year	GM	Toyota	Honda	Ford	Nissan	Chrysler-Fiat	Hyundai	VW	Kia	BMW	Subaru	Daimler	Mazda	All
Engine Size (CID)	Truck	All	1997	282.0	202.8	132.5	255.0	171.6	246.9		170.0	122.0				180.0	251.3
Engine Size (CID)	Truck	All	1998	262.7	180.1	134.9	254.5	173.0	253.2			122.0		150.0	195.0	178.4	243.5
Engine Size (CID)	Truck	All	1999	279.8	186.5	158.5	257.8	191.0	258.7		170.0	122.0		150.0	215.6	176.6	251.7
Engine Size (CID)	Truck	All	2000	268.8	204.2	174.4	258.8	189.4	248.5		170.0	122.0	268.0	150.0	213.5	161.7	244.9
Engine Size (CID)	Truck	All	2001	277.8	201.0	180.5	262.2	198.2	263.8	162.0	170.0	122.0	211.8	150.0	213.8	169.0	248.7
Engine Size (CID)	Truck	All	2002	283.8	207.0	187.9	254.7	196.0	250.5	162.0	170.0	184.6	202.6	150.0	227.4	180.5	248.7
Engine Size (CID)	Truck	All	2003	274.5	218.8	188.0	262.3	203.3	253.2	173.2	170.0	213.0	204.9	150.0	239.5	179.4	248.4
Engine Size (CID)	Truck	All	2004	290.1	220.0	188.4	272.9	250.4	267.6	184.0	223.4	213.0	185.5	150.0	245.3	179.8	257.6
Engine Size (CID)	Truck	All	2005	283.7	226.0	190.7	264.2	263.8	250.5	179.0	217.2	209.5	193.7	150.0	247.3	177.7	251.2
Engine Size (CID)	Truck	All	2006	274.9	225.2	195.0	270.9	262.0	249.3	183.2	219.1	213.8	195.8	160.8	233.1	173.6	247.0
Engine Size (CID)	Truck	All	2007	296.7	238.0	191.3	263.4	250.2	243.1	184.1	231.3	220.0	204.2	156.9	252.3	170.1	253.0
Engine Size (CID)	Truck	All	2008	283.7	240.6	187.4	250.9	254.5	240.4	189.5	226.6	211.7	203.8	177.5	247.9	184.6	246.3
Engine Size (CID)	Truck	All	2009	284.8	212.6	187.6	251.6	220.1	240.2	183.9	164.7	207.8	204.6	155.1	243.8	168.9	236.0
Engine Size (CID)	Truck	All	2010	282.4	232.0	190.0	261.8	238.0	236.7	173.3	168.9	213.3	199.1	156.5	231.5	187.5	237.3
Engine Size (CID)	Truck	All	2011	291.5	225.3	191.2	236.1	231.6	241.0	178.4	146.6	177.5	193.5	160.3	236.3	215.2	235.6
Engine Size (CID)	Truck	All	2012	289.2	230.6	192.7	238.7	215.1	235.5	183.8	152.0	175.0	196.9	157.6	228.8	220.6	234.1
Engine Size (CID)	All	All	1975	338.5	124.7	83.4	314.1	117.5	289.9		93.5		161.2	83.0	205.3	136.6	292.7
Engine Size (CID)	All	All	1976	330.0	120.2	83.8	313.1	113.5	289.1		98.0		158.7	88.1	195.6	132.7	293.5
Engine Size (CID)	All	All	1977	317.3	115.4	88.0	326.4	112.4	295.7		97.0		148.4	97.0	199.3	104.4	286.9
Engine Size (CID)	All	All	1978	297.1	119.4	90.3	294.6	112.4	266.7		94.7		147.2	97.0	208.5	82.2	265.7
Engine Size (CID)	All	All	1979	290.2	117.9	97.2	269.9	110.5	238.2		95.6		149.6	97.0	203.4	113.2	251.7
Engine Size (CID)	All	All	1980	231.9	119.1	99.6	230.4	107.4	194.7		97.8		135.5	98.7	195.5	112.8	197.8
Engine Size (CID)	All	All	1981	232.1	119.5	99.7	217.8	116.4	172.1		104.0		130.9	107.2	184.2	112.3	193.2
Engine Size (CID)	All	All	1982	220.8	123.8	100.2	211.3	120.1	186.1		105.3		142.4	107.9	185.5	117.0	188.4
Engine Size (CID)	All	All	1983	228.8	121.9	101.0	220.9	120.3	173.7		110.0		146.0	108.3	167.4	119.6	192.9
Engine Size (CID)	All	All	1984	216.6	125.0	104.3	216.9	127.6	168.4		114.1		142.7	108.2	166.2	119.0	189.6
Engine Size (CID)	All	All	1985	215.5	125.9	103.9	216.4	132.7	172.6		114.8		160.2	108.7	195.4	118.0	188.7
Engine Size (CID)	All	All	1986	201.7	126.7	107.4	209.8	137.4	169.7	90.0	115.8		174.8	108.4	225.7	121.8	179.8
Engine Size (CID)	All	All	1987	203.8	125.4	109.2	202.8	131.5	178.7	90.0	114.9		171.2	106.7	218.1	126.2	175.1
Engine Size (CID)	All	All	1988	206.5	123.1	114.6	204.2	127.9	181.0	90.0	113.0		185.1	104.3	218.5	130.2	180.2
Engine Size (CID)	All	All	1989	214.8	125.8	112.3	204.0	131.6	182.0	98.5	113.7		176.2	101.9	215.3	133.0	184.5
Engine Size (CID)	All	All	1990	212.1	131.7	119.2	213.8	146.8	191.6	103.5	118.2		178.7	124.0	204.3	133.0	185.3
Engine Size (CID)	All	All	1991	211.0	132.1	122.5	204.5	147.1	188.3	102.8	116.4		164.4	123.0	204.2	137.4	183.7
Engine Size (CID)	All	All	1992	216.9	135.7	124.9	219.4	142.4	193.1	101.8	121.7		156.1	130.6	205.9	135.2	191.2
Engine Size (CID)	All	All	1993	219.1	139.9	119.1	205.9	145.7	201.5	105.4	143.8	98.0	160.9	122.0	205.7	131.9	191.2
Engine Size (CID)	All	All	1994	220.6	141.1	122.8	216.8	144.3	217.6	98.2	131.5	98.0	164.0	129.1	209.8	144.2	196.7



March 2013

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix M Fuel Economy Data by Manufacturer, Vehicle Type and Weight Class

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
GM	Car	Car	1975				21.6	27.0	22.3	19.4	16.6	15.0	13.9	12.6						15.1	
GM	Car	Car	1976			29.4	26.8	26.9	23.5	20.4	17.9	16.3	14.8	13.4						16.7	
GM	Car	Car	1977			31.4	26.6	28.6	25.6	20.7	18.0	17.0	14.7	13.3						17.8	
GM	Car	Car	1978			30.7	27.7		26.5	20.3	18.0	16.3	14.7	12.4						19.1	
GM	Car	Car	1979			33.5	28.7		26.1	20.2	17.6	17.0	18.9	11.2						19.3	
GM	Car	Car	1980			29.9	27.4	26.1	23.9	20.9	19.0	19.0	13.2							22.0	
GM	Car	Car	1981			31.6	29.4	27.3	25.2	22.5	20.8	20.5	12.3							23.3	
GM	Car	Car	1982			34.3	32.4	28.8	27.2	22.4	20.8	25.6	11.8							24.5	
GM	Car	Car	1983			34.7	33.0	30.2	26.5	22.6	20.4	20.3	11.8							23.5	
GM	Car	Car	1984			35.6	33.7	30.9	26.6	22.5	20.7	20.8	11.8							24.4	
GM	Car	Car	1985	57.4		40.8	33.9	31.0	27.4	23.3	22.4	26.2								25.6	
GM	Car	Car	1986	56.6		40.5	34.8	30.2	27.8	24.4	23.0									27.1	
GM	Car	Car	1987	57.0	46.1	39.6	34.4	31.6	28.6	24.5	22.5									27.4	
GM	Car	Car	1988	51.5	45.7	40.0	34.9	32.0	28.7	25.7	22.9	22.9								28.2	
GM	Car	Car	1989	59.5	48.1	40.4	33.9	31.9	28.3	25.2	23.1	22.4								27.5	
GM	Car	Car	1990	65.3	52.2		35.4	32.0	28.4	25.7	22.6	20.5								27.3	
GM	Car	Car	1991	65.3	48.9		36.3	31.5	27.8	25.4	23.1	22.0								27.2	
GM	Car	Car	1992	65.3	47.8		34.6	31.7	27.8	25.1	22.8	22.7								26.7	
GM	Car	Car	1993	65.3	50.5		35.5	31.5	28.1	25.8	22.8	22.5		17.6	17.6					27.3	
GM	Car	Car	1994	65.8	49.1		35.3	32.2	29.2	25.7	23.1	22.9		18.3						27.5	
GM	Car	Car	1995		54.5	39.5	36.3	33.1	29.8	25.9	23.3	22.8		18.6						27.3	
GM	Car	Car	1996				37.2	33.3	30.4	26.3	24.2	23.2		18.2						27.9	
GM	Car	Car	1997		54.4	37.9	37.0	33.0	30.4	26.6	24.1			19.5						28.1	
GM	Car	Car	1998		53.6	38.6	37.3	33.5	30.1	26.4	24.0			17.2						27.5	
GM	Car	Car	1999		50.3	38.1	36.9	34.5	30.4	26.5	24.2				19.3					27.4	
GM	Car	Car	2000		50.8	37.8	37.0	35.3	30.4	26.9	25.1			18.3						27.6	
GM	Car	Car	2001			37.3	36.7	35.3	31.0	27.5	25.3				18.3					28.1	
GM	Car	Car	2002				36.7	35.0	30.5	27.9	25.5				18.2					28.5	
GM	Car	Car	2003						31.9	28.2	25.6				18.6					28.4	
GM	Car	Car	2004					34.5	32.3	28.4	25.4			20.0	19.3					28.9	
GM	Car	Car	2005					34.3	32.3	29.0	25.6	20.4		20.1	19.0					28.8	
GM	Car	Car	2006					32.9	32.2	29.0	25.9	22.4				17.9				28.3	
GM	Car	Car	2007					34.4	32.5	29.1	26.4	22.5	19.9		18.4					28.6	
GM	Car	Car	2008					34.6	33.7	28.4	26.7	23.1	18.4		18.4	18.0				28.3	
GM	Car	Car	2009					35.5	34.9	31.8	26.8	22.8			17.6	17.4				29.7	
GM	Car	Car	2010					36.0	35.9	32.1	27.0	25.4			18.3					29.5	
GM	Car	Car	2011					36.3	44.2	33.5	27.6	24.8	21.8		18.5					29.9	
GM	Car	Car	2012						39.4	35.2	28.3	23.1								31.5	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
GM	Car	Wagon	1975					24.9	22.5			14.6	13.6	12.2						14.6	
GM	Car	Wagon	1976						23.2			15.3	14.8	13.6						15.6	
GM	Car	Wagon	1977						25.4			17.0	14.9							16.9	
GM	Car	Wagon	1978						26.3	20.8	18.2	16.3	22.0							17.9	
GM	Car	Wagon	1979						26.0	20.8	18.5	16.0								17.8	
GM	Car	Wagon	1980							21.4	20.1	19.5								20.2	
GM	Car	Wagon	1981							21.8	21.9	20.4								21.1	
GM	Car	Wagon	1982					28.4		22.8	21.6	19.0								21.7	
GM	Car	Wagon	1983					29.3	28.5	23.3	19.8	19.5								22.8	
GM	Car	Wagon	1984					30.7	29.2	23.0		19.9								24.2	
GM	Car	Wagon	1985					30.7	30.7	24.1		21.0								24.4	
GM	Car	Wagon	1986					30.5	29.5	25.1		22.0								25.4	
GM	Car	Wagon	1987					31.8	30.1	25.5		22.3								25.7	
GM	Car	Wagon	1988					32.4	29.6	27.3		22.9								26.5	
GM	Car	Wagon	1989					32.5	28.6	26.6		22.4								26.0	
GM	Car	Wagon	1990					33.4	30.1	26.6		22.8								26.3	
GM	Car	Wagon	1991					31.2	30.1	26.1		22.8								25.5	
GM	Car	Wagon	1992					30.9	29.4	26.1		22.7								25.1	
GM	Car	Wagon	1993				35.9	31.6	29.3	26.4		22.5								26.7	
GM	Car	Wagon	1994				35.8	32.6	29.0	26.2		22.9								27.2	
GM	Car	Wagon	1995				37.8	33.3		26.1		22.8								27.6	
GM	Car	Wagon	1996					33.5		26.7		23.2								28.0	
GM	Car	Wagon	1997				38.0	33.5												33.5	
GM	Car	Wagon	1998				37.9	33.9												33.9	
GM	Car	Wagon	1999				38.1	34.5												34.5	
GM	Car	Wagon	2000					34.6		27.1										29.6	
GM	Car	Wagon	2001					34.2		29.0										30.4	
GM	Car	Wagon	2002							28.7										28.7	
GM	Car	Wagon	2003						34.9	29.0										34.2	
GM	Car	Wagon	2004						35.3	29.5										35.1	
GM	Car	Wagon	2005						36.3	27.4										35.3	
GM	Car	Wagon	2006						36.3	30.1										31.8	
GM	Car	Wagon	2007						36.4	30.1										31.4	
GM	Car	Wagon	2008						38.2	32.3										33.3	
GM	Car	Wagon	2009						36.6	31.9										32.5	
GM	Car	Wagon	2010						37.1	32.3	28.1	26.6								32.4	
GM	Car	Wagon	2011								28.1	23.2								24.3	
GM	Car	Wagon	2012								28.1	25.6								27.1	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
GM	Car	Non-Truck SUV	1975								15.6									15.6	
GM	Car	Non-Truck SUV	1976							14.3	17.3									16.9	
GM	Car	Non-Truck SUV	1977								18.0									18.0	
GM	Car	Non-Truck SUV	1978								17.6									17.6	
GM	Car	Non-Truck SUV	1979																		
GM	Car	Non-Truck SUV	1980																		
GM	Car	Non-Truck SUV	1981																		
GM	Car	Non-Truck SUV	1982						25.8	16.6	19.3									22.0	
GM	Car	Non-Truck SUV	1983							25.1										25.1	
GM	Car	Non-Truck SUV	1984						28.3	23.5										23.6	
GM	Car	Non-Truck SUV	1985							23.5										23.5	
GM	Car	Non-Truck SUV	1986							22.2										22.2	
GM	Car	Non-Truck SUV	1987							23.0										23.0	
GM	Car	Non-Truck SUV	1988							23.1										23.1	
GM	Car	Non-Truck SUV	1989							23.0										23.0	
GM	Car	Non-Truck SUV	1990							22.7										22.7	
GM	Car	Non-Truck SUV	1991				30.1			23.3	21.1									22.7	
GM	Car	Non-Truck SUV	1992				29.3			22.6	20.6									22.5	
GM	Car	Non-Truck SUV	1993				29.2			22.9	22.4									23.6	
GM	Car	Non-Truck SUV	1994				28.9	28.7		22.3	21.5									22.7	
GM	Car	Non-Truck SUV	1995				29.6				21.7									22.8	
GM	Car	Non-Truck SUV	1996					28.3	28.2		22.0									22.8	
GM	Car	Non-Truck SUV	1997				27.9		28.5		21.6									22.0	
GM	Car	Non-Truck SUV	1998				28.5		27.7	25.9	21.8									22.5	
GM	Car	Non-Truck SUV	1999					31.0	28.6	25.2	21.5									22.3	
GM	Car	Non-Truck SUV	2000					31.1	28.6		21.7									22.1	
GM	Car	Non-Truck SUV	2001					31.0	28.6	26.3	22.9									24.0	
GM	Car	Non-Truck SUV	2002						31.9	27.9	23.3									24.1	
GM	Car	Non-Truck SUV	2003						28.4	27.4	23.8									25.9	
GM	Car	Non-Truck SUV	2004							28.8	25.0	20.6								24.7	
GM	Car	Non-Truck SUV	2005							28.9	25.0	21.9	19.1							24.8	
GM	Car	Non-Truck SUV	2006							29.6	24.9	21.8	20.7							25.1	
GM	Car	Non-Truck SUV	2007							30.7	25.1	21.5	20.6							25.4	
GM	Car	Non-Truck SUV	2008								25.9	21.5	20.9							25.3	
GM	Car	Non-Truck SUV	2009								26.5	22.7	19.2							25.8	
GM	Car	Non-Truck SUV	2010								31.8	25.2	23.0							29.4	
GM	Car	Non-Truck SUV	2011							32.5	30.9	25.6	23.0							29.8	
GM	Car	Non-Truck SUV	2012								32.5	25.1	23.3							30.9	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
GM	Car	All	1975				21.6	25.8	22.4	19.4	16.6	15.0	13.9	12.5						15.1	
GM	Car	All	1976			29.4	26.8	26.9	23.4	20.4	17.9	16.3	14.8	13.5						16.6	
GM	Car	All	1977			31.4	26.6	28.6	25.6	20.7	18.0	17.0	14.8	13.3						17.7	
GM	Car	All	1978			30.7	27.7		26.5	20.3	18.1	16.3	15.3	12.4						19.0	
GM	Car	All	1979			33.5	28.7		26.1	20.3	17.7	16.8	18.9	11.2						19.1	
GM	Car	All	1980			29.9	27.4	26.1	23.9	20.9	19.1	19.1	13.2							21.9	
GM	Car	All	1981			31.6	29.4	27.3	25.2	22.4	20.9	20.5	12.3							23.2	
GM	Car	All	1982			34.3	32.4	28.8	27.2	22.5	20.8	21.0	11.8							24.2	
GM	Car	All	1983			34.7	33.0	30.0	26.5	22.7	20.4	19.8	11.8							23.5	
GM	Car	All	1984			35.6	33.7	30.9	26.6	22.6	20.7	20.2	11.8							24.4	
GM	Car	All	1985	57.4		40.8	33.9	30.9	27.4	23.4	22.4	21.0								25.5	
GM	Car	All	1986	56.6		40.5	34.8	30.3	27.8	24.4	23.0	22.0								27.0	
GM	Car	All	1987	57.0	46.1	39.6	34.4	31.6	28.6	24.5	22.5	22.3								27.2	
GM	Car	All	1988	51.5	45.7	40.0	34.9	32.1	28.7	25.7	22.9	22.9								28.1	
GM	Car	All	1989	59.5	48.1	40.4	33.9	31.9	28.3	25.1	23.1	22.4								27.4	
GM	Car	All	1990	65.3	52.2		35.4	32.0	28.5	25.7	22.6	21.3								27.2	
GM	Car	All	1991	65.3	48.9		35.7	31.5	27.8	25.3	23.0	22.4								27.0	
GM	Car	All	1992	65.3	47.8		33.7	31.7	27.8	25.1	22.6	22.7								26.6	
GM	Car	All	1993	65.3	50.5		34.5	31.5	28.1	25.8	22.7	22.5		17.6	17.6					27.2	
GM	Car	All	1994	65.8	49.1		34.1	32.2	29.2	25.6	22.8	22.9		18.3						27.3	
GM	Car	All	1995		54.5	39.5	35.4	33.1	29.8	25.9	23.0	22.8		18.6						27.2	
GM	Car	All	1996				37.2	33.0	30.4	26.3	23.6	23.2		18.2						27.6	
GM	Car	All	1997		54.4	37.9	36.7	33.1	30.4	26.6	23.6			19.5						27.9	
GM	Car	All	1998		53.6	38.6	36.7	33.6	30.1	26.4	23.5			17.2						27.3	
GM	Car	All	1999		50.3	38.1	36.9	34.5	30.4	26.5	23.5				19.3					27.2	
GM	Car	All	2000		50.8	37.8	37.0	35.2	30.4	26.9	24.3			18.3						27.2	
GM	Car	All	2001			37.3	36.7	35.3	30.8	27.5	24.7				18.3					27.7	
GM	Car	All	2002				36.7	35.0	30.5	27.9	24.9				18.2					28.2	
GM	Car	All	2003						32.2	28.2	25.3				18.6					28.4	
GM	Car	All	2004					34.5	32.6	28.4	25.3	20.6		20.0	19.3					28.7	
GM	Car	All	2005					34.3	32.9	29.0	25.4	21.5	19.1	20.1	19.0					28.3	
GM	Car	All	2006					32.9	32.7	29.3	25.6	22.1	20.7			17.9				28.0	
GM	Car	All	2007					34.4	32.7	29.4	26.2	22.0	20.6		18.4					28.4	
GM	Car	All	2008					34.6	34.0	29.2	26.5	22.7	20.8		18.4	18.0				28.1	
GM	Car	All	2009					35.5	35.1	31.9	26.8	22.8	19.2		17.6	17.4				29.7	
GM	Car	All	2010					36.0	36.0	32.2	28.2	25.3	23.0		18.3					29.7	
GM	Car	All	2011					36.3	44.2	33.4	28.7	25.2	22.5		18.5					29.8	
GM	Car	All	2012						39.4	35.2	29.7	24.2	23.3							31.4	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
GM	Truck	Van	1975								15.3	12.4	12.7		11.1	10.6				14.4
GM	Truck	Van	1976								15.1	12.6	12.6	11.1	11.9	11.5				14.0
GM	Truck	Van	1977								16.6	13.4	13.3		13.0	12.3				15.0
GM	Truck	Van	1978								16.4	12.8	12.4		12.5	11.7				14.1
GM	Truck	Van	1979								18.6	14.5	13.3	12.8						14.7
GM	Truck	Van	1980								18.5	16.0	14.3							16.7
GM	Truck	Van	1981								19.3	17.7	15.8							18.0
GM	Truck	Van	1982								19.6	17.7	16.0	11.9	11.9					17.9
GM	Truck	Van	1983								19.7	18.5	19.7	20.1						18.9
GM	Truck	Van	1984								20.0	18.1	17.3	17.3						18.2
GM	Truck	Van	1985							23.9	21.8	16.7	16.8	13.9	21.3					18.7
GM	Truck	Van	1986							26.4	21.4	17.3	17.0	13.9	23.1					19.4
GM	Truck	Van	1987							24.7	21.7	17.4	17.4	17.0	22.9					19.8
GM	Truck	Van	1988							25.5	21.9	17.9	18.1	17.3	21.7					20.2
GM	Truck	Van	1989							24.4	22.2	17.9	17.6	17.5	21.3					20.2
GM	Truck	Van	1990							23.5	22.6	19.2	18.3	17.3	21.5					20.7
GM	Truck	Van	1991							23.7	22.9	19.5	17.4	17.2	20.4					20.8
GM	Truck	Van	1992							23.7	22.5	19.8	19.2	16.7	20.1					20.8
GM	Truck	Van	1993							23.7	22.5	20.0	19.1	16.9	21.3					20.7
GM	Truck	Van	1994							23.7	22.7	20.0	19.1	17.2	20.6					21.0
GM	Truck	Van	1995							23.7	22.8	19.5	18.5	17.7	20.4					20.6
GM	Truck	Van	1996							28.1	23.8	21.1	18.7	17.6	17.3					21.5
GM	Truck	Van	1997							24.9	23.8	21.2	19.2	18.4						21.9
GM	Truck	Van	1998							27.0	23.8	21.4	18.6	18.0						22.2
GM	Truck	Van	1999							26.9	24.2	20.9	18.4	17.9						22.0
GM	Truck	Van	2000								24.4	20.9	18.5	17.4						22.1
GM	Truck	Van	2001								25.3	21.1	18.4	17.8						22.9
GM	Truck	Van	2002								25.2	20.5	17.8	18.1						22.3
GM	Truck	Van	2003								25.4	21.8	19.0	19.0	18.5					23.2
GM	Truck	Van	2004								25.2	20.9	19.4	19.0	19.2					23.1
GM	Truck	Van	2005								24.4	23.2	20.1	19.5	18.6					22.6
GM	Truck	Van	2006									24.4	20.5	19.4	18.8					22.9
GM	Truck	Van	2007									24.1	20.4	19.2	18.1					22.6
GM	Truck	Van	2008									24.0	21.0	19.3	17.6					22.8
GM	Truck	Van	2009										21.5	17.8	17.7					20.0
GM	Truck	Van	2010										21.7	18.6	18.4					20.1
GM	Truck	Van	2011										21.7	18.6	18.1	16.1	15.5			19.7
GM	Truck	Van	2012										21.7	18.7	18.3	16.1	15.2	14.5		20.0

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
GM	Truck	Truck SUV	1975									14.0	11.2	10.2	10.3					11.7
GM	Truck	Truck SUV	1976									14.8	12.7	11.4	11.9					13.0
GM	Truck	Truck SUV	1977									15.9	12.9	11.5	11.9					14.6
GM	Truck	Truck SUV	1978									15.1	12.6	11.6	11.4					14.0
GM	Truck	Truck SUV	1979									12.3	11.7	10.6						11.3
GM	Truck	Truck SUV	1980									16.4	14.6	13.8	13.4					14.5
GM	Truck	Truck SUV	1981									17.2	16.4	14.1						16.2
GM	Truck	Truck SUV	1982									18.9	17.1	21.2	21.2					19.2
GM	Truck	Truck SUV	1983							23.6	22.0		17.0	20.2	20.8					20.2
GM	Truck	Truck SUV	1984							23.0	22.1		17.1	17.9	21.0					20.0
GM	Truck	Truck SUV	1985							23.2	22.0		17.0	16.1	21.4					20.1
GM	Truck	Truck SUV	1986							22.5	20.3		17.1	15.7	22.1					19.4
GM	Truck	Truck SUV	1987							21.7	20.7		16.6	16.8	20.9					19.3
GM	Truck	Truck SUV	1988								21.2		16.5	16.5	18.3					19.4
GM	Truck	Truck SUV	1989				31.3			20.6	21.5		16.8	17.5	15.8					20.0
GM	Truck	Truck SUV	1990				31.3	28.7		20.6	20.6		16.6	17.3	16.0					19.6
GM	Truck	Truck SUV	1991					28.9		20.6	21.1		16.5	17.2	15.7	20.2				20.5
GM	Truck	Truck SUV	1992					28.9		20.6	20.2	18.9	16.1	16.3	14.9					19.2
GM	Truck	Truck SUV	1993					29.0			21.5	20.3	16.9	16.8	15.8					19.4
GM	Truck	Truck SUV	1994					28.7			20.3	21.0	16.9	16.8	16.1					19.4
GM	Truck	Truck SUV	1995				29.0	28.4			20.1	21.3	17.7	16.9	15.7					19.4
GM	Truck	Truck SUV	1996					28.2	28.1		21.9	21.0	18.4	17.4	16.8					19.8
GM	Truck	Truck SUV	1997					28.1	27.9		21.4	21.0	19.1	17.8	16.7					19.4
GM	Truck	Truck SUV	1998					28.4	27.7		21.3	21.2	18.1	17.4	16.8					20.3
GM	Truck	Truck SUV	1999						28.5	27.7	21.1	20.5	18.0	17.8						19.8
GM	Truck	Truck SUV	2000						28.1	27.6	19.7	20.8	17.2	18.2	16.8					19.5
GM	Truck	Truck SUV	2001						27.7	22.4	22.7	20.1		18.4	17.0					18.8
GM	Truck	Truck SUV	2002						27.8	25.9	21.9	20.6	19.5	18.7	18.0					19.4
GM	Truck	Truck SUV	2003						27.9	25.3	23.4	20.8	19.6	18.9	17.7					19.1
GM	Truck	Truck SUV	2004							25.0	24.7	21.6	20.3	19.1	17.7					19.4
GM	Truck	Truck SUV	2005							27.5	24.7	21.9	20.0	19.1	18.5					19.5
GM	Truck	Truck SUV	2006								24.4	21.4	20.3	19.4	18.2					20.2
GM	Truck	Truck SUV	2007							30.1	24.5	19.7	20.9		20.1					20.4
GM	Truck	Truck SUV	2008							32.5	24.8	21.8	21.9		20.0					21.2
GM	Truck	Truck SUV	2009							32.4	24.8	22.8	23.4	21.8	20.2					22.4
GM	Truck	Truck SUV	2010							32.5	24.3		24.4	22.7	21.7					23.3
GM	Truck	Truck SUV	2011							32.5			24.3	22.9	21.7	18.6	15.4			22.7
GM	Truck	Truck SUV	2012								23.9		24.3		22.2	18.4	15.4			23.0

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
GM	Truck	Pickup	1975					22.3		15.0	15.1	11.3	11.0	10.5						14.3
GM	Truck	Pickup	1976					25.0		15.8	15.8	12.5	11.9	11.8						14.6
GM	Truck	Pickup	1977					25.1	24.3	16.5	16.5	13.4	13.1	11.8						15.2
GM	Truck	Pickup	1978					27.0	25.0	18.1	15.3	13.5	12.7	12.0	12.7	11.8				14.7
GM	Truck	Pickup	1979					27.4	23.4	19.8	17.9	15.0	13.7	12.1	10.9					15.2
GM	Truck	Pickup	1980					27.7	24.6	19.9	18.7	16.7	16.8	13.5	9.9	12.0				18.5
GM	Truck	Pickup	1981					28.5	30.0	21.4	19.3	18.0	18.2							20.0
GM	Truck	Pickup	1982					29.9	26.0	21.0	19.6	18.4	20.6	22.4						21.9
GM	Truck	Pickup	1983					32.3	26.7	24.0	19.6	18.2	19.1	22.1						21.3
GM	Truck	Pickup	1984					31.1	25.5	23.3	19.9	18.0	18.0	21.9						20.7
GM	Truck	Pickup	1985					31.0	26.1	23.1	20.5	17.3	17.1	21.1	19.6					20.4
GM	Truck	Pickup	1986					30.2	26.7	22.0	20.5	17.8	17.0	21.1						20.8
GM	Truck	Pickup	1987					30.0	26.6	22.1	20.5	17.7	16.5	21.1						21.3
GM	Truck	Pickup	1988						28.3	22.8	20.2	17.9	17.0	16.9	19.6					20.4
GM	Truck	Pickup	1989						27.9	22.7	20.8	17.8	16.8	19.2	21.2					20.5
GM	Truck	Pickup	1990						27.4	22.4	20.3	17.6	17.0	18.6	20.5					19.2
GM	Truck	Pickup	1991						26.9	23.5	20.9	18.2	16.6	17.6	19.5					21.4
GM	Truck	Pickup	1992						26.2	23.3	21.3	18.5	16.8	16.4						20.3
GM	Truck	Pickup	1993						25.4	23.6	21.6	19.2	17.1	17.1						20.2
GM	Truck	Pickup	1994						28.1	25.2	21.4	18.5	17.0	17.4	18.1					20.0
GM	Truck	Pickup	1995						27.2	26.5	21.4	18.5	16.9	17.5	18.1					20.2
GM	Truck	Pickup	1996						31.3	28.3	22.5	19.9	18.1	18.1	18.7					21.3
GM	Truck	Pickup	1997						31.3	27.6	22.2	20.5	18.8	17.6	18.7					20.5
GM	Truck	Pickup	1998							27.8	21.8	20.0	17.8	17.4	19.0					21.1
GM	Truck	Pickup	1999							27.1	21.1	20.4	18.7	16.9	16.9					19.8
GM	Truck	Pickup	2000							25.5	20.9	20.5	18.9	16.4						20.8
GM	Truck	Pickup	2001							24.8	20.8	20.8	19.4	16.3						20.4
GM	Truck	Pickup	2002							22.4	22.2	19.8	18.9	17.9	17.9					19.1
GM	Truck	Pickup	2003							25.3	22.5	20.2	19.0	17.4	18.1					20.1
GM	Truck	Pickup	2004							24.7	24.2	20.8	19.5	18.5	18.8					20.0
GM	Truck	Pickup	2005							25.2	24.0	21.1	19.8	19.4	18.5					20.4
GM	Truck	Pickup	2006							25.0	24.2	21.4	20.3	19.3	18.6					20.7
GM	Truck	Pickup	2007							22.5	22.1	21.1	20.3	19.9	20.4					20.3
GM	Truck	Pickup	2008							24.5	23.7	21.7	20.7	20.6	20.0					20.9
GM	Truck	Pickup	2009							25.8	24.7	22.5	20.9	20.5	19.7					20.8
GM	Truck	Pickup	2010							26.7	25.3	22.3	21.0	21.4	19.1					21.5
GM	Truck	Pickup	2011							26.6	25.5	22.0	21.1	21.4	19.8					21.4
GM	Truck	Pickup	2012							26.8	24.3	21.9	21.3	21.1	20.5					21.6

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
GM	Truck	All	1975					22.3		15.0	15.2	11.9	11.2	10.5	10.9	10.6				14.1	
GM	Truck	All	1976					25.0		15.8	15.6	12.7	12.3	11.7	11.9	11.5				14.3	
GM	Truck	All	1977					25.1	24.3	16.5	16.5	13.9	13.1	11.7	12.4	12.3				15.1	
GM	Truck	All	1978					27.0	25.0	18.1	15.5	13.6	12.6	12.0	11.8	11.7				14.5	
GM	Truck	All	1979					27.4	23.4	19.8	18.0	14.9	13.1	11.4	10.9					14.5	
GM	Truck	All	1980					27.7	24.6	19.9	18.6	16.5	16.1	13.6	12.9	12.0				17.9	
GM	Truck	All	1981					28.5	30.0	21.4	19.3	17.9	17.2	14.1						19.4	
GM	Truck	All	1982					29.9	26.0	21.0	19.6	18.2	19.3	21.7	21.1					21.0	
GM	Truck	All	1983					32.3	26.7	24.0	20.4	18.3	18.5	20.7	20.8					20.6	
GM	Truck	All	1984					31.1	25.5	23.3	21.0	18.0	17.5	18.7	21.0					20.1	
GM	Truck	All	1985					31.0	26.1	23.2	21.6	17.1	17.0	16.7	21.4					20.0	
GM	Truck	All	1986					30.2	26.7	22.5	20.8	17.6	17.1	16.1	22.2					20.1	
GM	Truck	All	1987					30.0	26.6	22.1	21.2	17.6	16.7	16.9	21.2					20.4	
GM	Truck	All	1988						28.3	22.8	21.2	17.9	17.0	16.6	18.7					20.2	
GM	Truck	All	1989				31.3		27.9	22.7	21.5	17.8	16.8	17.6	15.8					20.3	
GM	Truck	All	1990				31.3	28.7	27.4	22.3	21.2	18.3	17.0	17.4	16.0					19.7	
GM	Truck	All	1991					28.9	26.9	23.5	21.4	18.8	16.6	17.2	15.8	20.2				21.1	
GM	Truck	All	1992					28.9	26.2	23.3	21.3	19.1	17.1	16.3	14.9					20.2	
GM	Truck	All	1993					29.0	25.4	23.6	21.9	19.6	17.3	16.8	15.8					20.1	
GM	Truck	All	1994					28.7	28.1	25.2	21.7	19.6	17.2	16.9	16.2					20.1	
GM	Truck	All	1995				29.0	28.4	27.2	26.5	21.6	19.6	17.1	16.9	15.8					20.0	
GM	Truck	All	1996					28.2	28.2	28.3	22.8	20.6	18.2	17.5	16.8					20.7	
GM	Truck	All	1997					28.1	28.1	27.5	23.0	20.9	18.9	17.7	16.7					20.4	
GM	Truck	All	1998					28.4	27.7	27.8	22.8	20.8	18.0	17.4	18.0					21.1	
GM	Truck	All	1999						28.5	27.2	23.1	20.5	18.5	17.6	16.9					20.2	
GM	Truck	All	2000						28.1	25.6	23.4	20.7	18.8	18.1	16.8					20.6	
GM	Truck	All	2001						27.7	24.1	23.7	20.4	19.3	18.3	17.0					20.0	
GM	Truck	All	2002						27.8	24.6	24.1	20.4	18.9	18.6	18.0					19.6	
GM	Truck	All	2003						27.9	25.3	24.6	20.7	19.2	18.7	17.8					20.0	
GM	Truck	All	2004							24.9	24.8	21.2	19.8	18.9	17.9					19.9	
GM	Truck	All	2005							25.3	24.2	22.0	19.9	19.2	18.5					20.2	
GM	Truck	All	2006							25.0	24.2	22.3	20.3	19.3	18.3					20.7	
GM	Truck	All	2007							23.1	22.8	21.6	20.6	19.9	20.1					20.5	
GM	Truck	All	2008							26.8	23.9	22.6	21.6	20.5	20.0					21.2	
GM	Truck	All	2009							28.3	24.7	22.6	22.8	20.6	20.0					21.4	
GM	Truck	All	2010							28.5	25.2	22.3	23.8	21.5	21.1					22.3	
GM	Truck	All	2011							28.1	25.5	22.0	23.7	21.4	21.4	18.6	15.4			22.0	
GM	Truck	All	2012							26.8	24.3	21.9	23.4	21.0	22.0	18.4	15.4	14.5		22.2	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
GM	All	All	1975				21.6	23.3	22.4	18.0	15.9	14.7	13.4	12.4	10.9	10.6				14.9
GM	All	All	1976			29.4	26.8	25.3	23.4	18.9	17.0	15.8	14.2	13.3	11.9	11.5				16.1
GM	All	All	1977			31.4	26.6	25.2	25.5	19.8	17.6	16.5	14.0	12.3	12.4	12.3				17.2
GM	All	All	1978			30.7	27.7	27.0	26.2	20.3	17.4	15.2	13.0	12.2	11.8	11.7				17.8
GM	All	All	1979			33.5	28.7	27.4	25.2	20.3	17.7	16.0	13.3	11.4	10.9					18.0
GM	All	All	1980			29.9	27.4	26.3	23.9	20.9	19.0	18.1	16.0	13.6	12.9	12.0				21.3
GM	All	All	1981			31.6	29.4	27.5	25.4	22.4	20.5	19.4	17.1	14.1						22.6
GM	All	All	1982			34.3	32.4	28.9	27.0	22.4	20.6	19.3	19.2	21.7	21.1					23.5
GM	All	All	1983			34.7	33.0	30.1	26.6	22.8	20.4	18.9	18.5	20.7	20.8					22.9
GM	All	All	1984			35.6	33.7	30.9	26.5	22.6	20.8	18.7	17.5	18.7	21.0					23.5
GM	All	All	1985	57.4		40.8	33.9	30.9	27.2	23.4	22.2	17.8	17.0	16.7	21.4					24.0
GM	All	All	1986	56.6		40.5	34.8	30.3	27.7	24.2	21.8	18.4	17.1	16.1	22.2					25.1
GM	All	All	1987	57.0	46.1	39.6	34.4	31.5	28.3	24.3	21.8	18.4	16.7	16.9	21.2					25.3
GM	All	All	1988	51.5	45.7	40.0	34.9	32.1	28.6	25.4	21.6	18.6	17.0	16.6	18.7					25.2
GM	All	All	1989	59.5	48.1	40.4	33.2	31.9	28.2	24.9	21.7	18.4	16.8	17.6	15.8					24.8
GM	All	All	1990	65.3	52.2		34.6	31.9	28.4	25.5	21.7	18.6	17.0	17.4	16.0					24.5
GM	All	All	1991	65.3	48.9		35.7	31.4	27.6	25.0	22.2	19.2	16.6	17.2	15.8	20.2				24.8
GM	All	All	1992	65.3	47.8		33.7	31.5	27.5	24.9	21.9	19.7	17.1	16.3	14.9					24.2
GM	All	All	1993	65.3	50.5		34.5	31.4	27.6	25.6	22.3	19.9	17.3	16.9	15.9					24.3
GM	All	All	1994	65.8	49.1		34.1	32.0	29.2	25.6	22.2	19.9	17.2	16.9	16.2					24.1
GM	All	All	1995		54.5	39.5	35.4	32.5	29.8	26.0	22.4	19.8	17.1	17.0	15.8					23.9
GM	All	All	1996				37.2	32.6	30.4	26.6	23.4	20.8	18.2	17.5	16.8					24.7
GM	All	All	1997		54.4	37.9	36.7	32.9	30.4	26.7	23.3	20.9	18.9	17.7	16.7					24.4
GM	All	All	1998		53.6	38.6	36.7	33.4	30.1	26.6	23.2	20.8	18.0	17.4	18.0					24.5
GM	All	All	1999		50.3	38.1	36.9	34.5	30.3	26.5	23.3	20.5	18.5	17.6	16.9					23.7
GM	All	All	2000		50.8	37.8	37.0	35.2	30.3	26.7	24.0	20.7	18.8	18.1	16.8					23.8
GM	All	All	2001			37.3	36.7	35.3	30.7	27.1	24.3	20.4	19.3	18.3	17.0					23.8
GM	All	All	2002				36.7	35.0	30.5	27.8	24.7	20.4	18.9	18.6	18.0					23.2
GM	All	All	2003						32.2	27.7	25.1	20.7	19.2	18.7	17.8					23.1
GM	All	All	2004					34.5	32.6	28.2	25.1	21.2	19.8	18.9	17.9					23.4
GM	All	All	2005					34.3	32.9	28.8	25.2	22.0	19.9	19.2	18.5					23.8
GM	All	All	2006					32.9	32.7	29.0	25.5	22.3	20.3	19.3	18.3	17.9				24.4
GM	All	All	2007					34.4	32.7	29.0	25.8	21.6	20.6	19.9	20.1					23.8
GM	All	All	2008					34.6	34.0	29.1	26.3	22.6	21.6	20.5	20.0	18.0				24.4
GM	All	All	2009					35.5	35.1	31.7	26.7	22.7	22.7	20.6	20.0	17.4				25.6
GM	All	All	2010					36.0	36.0	32.0	28.1	24.7	23.7	21.5	21.0					26.5
GM	All	All	2011					36.3	44.2	33.2	28.6	24.7	23.7	21.4	21.4	18.6	15.4			25.7
GM	All	All	2012						39.4	34.9	29.3	23.5	23.4	21.0	22.0	18.4	15.4	14.5		26.7

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Toyota	Car	Car	1975				23.9	20.8	22.6											21.2	
Toyota	Car	Car	1976				26.8		23.4											25.0	
Toyota	Car	Car	1977			41.0	30.2	25.6	24.6											28.8	
Toyota	Car	Car	1978			39.0	28.9	24.5	21.4											27.0	
Toyota	Car	Car	1979			31.7	26.6		20.8											23.9	
Toyota	Car	Car	1980		37.0	34.1	29.0	26.6	23.2											27.4	
Toyota	Car	Car	1981		44.0	36.6	30.0		27.4											31.1	
Toyota	Car	Car	1982		43.8	35.3	30.1	28.4	26.9	24.3										30.5	
Toyota	Car	Car	1983		47.4	37.9	33.6	33.1	29.0	24.6										31.7	
Toyota	Car	Car	1984		47.2	38.4	36.2	33.2	29.2	24.3										32.8	
Toyota	Car	Car	1985			39.6	34.8	34.1	30.4	24.1										32.1	
Toyota	Car	Car	1986			38.6	35.2	33.2	31.2	23.6	23.2									32.3	
Toyota	Car	Car	1987			41.3	35.6	32.9	33.1	23.6	23.1									33.0	
Toyota	Car	Car	1988			38.5	34.7	33.1	32.1	24.6	23.3									32.7	
Toyota	Car	Car	1989			37.7	34.7	33.3	31.9	24.6	23.0									31.9	
Toyota	Car	Car	1990			38.3	34.7	32.2	31.3	24.4	23.4									30.4	
Toyota	Car	Car	1991			36.2	33.0	32.6	31.0	24.6	23.2									30.6	
Toyota	Car	Car	1992			37.1	33.4	32.4	29.3	26.3	23.0									28.9	
Toyota	Car	Car	1993			37.1	33.3	33.4	29.0	26.6	23.1									28.9	
Toyota	Car	Car	1994			38.3	32.5	33.2	29.9	26.5	23.4									29.0	
Toyota	Car	Car	1995			40.1	39.1	34.2	29.1	27.4	23.9									30.0	
Toyota	Car	Car	1996			40.0	38.4	34.1	28.8	27.1	24.9									29.5	
Toyota	Car	Car	1997			40.8	36.4	33.3	28.4	28.1	24.7									29.8	
Toyota	Car	Car	1998			40.3	37.5	36.6	28.5	28.7	24.4									30.2	
Toyota	Car	Car	1999			40.3	37.2	36.5	28.6	28.7	24.8									30.4	
Toyota	Car	Car	2000			43.1	38.4	36.1	30.1	28.6	24.5									30.5	
Toyota	Car	Car	2001			43.5	39.7	38.1	48.9	28.6	24.0									31.3	
Toyota	Car	Car	2002			43.4	39.5	37.9	53.6	29.3	24.0									30.7	
Toyota	Car	Car	2003			45.1	40.8	38.0	53.2	29.5	24.0									32.2	
Toyota	Car	Car	2004			45.1	40.8	38.2	64.9	30.0	26.8	24.1								32.4	
Toyota	Car	Car	2005			45.1	41.1	39.3	45.9	31.2	27.8	23.7								34.5	
Toyota	Car	Car	2006				41.6	39.4	41.5	31.4	28.5	24.5								34.2	
Toyota	Car	Car	2007				42.4	39.3	47.9	31.9	30.6	25.6								34.9	
Toyota	Car	Car	2008				42.1	39.3	49.3	32.7	30.0	24.7		26.9						36.3	
Toyota	Car	Car	2009				42.0		42.1	32.8	32.2	25.0	23.7	26.9						36.6	
Toyota	Car	Car	2010				42.0		39.0	45.0	31.3	24.8	23.7	26.9						39.6	
Toyota	Car	Car	2011				42.0		39.0	38.5	30.7	25.1	23.7	26.9						36.8	
Toyota	Car	Car	2012			52.3	43.3	70.7	39.0	41.7	31.8	24.7	23.7	26.9						40.4	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Toyota	Car	Wagon	1975				24.2		20.8											22.8
Toyota	Car	Wagon	1976				26.2		22.5											24.6
Toyota	Car	Wagon	1977				29.8		24.4											27.8
Toyota	Car	Wagon	1978				29.0		21.5											25.5
Toyota	Car	Wagon	1979				26.8		20.6											24.9
Toyota	Car	Wagon	1980				28.9		22.8											27.4
Toyota	Car	Wagon	1981				29.6		26.8											29.1
Toyota	Car	Wagon	1982				29.8		25.9											29.3
Toyota	Car	Wagon	1983			38.7	34.7			25.1										34.8
Toyota	Car	Wagon	1984				34.9			25.1										33.9
Toyota	Car	Wagon	1985			38.5	35.4			24.5										35.1
Toyota	Car	Wagon	1986				33.7			23.8										32.1
Toyota	Car	Wagon	1987				32.8		32.7	23.6										32.6
Toyota	Car	Wagon	1988				35.1	33.0	31.6	24.6										31.5
Toyota	Car	Wagon	1989				35.0	33.0	31.0	24.3										30.6
Toyota	Car	Wagon	1990				35.3	32.9	30.7	24.3										29.9
Toyota	Car	Wagon	1991				35.5	33.1	30.7	24.1										30.8
Toyota	Car	Wagon	1992				35.5	32.7	28.7	25.2										28.9
Toyota	Car	Wagon	1993					34.2		25.7										29.7
Toyota	Car	Wagon	1994					33.8		27.4	23.9									29.5
Toyota	Car	Wagon	1995					35.2		27.7	26.8									30.8
Toyota	Car	Wagon	1996					35.3		27.1	26.5									30.6
Toyota	Car	Wagon	1997																	
Toyota	Car	Wagon	1998																	
Toyota	Car	Wagon	1999																	
Toyota	Car	Wagon	2000																	
Toyota	Car	Wagon	2001																	
Toyota	Car	Wagon	2002																	
Toyota	Car	Wagon	2003						35.2											35.2
Toyota	Car	Wagon	2004					37.5	35.5											36.1
Toyota	Car	Wagon	2005					38.3	35.8											37.0
Toyota	Car	Wagon	2006					37.0	35.7											36.5
Toyota	Car	Wagon	2007						36.5											36.5
Toyota	Car	Wagon	2008						36.4	31.6										32.8
Toyota	Car	Wagon	2009						37.0	31.3										33.0
Toyota	Car	Wagon	2010						37.0	31.3										33.3
Toyota	Car	Wagon	2011						36.6	31.5										32.1
Toyota	Car	Wagon	2012						36.7	42.5										42.1

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Toyota	Car	Non-Truck SUV	1975								12.0									12.0
Toyota	Car	Non-Truck SUV	1976								10.7									10.7
Toyota	Car	Non-Truck SUV	1977								13.7									13.7
Toyota	Car	Non-Truck SUV	1978								13.0									13.0
Toyota	Car	Non-Truck SUV	1979								13.8									13.8
Toyota	Car	Non-Truck SUV	1980																	
Toyota	Car	Non-Truck SUV	1981																	
Toyota	Car	Non-Truck SUV	1982																	
Toyota	Car	Non-Truck SUV	1983																	
Toyota	Car	Non-Truck SUV	1984																	
Toyota	Car	Non-Truck SUV	1985																	
Toyota	Car	Non-Truck SUV	1986																	
Toyota	Car	Non-Truck SUV	1987																	
Toyota	Car	Non-Truck SUV	1988																	
Toyota	Car	Non-Truck SUV	1989																	
Toyota	Car	Non-Truck SUV	1990								20.9									20.9
Toyota	Car	Non-Truck SUV	1991								21.4									21.4
Toyota	Car	Non-Truck SUV	1992								17.1									17.1
Toyota	Car	Non-Truck SUV	1993								18.2									18.2
Toyota	Car	Non-Truck SUV	1994																	
Toyota	Car	Non-Truck SUV	1995								21.4									21.4
Toyota	Car	Non-Truck SUV	1996					30.8	30.6	23.5	22.2									25.9
Toyota	Car	Non-Truck SUV	1997					29.8	28.0	24.6										27.9
Toyota	Car	Non-Truck SUV	1998						30.3		23.3									29.8
Toyota	Car	Non-Truck SUV	1999					30.9	30.5		24.5									27.5
Toyota	Car	Non-Truck SUV	2000						30.5		24.2									26.4
Toyota	Car	Non-Truck SUV	2001						30.4		23.9									27.1
Toyota	Car	Non-Truck SUV	2002						30.3	34.1	23.9									27.7
Toyota	Car	Non-Truck SUV	2003						30.3	40.9	23.9									28.4
Toyota	Car	Non-Truck SUV	2004						30.9		25.2									27.2
Toyota	Car	Non-Truck SUV	2005						30.9		25.2									27.8
Toyota	Car	Non-Truck SUV	2006							30.9	26.4									29.0
Toyota	Car	Non-Truck SUV	2007							30.5	25.8									27.8
Toyota	Car	Non-Truck SUV	2008							30.9	26.1									28.2
Toyota	Car	Non-Truck SUV	2009							31.8	27.9									29.2
Toyota	Car	Non-Truck SUV	2010							31.8	29.7	26.9	40.4							29.6
Toyota	Car	Non-Truck SUV	2011							31.8	29.8	26.8	40.3							30.0
Toyota	Car	Non-Truck SUV	2012							31.8	29.6	26.9	40.4							30.1

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Toyota	Car	All	1975				24.2	20.8	21.1		12.0									21.6	
Toyota	Car	All	1976				26.6		23.3		10.7									24.3	
Toyota	Car	All	1977			41.0	30.1	25.6	24.5		13.7									27.8	
Toyota	Car	All	1978			39.0	28.9	24.5	21.4		13.0									26.1	
Toyota	Car	All	1979			31.7	26.6		20.8		13.8									23.8	
Toyota	Car	All	1980		37.0	34.1	29.0	26.6	23.1											27.4	
Toyota	Car	All	1981		44.0	36.6	29.9		27.4											30.9	
Toyota	Car	All	1982		43.8	35.3	30.0	28.4	26.8	24.3										30.4	
Toyota	Car	All	1983		47.4	38.0	34.6	33.1	29.0	24.6										32.6	
Toyota	Car	All	1984		47.2	38.4	35.9	33.2	29.2	24.4										32.9	
Toyota	Car	All	1985			39.6	35.1	34.1	30.4	24.1										32.8	
Toyota	Car	All	1986			38.6	35.0	33.2	31.2	23.6	23.2									32.3	
Toyota	Car	All	1987			41.3	35.4	32.9	33.0	23.6	23.1									32.9	
Toyota	Car	All	1988			38.5	34.7	33.1	32.0	24.6	23.3									32.7	
Toyota	Car	All	1989			37.7	34.7	33.3	31.8	24.5	23.0									31.8	
Toyota	Car	All	1990			38.3	34.7	32.3	31.3	24.4	23.1									30.3	
Toyota	Car	All	1991			36.2	33.0	32.7	31.0	24.6	23.0									30.5	
Toyota	Car	All	1992			37.1	33.4	32.4	29.3	26.2	22.7									28.8	
Toyota	Car	All	1993			37.1	33.3	33.4	29.0	26.6	22.7									28.8	
Toyota	Car	All	1994			38.3	32.5	33.2	29.9	26.5	23.4									29.1	
Toyota	Car	All	1995			40.1	39.1	34.3	29.1	27.5	22.9									29.5	
Toyota	Car	All	1996			40.0	38.4	34.0	30.2	26.9	24.5									29.3	
Toyota	Car	All	1997			40.8	36.4	33.2	28.0	28.1	24.7									29.5	
Toyota	Car	All	1998			40.3	37.5	36.6	30.2	28.7	24.3									30.2	
Toyota	Car	All	1999			40.3	37.2	36.5	30.3	28.7	24.7									30.2	
Toyota	Car	All	2000			43.1	38.4	36.1	30.4	28.6	24.4									30.3	
Toyota	Car	All	2001			43.5	39.7	38.1	34.6	28.6	24.0									30.9	
Toyota	Car	All	2002			43.4	39.5	37.9	35.3	29.3	24.0									30.4	
Toyota	Car	All	2003			45.1	40.8	38.0	34.9	29.5	24.0									32.2	
Toyota	Car	All	2004			45.1	40.8	38.1	39.8	30.0	26.3	24.1								32.1	
Toyota	Car	All	2005			45.1	41.1	39.2	40.5	31.2	27.3	23.7								34.2	
Toyota	Car	All	2006				41.6	38.9	39.9	31.3	28.3	24.5								34.1	
Toyota	Car	All	2007				42.4	39.3	45.8	31.7	30.0	25.6								34.3	
Toyota	Car	All	2008				42.1	39.3	47.9	32.1	29.3	24.7		26.9						35.2	
Toyota	Car	All	2009				42.0		41.7	32.5	30.9	25.0	23.7	26.9						35.6	
Toyota	Car	All	2010				42.0		38.9	42.5	31.0	26.6	30.2	26.9						38.1	
Toyota	Car	All	2011				42.0		39.0	37.6	30.6	26.5	27.8	26.9						35.9	
Toyota	Car	All	2012			52.3	43.3	70.7	38.9	40.9	31.4	26.4	28.5	26.9						39.4	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Toyota	Truck	Van	1975							20.5										20.5
Toyota	Truck	Van	1976																	
Toyota	Truck	Van	1977																	
Toyota	Truck	Van	1978																	
Toyota	Truck	Van	1979																	
Toyota	Truck	Van	1980																	
Toyota	Truck	Van	1981																	
Toyota	Truck	Van	1982																	
Toyota	Truck	Van	1983																	
Toyota	Truck	Van	1984						27.0	27.0										27.0
Toyota	Truck	Van	1985						26.6	26.7										26.6
Toyota	Truck	Van	1986						26.7	26.3										26.3
Toyota	Truck	Van	1987						26.0	25.1	24.3									25.5
Toyota	Truck	Van	1988						26.6	26.0	23.9									25.8
Toyota	Truck	Van	1989						26.8	26.1	23.7									25.9
Toyota	Truck	Van	1990																	
Toyota	Truck	Van	1991								22.9									22.9
Toyota	Truck	Van	1992								22.3									22.3
Toyota	Truck	Van	1993								21.9									21.9
Toyota	Truck	Van	1994								22.0	21.6								22.0
Toyota	Truck	Van	1995								22.7	22.1								22.6
Toyota	Truck	Van	1996								22.6	21.4								22.4
Toyota	Truck	Van	1997								22.6	21.4								22.3
Toyota	Truck	Van	1998								24.2									24.2
Toyota	Truck	Van	1999								24.1									24.1
Toyota	Truck	Van	2000								24.1									24.1
Toyota	Truck	Van	2001								24.7									24.7
Toyota	Truck	Van	2002								24.7									24.7
Toyota	Truck	Van	2003								24.7									24.7
Toyota	Truck	Van	2004								25.7	25.4								25.4
Toyota	Truck	Van	2005									24.7								24.7
Toyota	Truck	Van	2006									24.8								24.8
Toyota	Truck	Van	2007									26.1								26.1
Toyota	Truck	Van	2008									26.1								26.1
Toyota	Truck	Van	2009									26.1								26.1
Toyota	Truck	Van	2010									26.1								26.1
Toyota	Truck	Van	2011									26.6	23.4							26.3
Toyota	Truck	Van	2012									26.8	24.7							26.6

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Toyota	Truck	Truck SUV	1975																		
Toyota	Truck	Truck SUV	1976									11.6								11.6	
Toyota	Truck	Truck SUV	1977									12.7								12.7	
Toyota	Truck	Truck SUV	1978									11.5								11.5	
Toyota	Truck	Truck SUV	1979									13.3								13.3	
Toyota	Truck	Truck SUV	1980								13.8	13.3								13.8	
Toyota	Truck	Truck SUV	1981								14.5	14.1								14.3	
Toyota	Truck	Truck SUV	1982								14.5	14.1								14.2	
Toyota	Truck	Truck SUV	1983								14.5	14.1								14.1	
Toyota	Truck	Truck SUV	1984							22.1		13.5								17.3	
Toyota	Truck	Truck SUV	1985							25.3		13.5								21.1	
Toyota	Truck	Truck SUV	1986							25.7	24.4	13.7								23.3	
Toyota	Truck	Truck SUV	1987							25.2	23.5	13.7								22.7	
Toyota	Truck	Truck SUV	1988							25.6	21.1	15.4								20.3	
Toyota	Truck	Truck SUV	1989								21.3	15.4								19.7	
Toyota	Truck	Truck SUV	1990								20.4	18.7								19.4	
Toyota	Truck	Truck SUV	1991								21.2	19.1	14.9							18.2	
Toyota	Truck	Truck SUV	1992								22.7	17.5	14.5							17.0	
Toyota	Truck	Truck SUV	1993								22.8	17.5	15.6							17.2	
Toyota	Truck	Truck SUV	1994								18.7	17.6	15.6							17.4	
Toyota	Truck	Truck SUV	1995								23.4	17.5	16.7							17.5	
Toyota	Truck	Truck SUV	1996						28.4		20.9		16.7							21.4	
Toyota	Truck	Truck SUV	1997							22.9	20.8		16.7							20.7	
Toyota	Truck	Truck SUV	1998						28.1	26.7	21.1			17.4	17.1					22.1	
Toyota	Truck	Truck SUV	1999						28.3	27.8	22.4	20.9			17.1					22.0	
Toyota	Truck	Truck SUV	2000						28.1	28.1	22.4	20.9			17.1					21.7	
Toyota	Truck	Truck SUV	2001							28.3	23.3	20.5		17.6	16.5					21.7	
Toyota	Truck	Truck SUV	2002							28.5	23.3	20.5		18.1	16.5					21.7	
Toyota	Truck	Truck SUV	2003							28.6	23.9	20.6	19.3	18.2	17.0					21.7	
Toyota	Truck	Truck SUV	2004							28.3	24.8	22.8	19.2	18.0	17.0					22.2	
Toyota	Truck	Truck SUV	2005							28.3	26.0	22.9	19.6	19.0	17.0					22.8	
Toyota	Truck	Truck SUV	2006								27.5	25.5	19.6	19.0	17.3					24.4	
Toyota	Truck	Truck SUV	2007								28.0	23.9	19.6	19.1	17.3					24.2	
Toyota	Truck	Truck SUV	2008								28.8	24.8	24.6		19.7	18.8				24.7	
Toyota	Truck	Truck SUV	2009								29.8	25.0	26.5		19.1	18.3				26.5	
Toyota	Truck	Truck SUV	2010								30.0	25.7	28.9	22.0	19.9	18.4				26.6	
Toyota	Truck	Truck SUV	2011								30.2	25.5	26.2	22.0	19.7	18.5				26.4	
Toyota	Truck	Truck SUV	2012								30.0	25.4	28.4	22.0	19.5	18.6				26.7	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Toyota	Truck	Pickup	1975					21.3												21.3	
Toyota	Truck	Pickup	1976					22.3	20.9	20.5										22.1	
Toyota	Truck	Pickup	1977					27.4		22.0										27.2	
Toyota	Truck	Pickup	1978					24.9	25.0	19.8										24.6	
Toyota	Truck	Pickup	1979					19.7	19.1											19.5	
Toyota	Truck	Pickup	1980					22.7	20.2	16.9										21.5	
Toyota	Truck	Pickup	1981					27.0	26.6	19.4										26.5	
Toyota	Truck	Pickup	1982					26.6	26.6	22.8										25.6	
Toyota	Truck	Pickup	1983					27.6	25.6	22.8										25.5	
Toyota	Truck	Pickup	1984					26.2	26.2	23.2										25.1	
Toyota	Truck	Pickup	1985					31.0	27.2	24.2										27.0	
Toyota	Truck	Pickup	1986					29.9	27.0	24.5	17.8									26.4	
Toyota	Truck	Pickup	1987					29.8	27.7	24.3	17.9									26.6	
Toyota	Truck	Pickup	1988					26.9	26.1	24.6	17.8									25.1	
Toyota	Truck	Pickup	1989					26.5	27.5	23.6	20.3		13.5							23.5	
Toyota	Truck	Pickup	1990					26.0	28.2	23.4	19.7		13.4							23.1	
Toyota	Truck	Pickup	1991						27.5	23.9	19.8		13.1							23.8	
Toyota	Truck	Pickup	1992					28.2	27.7	23.9	18.7		13.1							23.7	
Toyota	Truck	Pickup	1993						28.4	23.1	18.9		13.0							23.8	
Toyota	Truck	Pickup	1994						28.0	23.4	19.9									24.3	
Toyota	Truck	Pickup	1995						27.4	23.4	20.6	19.8								23.3	
Toyota	Truck	Pickup	1996						27.1	23.4	21.0	19.8								23.6	
Toyota	Truck	Pickup	1997							24.2	20.6	19.0								20.4	
Toyota	Truck	Pickup	1998						27.2	22.8	20.7	19.3								23.7	
Toyota	Truck	Pickup	1999						27.2	22.5	21.4									23.2	
Toyota	Truck	Pickup	2000						26.7	22.4	21.4	19.2	18.1							20.8	
Toyota	Truck	Pickup	2001						27.1	23.5	21.6	19.1	18.0							21.2	
Toyota	Truck	Pickup	2002						27.7	25.7	21.3	19.1	18.0							20.9	
Toyota	Truck	Pickup	2003						27.7	26.6	21.3	19.5	18.2							21.0	
Toyota	Truck	Pickup	2004						27.6	26.6	21.2	19.9	18.3	17.7						20.6	
Toyota	Truck	Pickup	2005							27.0	23.4	21.7	19.5	18.7						21.6	
Toyota	Truck	Pickup	2006							27.1	23.6	21.8	19.6	18.7						21.7	
Toyota	Truck	Pickup	2007							28.5	23.8	22.0	21.2	20.1	18.7					21.3	
Toyota	Truck	Pickup	2008							28.4	23.9	22.2	21.3	19.9	18.5					21.1	
Toyota	Truck	Pickup	2009							28.9	25.0	22.5	21.3	19.9	18.9					23.5	
Toyota	Truck	Pickup	2010							28.4	24.9	22.4	21.4	21.1	19.1					21.6	
Toyota	Truck	Pickup	2011							28.7	25.3	22.5	22.8	21.1	19.0					21.9	
Toyota	Truck	Pickup	2012							28.5	25.7	23.1	22.7	20.5	19.0					21.9	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Toyota	Truck	All	1975					21.3		20.5										21.3
Toyota	Truck	All	1976					22.3	20.9	20.5		11.6								21.5
Toyota	Truck	All	1977					27.4		22.0		12.7								26.8
Toyota	Truck	All	1978					24.9	25.0	19.8		11.5								23.8
Toyota	Truck	All	1979					19.7	19.1			13.3								19.5
Toyota	Truck	All	1980					22.7	20.2	16.9	13.8	13.3								21.4
Toyota	Truck	All	1981					27.0	26.6	19.4	14.5	14.1								26.2
Toyota	Truck	All	1982					26.6	26.6	22.8	14.5	14.1								25.2
Toyota	Truck	All	1983					27.6	25.6	22.8	14.5	14.1								25.0
Toyota	Truck	All	1984					26.2	26.4	24.2		13.5								24.9
Toyota	Truck	All	1985					31.0	27.0	24.8		13.5								26.5
Toyota	Truck	All	1986					29.9	27.0	24.9	22.0	13.7								26.1
Toyota	Truck	All	1987					29.8	27.0	24.5	21.1	13.7								25.9
Toyota	Truck	All	1988					26.9	26.1	24.7	20.1	15.4								24.4
Toyota	Truck	All	1989					26.5	27.5	23.9	20.7	15.4	13.5							23.2
Toyota	Truck	All	1990					26.0	28.2	23.4	20.0	18.7	13.4							21.9
Toyota	Truck	All	1991						27.5	23.9	21.8	19.1	14.3							22.4
Toyota	Truck	All	1992					28.2	27.7	23.9	20.6	17.5	14.0							22.0
Toyota	Truck	All	1993						28.4	23.1	20.2	17.5	14.7							22.3
Toyota	Truck	All	1994						28.0	23.4	20.0	17.6	15.6							22.0
Toyota	Truck	All	1995						27.4	23.4	21.1	17.9	16.7							21.2
Toyota	Truck	All	1996						27.4	23.4	21.0	20.0	16.7							22.8
Toyota	Truck	All	1997							23.0	20.8	19.4	16.7							20.7
Toyota	Truck	All	1998						27.2	24.5	21.9	19.3		17.4	17.1					23.1
Toyota	Truck	All	1999						27.2	24.3	22.6	20.9			17.1					22.6
Toyota	Truck	All	2000						26.7	24.1	22.8	19.7	18.1		17.1					21.7
Toyota	Truck	All	2001						27.1	25.6	23.1	19.8	18.0	17.6	16.5					21.8
Toyota	Truck	All	2002						27.7	27.3	22.9	19.7	18.0	18.1	16.5					21.7
Toyota	Truck	All	2003						27.7	27.8	23.0	20.1	18.6	18.2	17.0					21.6
Toyota	Truck	All	2004						27.6	27.7	22.8	23.9	18.7	17.9	17.0					22.4
Toyota	Truck	All	2005							27.9	24.4	23.4	19.5	18.9	17.0					22.7
Toyota	Truck	All	2006							27.1	25.3	24.7	19.6	18.8	17.3					23.4
Toyota	Truck	All	2007							28.5	26.1	24.2	20.2	19.7	18.7					23.2
Toyota	Truck	All	2008							28.4	26.2	24.9	23.9	19.9	18.7	18.8				23.5
Toyota	Truck	All	2009							28.9	27.8	24.7	25.5	19.9	18.9	18.3				25.4
Toyota	Truck	All	2010							28.4	28.3	25.1	28.1	21.3	19.2	18.4				24.7
Toyota	Truck	All	2011							28.7	28.5	25.5	25.2	21.4	19.1	18.5				24.9
Toyota	Truck	All	2012							28.5	28.6	25.3	26.7	20.8	19.0	18.6				24.8

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Toyota	All	All	1975				24.2	20.9	21.1	20.5	12.0									21.6
Toyota	All	All	1976				26.6	22.3	23.3	20.5	10.7	11.6								24.0
Toyota	All	All	1977			41.0	30.1	26.5	24.5	22.0	13.7	12.7								27.7
Toyota	All	All	1978			39.0	28.9	24.6	22.4	19.8	13.0	11.5								25.7
Toyota	All	All	1979			31.7	26.6	19.7	20.6		13.8	13.3								22.9
Toyota	All	All	1980		37.0	34.1	29.0	23.0	22.5	16.9	13.8	13.3								25.9
Toyota	All	All	1981		44.0	36.6	29.9	27.0	27.2	19.4	14.5	14.1								29.9
Toyota	All	All	1982		43.8	35.3	30.0	27.6	26.8	23.4	14.5	14.1								29.1
Toyota	All	All	1983		47.4	38.0	34.6	29.9	27.9	23.8	14.5	14.1								30.5
Toyota	All	All	1984		47.2	38.4	35.9	29.4	27.8	24.3		13.5								29.7
Toyota	All	All	1985			39.6	35.1	32.6	28.3	24.6		13.5								30.0
Toyota	All	All	1986			38.6	35.0	31.8	29.3	24.6	22.2	13.7								29.4
Toyota	All	All	1987			41.3	35.4	30.7	31.7	24.4	22.3	13.7								30.0
Toyota	All	All	1988			38.5	34.7	29.2	30.9	24.7	21.1	15.4								29.6
Toyota	All	All	1989			37.7	34.7	30.8	30.9	24.2	21.2	15.4	13.5							28.9
Toyota	All	All	1990			38.3	34.7	31.3	30.8	24.0	21.4	18.7	13.4							27.8
Toyota	All	All	1991			36.2	33.0	32.7	30.1	24.3	22.1	19.1	14.3							27.5
Toyota	All	All	1992			37.1	33.4	32.0	28.4	25.9	21.7	17.5	14.0							26.8
Toyota	All	All	1993			37.1	33.3	33.4	28.5	25.9	21.6	17.5	14.7							26.7
Toyota	All	All	1994			38.3	32.5	33.2	28.2	26.0	21.4	17.6	15.6							26.4
Toyota	All	All	1995			40.1	39.1	34.3	27.6	27.0	22.0	17.9	16.7							27.0
Toyota	All	All	1996			40.0	38.4	34.0	27.9	26.5	21.9	20.0	16.7							27.4
Toyota	All	All	1997			40.8	36.4	33.2	28.0	27.5	21.3	19.4	16.7							27.1
Toyota	All	All	1998			40.3	37.5	36.6	28.0	27.9	22.4	19.3		17.4	17.1					27.4
Toyota	All	All	1999			40.3	37.2	36.5	28.3	28.1	22.9	20.9			17.1					27.1
Toyota	All	All	2000			43.1	38.4	36.1	28.2	28.1	23.0	19.7	18.1		17.1					26.2
Toyota	All	All	2001			43.5	39.7	38.1	32.1	28.0	23.3	19.8	18.0	17.6	16.5					26.5
Toyota	All	All	2002			43.4	39.5	37.9	33.3	29.1	23.1	19.7	18.0	18.1	16.5					26.0
Toyota	All	All	2003			45.1	40.8	38.0	33.7	29.3	23.1	20.1	18.6	18.2	17.0					27.1
Toyota	All	All	2004			45.1	40.8	38.1	37.6	29.7	24.2	23.9	18.7	17.9	17.0					26.6
Toyota	All	All	2005			45.1	41.1	39.2	40.5	30.8	25.8	23.5	19.5	18.9	17.0					28.8
Toyota	All	All	2006				41.6	38.9	39.9	30.9	26.8	24.7	19.6	18.8	17.3					28.4
Toyota	All	All	2007				42.4	39.3	45.8	31.6	28.7	24.3	20.2	19.7	18.7					29.6
Toyota	All	All	2008				42.1	39.3	47.9	31.8	28.2	24.9	23.9	20.1	18.7	18.8				29.0
Toyota	All	All	2009				42.0		41.7	32.4	29.7	24.7	25.2	20.1	18.9	18.3				32.4
Toyota	All	All	2010				42.0		38.9	42.1	29.7	25.4	28.4	21.3	19.2	18.4				32.4
Toyota	All	All	2011				42.0		39.0	37.5	29.6	25.6	25.4	21.4	19.1	18.5				30.6
Toyota	All	All	2012			52.3	43.3	70.7	38.9	40.6	29.8	25.4	26.9	20.8	19.0	18.6				32.8

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Honda	Car	Car	1975		31.4															31.4	
Honda	Car	Car	1976		32.9	32.5														32.9	
Honda	Car	Car	1977		36.4	35.6														36.2	
Honda	Car	Car	1978		33.5	34.5														34.0	
Honda	Car	Car	1979		30.9		27.9													29.0	
Honda	Car	Car	1980		33.6		27.1													28.9	
Honda	Car	Car	1981		36.1	33.6	28.5													30.6	
Honda	Car	Car	1982		40.5	35.9	30.8													33.2	
Honda	Car	Car	1983		44.7	36.5	33.6													35.2	
Honda	Car	Car	1984		44.0	36.0	33.5													35.1	
Honda	Car	Car	1985		44.4	36.4	32.1	30.4												33.7	
Honda	Car	Car	1986		47.6	38.0	32.2	31.8		24.7										33.5	
Honda	Car	Car	1987		52.0	38.1	33.3	31.8		24.3										32.8	
Honda	Car	Car	1988		60.4	39.8	35.8	31.9	29.7	23.6										31.8	
Honda	Car	Car	1989		60.3	39.6	34.9	32.6	29.2	23.4										31.2	
Honda	Car	Car	1990			44.4	37.3	31.5	28.9	23.4										30.3	
Honda	Car	Car	1991			44.7	37.3	32.9	28.8	24.3										30.4	
Honda	Car	Car	1992			52.8	41.4	36.9	29.8	26.1	24.2									31.0	
Honda	Car	Car	1993			52.3	41.5	36.5	30.1	27.1	24.0									32.2	
Honda	Car	Car	1994			50.5	42.9	35.9	30.5	30.0	24.0									32.1	
Honda	Car	Car	1995			55.6	41.4	36.6	30.6	28.9	24.0									32.9	
Honda	Car	Car	1996				41.3	37.0	30.8	28.1	24.3									31.9	
Honda	Car	Car	1997				41.8	36.9	30.7	28.0	24.3									32.2	
Honda	Car	Car	1998				41.3	37.2	32.0	29.1	24.3									32.0	
Honda	Car	Car	1999				40.9	36.2	32.1	28.6	23.5									30.9	
Honda	Car	Car	2000		76.4		40.7	36.0	29.9	28.5	23.2									31.0	
Honda	Car	Car	2001		75.6	66.4		39.3	29.0	28.7	26.0									32.2	
Honda	Car	Car	2002		75.3	66.4		39.3	31.4	28.9	25.5									32.0	
Honda	Car	Car	2003		75.1	66.4		38.9	38.6	30.1	26.5									32.7	
Honda	Car	Car	2004		73.8	66.4		38.7	38.7	30.5	26.8									32.7	
Honda	Car	Car	2005		74.3	66.4		38.6	38.7	31.0	26.4									32.8	
Honda	Car	Car	2006		73.8	66.4		39.2	39.4	30.8	26.9									33.5	
Honda	Car	Car	2007					39.2	39.2	30.9	27.2									33.4	
Honda	Car	Car	2008					39.2	39.6	31.8	28.3									33.8	
Honda	Car	Car	2009					39.2	39.8	32.0	28.4	23.8								34.1	
Honda	Car	Car	2010					39.2	41.7	32.5	28.3	23.8								35.2	
Honda	Car	Car	2011					39.2	41.2	34.7	29.8	25.7								36.1	
Honda	Car	Car	2012						44.9	34.7	30.2	25.7								37.9	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Honda	Car	Wagon	1975																	
Honda	Car	Wagon	1976			29.4														29.4
Honda	Car	Wagon	1977			31.9														31.9
Honda	Car	Wagon	1978			31.5														31.5
Honda	Car	Wagon	1979			29.9														29.9
Honda	Car	Wagon	1980			32.5														32.5
Honda	Car	Wagon	1981			33.7														33.7
Honda	Car	Wagon	1982			36.7														36.7
Honda	Car	Wagon	1983			36.7														36.7
Honda	Car	Wagon	1984			36.1														36.1
Honda	Car	Wagon	1985			36.1	31.6													34.8
Honda	Car	Wagon	1986			37.7	31.9													34.6
Honda	Car	Wagon	1987			37.3	32.1													34.2
Honda	Car	Wagon	1988				37.0	30.6												34.2
Honda	Car	Wagon	1989				35.6	30.0												34.7
Honda	Car	Wagon	1990				38.5	33.7	29.9											35.2
Honda	Car	Wagon	1991				38.4	33.4	29.7	26.6										28.7
Honda	Car	Wagon	1992							27.1										27.1
Honda	Car	Wagon	1993							27.6										27.6
Honda	Car	Wagon	1994							29.0										29.0
Honda	Car	Wagon	1995							29.0										29.0
Honda	Car	Wagon	1996							28.5										28.5
Honda	Car	Wagon	1997							27.2										27.2
Honda	Car	Wagon	1998																	
Honda	Car	Wagon	1999																	
Honda	Car	Wagon	2000																	
Honda	Car	Wagon	2001																	
Honda	Car	Wagon	2002																	
Honda	Car	Wagon	2003																	
Honda	Car	Wagon	2004																	
Honda	Car	Wagon	2005																	
Honda	Car	Wagon	2006																	
Honda	Car	Wagon	2007					39.8												39.8
Honda	Car	Wagon	2008					39.9												39.9
Honda	Car	Wagon	2009					40.1												40.1
Honda	Car	Wagon	2010					40.2												40.2
Honda	Car	Wagon	2011					40.9			32.5									40.2
Honda	Car	Wagon	2012					40.8			32.5									40.3

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)																	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000	8000	8500		
Honda	Car	Non-Truck SUV	1975																		
Honda	Car	Non-Truck SUV	1976																		
Honda	Car	Non-Truck SUV	1977																		
Honda	Car	Non-Truck SUV	1978																		
Honda	Car	Non-Truck SUV	1979																		
Honda	Car	Non-Truck SUV	1980																		
Honda	Car	Non-Truck SUV	1981																		
Honda	Car	Non-Truck SUV	1982																		
Honda	Car	Non-Truck SUV	1983																		
Honda	Car	Non-Truck SUV	1984																		
Honda	Car	Non-Truck SUV	1985																		
Honda	Car	Non-Truck SUV	1986																		
Honda	Car	Non-Truck SUV	1987																		
Honda	Car	Non-Truck SUV	1988																		
Honda	Car	Non-Truck SUV	1989																		
Honda	Car	Non-Truck SUV	1990																		
Honda	Car	Non-Truck SUV	1991																		
Honda	Car	Non-Truck SUV	1992																		
Honda	Car	Non-Truck SUV	1993																		
Honda	Car	Non-Truck SUV	1994								20.4									20.4	
Honda	Car	Non-Truck SUV	1995																		
Honda	Car	Non-Truck SUV	1996								19.9									19.9	
Honda	Car	Non-Truck SUV	1997								19.4									19.4	
Honda	Car	Non-Truck SUV	1998							27.4	21.1									25.1	
Honda	Car	Non-Truck SUV	1999							27.5	21.1									25.1	
Honda	Car	Non-Truck SUV	2000							27.5	21.2									25.5	
Honda	Car	Non-Truck SUV	2001							27.5	21.7									26.1	
Honda	Car	Non-Truck SUV	2002							29.7	21.7									28.8	
Honda	Car	Non-Truck SUV	2003							29.7										29.7	
Honda	Car	Non-Truck SUV	2004							29.4										29.4	
Honda	Car	Non-Truck SUV	2005							29.7										29.7	
Honda	Car	Non-Truck SUV	2006							29.7										29.7	
Honda	Car	Non-Truck SUV	2007							29.9										29.9	
Honda	Car	Non-Truck SUV	2008							29.7										29.7	
Honda	Car	Non-Truck SUV	2009							29.7										29.7	
Honda	Car	Non-Truck SUV	2010							31.2	27.5									31.0	
Honda	Car	Non-Truck SUV	2011							31.2	27.5									30.9	
Honda	Car	Non-Truck SUV	2012							34.2	27.5									33.7	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Honda	Car	All	1975		31.4															31.4	
Honda	Car	All	1976		32.9	29.5														32.6	
Honda	Car	All	1977		36.4	33.9														35.5	
Honda	Car	All	1978		33.5	33.9														33.7	
Honda	Car	All	1979		30.9	29.9	27.9													29.0	
Honda	Car	All	1980		33.6	32.5	27.1													29.2	
Honda	Car	All	1981		36.1	33.6	28.5													30.8	
Honda	Car	All	1982		40.5	36.1	30.8													33.4	
Honda	Car	All	1983		44.7	36.6	33.6													35.3	
Honda	Car	All	1984		44.0	36.0	33.5													35.2	
Honda	Car	All	1985		44.4	36.4	32.1	30.4												33.8	
Honda	Car	All	1986		47.6	37.9	32.2	31.8		24.7										33.6	
Honda	Car	All	1987		52.0	38.1	33.1	31.8		24.3										32.8	
Honda	Car	All	1988		60.4	39.8	35.9	31.9	29.7	23.6										31.8	
Honda	Car	All	1989		60.3	39.6	34.9	32.6	29.2	23.4										31.3	
Honda	Car	All	1990			44.4	37.3	31.7	28.9	23.4										30.4	
Honda	Car	All	1991			44.7	37.3	32.9	28.8	24.7										30.3	
Honda	Car	All	1992			52.8	41.4	36.9	29.8	26.2	24.2									30.9	
Honda	Car	All	1993			52.3	41.5	36.5	30.1	27.1	24.0									32.2	
Honda	Car	All	1994			50.5	42.9	35.9	30.5	29.9	23.2									31.9	
Honda	Car	All	1995			55.6	41.4	36.6	30.6	28.9	24.0									32.8	
Honda	Car	All	1996				41.3	37.0	30.8	28.2	23.1									31.6	
Honda	Car	All	1997				41.8	36.9	30.7	28.0	23.2									32.0	
Honda	Car	All	1998				41.3	37.2	32.0	29.0	23.4									31.7	
Honda	Car	All	1999				40.9	36.2	32.1	28.5	22.3									30.6	
Honda	Car	All	2000		76.4		40.7	36.0	29.9	28.5	22.4									30.8	
Honda	Car	All	2001		75.6	66.4		39.3	29.0	28.6	24.9									31.9	
Honda	Car	All	2002		75.3	66.4		39.3	31.4	29.0	25.3									31.8	
Honda	Car	All	2003		75.1	66.4		38.9	38.6	30.0	26.5									32.6	
Honda	Car	All	2004		73.8	66.4		38.7	38.7	30.4	26.8									32.6	
Honda	Car	All	2005		74.3	66.4		38.6	38.7	30.9	26.4									32.7	
Honda	Car	All	2006		73.8	66.4		39.2	39.4	30.7	26.9									33.3	
Honda	Car	All	2007					39.8	39.2	30.7	27.2									33.5	
Honda	Car	All	2008					39.9	39.6	31.3	28.3									33.8	
Honda	Car	All	2009					40.1	39.8	31.5	28.4	23.8								34.2	
Honda	Car	All	2010					40.2	41.7	32.3	28.3	23.8								35.1	
Honda	Car	All	2011					40.9	41.2	33.6	29.7	25.7								35.4	
Honda	Car	All	2012					40.8	44.9	34.6	30.2	25.7								37.7	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Honda	Truck	Van	1975																		
Honda	Truck	Van	1976																		
Honda	Truck	Van	1977																		
Honda	Truck	Van	1978																		
Honda	Truck	Van	1979																		
Honda	Truck	Van	1980																		
Honda	Truck	Van	1981																		
Honda	Truck	Van	1982																		
Honda	Truck	Van	1983																		
Honda	Truck	Van	1984																		
Honda	Truck	Van	1985																		
Honda	Truck	Van	1986																		
Honda	Truck	Van	1987																		
Honda	Truck	Van	1988																		
Honda	Truck	Van	1989																		
Honda	Truck	Van	1990																		
Honda	Truck	Van	1991																		
Honda	Truck	Van	1992																		
Honda	Truck	Van	1993																		
Honda	Truck	Van	1994																		
Honda	Truck	Van	1995							25.5										25.5	
Honda	Truck	Van	1996							28.5										28.5	
Honda	Truck	Van	1997							24.9										24.9	
Honda	Truck	Van	1998							27.0										27.0	
Honda	Truck	Van	1999									24.1								24.1	
Honda	Truck	Van	2000									23.9								23.9	
Honda	Truck	Van	2001									24.0								24.0	
Honda	Truck	Van	2002									24.2								24.2	
Honda	Truck	Van	2003									24.2								24.2	
Honda	Truck	Van	2004									24.2								24.2	
Honda	Truck	Van	2005									26.0								26.0	
Honda	Truck	Van	2006									26.1								26.1	
Honda	Truck	Van	2007									24.7								24.7	
Honda	Truck	Van	2008									25.2								25.2	
Honda	Truck	Van	2009									23.9	25.9							25.2	
Honda	Truck	Van	2010									23.9	25.4							24.9	
Honda	Truck	Van	2011									27.8								27.8	
Honda	Truck	Van	2012									27.8								27.8	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Honda	Truck	Truck SUV	1975																		
Honda	Truck	Truck SUV	1976																		
Honda	Truck	Truck SUV	1977																		
Honda	Truck	Truck SUV	1978																		
Honda	Truck	Truck SUV	1979																		
Honda	Truck	Truck SUV	1980																		
Honda	Truck	Truck SUV	1981																		
Honda	Truck	Truck SUV	1982																		
Honda	Truck	Truck SUV	1983																		
Honda	Truck	Truck SUV	1984																		
Honda	Truck	Truck SUV	1985																		
Honda	Truck	Truck SUV	1986																		
Honda	Truck	Truck SUV	1987																		
Honda	Truck	Truck SUV	1988																		
Honda	Truck	Truck SUV	1989																		
Honda	Truck	Truck SUV	1990																		
Honda	Truck	Truck SUV	1991																		
Honda	Truck	Truck SUV	1992																		
Honda	Truck	Truck SUV	1993																		
Honda	Truck	Truck SUV	1994								20.1									20.1	
Honda	Truck	Truck SUV	1995																		
Honda	Truck	Truck SUV	1996									19.0								19.0	
Honda	Truck	Truck SUV	1997							26.9		19.2								25.1	
Honda	Truck	Truck SUV	1998							26.8	21.1	19.4								25.5	
Honda	Truck	Truck SUV	1999							27.1	21.1	19.4								25.9	
Honda	Truck	Truck SUV	2000							27.1		20.5								26.2	
Honda	Truck	Truck SUV	2001							27.1		22.2								25.1	
Honda	Truck	Truck SUV	2002							27.9	21.4	22.4								25.8	
Honda	Truck	Truck SUV	2003							27.6	26.5	22.5								24.7	
Honda	Truck	Truck SUV	2004							27.5	26.4	22.3								24.4	
Honda	Truck	Truck SUV	2005							28.1	26.4	21.8								24.1	
Honda	Truck	Truck SUV	2006							28.1	26.4	22.4								24.5	
Honda	Truck	Truck SUV	2007							26.4	27.7	22.4								25.0	
Honda	Truck	Truck SUV	2008							26.4	28.0	22.3								25.3	
Honda	Truck	Truck SUV	2009								28.4	23.4								25.7	
Honda	Truck	Truck SUV	2010								29.2	24.0	23.0							27.0	
Honda	Truck	Truck SUV	2011								29.8	24.0	23.0							26.3	
Honda	Truck	Truck SUV	2012							33.0	30.4	26.0	23.5							28.4	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Honda	Truck	Pickup	1975																	
Honda	Truck	Pickup	1976																	
Honda	Truck	Pickup	1977																	
Honda	Truck	Pickup	1978																	
Honda	Truck	Pickup	1979																	
Honda	Truck	Pickup	1980																	
Honda	Truck	Pickup	1981																	
Honda	Truck	Pickup	1982																	
Honda	Truck	Pickup	1983																	
Honda	Truck	Pickup	1984																	
Honda	Truck	Pickup	1985																	
Honda	Truck	Pickup	1986																	
Honda	Truck	Pickup	1987																	
Honda	Truck	Pickup	1988																	
Honda	Truck	Pickup	1989																	
Honda	Truck	Pickup	1990																	
Honda	Truck	Pickup	1991																	
Honda	Truck	Pickup	1992																	
Honda	Truck	Pickup	1993																	
Honda	Truck	Pickup	1994																	
Honda	Truck	Pickup	1995																	
Honda	Truck	Pickup	1996																	
Honda	Truck	Pickup	1997																	
Honda	Truck	Pickup	1998																	
Honda	Truck	Pickup	1999																	
Honda	Truck	Pickup	2000																	
Honda	Truck	Pickup	2001																	
Honda	Truck	Pickup	2002																	
Honda	Truck	Pickup	2003																	
Honda	Truck	Pickup	2004																	
Honda	Truck	Pickup	2005																	
Honda	Truck	Pickup	2006									21.4								21.4
Honda	Truck	Pickup	2007									21.4								21.4
Honda	Truck	Pickup	2008									21.4								21.4
Honda	Truck	Pickup	2009									22.0								22.0
Honda	Truck	Pickup	2010									22.0								22.0
Honda	Truck	Pickup	2011									22.0								22.0
Honda	Truck	Pickup	2012										22.6							22.6

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Honda	Truck	All	1975																		
Honda	Truck	All	1976																		
Honda	Truck	All	1977																		
Honda	Truck	All	1978																		
Honda	Truck	All	1979																		
Honda	Truck	All	1980																		
Honda	Truck	All	1981																		
Honda	Truck	All	1982																		
Honda	Truck	All	1983																		
Honda	Truck	All	1984																		
Honda	Truck	All	1985																		
Honda	Truck	All	1986																		
Honda	Truck	All	1987																		
Honda	Truck	All	1988																		
Honda	Truck	All	1989																		
Honda	Truck	All	1990																		
Honda	Truck	All	1991																		
Honda	Truck	All	1992																		
Honda	Truck	All	1993																		
Honda	Truck	All	1994								20.1									20.1	
Honda	Truck	All	1995							25.5										25.5	
Honda	Truck	All	1996							28.5		19.0								22.7	
Honda	Truck	All	1997							26.4		19.2								25.1	
Honda	Truck	All	1998							26.9	21.1	19.4								25.7	
Honda	Truck	All	1999							27.1	21.1	24.0								25.3	
Honda	Truck	All	2000							27.1		23.6								24.9	
Honda	Truck	All	2001							27.1		23.5								24.6	
Honda	Truck	All	2002							27.9	21.4	23.7								25.0	
Honda	Truck	All	2003							27.6	26.5	23.3								24.6	
Honda	Truck	All	2004							27.5	26.4	23.0								24.3	
Honda	Truck	All	2005							28.1	26.4	23.5								24.7	
Honda	Truck	All	2006							28.1	26.4	23.6								24.5	
Honda	Truck	All	2007							26.4	27.7	23.3								24.5	
Honda	Truck	All	2008							26.4	28.0	23.3								24.9	
Honda	Truck	All	2009								28.4	23.3	25.9							25.4	
Honda	Truck	All	2010								29.2	23.7	24.6							26.2	
Honda	Truck	All	2011								29.8	25.1	23.0							26.4	
Honda	Truck	All	2012							33.0	30.4	27.0	23.2							28.0	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Honda	All	All	1975		31.4															31.4	
Honda	All	All	1976		32.9	29.5														32.6	
Honda	All	All	1977		36.4	33.9														35.5	
Honda	All	All	1978		33.5	33.9														33.7	
Honda	All	All	1979		30.9	29.9	27.9													29.0	
Honda	All	All	1980		33.6	32.5	27.1													29.2	
Honda	All	All	1981		36.1	33.6	28.5													30.8	
Honda	All	All	1982		40.5	36.1	30.8													33.4	
Honda	All	All	1983		44.7	36.6	33.6													35.3	
Honda	All	All	1984		44.0	36.0	33.5													35.2	
Honda	All	All	1985		44.4	36.4	32.1	30.4												33.8	
Honda	All	All	1986		47.6	37.9	32.2	31.8		24.7										33.6	
Honda	All	All	1987		52.0	38.1	33.1	31.8		24.3										32.8	
Honda	All	All	1988		60.4	39.8	35.9	31.9	29.7	23.6										31.8	
Honda	All	All	1989		60.3	39.6	34.9	32.6	29.2	23.4										31.3	
Honda	All	All	1990			44.4	37.3	31.7	28.9	23.4										30.4	
Honda	All	All	1991			44.7	37.3	32.9	28.8	24.7										30.3	
Honda	All	All	1992			52.8	41.4	36.9	29.8	26.2	24.2									30.9	
Honda	All	All	1993			52.3	41.5	36.5	30.1	27.1	24.0									32.2	
Honda	All	All	1994			50.5	42.9	35.9	30.5	29.9	22.2									31.5	
Honda	All	All	1995			55.6	41.4	36.6	30.6	28.4	24.0									32.4	
Honda	All	All	1996				41.3	37.0	30.8	28.2	23.1	19.0								31.0	
Honda	All	All	1997				41.8	36.9	30.7	27.4	23.2	19.2								31.0	
Honda	All	All	1998				41.3	37.2	32.0	28.6	22.6	19.4								30.9	
Honda	All	All	1999				40.9	36.2	32.1	28.3	21.8	24.0								29.6	
Honda	All	All	2000		76.4		40.7	36.0	29.9	28.3	22.4	23.6								29.4	
Honda	All	All	2001		75.6	66.4		39.3	29.0	28.4	24.9	23.5								29.9	
Honda	All	All	2002		75.3	66.4		39.3	31.4	28.8	25.3	23.7								29.8	
Honda	All	All	2003		75.1	66.4		38.9	38.6	29.5	26.5	23.3								29.1	
Honda	All	All	2004		73.8	66.4		38.7	38.7	29.7	26.7	23.0								28.9	
Honda	All	All	2005		74.3	66.4		38.6	38.7	30.2	26.4	23.5								29.1	
Honda	All	All	2006		73.8	66.4		39.2	39.4	30.0	26.8	23.6								28.9	
Honda	All	All	2007					39.8	39.2	30.7	27.6	23.3								29.3	
Honda	All	All	2008					39.9	39.6	31.3	28.1	23.3								30.1	
Honda	All	All	2009					40.1	39.8	31.5	28.4	23.3	25.9							31.1	
Honda	All	All	2010					40.2	41.7	32.3	28.8	23.7	24.6							31.5	
Honda	All	All	2011					40.9	41.2	33.6	29.8	25.1	23.0							30.4	
Honda	All	All	2012					40.8	44.9	34.3	30.3	27.0	23.2							33.5	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Ford	Car	Car	1975					27.8	22.1	16.5	13.5	12.9	11.4	11.4						14.0
Ford	Car	Car	1976					27.8	25.5	18.6	17.1	15.2	14.6	13.2						16.7
Ford	Car	Car	1977					27.6	23.9	19.2	18.3	16.3	14.3	12.7						16.6
Ford	Car	Car	1978		37.3			26.1	22.1	19.7	18.3	16.7	14.6	13.5						18.6
Ford	Car	Car	1979		32.1			25.2	21.9	19.4	17.8	16.2	13.9							19.2
Ford	Car	Car	1980		29.8			25.7	23.6	20.1	19.0	18.2								22.5
Ford	Car	Car	1981		39.0	33.2	27.7	25.4	22.9	20.3	18.8									23.0
Ford	Car	Car	1982			34.5	31.2		22.4	20.8	19.7									24.4
Ford	Car	Car	1983			33.2	30.6		22.6	22.4	19.8									23.6
Ford	Car	Car	1984			38.5	32.6	29.1	25.6	23.2	20.0									25.2
Ford	Car	Car	1985			39.3	33.9	30.8	28.0	23.1	20.7	10.4								25.9
Ford	Car	Car	1986			32.5	34.1	31.0	27.9	24.5	22.0	10.4								26.6
Ford	Car	Car	1987				34.9	30.5	27.4	24.9	21.8	10.9								26.6
Ford	Car	Car	1988		45.7		34.2	31.9	27.5	25.6	22.6	10.9	10.9							27.1
Ford	Car	Car	1989		41.4		34.0	31.6	27.9	26.0	23.5	10.9								27.1
Ford	Car	Car	1990		44.4	37.8	34.6	31.9	27.7	26.1	23.5									26.4
Ford	Car	Car	1991		43.8	37.7	38.7	32.9	25.8	26.0	23.8	15.4								27.1
Ford	Car	Car	1992		44.7	37.7	39.4	32.8	27.4	26.3	24.3	17.1								26.6
Ford	Car	Car	1993		44.9	37.6	38.8	32.9	28.3	26.2	24.2	15.1								27.4
Ford	Car	Car	1994			41.1	38.6	34.1	28.3	26.1	23.8				13.9					26.7
Ford	Car	Car	1995			41.1	36.8	34.6	30.9	26.5	23.4				13.9					27.3
Ford	Car	Car	1996			39.8	37.4	34.3	29.3	26.0	23.4									26.2
Ford	Car	Car	1997			42.5	34.2	34.4	30.2	25.7	23.3	19.0								26.7
Ford	Car	Car	1998					33.8	30.8	26.0	23.0									27.4
Ford	Car	Car	1999					34.1	31.0	26.4	23.3									27.2
Ford	Car	Car	2000					33.5	32.3	26.2	23.5	21.8								27.1
Ford	Car	Car	2001					33.6	33.6	25.5	23.6	22.7								26.7
Ford	Car	Car	2002					33.6	32.4	26.4	23.3	22.4								27.0
Ford	Car	Car	2003					33.1	32.4	26.2	23.4	23.5								26.6
Ford	Car	Car	2004					35.9	31.6	26.0	23.8	23.1								25.7
Ford	Car	Car	2005						33.0	26.5	25.5	24.0								27.1
Ford	Car	Car	2006						33.7	27.3	25.1	23.0								26.8
Ford	Car	Car	2007						35.3	27.1	24.9	22.9				19.1				27.7
Ford	Car	Car	2008					37.3	35.9	29.0	25.8	22.3								28.1
Ford	Car	Car	2009						37.6	29.2	25.7	24.3								30.0
Ford	Car	Car	2010						37.3	31.3	28.9	24.8								31.1
Ford	Car	Car	2011					43.8	37.6	34.0	28.8	24.6				19.1				32.1
Ford	Car	Car	2012					44.2	41.6	33.6	28.7	25.6								36.1

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Ford	Car	Wagon	1975						23.8	17.3		12.9	11.1	11.0						13.2	
Ford	Car	Wagon	1976						26.1	18.6			15.0	13.6						16.2	
Ford	Car	Wagon	1977						23.4				14.4	12.7						15.8	
Ford	Car	Wagon	1978						23.6	19.3			15.2	13.5						18.5	
Ford	Car	Wagon	1979						23.3	19.4	18.5	16.0								19.4	
Ford	Car	Wagon	1980						23.9	20.5	18.9	18.0								22.4	
Ford	Car	Wagon	1981				30.0		23.3	20.2	18.8	17.2								25.3	
Ford	Car	Wagon	1982				31.2			21.0	19.9									25.2	
Ford	Car	Wagon	1983				30.7			23.4	19.8									25.7	
Ford	Car	Wagon	1984				32.5	41.1		24.0	19.9									26.1	
Ford	Car	Wagon	1985				33.4	41.1		23.6	20.7									26.8	
Ford	Car	Wagon	1986				33.0	36.6		24.9	22.0									27.4	
Ford	Car	Wagon	1987				34.2	32.4		24.7	21.8									26.5	
Ford	Car	Wagon	1988				33.8	32.3		24.6	22.6									26.6	
Ford	Car	Wagon	1989				34.0	31.3		24.8	22.8									25.9	
Ford	Car	Wagon	1990				36.1	32.5		24.8	22.5									25.4	
Ford	Car	Wagon	1991					34.2		26.2	23.5									29.1	
Ford	Car	Wagon	1992					35.1		26.6										28.8	
Ford	Car	Wagon	1993					34.6		26.7										31.5	
Ford	Car	Wagon	1994					35.8		26.4										31.7	
Ford	Car	Wagon	1995					34.7		26.2										31.5	
Ford	Car	Wagon	1996					33.7			25.2									27.9	
Ford	Car	Wagon	1997					34.4			25.0									29.8	
Ford	Car	Wagon	1998					33.8			24.9									29.2	
Ford	Car	Wagon	1999					34.4		26.3	25.2									27.8	
Ford	Car	Wagon	2000						33.3		24.8									28.4	
Ford	Car	Wagon	2001						32.9		24.5									28.8	
Ford	Car	Wagon	2002						31.6		25.5									28.9	
Ford	Car	Wagon	2003						31.7		25.0									28.5	
Ford	Car	Wagon	2004						31.4		25.3									27.8	
Ford	Car	Wagon	2005						33.1		25.0									31.1	
Ford	Car	Wagon	2006						33.8											33.8	
Ford	Car	Wagon	2007						35.4											35.4	
Ford	Car	Wagon	2008																		
Ford	Car	Wagon	2009																		
Ford	Car	Wagon	2010																		
Ford	Car	Wagon	2011																		
Ford	Car	Wagon	2012																		

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Ford	Car	Non-Truck SUV	1975																	
Ford	Car	Non-Truck SUV	1976																	
Ford	Car	Non-Truck SUV	1977																	
Ford	Car	Non-Truck SUV	1978																	
Ford	Car	Non-Truck SUV	1979																	
Ford	Car	Non-Truck SUV	1980																	
Ford	Car	Non-Truck SUV	1981																	
Ford	Car	Non-Truck SUV	1982																	
Ford	Car	Non-Truck SUV	1983																	
Ford	Car	Non-Truck SUV	1984																	
Ford	Car	Non-Truck SUV	1985																	
Ford	Car	Non-Truck SUV	1986							23.5										23.5
Ford	Car	Non-Truck SUV	1987							23.3										23.3
Ford	Car	Non-Truck SUV	1988							23.0										23.0
Ford	Car	Non-Truck SUV	1989							23.1										23.1
Ford	Car	Non-Truck SUV	1990							23.2										23.2
Ford	Car	Non-Truck SUV	1991								21.2									21.2
Ford	Car	Non-Truck SUV	1992								21.2									21.2
Ford	Car	Non-Truck SUV	1993								21.6									21.6
Ford	Car	Non-Truck SUV	1994								21.1									21.1
Ford	Car	Non-Truck SUV	1995								22.5									22.5
Ford	Car	Non-Truck SUV	1996								22.3									22.3
Ford	Car	Non-Truck SUV	1997								21.4									21.4
Ford	Car	Non-Truck SUV	1998								21.2									21.2
Ford	Car	Non-Truck SUV	1999								21.7									21.7
Ford	Car	Non-Truck SUV	2000								21.0									21.0
Ford	Car	Non-Truck SUV	2001							24.7	21.2									22.3
Ford	Car	Non-Truck SUV	2002							25.0	20.7									23.6
Ford	Car	Non-Truck SUV	2003							25.1	21.0									24.1
Ford	Car	Non-Truck SUV	2004							25.1										25.1
Ford	Car	Non-Truck SUV	2005							26.3	39.2									26.6
Ford	Car	Non-Truck SUV	2006							26.5	39.1									27.3
Ford	Car	Non-Truck SUV	2007							26.6	40.6	24.3								25.7
Ford	Car	Non-Truck SUV	2008							27.4	43.4	24.6								27.0
Ford	Car	Non-Truck SUV	2009							28.9	44.2	24.6								28.6
Ford	Car	Non-Truck SUV	2010							29.7	44.1	25.9								28.3
Ford	Car	Non-Truck SUV	2011							29.5	30.0	28.0								29.0
Ford	Car	Non-Truck SUV	2012							29.6	33.6	28.5								29.5

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Ford	Car	All	1975					27.8	22.4	16.5	13.5	12.9	11.4	11.3						13.9
Ford	Car	All	1976					27.8	25.6	18.6	17.1	15.2	14.7	13.3						16.6
Ford	Car	All	1977					27.6	23.8	19.2	18.3	16.3	14.3	12.7						16.5
Ford	Car	All	1978		37.3			26.1	22.3	19.6	18.3	16.7	14.7	13.5						18.6
Ford	Car	All	1979		32.1			25.2	22.1	19.4	17.9	16.1	13.9							19.2
Ford	Car	All	1980		29.8			25.7	23.7	20.1	18.9	18.1								22.5
Ford	Car	All	1981		39.0	33.2	29.2	25.4	22.9	20.3	18.8	17.2								23.4
Ford	Car	All	1982			34.5	31.2		22.4	20.8	19.8									24.5
Ford	Car	All	1983			33.2	30.7		22.6	22.5	19.8									23.9
Ford	Car	All	1984			38.5	32.6	29.2	25.6	23.3	20.0									25.3
Ford	Car	All	1985			39.3	33.7	30.9	28.0	23.2	20.7	10.4								25.9
Ford	Car	All	1986			32.5	33.9	31.1	27.9	24.6	22.0	10.4								26.7
Ford	Car	All	1987				34.8	30.6	27.4	24.8	21.8	10.9								26.5
Ford	Car	All	1988		45.7		34.2	31.9	27.5	25.3	22.6	10.9	10.9							26.9
Ford	Car	All	1989		41.4		34.0	31.6	27.9	25.6	23.5	10.9								27.0
Ford	Car	All	1990		44.4	37.8	34.6	32.0	27.7	25.7	23.5									26.3
Ford	Car	All	1991		43.8	37.7	38.7	33.2	25.8	26.1	23.3	15.4								27.0
Ford	Car	All	1992		44.7	37.7	39.4	33.2	27.4	26.4	23.7	17.1								26.4
Ford	Car	All	1993		44.9	37.6	38.8	33.5	28.3	26.2	23.7	15.1								27.5
Ford	Car	All	1994			41.1	38.6	34.7	28.3	26.2	23.3				13.9					26.8
Ford	Car	All	1995			41.1	36.8	34.6	30.9	26.4	23.3				13.9					27.7
Ford	Car	All	1996			39.8	37.4	34.1	29.3	26.0	23.5									26.2
Ford	Car	All	1997			42.5	34.2	34.4	30.2	25.7	23.4	19.0								26.9
Ford	Car	All	1998					33.8	30.8	26.0	22.5									26.7
Ford	Car	All	1999					34.1	31.0	26.4	22.9									26.6
Ford	Car	All	2000					33.5	32.4	26.2	22.9	21.8								26.5
Ford	Car	All	2001					33.6	33.5	25.4	22.9	22.7								26.1
Ford	Car	All	2002					33.6	32.3	26.2	23.2	22.4								26.8
Ford	Car	All	2003					33.1	32.3	26.0	23.2	23.5								26.5
Ford	Car	All	2004					35.9	31.6	25.9	24.1	23.1								25.7
Ford	Car	All	2005						33.0	26.4	25.7	24.0								27.2
Ford	Car	All	2006						33.7	27.1	25.4	23.0								26.9
Ford	Car	All	2007						35.3	27.0	25.3	23.6				19.1				27.4
Ford	Car	All	2008					37.3	35.9	28.3	26.7	23.3								27.8
Ford	Car	All	2009						37.6	29.1	27.4	24.4								29.6
Ford	Car	All	2010						37.3	30.8	29.2	25.4								30.4
Ford	Car	All	2011					43.8	37.6	32.0	28.9	26.4				19.1				31.2
Ford	Car	All	2012					44.2	41.6	32.5	29.0	27.7								35.1

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Ford	Truck	Van	1975								13.0	11.5	11.1							12.6
Ford	Truck	Van	1976								13.4	13.5	11.4							13.4
Ford	Truck	Van	1977								16.0	14.0	11.7							15.5
Ford	Truck	Van	1978								15.4	13.8	11.9							15.0
Ford	Truck	Van	1979								15.6	12.4	11.1	11.0	10.6					12.1
Ford	Truck	Van	1980								19.7	17.1	14.6	12.4	10.9					16.2
Ford	Truck	Van	1981								19.9	16.9	14.6	13.4						16.8
Ford	Truck	Van	1982								19.3	16.1	14.8	13.4						16.2
Ford	Truck	Van	1983								18.8	16.2	15.0	12.1						16.3
Ford	Truck	Van	1984								18.8	15.7	14.8	12.1						16.6
Ford	Truck	Van	1985								18.9	15.5	15.0	12.3						16.2
Ford	Truck	Van	1986						29.0	23.3	21.4	18.3	16.0	12.8						19.7
Ford	Truck	Van	1987						30.9	23.3	21.9	17.8	15.8	13.6						19.6
Ford	Truck	Van	1988							22.5	21.8	18.4	16.7	13.6						19.4
Ford	Truck	Van	1989							22.7	22.0	17.8	16.5	13.6						19.8
Ford	Truck	Van	1990							22.9	21.4	17.9	16.3	14.2						19.3
Ford	Truck	Van	1991							23.1	21.7	18.0	16.6	15.0						19.8
Ford	Truck	Van	1992							23.9	21.7	19.8	17.3	16.0	14.8					19.7
Ford	Truck	Van	1993							23.7	22.5	20.0	17.3	16.0						20.8
Ford	Truck	Van	1994							23.7	22.2	20.1	17.4	16.1	15.5					19.9
Ford	Truck	Van	1995							23.4	22.8		17.5	16.2	16.0					21.7
Ford	Truck	Van	1996							23.5	22.9	20.2	17.1	15.8	16.1					21.4
Ford	Truck	Van	1997							22.3	22.4	19.4	19.0	17.2	16.6					20.7
Ford	Truck	Van	1998								23.3		19.3	17.4	16.6					22.4
Ford	Truck	Van	1999								22.8	22.2	18.1	17.4	16.2					21.0
Ford	Truck	Van	2000								22.8	22.4	18.5	18.0	16.3					21.6
Ford	Truck	Van	2001								22.0		19.6	17.4	16.0					18.0
Ford	Truck	Van	2002								22.3	22.9	19.1	17.8	17.1					21.9
Ford	Truck	Van	2003								23.6	23.2	19.1	17.3						22.2
Ford	Truck	Van	2004									22.1	19.4	19.3	16.9					21.5
Ford	Truck	Van	2005								26.5	23.6	19.3	19.0	16.9					23.5
Ford	Truck	Van	2006								26.5	23.1	19.1	19.0	16.9					22.6
Ford	Truck	Van	2007								26.5	23.3								24.6
Ford	Truck	Van	2008									24.0								24.0
Ford	Truck	Van	2009									24.4								24.4
Ford	Truck	Van	2010							30.3										30.3
Ford	Truck	Van	2011							30.1				16.9	17.3	16.1	13.5			27.9
Ford	Truck	Van	2012							30.6				17.9	17.3	15.9	14.1			27.3

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Ford	Truck	Truck SUV	1975										10.6							10.6
Ford	Truck	Truck SUV	1976										13.7							13.7
Ford	Truck	Truck SUV	1977										14.5							14.5
Ford	Truck	Truck SUV	1978										13.2							13.2
Ford	Truck	Truck SUV	1979										11.0							11.0
Ford	Truck	Truck SUV	1980									14.8	13.1							14.0
Ford	Truck	Truck SUV	1981									16.4	13.3							15.1
Ford	Truck	Truck SUV	1982									15.8	13.2							14.8
Ford	Truck	Truck SUV	1983									16.7	13.1							15.3
Ford	Truck	Truck SUV	1984							21.2		16.9	14.0							18.3
Ford	Truck	Truck SUV	1985							21.8		18.4	14.0							18.8
Ford	Truck	Truck SUV	1986							22.2		18.0	16.0							19.8
Ford	Truck	Truck SUV	1987							22.6		20.1	16.0							20.0
Ford	Truck	Truck SUV	1988							21.9		19.5	16.2							19.6
Ford	Truck	Truck SUV	1989								21.8	18.6	16.2							18.6
Ford	Truck	Truck SUV	1990							23.5	21.9	19.8	16.0							18.0
Ford	Truck	Truck SUV	1991								20.8	20.1	16.1							19.8
Ford	Truck	Truck SUV	1992								21.3	19.9	16.2							19.6
Ford	Truck	Truck SUV	1993								21.6	20.2	16.4							19.7
Ford	Truck	Truck SUV	1994								20.6	20.1	17.0							19.7
Ford	Truck	Truck SUV	1995								22.0	20.0	17.0							19.6
Ford	Truck	Truck SUV	1996									19.9	16.5							19.6
Ford	Truck	Truck SUV	1997								21.6	19.4	18.2	16.9						18.7
Ford	Truck	Truck SUV	1998								20.7	19.5	18.2	16.8	16.0					18.2
Ford	Truck	Truck SUV	1999								20.1	19.5	17.8	17.2	16.4					18.1
Ford	Truck	Truck SUV	2000								20.4	19.6	19.4	17.3	16.2					18.4
Ford	Truck	Truck SUV	2001							23.6		20.9			15.6					20.9
Ford	Truck	Truck SUV	2002							23.8	20.3	19.6	19.3	17.3	15.9					19.6
Ford	Truck	Truck SUV	2003							23.6	19.7	20.0	18.6	18.2	17.0					19.0
Ford	Truck	Truck SUV	2004							23.6	21.7	20.2	18.6	19.3	16.9					19.2
Ford	Truck	Truck SUV	2005							25.2	24.2	19.5	18.1		18.0					20.2
Ford	Truck	Truck SUV	2006							26.5	25.4	20.2	19.4		17.9					20.2
Ford	Truck	Truck SUV	2007							26.5	25.3	22.1	19.4		18.3					21.1
Ford	Truck	Truck SUV	2008							28.4	26.1	22.9	19.8		18.5					22.5
Ford	Truck	Truck SUV	2009								27.2	24.1	20.5		20.3					24.1
Ford	Truck	Truck SUV	2010							29.5	27.5	25.0	20.5		19.7	18.4				23.1
Ford	Truck	Truck SUV	2011							29.5	27.3	25.7	24.2		20.4	18.6			16.4	24.5
Ford	Truck	Truck SUV	2012							29.9	26.7	26.6	24.3		20.5	19.0				24.6

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Ford	Truck	Pickup	1975						21.1	14.2	12.6	11.7	10.9	9.3						12.6
Ford	Truck	Pickup	1976						22.9	17.5	14.7	12.6	11.4	10.8						13.9
Ford	Truck	Pickup	1977						29.5	20.7	17.1	13.9	12.7	12.0						15.9
Ford	Truck	Pickup	1978						29.2	19.6	17.1	13.9	12.9	12.4	10.9					15.9
Ford	Truck	Pickup	1979						26.3	18.4	15.4	13.5	11.0	9.5						14.8
Ford	Truck	Pickup	1980						25.9	17.5	18.9	14.7	13.3	12.5						18.0
Ford	Truck	Pickup	1981					28.4	26.3	21.6	19.2	15.0	13.6	13.3						19.3
Ford	Truck	Pickup	1982					28.9	26.7	22.2	18.3	14.3	14.2							18.3
Ford	Truck	Pickup	1983					28.1	24.4	21.6	17.9	15.6	13.6							20.3
Ford	Truck	Pickup	1984					28.8	25.3	22.0	18.2	15.7	14.7							19.5
Ford	Truck	Pickup	1985					28.6	25.7	23.0	18.4	16.5	13.3							20.3
Ford	Truck	Pickup	1986					28.8	26.6	23.1	19.0	17.5	15.3							20.6
Ford	Truck	Pickup	1987					29.0	26.8	23.7	19.2	17.1	15.9							20.9
Ford	Truck	Pickup	1988						27.6	22.6	19.6	17.9	15.6							21.2
Ford	Truck	Pickup	1989						28.6	23.6	20.2	18.2	16.0							20.4
Ford	Truck	Pickup	1990						30.0	23.2	20.2	18.6	15.9							20.8
Ford	Truck	Pickup	1991						29.9	24.5	20.2	18.4	16.2							21.0
Ford	Truck	Pickup	1992						30.1	26.2	21.3	18.5	16.9							20.6
Ford	Truck	Pickup	1993						30.0	25.7	21.7	19.1	17.0							21.2
Ford	Truck	Pickup	1994							25.7	20.9	19.1	17.5							21.4
Ford	Truck	Pickup	1995							26.8	22.0	19.0	17.4	15.6						20.3
Ford	Truck	Pickup	1996							26.3	21.8	18.4	17.1							21.4
Ford	Truck	Pickup	1997							27.2	21.6	20.0	18.4	16.5						21.2
Ford	Truck	Pickup	1998							25.1	21.2	20.1	18.0	16.6						20.8
Ford	Truck	Pickup	1999							23.9	20.5	20.1	17.9	15.9						20.3
Ford	Truck	Pickup	2000							24.3	20.8	20.1	18.4	16.7						20.5
Ford	Truck	Pickup	2001							24.2	20.4	20.4	18.6	17.4						19.8
Ford	Truck	Pickup	2002							24.7	20.3	20.3	18.8	17.5	15.9					20.0
Ford	Truck	Pickup	2003							25.9	21.0	20.6	18.8	17.3	15.8					20.0
Ford	Truck	Pickup	2004							25.6	21.0	20.3	19.2	19.0	17.8					19.4
Ford	Truck	Pickup	2005							25.9	21.0	19.7	19.8	18.7	18.0	16.3				19.1
Ford	Truck	Pickup	2006							26.3	21.2		19.9	18.8	17.6	15.2				19.0
Ford	Truck	Pickup	2007							26.4	20.7		20.2	19.1	17.7	15.1				19.4
Ford	Truck	Pickup	2008							26.8	20.7	20.7	20.2	19.1	18.3	16.0				19.9
Ford	Truck	Pickup	2009							27.9	21.2		20.8	21.0	19.5					21.0
Ford	Truck	Pickup	2010							27.7	21.1		20.9	21.1	19.7					20.7
Ford	Truck	Pickup	2011							27.7	21.2		23.0	22.6	20.9	16.2				21.7
Ford	Truck	Pickup	2012										23.7	22.9	21.3	16.8				21.8

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Ford	Truck	All	1975						21.1	14.2	12.8	11.7	10.9	9.3						12.5	
Ford	Truck	All	1976						22.9	17.5	14.3	12.8	11.7	10.8						13.8	
Ford	Truck	All	1977						29.5	20.7	16.8	13.9	13.1	12.0						15.8	
Ford	Truck	All	1978						29.2	19.6	16.5	13.9	13.1	12.4	10.9					15.5	
Ford	Truck	All	1979						26.3	18.4	15.4	13.1	11.0	9.7	10.6					14.0	
Ford	Truck	All	1980						25.9	17.5	19.0	15.3	13.6	12.4	10.9					17.4	
Ford	Truck	All	1981					28.4	26.3	21.6	19.3	15.9	13.9	13.3						18.6	
Ford	Truck	All	1982					28.9	26.7	22.2	18.4	15.5	14.2	13.4						17.5	
Ford	Truck	All	1983					28.1	24.4	21.6	18.0	16.0	14.1	12.1						19.1	
Ford	Truck	All	1984					28.8	25.3	21.5	18.3	15.8	14.4	12.1						18.8	
Ford	Truck	All	1985					28.6	25.7	22.2	18.5	16.2	14.3	12.3						19.3	
Ford	Truck	All	1986					28.8	26.7	22.7	19.7	17.8	15.9	12.8						20.3	
Ford	Truck	All	1987					29.0	26.8	23.2	20.6	17.3	15.9	13.6						20.4	
Ford	Truck	All	1988						27.6	22.3	20.7	17.9	16.3	13.6						20.5	
Ford	Truck	All	1989						28.6	23.4	21.6	18.1	16.2	13.6						20.0	
Ford	Truck	All	1990						30.0	23.2	21.2	18.5	16.1	14.2						20.1	
Ford	Truck	All	1991						29.9	24.4	21.1	19.2	16.3	15.0						20.4	
Ford	Truck	All	1992						30.1	26.1	21.6	19.1	16.9	16.0	14.8					20.1	
Ford	Truck	All	1993						30.0	25.6	22.3	19.5	17.0	16.0						20.8	
Ford	Truck	All	1994							25.6	21.7	19.6	17.4	16.1	15.5					20.7	
Ford	Truck	All	1995							26.6	22.7	19.4	17.4	16.2	16.0					20.6	
Ford	Truck	All	1996							26.2	22.7	19.4	17.0	15.8	16.1					20.8	
Ford	Truck	All	1997							27.0	22.0	19.7	18.5	16.9	16.6					20.2	
Ford	Truck	All	1998							25.1	22.7	19.8	18.3	16.8	16.0					20.2	
Ford	Truck	All	1999							23.9	21.0	20.4	17.9	17.1	16.4					19.7	
Ford	Truck	All	2000							24.3	21.0	20.6	18.6	17.3	16.2					19.9	
Ford	Truck	All	2001							24.0	20.5	20.8	18.8	17.4	15.8					19.8	
Ford	Truck	All	2002							24.3	20.6	20.2	18.9	17.5	15.9					20.0	
Ford	Truck	All	2003							24.7	21.1	20.9	18.8	17.7	17.0					19.8	
Ford	Truck	All	2004							24.5	21.0	20.6	18.9	19.1	17.5					19.5	
Ford	Truck	All	2005							25.7	23.6	21.0	19.1	18.7	18.0	16.3				20.0	
Ford	Truck	All	2006							26.4	24.2	21.8	19.6	18.8	17.7	15.2				19.8	
Ford	Truck	All	2007							26.4	23.8	22.3	19.9	19.1	17.8	15.1				20.2	
Ford	Truck	All	2008							27.2	24.6	23.1	20.0	19.1	18.3	16.0				21.0	
Ford	Truck	All	2009							27.9	25.7	24.2	20.7	21.0	19.6					22.1	
Ford	Truck	All	2010							29.0	25.9	25.0	20.7	21.1	19.7	18.4				21.8	
Ford	Truck	All	2011							28.6	24.7	25.7	23.8	22.5	20.8	17.7	13.5		16.4	23.0	
Ford	Truck	All	2012							30.3	26.7	26.6	24.0	22.8	21.1	18.3	14.1			23.3	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Ford	All	All	1975					27.8	22.2	16.5	13.1	12.3	11.3	11.1						13.5	
Ford	All	All	1976					27.8	25.2	18.6	15.7	14.0	14.1	13.0						15.7	
Ford	All	All	1977					27.6	25.2	19.2	17.5	15.4	14.1	12.6						16.3	
Ford	All	All	1978		37.3			26.1	23.0	19.6	16.7	15.9	14.2	13.0	10.9					17.5	
Ford	All	All	1979		32.1			25.2	22.4	19.4	16.5	15.0	12.2	9.7	10.6					17.3	
Ford	All	All	1980		29.8			25.7	23.9	20.1	19.0	16.0	13.6	12.4	10.9					20.8	
Ford	All	All	1981		39.0	33.2	29.2	27.2	23.1	20.5	19.1	16.0	13.9	13.3						21.6	
Ford	All	All	1982			34.5	31.2	28.9	22.6	21.0	19.1	15.5	14.2	13.4						22.1	
Ford	All	All	1983			33.2	30.7	28.1	23.2	22.5	19.0	16.0	14.1	12.1						21.9	
Ford	All	All	1984			38.5	32.6	29.2	25.5	22.9	19.2	15.8	14.4	12.1						22.8	
Ford	All	All	1985			39.3	33.7	30.6	26.7	23.0	19.9	16.2	14.3	12.3						23.4	
Ford	All	All	1986			32.5	33.9	30.6	27.5	24.0	20.7	17.8	15.9	12.8						23.9	
Ford	All	All	1987				34.8	30.4	27.2	24.4	21.3	17.3	15.9	13.6						24.0	
Ford	All	All	1988		45.7		34.2	31.9	27.5	24.5	21.9	17.9	16.3	13.6						24.4	
Ford	All	All	1989		41.4		34.0	31.6	28.0	25.2	22.8	18.1	16.2	13.6						24.2	
Ford	All	All	1990		44.4	37.8	34.6	32.0	28.1	25.1	22.7	18.5	16.1	14.2						23.7	
Ford	All	All	1991		43.8	37.7	38.7	33.2	26.5	25.6	22.6	19.2	16.3	15.0						24.2	
Ford	All	All	1992		44.7	37.7	39.4	33.2	27.5	26.3	23.1	19.1	16.9	16.0	14.8					23.5	
Ford	All	All	1993		44.9	37.6	38.8	33.5	28.5	26.1	23.1	19.5	17.0	16.0						24.5	
Ford	All	All	1994			41.1	38.6	34.7	28.3	25.9	22.8	19.6	17.4	16.1	15.5					23.7	
Ford	All	All	1995			41.1	36.8	34.6	30.9	26.5	23.0	19.4	17.4	16.2	16.0					24.0	
Ford	All	All	1996			39.8	37.4	34.1	29.3	26.1	23.2	19.4	17.0	15.8	16.1					23.3	
Ford	All	All	1997			42.5	34.2	34.4	30.2	26.1	22.8	19.7	18.5	16.9	16.6					22.8	
Ford	All	All	1998					33.8	30.8	25.8	22.6	19.8	18.3	16.8	16.0					22.8	
Ford	All	All	1999					34.1	31.0	25.8	22.2	20.4	17.9	17.1	16.4					22.6	
Ford	All	All	2000					33.5	32.4	25.8	22.2	20.6	18.6	17.3	16.2					22.8	
Ford	All	All	2001					33.6	33.5	25.1	22.1	20.8	18.8	17.4	15.8					22.4	
Ford	All	All	2002					33.6	32.3	25.7	22.1	20.2	18.9	17.5	15.9					22.3	
Ford	All	All	2003					33.1	32.3	25.7	21.8	21.5	18.8	17.7	17.0					22.1	
Ford	All	All	2004					35.9	31.6	25.6	21.9	21.2	18.9	19.1	17.5					21.1	
Ford	All	All	2005						33.0	26.3	24.6	21.8	19.1	18.7	18.0	16.3				22.6	
Ford	All	All	2006						33.7	27.1	24.9	22.3	19.6	18.8	17.7	15.2				22.5	
Ford	All	All	2007						35.3	27.0	24.7	23.0	19.9	19.1	17.8	18.7				23.5	
Ford	All	All	2008					37.3	35.9	28.1	25.8	23.2	20.0	19.1	18.3	16.0				24.1	
Ford	All	All	2009						37.6	28.9	26.5	24.3	20.7	21.0	19.6					25.8	
Ford	All	All	2010						37.3	30.5	27.9	25.3	20.7	21.1	19.7	18.4				25.6	
Ford	All	All	2011					43.8	37.6	31.2	27.1	26.1	23.8	22.5	20.8	17.7	13.5		16.4	26.5	
Ford	All	All	2012					44.2	41.6	32.1	28.5	27.0	24.0	22.8	21.1	18.3	14.1			29.3	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Nissan	Car	Car	1975			32.1	27.4	25.5	19.3											25.2
Nissan	Car	Car	1976			32.5	29.6	26.2	20.0											26.8
Nissan	Car	Car	1977			33.2	28.3	26.1	19.9											27.2
Nissan	Car	Car	1978			31.4	27.4	26.1	20.3											27.0
Nissan	Car	Car	1979			30.5	26.5	24.9	21.1											26.6
Nissan	Car	Car	1980			33.2	32.6	31.1	23.1											31.1
Nissan	Car	Car	1981			34.0	31.3	30.9	23.8	30.5										30.4
Nissan	Car	Car	1982		41.3	34.9	33.8		25.1	27.7										30.5
Nissan	Car	Car	1983		46.2	37.5	32.6		26.0	24.6										32.5
Nissan	Car	Car	1984			38.4	32.1	32.5	26.6	23.3										31.6
Nissan	Car	Car	1985			36.4	31.2	28.5	27.9	22.9										29.4
Nissan	Car	Car	1986			37.3	33.8	28.3	28.1	24.1										30.2
Nissan	Car	Car	1987			37.5	34.1	30.6	27.6	24.2										29.4
Nissan	Car	Car	1988			36.6	34.5	31.4	27.9	23.9										30.7
Nissan	Car	Car	1989			36.0	34.6	32.3	26.7	25.2										30.2
Nissan	Car	Car	1990				35.5	33.1	26.9	25.0	22.2									28.3
Nissan	Car	Car	1991				37.1	35.5	27.9	25.1	22.2	18.9								29.0
Nissan	Car	Car	1992				37.0	35.8	27.9	25.3	22.0	18.9								29.9
Nissan	Car	Car	1993				37.4	34.4	28.6	25.7	23.1	19.4								29.1
Nissan	Car	Car	1994				37.5	34.7	28.7	25.1	23.0	19.8								29.8
Nissan	Car	Car	1995				39.6	36.1	28.4	27.2	23.1	20.2								29.2
Nissan	Car	Car	1996				38.9	36.4	28.5	27.4	23.0									30.2
Nissan	Car	Car	1997				39.0	36.0	28.3	27.3	23.5									29.6
Nissan	Car	Car	1998				38.4	35.9	30.7	28.6	23.1									30.2
Nissan	Car	Car	1999					35.8	30.8	28.5	23.0									29.6
Nissan	Car	Car	2000					34.1	30.8	27.1	23.1									28.0
Nissan	Car	Car	2001					34.3	30.7	26.7	22.9									28.3
Nissan	Car	Car	2002					35.5	33.6	27.7	23.3									28.9
Nissan	Car	Car	2003					36.5	34.3	27.1	23.0									27.9
Nissan	Car	Car	2004					36.1	35.1	26.6	26.0									28.2
Nissan	Car	Car	2005					36.1	34.9	29.6	25.6									29.4
Nissan	Car	Car	2006					36.0	35.3	29.5	25.0	23.1								29.1
Nissan	Car	Car	2007						36.9	33.3	25.8									31.6
Nissan	Car	Car	2008						36.9	33.3	25.8	20.7								32.2
Nissan	Car	Car	2009					38.1	37.2	34.0	27.5	25.0								33.1
Nissan	Car	Car	2010					38.0	37.8	34.5	27.9	25.3								33.6
Nissan	Car	Car	2011					37.9	37.9	34.7	28.2	25.7								33.7
Nissan	Car	Car	2012				40.5	45.1	38.3	34.0	28.4	26.5								34.6

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Nissan	Car	Wagon	1975						20.9											20.9	
Nissan	Car	Wagon	1976			33.4		26.3	24.9											27.4	
Nissan	Car	Wagon	1977			33.8		26.1	22.5											27.1	
Nissan	Car	Wagon	1978			32.6		26.0	18.8											25.5	
Nissan	Car	Wagon	1979			30.7	26.8	25.4	21.9											27.9	
Nissan	Car	Wagon	1980			32.4		32.0	23.3											32.2	
Nissan	Car	Wagon	1981			34.2	31.1	30.4	23.8	30.5										31.4	
Nissan	Car	Wagon	1982			35.1	32.8		23.4	32.0										32.0	
Nissan	Car	Wagon	1983			36.9	44.2		27.6	26.7										34.6	
Nissan	Car	Wagon	1984			37.9				25.8										35.1	
Nissan	Car	Wagon	1985			35.7				21.9										30.0	
Nissan	Car	Wagon	1986			36.1			27.4	24.6										28.2	
Nissan	Car	Wagon	1987				34.1	30.5	26.9	24.2										27.8	
Nissan	Car	Wagon	1988				34.2	31.6	27.3	23.8										28.0	
Nissan	Car	Wagon	1989				35.8	32.6	29.5											32.3	
Nissan	Car	Wagon	1990				36.4	32.7												33.5	
Nissan	Car	Wagon	1991																		
Nissan	Car	Wagon	1992																		
Nissan	Car	Wagon	1993																		
Nissan	Car	Wagon	1994																		
Nissan	Car	Wagon	1995																		
Nissan	Car	Wagon	1996																		
Nissan	Car	Wagon	1997																		
Nissan	Car	Wagon	1998																		
Nissan	Car	Wagon	1999																		
Nissan	Car	Wagon	2000																		
Nissan	Car	Wagon	2001																		
Nissan	Car	Wagon	2002																		
Nissan	Car	Wagon	2003																		
Nissan	Car	Wagon	2004																		
Nissan	Car	Wagon	2005																		
Nissan	Car	Wagon	2006																		
Nissan	Car	Wagon	2007																		
Nissan	Car	Wagon	2008																		
Nissan	Car	Wagon	2009						37.9											37.9	
Nissan	Car	Wagon	2010						37.9		24.5									32.1	
Nissan	Car	Wagon	2011						38.3	36.5	25.5									35.8	
Nissan	Car	Wagon	2012						38.1	36.4	25.4									35.9	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Nissan	Car	Non-Truck SUV	1975																	
Nissan	Car	Non-Truck SUV	1976																	
Nissan	Car	Non-Truck SUV	1977																	
Nissan	Car	Non-Truck SUV	1978																	
Nissan	Car	Non-Truck SUV	1979																	
Nissan	Car	Non-Truck SUV	1980																	
Nissan	Car	Non-Truck SUV	1981																	
Nissan	Car	Non-Truck SUV	1982																	
Nissan	Car	Non-Truck SUV	1983																	
Nissan	Car	Non-Truck SUV	1984																	
Nissan	Car	Non-Truck SUV	1985																	
Nissan	Car	Non-Truck SUV	1986																	
Nissan	Car	Non-Truck SUV	1987																	
Nissan	Car	Non-Truck SUV	1988																	
Nissan	Car	Non-Truck SUV	1989																	
Nissan	Car	Non-Truck SUV	1990																	
Nissan	Car	Non-Truck SUV	1991																	
Nissan	Car	Non-Truck SUV	1992																	
Nissan	Car	Non-Truck SUV	1993																	
Nissan	Car	Non-Truck SUV	1994																	
Nissan	Car	Non-Truck SUV	1995																	
Nissan	Car	Non-Truck SUV	1996																	
Nissan	Car	Non-Truck SUV	1997																	
Nissan	Car	Non-Truck SUV	1998																	
Nissan	Car	Non-Truck SUV	1999																	
Nissan	Car	Non-Truck SUV	2000								20.1									20.1
Nissan	Car	Non-Truck SUV	2001								20.4									20.4
Nissan	Car	Non-Truck SUV	2002								20.7									20.7
Nissan	Car	Non-Truck SUV	2003								23.0									23.0
Nissan	Car	Non-Truck SUV	2004								23.3	22.6								23.2
Nissan	Car	Non-Truck SUV	2005								25.9	21.7								23.5
Nissan	Car	Non-Truck SUV	2006								25.9	21.5								23.3
Nissan	Car	Non-Truck SUV	2007								25.8	21.9								23.8
Nissan	Car	Non-Truck SUV	2008							32.3	24.9	22.1								26.6
Nissan	Car	Non-Truck SUV	2009							32.3	26.3	23.0								27.6
Nissan	Car	Non-Truck SUV	2010							32.0	26.2	23.3								28.0
Nissan	Car	Non-Truck SUV	2011							32.6	26.6	23.7								29.8
Nissan	Car	Non-Truck SUV	2012							33.1	26.6	23.8								29.7

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Nissan	Car	All	1975			32.1	27.4	25.5	19.5											25.0
Nissan	Car	All	1976			32.6	29.6	26.2	20.7											26.9
Nissan	Car	All	1977			33.3	28.3	26.1	20.3											27.2
Nissan	Car	All	1978			31.5	27.4	26.1	20.1											26.8
Nissan	Car	All	1979			30.6	26.7	25.1	21.1											26.8
Nissan	Car	All	1980			33.1	32.6	31.3	23.1											31.2
Nissan	Car	All	1981			34.0	31.2	30.8	23.8	30.5										30.5
Nissan	Car	All	1982		41.3	34.9	33.7		25.0	28.7										30.7
Nissan	Car	All	1983		46.2	37.4	32.6		26.0	25.5										32.7
Nissan	Car	All	1984			38.3	32.1	32.5	26.6	23.6										31.9
Nissan	Car	All	1985			36.3	31.2	28.5	27.9	22.8										29.5
Nissan	Car	All	1986			37.2	33.8	28.3	27.8	24.1										29.9
Nissan	Car	All	1987			37.5	34.1	30.6	27.5	24.2										29.3
Nissan	Car	All	1988			36.6	34.5	31.4	27.8	23.9										30.6
Nissan	Car	All	1989			36.0	34.6	32.3	26.7	25.2										30.2
Nissan	Car	All	1990				35.5	33.0	26.9	25.0	22.2									28.4
Nissan	Car	All	1991				37.1	35.5	27.9	25.1	22.2	18.9								29.0
Nissan	Car	All	1992				37.0	35.8	27.9	25.3	22.0	18.9								29.9
Nissan	Car	All	1993				37.4	34.4	28.6	25.7	23.1	19.4								29.1
Nissan	Car	All	1994				37.5	34.7	28.7	25.1	23.0	19.8								29.8
Nissan	Car	All	1995				39.6	36.1	28.4	27.2	23.1	20.2								29.2
Nissan	Car	All	1996				38.9	36.4	28.5	27.4	23.0									30.2
Nissan	Car	All	1997				39.0	36.0	28.3	27.3	23.5									29.6
Nissan	Car	All	1998				38.4	35.9	30.7	28.6	23.1									30.2
Nissan	Car	All	1999					35.8	30.8	28.5	23.0									29.6
Nissan	Car	All	2000					34.1	30.8	27.1	20.3									26.9
Nissan	Car	All	2001					34.3	30.7	26.7	20.5									27.1
Nissan	Car	All	2002					35.5	33.6	27.7	21.0									27.8
Nissan	Car	All	2003					36.5	34.3	27.1	23.0									27.2
Nissan	Car	All	2004					36.1	35.1	26.6	25.0	22.6								27.3
Nissan	Car	All	2005					36.1	34.9	29.6	25.6	21.7								28.7
Nissan	Car	All	2006					36.0	35.3	29.5	25.1	21.5								28.4
Nissan	Car	All	2007						36.9	33.3	25.8	21.9								30.7
Nissan	Car	All	2008						36.9	33.2	25.8	22.1								31.7
Nissan	Car	All	2009					38.1	37.2	33.8	27.2	23.9								32.5
Nissan	Car	All	2010					38.0	37.8	34.2	27.4	23.9								32.8
Nissan	Car	All	2011					37.9	37.9	34.4	27.8	24.9								33.3
Nissan	Car	All	2012				40.5	45.1	38.3	34.0	28.0	25.7								34.3

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Nissan	Truck	Van	1975																	
Nissan	Truck	Van	1976																	
Nissan	Truck	Van	1977																	
Nissan	Truck	Van	1978																	
Nissan	Truck	Van	1979																	
Nissan	Truck	Van	1980																	
Nissan	Truck	Van	1981																	
Nissan	Truck	Van	1982																	
Nissan	Truck	Van	1983																	
Nissan	Truck	Van	1984																	
Nissan	Truck	Van	1985																	
Nissan	Truck	Van	1986																	
Nissan	Truck	Van	1987							22.4										22.4
Nissan	Truck	Van	1988							22.5	21.8									22.3
Nissan	Truck	Van	1989							22.5	21.8									22.2
Nissan	Truck	Van	1990						27.5	25.3	21.3									25.4
Nissan	Truck	Van	1991						27.6	25.6										26.0
Nissan	Truck	Van	1992							25.6										25.6
Nissan	Truck	Van	1993								21.8									21.8
Nissan	Truck	Van	1994								22.7									22.7
Nissan	Truck	Van	1995								23.0									23.0
Nissan	Truck	Van	1996								22.9									22.9
Nissan	Truck	Van	1997								22.6									22.6
Nissan	Truck	Van	1998								22.7									22.7
Nissan	Truck	Van	1999								23.1									23.1
Nissan	Truck	Van	2000								22.8									22.8
Nissan	Truck	Van	2001								22.6									22.6
Nissan	Truck	Van	2002								22.6									22.6
Nissan	Truck	Van	2003																	
Nissan	Truck	Van	2004									24.6								24.6
Nissan	Truck	Van	2005									24.7								24.7
Nissan	Truck	Van	2006									24.9								24.9
Nissan	Truck	Van	2007									24.5								24.5
Nissan	Truck	Van	2008									24.5								24.5
Nissan	Truck	Van	2009									24.5								24.5
Nissan	Truck	Van	2010																	
Nissan	Truck	Van	2011									27.1								27.1
Nissan	Truck	Van	2012									27.2								27.2

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Nissan	Truck	Truck SUV	1975																	
Nissan	Truck	Truck SUV	1976																	
Nissan	Truck	Truck SUV	1977																	
Nissan	Truck	Truck SUV	1978																	
Nissan	Truck	Truck SUV	1979																	
Nissan	Truck	Truck SUV	1980																	
Nissan	Truck	Truck SUV	1981																	
Nissan	Truck	Truck SUV	1982																	
Nissan	Truck	Truck SUV	1983																	
Nissan	Truck	Truck SUV	1984																	
Nissan	Truck	Truck SUV	1985																	
Nissan	Truck	Truck SUV	1986																	
Nissan	Truck	Truck SUV	1987								18.7									18.7
Nissan	Truck	Truck SUV	1988								18.5									18.5
Nissan	Truck	Truck SUV	1989								19.0									19.0
Nissan	Truck	Truck SUV	1990								19.5									19.5
Nissan	Truck	Truck SUV	1991								19.5									19.5
Nissan	Truck	Truck SUV	1992								19.6									19.6
Nissan	Truck	Truck SUV	1993								20.3	18.9								19.4
Nissan	Truck	Truck SUV	1994								19.0	18.4								18.6
Nissan	Truck	Truck SUV	1995								19.4	18.6								19.1
Nissan	Truck	Truck SUV	1996								19.8									19.8
Nissan	Truck	Truck SUV	1997								20.4	19.4								19.6
Nissan	Truck	Truck SUV	1998								20.3	19.3								19.5
Nissan	Truck	Truck SUV	1999								20.2	19.3								19.5
Nissan	Truck	Truck SUV	2000								20.0	19.2								19.3
Nissan	Truck	Truck SUV	2001								20.2	19.5								19.7
Nissan	Truck	Truck SUV	2002								20.2	19.4								19.5
Nissan	Truck	Truck SUV	2003								24.1	20.2								21.3
Nissan	Truck	Truck SUV	2004								24.4	20.6	18.4	18.0	17.4					19.6
Nissan	Truck	Truck SUV	2005								25.6	21.1	20.6	18.1	17.4					20.7
Nissan	Truck	Truck SUV	2006								25.5	22.4	20.6	18.0	17.4					20.9
Nissan	Truck	Truck SUV	2007								25.5	23.0	21.3		17.8					21.9
Nissan	Truck	Truck SUV	2008							30.8	28.8	21.7	21.0		18.1	17.4				22.3
Nissan	Truck	Truck SUV	2009							30.7	27.9	24.6	21.4		18.3					25.4
Nissan	Truck	Truck SUV	2010							30.5	29.4	24.0	21.5		18.3					24.0
Nissan	Truck	Truck SUV	2011							31.4	30.8	23.9	21.6		19.2					24.9
Nissan	Truck	Truck SUV	2012							31.1	30.1	24.9	21.2		19.3					26.7

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Nissan	Truck	Pickup	1975					23.6												23.6	
Nissan	Truck	Pickup	1976					24.5												24.5	
Nissan	Truck	Pickup	1977					25.0												25.0	
Nissan	Truck	Pickup	1978					25.9		20.6										25.6	
Nissan	Truck	Pickup	1979					23.7		15.5										23.2	
Nissan	Truck	Pickup	1980					26.6	23.1	16.3										25.1	
Nissan	Truck	Pickup	1981					29.0	27.2	22.1	17.7									27.7	
Nissan	Truck	Pickup	1982					28.3	27.9	23.9	17.4									27.8	
Nissan	Truck	Pickup	1983					30.2	27.9	24.0	17.5									27.4	
Nissan	Truck	Pickup	1984					29.2	28.4	23.0	17.6									26.2	
Nissan	Truck	Pickup	1985						26.9	22.9	17.5									25.7	
Nissan	Truck	Pickup	1986						26.3	22.8	20.8									24.7	
Nissan	Truck	Pickup	1987						26.9	22.1	19.1									25.1	
Nissan	Truck	Pickup	1988						26.7	23.0	19.8									24.7	
Nissan	Truck	Pickup	1989						27.0	22.5	19.8									24.8	
Nissan	Truck	Pickup	1990						28.8	24.3	21.2									27.1	
Nissan	Truck	Pickup	1991						28.6	24.9	21.6									26.9	
Nissan	Truck	Pickup	1992						28.7	25.0	21.3									26.7	
Nissan	Truck	Pickup	1993						28.6	25.2	21.1									26.4	
Nissan	Truck	Pickup	1994						28.3	25.6	21.2									25.6	
Nissan	Truck	Pickup	1995						27.5	25.5	20.4	19.0								24.9	
Nissan	Truck	Pickup	1996						27.4	24.8	21.2									25.2	
Nissan	Truck	Pickup	1997						26.6	25.1	21.2									24.9	
Nissan	Truck	Pickup	1998						28.8	26.6	22.4									25.5	
Nissan	Truck	Pickup	1999							25.9	20.4	19.6								23.3	
Nissan	Truck	Pickup	2000							26.1	19.7	19.4								21.8	
Nissan	Truck	Pickup	2001							26.3	20.2	19.6								22.2	
Nissan	Truck	Pickup	2002							26.1	20.3	19.6								22.0	
Nissan	Truck	Pickup	2003							26.2	21.2	20.2								22.4	
Nissan	Truck	Pickup	2004							26.5	21.5	20.6								23.2	
Nissan	Truck	Pickup	2005								25.6	20.7	18.5	17.9						19.4	
Nissan	Truck	Pickup	2006								25.4	20.7	18.5	17.9						19.8	
Nissan	Truck	Pickup	2007								25.2	21.1	18.5	17.7						20.1	
Nissan	Truck	Pickup	2008								25.3	21.2	18.9	18.3	17.4					19.4	
Nissan	Truck	Pickup	2009								25.4	21.5	20.6	18.5	17.7					20.3	
Nissan	Truck	Pickup	2010								24.8	21.3	21.0	18.8	17.8					20.4	
Nissan	Truck	Pickup	2011								25.1	21.4	20.5	18.6	17.8					20.4	
Nissan	Truck	Pickup	2012								25.1	21.5	20.0	18.8	17.8					20.6	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Nissan	Truck	All	1975					23.6												23.6
Nissan	Truck	All	1976					24.5												24.5
Nissan	Truck	All	1977					25.0												25.0
Nissan	Truck	All	1978					25.9		20.6										25.6
Nissan	Truck	All	1979					23.7		15.5										23.2
Nissan	Truck	All	1980					26.6	23.1	16.3										25.1
Nissan	Truck	All	1981					29.0	27.2	22.1	17.7									27.7
Nissan	Truck	All	1982					28.3	27.9	23.9	17.4									27.8
Nissan	Truck	All	1983					30.2	27.9	24.0	17.5									27.4
Nissan	Truck	All	1984					29.2	28.4	23.0	17.6									26.2
Nissan	Truck	All	1985						26.9	22.9	17.5									25.7
Nissan	Truck	All	1986						26.3	22.8	20.8									24.7
Nissan	Truck	All	1987						26.9	22.2	18.8									23.5
Nissan	Truck	All	1988						26.7	22.8	19.0									22.7
Nissan	Truck	All	1989						27.0	22.5	19.3									23.7
Nissan	Truck	All	1990						28.8	24.7	20.0									25.3
Nissan	Truck	All	1991						28.6	24.9	20.0									24.8
Nissan	Truck	All	1992						28.7	25.0	19.9									24.0
Nissan	Truck	All	1993						28.6	25.2	21.1	18.9								23.7
Nissan	Truck	All	1994						28.3	25.6	21.5	18.4								22.9
Nissan	Truck	All	1995						27.5	25.5	20.9	18.6								22.4
Nissan	Truck	All	1996						27.4	24.8	21.2									22.9
Nissan	Truck	All	1997						26.6	25.1	21.7	19.4								22.3
Nissan	Truck	All	1998						28.8	26.6	22.0	19.3								22.3
Nissan	Truck	All	1999							25.9	21.6	19.3								21.2
Nissan	Truck	All	2000							26.1	20.9	19.3								20.9
Nissan	Truck	All	2001							26.3	20.8	19.5								20.7
Nissan	Truck	All	2002							26.1	20.9	19.4								20.7
Nissan	Truck	All	2003							26.2	22.8	20.2								21.6
Nissan	Truck	All	2004							26.5	23.2	22.1	18.4	18.0	17.4					20.9
Nissan	Truck	All	2005								25.6	21.7	19.9	18.0	17.4					20.5
Nissan	Truck	All	2006								25.4	22.1	19.8	17.9	17.4					20.6
Nissan	Truck	All	2007								25.4	22.7	20.4	17.7	17.8					21.5
Nissan	Truck	All	2008							30.8	28.4	22.0	21.0	18.3	17.8	17.4				21.4
Nissan	Truck	All	2009							30.7	27.7	23.9	21.4	18.5	18.1					24.2
Nissan	Truck	All	2010							30.5	28.4	23.0	21.3	18.8	18.2					22.8
Nissan	Truck	All	2011							31.4	30.3	23.4	21.3	18.6	18.9					23.8
Nissan	Truck	All	2012							31.1	29.4	25.5	20.8	18.8	18.9					25.5

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Nissan	All	All	1975			32.1	27.4	24.1	19.5											24.7
Nissan	All	All	1976			32.6	29.6	25.2	20.7											26.3
Nissan	All	All	1977			33.3	28.3	25.5	20.3											26.7
Nissan	All	All	1978			31.5	27.4	26.0	20.1	20.6										26.5
Nissan	All	All	1979			30.6	26.7	24.1	21.1	15.5										26.2
Nissan	All	All	1980			33.1	32.6	28.9	23.1	16.3										29.8
Nissan	All	All	1981			34.0	31.2	30.1	24.7	25.2	17.7									30.0
Nissan	All	All	1982		41.3	34.9	33.7	28.3	25.6	27.1	17.4									30.0
Nissan	All	All	1983		46.2	37.4	32.6	30.2	26.5	24.7	17.5									31.7
Nissan	All	All	1984			38.3	32.1	32.1	27.4	23.3	17.6									30.5
Nissan	All	All	1985			36.3	31.2	28.5	27.1	22.8	17.5									28.4
Nissan	All	All	1986			37.2	33.8	28.3	26.7	23.7	20.8									27.5
Nissan	All	All	1987			37.5	34.1	30.6	27.2	23.9	18.8									27.8
Nissan	All	All	1988			36.6	34.5	31.4	27.2	23.7	19.0									28.1
Nissan	All	All	1989			36.0	34.6	32.3	26.8	24.7	19.3									28.4
Nissan	All	All	1990				35.5	33.0	27.7	24.9	20.6									27.5
Nissan	All	All	1991				37.1	35.5	28.2	25.1	20.6	18.9								27.6
Nissan	All	All	1992				37.0	35.8	28.2	25.3	20.4	18.9								28.2
Nissan	All	All	1993				37.4	34.4	28.6	25.6	21.7	18.9								27.1
Nissan	All	All	1994				37.5	34.7	28.5	25.2	21.9	18.5								27.3
Nissan	All	All	1995				39.6	36.1	28.1	26.9	21.2	18.6								26.1
Nissan	All	All	1996				38.9	36.4	28.2	27.0	21.3									27.7
Nissan	All	All	1997				39.0	36.0	27.9	26.8	22.0	19.4								26.6
Nissan	All	All	1998				38.4	35.9	30.4	28.2	22.1	19.3								27.1
Nissan	All	All	1999					35.8	30.8	28.3	21.7	19.3								26.5
Nissan	All	All	2000					34.1	30.8	26.9	20.7	19.3								24.3
Nissan	All	All	2001					34.3	30.7	26.6	20.7	19.5								24.1
Nissan	All	All	2002					35.5	33.6	27.5	20.9	19.4								25.0
Nissan	All	All	2003					36.5	34.3	27.0	22.9	20.2								25.4
Nissan	All	All	2004					36.1	35.1	26.6	24.5	22.1	18.4	18.0	17.4					24.1
Nissan	All	All	2005					36.1	34.9	29.6	25.6	21.7	19.9	18.0	17.4					25.1
Nissan	All	All	2006					36.0	35.3	29.5	25.1	22.0	19.8	17.9	17.4					25.0
Nissan	All	All	2007						36.9	33.3	25.7	22.6	20.4	17.7	17.8					26.8
Nissan	All	All	2008						36.9	33.1	26.4	22.0	21.0	18.3	17.8	17.4				27.6
Nissan	All	All	2009					38.1	37.2	33.6	27.3	23.9	21.4	18.5	18.1					29.9
Nissan	All	All	2010					38.0	37.8	33.7	27.6	23.2	21.3	18.8	18.2					29.3
Nissan	All	All	2011					37.9	37.9	34.1	28.5	23.6	21.3	18.6	18.9					29.6
Nissan	All	All	2012				40.5	45.1	38.3	33.6	28.4	25.6	20.8	18.8	18.9					31.4

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Chrysler-Fiat	Car	Car	1975			26.6	23.3	21.7	20.7	19.6	16.6	12.9	13.7	12.6						15.8
Chrysler-Fiat	Car	Car	1976			24.6	26.3	23.9	21.7	19.6	17.6	14.1	13.5	12.4						16.8
Chrysler-Fiat	Car	Car	1977			29.8	28.4	21.9	21.4	20.9	17.1	14.6	13.1	12.1						16.6
Chrysler-Fiat	Car	Car	1978			28.1	28.2	27.4	24.7	20.2	17.3	15.4	13.2	11.0						19.3
Chrysler-Fiat	Car	Car	1979		37.6	32.6	28.0	24.7	23.0	20.2	17.9	16.4								21.4
Chrysler-Fiat	Car	Car	1980		38.8	31.3	27.5	25.1	23.0	20.1	17.2									23.0
Chrysler-Fiat	Car	Car	1981		41.7	34.0	29.6	26.7	23.4	21.0	18.5									26.2
Chrysler-Fiat	Car	Car	1982		41.7	36.2	32.4	28.7	26.0	22.0	19.8		10.0							26.9
Chrysler-Fiat	Car	Car	1983		42.7	36.0	34.6	30.1	25.4	22.4	19.3		10.0							28.5
Chrysler-Fiat	Car	Car	1984		44.8	36.2	31.4	28.9	26.4	21.3	19.7		10.0							28.5
Chrysler-Fiat	Car	Car	1985			37.5	31.4	29.8	26.2	17.8	21.4		10.0							28.1
Chrysler-Fiat	Car	Car	1986			39.3	31.7	29.8	27.0	22.7	21.5		10.0							28.6
Chrysler-Fiat	Car	Car	1987			38.8	30.2	29.3	26.5	22.9	21.5									27.7
Chrysler-Fiat	Car	Car	1988			39.7	32.4	30.3	27.7	24.9	21.3									28.4
Chrysler-Fiat	Car	Car	1989				36.5	30.7	28.5	24.7	21.1									28.0
Chrysler-Fiat	Car	Car	1990				35.3	31.5	28.7	25.4	24.0									27.3
Chrysler-Fiat	Car	Car	1991				37.0	32.0	28.6	25.2	23.8									27.4
Chrysler-Fiat	Car	Car	1992				36.8	32.6	28.8	25.4	23.6									27.7
Chrysler-Fiat	Car	Car	1993			42.5	37.0	32.3	29.0	25.7	23.6									27.9
Chrysler-Fiat	Car	Car	1994			41.8	35.8	31.9	28.3	25.0	23.5									26.2
Chrysler-Fiat	Car	Car	1995			41.8	37.4	31.9	29.0	26.1	23.8									28.1
Chrysler-Fiat	Car	Car	1996			41.7	33.9	31.1	30.1	26.1	24.0									27.2
Chrysler-Fiat	Car	Car	1997					31.2	29.8	26.1	24.0	12.8								27.1
Chrysler-Fiat	Car	Car	1998					31.8	31.6	26.5	23.9	13.4								28.3
Chrysler-Fiat	Car	Car	1999					31.1	27.9	27.2	24.5	13.4								26.9
Chrysler-Fiat	Car	Car	2000					32.5	30.6	26.5	25.0	13.5								27.6
Chrysler-Fiat	Car	Car	2001					34.6	31.9	27.1	24.4	13.5								27.8
Chrysler-Fiat	Car	Car	2002					36.1	31.5	26.9	24.5	13.6								27.4
Chrysler-Fiat	Car	Car	2003					37.1	32.9	28.1	25.0	13.5								29.7
Chrysler-Fiat	Car	Car	2004					37.1	32.5	28.0	25.0									28.7
Chrysler-Fiat	Car	Car	2005					33.3	32.1	27.9	26.1	22.7								28.0
Chrysler-Fiat	Car	Car	2006							28.0	25.6	22.2								25.5
Chrysler-Fiat	Car	Car	2007							31.3	25.2	22.2								28.0
Chrysler-Fiat	Car	Car	2008							31.3	26.3	21.8								28.1
Chrysler-Fiat	Car	Car	2009						35.3	31.6	26.3	22.6								27.4
Chrysler-Fiat	Car	Car	2010							31.8	26.0	22.9								27.1
Chrysler-Fiat	Car	Car	2011							30.8	28.0	22.7								27.5
Chrysler-Fiat	Car	Car	2012				44.5	39.9		31.1	29.0	23.5								30.7

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Chrysler-Fiat	Car	Wagon	1975				24.0	23.0	20.5	19.0	14.5	14.3	13.9	12.6						16.2	
Chrysler-Fiat	Car	Wagon	1976				24.0	25.5	20.5	18.9	18.2	13.9	14.0	12.1						17.1	
Chrysler-Fiat	Car	Wagon	1977			26.8		23.8	19.8	19.0	17.7	14.3	13.9	12.1						16.7	
Chrysler-Fiat	Car	Wagon	1978					21.5	25.2	18.6	18.1	15.8	14.6							17.9	
Chrysler-Fiat	Car	Wagon	1979					24.9	24.4	19.2	18.0	15.9								18.4	
Chrysler-Fiat	Car	Wagon	1980						24.1	20.4	18.3									19.3	
Chrysler-Fiat	Car	Wagon	1981					26.6	24.3	21.5	18.8									25.1	
Chrysler-Fiat	Car	Wagon	1982					29.2	26.2	23.2										27.2	
Chrysler-Fiat	Car	Wagon	1983					30.7	24.8	23.9										27.4	
Chrysler-Fiat	Car	Wagon	1984					28.9	25.6											28.1	
Chrysler-Fiat	Car	Wagon	1985					33.1	26.9	21.0	20.4									27.0	
Chrysler-Fiat	Car	Wagon	1986					33.8	27.9	20.2	19.9									26.7	
Chrysler-Fiat	Car	Wagon	1987					32.0	27.6	19.9	20.2									26.8	
Chrysler-Fiat	Car	Wagon	1988				35.0	32.8	28.5		20.4									29.1	
Chrysler-Fiat	Car	Wagon	1989				36.3	31.5	27.7											31.0	
Chrysler-Fiat	Car	Wagon	1990				34.5	32.3	29.2											32.5	
Chrysler-Fiat	Car	Wagon	1991																		
Chrysler-Fiat	Car	Wagon	1992																		
Chrysler-Fiat	Car	Wagon	1993						27.7	25.0										27.4	
Chrysler-Fiat	Car	Wagon	1994																		
Chrysler-Fiat	Car	Wagon	1995																		
Chrysler-Fiat	Car	Wagon	1996																		
Chrysler-Fiat	Car	Wagon	1997																		
Chrysler-Fiat	Car	Wagon	1998																		
Chrysler-Fiat	Car	Wagon	1999																		
Chrysler-Fiat	Car	Wagon	2000																		
Chrysler-Fiat	Car	Wagon	2001							27.0										27.0	
Chrysler-Fiat	Car	Wagon	2002							25.4										25.4	
Chrysler-Fiat	Car	Wagon	2003							25.6										25.6	
Chrysler-Fiat	Car	Wagon	2004							27.6		22.2	21.8							24.6	
Chrysler-Fiat	Car	Wagon	2005							27.6	23.9	22.6	21.8							24.1	
Chrysler-Fiat	Car	Wagon	2006							27.6	26.1	22.4	21.7							25.2	
Chrysler-Fiat	Car	Wagon	2007							27.6	24.5	22.2	21.6							25.0	
Chrysler-Fiat	Car	Wagon	2008							27.6	24.6	22.4	21.6							26.0	
Chrysler-Fiat	Car	Wagon	2009							27.6										27.6	
Chrysler-Fiat	Car	Wagon	2010						33.6	31.2										31.3	
Chrysler-Fiat	Car	Wagon	2011						35.7	32.3										32.5	
Chrysler-Fiat	Car	Wagon	2012						35.7	32.3										32.6	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Chrysler-Fiat	Car	Non-Truck SUV	1975								14.5									14.5
Chrysler-Fiat	Car	Non-Truck SUV	1976								16.5									16.5
Chrysler-Fiat	Car	Non-Truck SUV	1977								16.4									16.4
Chrysler-Fiat	Car	Non-Truck SUV	1978								16.4									16.4
Chrysler-Fiat	Car	Non-Truck SUV	1979					20.8			16.0									20.3
Chrysler-Fiat	Car	Non-Truck SUV	1980								17.6									17.6
Chrysler-Fiat	Car	Non-Truck SUV	1981								17.3									17.3
Chrysler-Fiat	Car	Non-Truck SUV	1982				23.6													23.6
Chrysler-Fiat	Car	Non-Truck SUV	1983				23.2													23.2
Chrysler-Fiat	Car	Non-Truck SUV	1984				22.6				16.7									18.4
Chrysler-Fiat	Car	Non-Truck SUV	1985						23.4											23.4
Chrysler-Fiat	Car	Non-Truck SUV	1986						25.7	22.1										22.7
Chrysler-Fiat	Car	Non-Truck SUV	1987						26.4	20.4										21.1
Chrysler-Fiat	Car	Non-Truck SUV	1988						26.3	20.8										21.1
Chrysler-Fiat	Car	Non-Truck SUV	1989						24.9	20.7										20.9
Chrysler-Fiat	Car	Non-Truck SUV	1990						25.0	21.0										21.2
Chrysler-Fiat	Car	Non-Truck SUV	1991						23.3	20.6										20.6
Chrysler-Fiat	Car	Non-Truck SUV	1992						24.8	20.6										20.6
Chrysler-Fiat	Car	Non-Truck SUV	1993						25.2	20.1	19.0									19.3
Chrysler-Fiat	Car	Non-Truck SUV	1994						24.8	20.7	20.7									20.9
Chrysler-Fiat	Car	Non-Truck SUV	1995							20.1	18.9									19.5
Chrysler-Fiat	Car	Non-Truck SUV	1996						24.5	20.8	20.4									20.7
Chrysler-Fiat	Car	Non-Truck SUV	1997						24.3	21.0	20.2									20.4
Chrysler-Fiat	Car	Non-Truck SUV	1998							21.1	20.6									20.8
Chrysler-Fiat	Car	Non-Truck SUV	1999							21.6	21.6									21.6
Chrysler-Fiat	Car	Non-Truck SUV	2000							21.5	21.0									21.1
Chrysler-Fiat	Car	Non-Truck SUV	2001							20.9	21.1									21.1
Chrysler-Fiat	Car	Non-Truck SUV	2002								20.2									20.2
Chrysler-Fiat	Car	Non-Truck SUV	2003								22.0									22.0
Chrysler-Fiat	Car	Non-Truck SUV	2004								22.5									22.5
Chrysler-Fiat	Car	Non-Truck SUV	2005								22.1									22.1
Chrysler-Fiat	Car	Non-Truck SUV	2006								22.4									22.4
Chrysler-Fiat	Car	Non-Truck SUV	2007								23.1									23.1
Chrysler-Fiat	Car	Non-Truck SUV	2008																	
Chrysler-Fiat	Car	Non-Truck SUV	2009								27.3									27.3
Chrysler-Fiat	Car	Non-Truck SUV	2010								27.8									27.8
Chrysler-Fiat	Car	Non-Truck SUV	2011																	
Chrysler-Fiat	Car	Non-Truck SUV	2012																	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Chrysler-Fiat	Car	All	1975			26.6	23.4	22.6	20.7	19.5	16.5	12.9	13.7	12.6						15.8
Chrysler-Fiat	Car	All	1976			24.6	26.1	24.2	21.7	19.5	17.9	14.1	13.6	12.3						16.8
Chrysler-Fiat	Car	All	1977			29.6	28.4	22.1	21.3	20.4	17.3	14.6	13.3	12.1						16.6
Chrysler-Fiat	Car	All	1978			28.1	28.2	24.5	24.7	20.0	17.6	15.4	13.5	11.0						19.1
Chrysler-Fiat	Car	All	1979		37.6	32.6	28.0	24.1	23.1	20.2	17.9	16.4								21.0
Chrysler-Fiat	Car	All	1980		38.8	31.3	27.5	25.1	23.1	20.1	17.4									22.7
Chrysler-Fiat	Car	All	1981		41.7	34.0	29.6	26.7	23.4	21.1	18.5									26.1
Chrysler-Fiat	Car	All	1982		41.7	36.2	31.3	28.8	26.0	22.2	19.8		10.0							26.9
Chrysler-Fiat	Car	All	1983		42.7	36.0	33.2	30.2	25.2	22.6	19.3		10.0							28.3
Chrysler-Fiat	Car	All	1984		44.8	36.2	31.2	28.9	26.4	21.3	19.5		10.0							28.4
Chrysler-Fiat	Car	All	1985			37.5	31.4	29.8	26.2	18.1	21.4		10.0							28.1
Chrysler-Fiat	Car	All	1986			39.3	31.7	29.8	27.1	22.1	21.4		10.0							28.4
Chrysler-Fiat	Car	All	1987			38.8	30.2	29.3	26.6	21.9	21.4									27.6
Chrysler-Fiat	Car	All	1988			39.7	32.7	30.3	27.8	24.4	21.3									28.3
Chrysler-Fiat	Car	All	1989				36.5	30.7	28.5	24.5	21.1									27.9
Chrysler-Fiat	Car	All	1990				35.3	31.6	28.7	25.2	24.0									27.2
Chrysler-Fiat	Car	All	1991				37.0	32.0	28.6	25.0	23.8									27.3
Chrysler-Fiat	Car	All	1992				36.8	32.6	28.8	24.7	23.6									27.2
Chrysler-Fiat	Car	All	1993			42.5	37.0	32.3	28.9	24.8	19.2									25.1
Chrysler-Fiat	Car	All	1994			41.8	35.8	31.9	28.3	24.2	23.0									25.6
Chrysler-Fiat	Car	All	1995			41.8	37.4	31.9	29.0	25.4	22.4									27.3
Chrysler-Fiat	Car	All	1996			41.7	33.9	31.1	29.7	25.4	23.0									26.3
Chrysler-Fiat	Car	All	1997					31.2	29.8	25.8	22.8	12.8								26.3
Chrysler-Fiat	Car	All	1998					31.8	31.6	26.1	20.8	13.4								27.2
Chrysler-Fiat	Car	All	1999					31.1	27.9	26.8	23.8	13.4								26.3
Chrysler-Fiat	Car	All	2000					32.5	30.6	26.3	23.2	13.5								26.6
Chrysler-Fiat	Car	All	2001					34.6	31.9	26.7	22.9	13.5								26.8
Chrysler-Fiat	Car	All	2002					36.1	31.5	26.4	23.0	13.6								26.4
Chrysler-Fiat	Car	All	2003					37.1	32.9	26.8	22.8	13.5								27.2
Chrysler-Fiat	Car	All	2004					37.1	32.5	27.9	23.8	22.2	21.8							27.0
Chrysler-Fiat	Car	All	2005					33.3	32.1	27.8	24.6	22.7	21.8							26.3
Chrysler-Fiat	Car	All	2006							27.8	25.2	22.3	21.7							25.3
Chrysler-Fiat	Car	All	2007							30.2	24.7	22.2	21.6							26.9
Chrysler-Fiat	Car	All	2008							30.5	26.2	21.9	21.6							27.7
Chrysler-Fiat	Car	All	2009						35.3	30.6	26.5	22.6								27.4
Chrysler-Fiat	Car	All	2010						33.6	31.6	26.2	22.9								27.7
Chrysler-Fiat	Car	All	2011						35.7	31.4	28.0	22.7								28.2
Chrysler-Fiat	Car	All	2012				44.5	39.9	35.7	31.2	29.0	23.5								30.8

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Chrysler-Fiat	Truck	Van	1975							18.8	14.3	11.5	11.2							12.6	
Chrysler-Fiat	Truck	Van	1976							19.5	14.9	13.6	11.5							14.2	
Chrysler-Fiat	Truck	Van	1977							19.6	15.5	13.3	12.3							13.8	
Chrysler-Fiat	Truck	Van	1978							19.2	14.9	12.9	12.6							13.4	
Chrysler-Fiat	Truck	Van	1979								15.8	13.7	11.7	10.6						13.8	
Chrysler-Fiat	Truck	Van	1980							18.3	17.7	14.8	12.8	11.2						16.6	
Chrysler-Fiat	Truck	Van	1981							19.9	17.8	15.6	13.3	11.1						17.4	
Chrysler-Fiat	Truck	Van	1982							20.4	18.0	15.4	13.2							17.7	
Chrysler-Fiat	Truck	Van	1983								18.6	15.9	13.0							18.0	
Chrysler-Fiat	Truck	Van	1984					29.7	25.1	23.9	16.7	14.7	13.1	11.2						20.2	
Chrysler-Fiat	Truck	Van	1985					29.8	25.8	23.2	17.2	15.1	13.3	12.0						21.0	
Chrysler-Fiat	Truck	Van	1986					29.4	26.5	24.1	18.4	16.5	15.0	12.2						22.0	
Chrysler-Fiat	Truck	Van	1987					29.3	27.1	24.4	21.2	16.7	15.2	12.0						22.3	
Chrysler-Fiat	Truck	Van	1988						27.8	24.7	22.8	17.4	15.7	12.9						23.0	
Chrysler-Fiat	Truck	Van	1989						26.5	24.3	23.2	16.4	15.5	12.2						22.6	
Chrysler-Fiat	Truck	Van	1990						26.4	25.4	23.0	16.9	16.2	12.4						23.0	
Chrysler-Fiat	Truck	Van	1991						26.2	25.7	23.2	17.9	16.2							22.8	
Chrysler-Fiat	Truck	Van	1992						27.7	25.9	23.1	17.0	15.3	14.6						22.7	
Chrysler-Fiat	Truck	Van	1993						27.9	25.3	23.2	18.2	16.2	15.2						23.6	
Chrysler-Fiat	Truck	Van	1994						28.3	24.7	23.0	17.9	16.6	15.7						22.4	
Chrysler-Fiat	Truck	Van	1995						27.7	25.1	23.0	17.1	16.4	15.3						23.0	
Chrysler-Fiat	Truck	Van	1996						27.7	24.2	24.0	20.5	17.1	14.7						22.8	
Chrysler-Fiat	Truck	Van	1997								23.7	20.6	17.5	14.9	14.4					22.7	
Chrysler-Fiat	Truck	Van	1998								24.2	21.8	17.3	17.1						23.3	
Chrysler-Fiat	Truck	Van	1999								23.9	21.8	17.8	17.3						23.0	
Chrysler-Fiat	Truck	Van	2000								24.5	21.7	17.4	15.7						23.4	
Chrysler-Fiat	Truck	Van	2001								24.8	23.7	18.9	16.4						23.4	
Chrysler-Fiat	Truck	Van	2002								25.8	23.6	17.3	15.5						23.8	
Chrysler-Fiat	Truck	Van	2003								26.0	23.9	18.3							24.5	
Chrysler-Fiat	Truck	Van	2004								25.7	24.1	22.5							24.5	
Chrysler-Fiat	Truck	Van	2005								25.7	23.3								24.3	
Chrysler-Fiat	Truck	Van	2006								25.7	23.9								24.4	
Chrysler-Fiat	Truck	Van	2007								25.7	23.4								23.8	
Chrysler-Fiat	Truck	Van	2008									24.3	26.0							24.4	
Chrysler-Fiat	Truck	Van	2009									24.3	26.0							24.6	
Chrysler-Fiat	Truck	Van	2010									24.1	26.0							24.4	
Chrysler-Fiat	Truck	Van	2011									25.7								25.7	
Chrysler-Fiat	Truck	Van	2012									25.9								25.9	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Chrysler-Fiat	Truck	Truck SUV	1975					16.8			13.2	13.1		10.6						14.6
Chrysler-Fiat	Truck	Truck SUV	1976					17.8	15.4		13.8	13.3		11.2						15.0
Chrysler-Fiat	Truck	Truck SUV	1977					18.6	16.8		14.7	14.3		11.9						15.8
Chrysler-Fiat	Truck	Truck SUV	1978					18.1	16.8		14.5	13.9		12.0						15.6
Chrysler-Fiat	Truck	Truck SUV	1979						17.2	15.6	16.9	12.9	12.1							15.1
Chrysler-Fiat	Truck	Truck SUV	1980						19.7	16.3	17.0	12.9	12.4							16.8
Chrysler-Fiat	Truck	Truck SUV	1981						20.9	17.2	17.3	14.9	13.6							18.4
Chrysler-Fiat	Truck	Truck SUV	1982						20.2		20.5	15.1	13.7							17.7
Chrysler-Fiat	Truck	Truck SUV	1983						20.5		20.3	15.0	14.1							17.7
Chrysler-Fiat	Truck	Truck SUV	1984						22.6	20.7	20.1	14.0	12.1							18.3
Chrysler-Fiat	Truck	Truck SUV	1985							22.1		14.4	14.0							15.0
Chrysler-Fiat	Truck	Truck SUV	1986						22.8	21.2	19.1	14.5	13.6							19.1
Chrysler-Fiat	Truck	Truck SUV	1987						22.4	21.8		14.7	13.1							19.9
Chrysler-Fiat	Truck	Truck SUV	1988						22.3	20.3		14.6	14.6							19.2
Chrysler-Fiat	Truck	Truck SUV	1989						22.1	20.2	19.4	14.5	13.2							19.2
Chrysler-Fiat	Truck	Truck SUV	1990						22.1	20.5	20.6	14.6	14.3							19.8
Chrysler-Fiat	Truck	Truck SUV	1991							19.8	18.4	14.4	14.9							19.4
Chrysler-Fiat	Truck	Truck SUV	1992						22.5	19.4	19.3	16.7	15.0							19.8
Chrysler-Fiat	Truck	Truck SUV	1993						22.5	19.6	19.7	16.5	15.3							20.0
Chrysler-Fiat	Truck	Truck SUV	1994						22.1	19.4	18.2									18.9
Chrysler-Fiat	Truck	Truck SUV	1995						22.4	19.4	18.3									19.3
Chrysler-Fiat	Truck	Truck SUV	1996							19.8	18.5									19.0
Chrysler-Fiat	Truck	Truck SUV	1997							21.0	19.1									19.8
Chrysler-Fiat	Truck	Truck SUV	1998							20.3	19.6	16.7	16.5							18.9
Chrysler-Fiat	Truck	Truck SUV	1999							21.5	20.2	18.5	16.4							18.8
Chrysler-Fiat	Truck	Truck SUV	2000							20.3	20.1	18.2	17.1							19.0
Chrysler-Fiat	Truck	Truck SUV	2001							20.5	20.0	18.6	16.8							18.9
Chrysler-Fiat	Truck	Truck SUV	2002							21.8	20.0	19.4	17.6							19.4
Chrysler-Fiat	Truck	Truck SUV	2003							22.1	20.8	21.0	18.9							20.5
Chrysler-Fiat	Truck	Truck SUV	2004							22.2	21.2	20.1	18.0	17.0						20.2
Chrysler-Fiat	Truck	Truck SUV	2005							20.0	20.8	21.8	18.5	17.1						19.8
Chrysler-Fiat	Truck	Truck SUV	2006							23.8	20.2	21.8	19.2	18.3						19.9
Chrysler-Fiat	Truck	Truck SUV	2007							29.1	21.8	21.4	19.4	18.6						21.6
Chrysler-Fiat	Truck	Truck SUV	2008							30.0	22.5	21.8	19.7	18.4						22.3
Chrysler-Fiat	Truck	Truck SUV	2009							28.9	22.3	22.0	19.8	19.4	26.9					22.7
Chrysler-Fiat	Truck	Truck SUV	2010							29.8	22.1	22.3	19.5	19.8						23.1
Chrysler-Fiat	Truck	Truck SUV	2011							30.8	22.6	22.5	23.9	19.9						23.8
Chrysler-Fiat	Truck	Truck SUV	2012							30.6	24.2	23.4	23.8	19.4						23.8

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Chrysler-Fiat	Truck	Pickup	1975							18.7	13.5	12.8	12.0	10.8						13.0	
Chrysler-Fiat	Truck	Pickup	1976							19.8	15.3	13.1	12.5	11.3						14.0	
Chrysler-Fiat	Truck	Pickup	1977							19.9	15.7	13.8	13.3	11.9						14.5	
Chrysler-Fiat	Truck	Pickup	1978							19.1	15.3	13.3	13.2	12.0						14.5	
Chrysler-Fiat	Truck	Pickup	1979					23.9			16.6	12.3	11.7	11.7						15.0	
Chrysler-Fiat	Truck	Pickup	1980					24.7		18.2	18.0	13.8	12.8	11.4						19.8	
Chrysler-Fiat	Truck	Pickup	1981					25.1	23.6	20.2	18.3	14.9								19.9	
Chrysler-Fiat	Truck	Pickup	1982				29.6	27.8	23.7	22.5	18.7	15.3	13.7							21.2	
Chrysler-Fiat	Truck	Pickup	1983				33.7	29.0	26.1	24.7	19.0	15.1	13.4							23.4	
Chrysler-Fiat	Truck	Pickup	1984				30.0	27.8	25.3	20.6	17.7	14.2	12.5							19.4	
Chrysler-Fiat	Truck	Pickup	1985					28.3	26.3	22.3	17.2	14.9	13.4							18.6	
Chrysler-Fiat	Truck	Pickup	1986					28.7	25.3	23.0	17.8	14.9	13.0							20.2	
Chrysler-Fiat	Truck	Pickup	1987					29.9	27.4	22.5	18.6	15.2	13.7							21.2	
Chrysler-Fiat	Truck	Pickup	1988					29.6	26.9	21.7	19.0	16.1	13.8							20.8	
Chrysler-Fiat	Truck	Pickup	1989					29.6	27.4	20.7	18.2	15.5	14.0							19.9	
Chrysler-Fiat	Truck	Pickup	1990						25.0	22.9	19.7	16.0	14.0							19.1	
Chrysler-Fiat	Truck	Pickup	1991						24.5	23.2	19.3	16.0	14.2	12.4						18.8	
Chrysler-Fiat	Truck	Pickup	1992						24.6	23.0	19.3	17.3	15.2	13.9						19.2	
Chrysler-Fiat	Truck	Pickup	1993						26.4	22.0	19.5	17.3	15.8	14.2						18.9	
Chrysler-Fiat	Truck	Pickup	1994							23.6	20.7	18.1	15.9	15.2						18.8	
Chrysler-Fiat	Truck	Pickup	1995							26.0	20.3	17.5	15.8	15.1						17.8	
Chrysler-Fiat	Truck	Pickup	1996							23.2	19.9	17.6	16.6	15.1						17.4	
Chrysler-Fiat	Truck	Pickup	1997							24.6	20.3	18.0	17.1	16.0						17.7	
Chrysler-Fiat	Truck	Pickup	1998							26.8	20.9	18.6	17.0	16.3	15.5					18.0	
Chrysler-Fiat	Truck	Pickup	1999							26.4	20.2	18.0	17.3	16.2	16.2					17.7	
Chrysler-Fiat	Truck	Pickup	2000							25.7	21.3	18.9	17.0	16.1	15.8					18.4	
Chrysler-Fiat	Truck	Pickup	2001							25.6	20.4	18.9	17.1	15.5	15.8					17.3	
Chrysler-Fiat	Truck	Pickup	2002							26.0	20.8	19.2	18.3	16.5	15.3					17.9	
Chrysler-Fiat	Truck	Pickup	2003								21.1	19.9	18.9	17.1	16.1					18.2	
Chrysler-Fiat	Truck	Pickup	2004								22.2	20.4	18.0	17.0	16.0					17.9	
Chrysler-Fiat	Truck	Pickup	2005									20.8	18.4	16.9	13.0					18.2	
Chrysler-Fiat	Truck	Pickup	2006									20.8	19.7	18.5	15.8					19.0	
Chrysler-Fiat	Truck	Pickup	2007									21.5	18.8	18.5	18.2					18.9	
Chrysler-Fiat	Truck	Pickup	2008									21.4	19.7	20.1	17.6					20.2	
Chrysler-Fiat	Truck	Pickup	2009									20.6	20.0	19.9	18.4					19.5	
Chrysler-Fiat	Truck	Pickup	2010									21.0	20.3	19.7						19.8	
Chrysler-Fiat	Truck	Pickup	2011									21.1	20.1	19.7						19.9	
Chrysler-Fiat	Truck	Pickup	2012									20.9	20.8	20.1						20.2	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Chrysler-Fiat	Truck	All	1975					16.8		18.8	13.9	11.9	11.9	10.7						13.2
Chrysler-Fiat	Truck	All	1976					17.8	15.4	19.7	14.9	13.4	12.2	11.3						14.3
Chrysler-Fiat	Truck	All	1977					18.6	16.8	19.8	15.4	13.6	12.4	11.9						14.5
Chrysler-Fiat	Truck	All	1978					18.1	16.8	19.1	15.0	13.2	12.9	12.0						14.4
Chrysler-Fiat	Truck	All	1979					23.9	17.2	15.6	16.3	13.0	11.8	10.6						14.7
Chrysler-Fiat	Truck	All	1980					24.7	19.7	17.1	17.8	13.6	12.7	11.2						18.2
Chrysler-Fiat	Truck	All	1981					25.1	21.8	19.8	18.0	15.1	13.4	11.1						18.8
Chrysler-Fiat	Truck	All	1982				29.6	27.8	22.0	21.6	18.5	15.2	13.6							19.4
Chrysler-Fiat	Truck	All	1983				33.7	29.0	23.2	24.7	18.8	15.2	13.6							20.6
Chrysler-Fiat	Truck	All	1984				30.0	28.4	23.6	22.6	17.2	14.2	12.3	11.2						19.4
Chrysler-Fiat	Truck	All	1985					28.6	25.9	23.1	17.2	14.8	13.7	12.0						19.4
Chrysler-Fiat	Truck	All	1986					28.7	25.8	22.9	17.9	15.5	13.9	12.2						20.7
Chrysler-Fiat	Truck	All	1987					29.8	26.7	23.1	19.5	15.8	14.0	12.0						21.3
Chrysler-Fiat	Truck	All	1988					29.6	26.5	22.3	21.8	16.2	14.5	12.9						21.4
Chrysler-Fiat	Truck	All	1989					29.6	25.4	22.0	21.9	15.7	14.0	12.2						21.0
Chrysler-Fiat	Truck	All	1990						23.0	22.9	22.3	16.2	14.7	12.4						21.4
Chrysler-Fiat	Truck	All	1991						25.5	21.4	22.4	16.8	14.9	12.4						21.1
Chrysler-Fiat	Truck	All	1992						24.2	21.4	22.3	17.2	15.2	14.6						21.4
Chrysler-Fiat	Truck	All	1993						23.4	23.0	22.1	17.6	15.8	14.7						21.9
Chrysler-Fiat	Truck	All	1994						22.7	22.1	21.1	18.0	16.0	15.3						20.5
Chrysler-Fiat	Truck	All	1995						22.6	22.9	20.3	17.3	15.8	15.1						20.1
Chrysler-Fiat	Truck	All	1996						27.7	20.4	21.8	19.5	16.6	15.1						20.2
Chrysler-Fiat	Truck	All	1997							21.2	21.7	19.6	17.1	16.0	14.4					20.2
Chrysler-Fiat	Truck	All	1998							20.9	21.9	19.9	16.8	16.3	15.5					20.0
Chrysler-Fiat	Truck	All	1999							22.0	22.0	19.3	16.9	16.3	16.2					19.8
Chrysler-Fiat	Truck	All	2000							20.4	22.5	19.6	17.1	16.1	15.8					20.3
Chrysler-Fiat	Truck	All	2001							21.0	21.1	21.3	17.1	15.5	15.8					19.4
Chrysler-Fiat	Truck	All	2002							21.9	21.8	21.1	18.0	16.5	15.3					20.0
Chrysler-Fiat	Truck	All	2003							22.1	23.0	22.1	18.9	17.1	16.1					20.8
Chrysler-Fiat	Truck	All	2004							22.2	21.5	21.6	18.0	17.0	16.0					19.7
Chrysler-Fiat	Truck	All	2005							20.0	23.5	22.6	18.4	17.0	13.0					20.9
Chrysler-Fiat	Truck	All	2006							23.8	22.0	23.0	19.4	18.4	15.8					21.0
Chrysler-Fiat	Truck	All	2007							29.1	22.8	22.4	19.2	18.6	18.2					21.5
Chrysler-Fiat	Truck	All	2008							30.0	22.5	22.9	20.8	19.8	17.6					22.4
Chrysler-Fiat	Truck	All	2009							28.9	22.3	23.0	22.0	19.8	18.7					22.4
Chrysler-Fiat	Truck	All	2010							29.8	22.1	23.2	23.1	19.7						22.9
Chrysler-Fiat	Truck	All	2011							30.8	22.6	23.8	23.4	19.8						23.2
Chrysler-Fiat	Truck	All	2012							30.6	24.2	24.7	23.5	19.8						23.8

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Chrysler-Fiat	All	All	1975			26.6	23.4	19.6	20.7	19.5	15.2	12.6	13.7	12.2						15.3	
Chrysler-Fiat	All	All	1976			24.6	26.1	21.2	20.5	19.5	17.1	13.9	13.6	12.1						16.2	
Chrysler-Fiat	All	All	1977			29.6	28.4	20.2	19.7	20.4	17.0	14.2	13.2	12.1						16.2	
Chrysler-Fiat	All	All	1978			28.1	28.2	20.8	22.0	19.9	16.8	14.3	13.4	11.4						17.6	
Chrysler-Fiat	All	All	1979		37.6	32.6	28.0	24.0	19.5	19.5	17.5	14.3	11.8	10.6						18.8	
Chrysler-Fiat	All	All	1980		38.8	31.3	27.5	24.7	21.9	19.9	17.5	13.6	12.7	11.2						21.5	
Chrysler-Fiat	All	All	1981		41.7	34.0	29.6	26.6	22.7	20.9	18.3	15.1	13.4	11.1						24.5	
Chrysler-Fiat	All	All	1982		41.7	36.2	31.1	28.7	24.7	22.0	19.2	15.2	13.3							24.5	
Chrysler-Fiat	All	All	1983		42.7	36.0	33.2	30.1	24.4	23.1	19.1	15.2	13.5							25.8	
Chrysler-Fiat	All	All	1984		44.8	36.2	31.2	28.8	25.5	22.6	18.2	14.2	12.3	11.2						24.6	
Chrysler-Fiat	All	All	1985			37.5	31.4	29.6	26.2	23.1	19.2	14.8	13.6	12.0						24.6	
Chrysler-Fiat	All	All	1986			39.3	31.7	29.6	26.9	22.9	19.7	15.5	13.9	12.2						24.8	
Chrysler-Fiat	All	All	1987			38.8	30.2	29.3	26.6	23.1	20.4	15.8	14.0	12.0						24.6	
Chrysler-Fiat	All	All	1988			39.7	32.7	30.2	27.6	22.7	21.7	16.2	14.5	12.9						24.7	
Chrysler-Fiat	All	All	1989				36.5	30.6	28.1	22.9	21.9	15.7	14.0	12.2						24.1	
Chrysler-Fiat	All	All	1990				35.3	31.6	28.1	23.9	22.5	16.2	14.7	12.4						23.9	
Chrysler-Fiat	All	All	1991				37.0	32.0	28.5	23.4	22.5	16.8	14.9	12.4						24.1	
Chrysler-Fiat	All	All	1992				36.8	32.6	28.2	23.2	22.3	17.2	15.2	14.6						23.7	
Chrysler-Fiat	All	All	1993			42.5	37.0	32.3	28.4	23.9	21.0	17.6	15.8	14.7						23.5	
Chrysler-Fiat	All	All	1994			41.8	35.8	31.9	27.6	23.1	21.5	18.0	16.0	15.3						22.2	
Chrysler-Fiat	All	All	1995			41.8	37.4	31.9	25.6	24.2	20.8	17.3	15.8	15.1						22.9	
Chrysler-Fiat	All	All	1996			41.7	33.9	31.1	29.7	23.6	22.0	19.5	16.6	15.1						22.2	
Chrysler-Fiat	All	All	1997					31.2	29.8	24.1	21.9	19.5	17.1	16.0	14.4					22.2	
Chrysler-Fiat	All	All	1998					31.8	31.6	24.8	21.8	19.9	16.8	16.3	15.5					21.9	
Chrysler-Fiat	All	All	1999					31.1	27.9	26.4	22.3	19.3	16.9	16.3	16.2					21.5	
Chrysler-Fiat	All	All	2000					32.5	30.6	24.8	22.7	19.6	17.1	16.1	15.8					22.3	
Chrysler-Fiat	All	All	2001					34.6	31.9	26.3	21.5	21.3	17.1	15.5	15.8					21.6	
Chrysler-Fiat	All	All	2002					36.1	31.5	26.3	22.1	21.1	18.0	16.5	15.3					21.8	
Chrysler-Fiat	All	All	2003					37.1	32.9	26.7	23.0	22.1	18.9	17.1	16.1					22.3	
Chrysler-Fiat	All	All	2004					37.1	32.5	27.8	21.8	21.7	18.8	17.0	16.0					22.0	
Chrysler-Fiat	All	All	2005					33.3	32.1	27.1	23.8	22.6	19.0	17.0	13.0					22.6	
Chrysler-Fiat	All	All	2006							27.7	23.6	22.8	19.6	18.4	15.8					22.5	
Chrysler-Fiat	All	All	2007							30.0	23.5	22.3	19.3	18.6	18.2					23.2	
Chrysler-Fiat	All	All	2008							30.4	25.0	22.8	20.8	19.8	17.6					24.1	
Chrysler-Fiat	All	All	2009						35.3	30.1	25.5	22.9	22.0	19.8	18.7					23.9	
Chrysler-Fiat	All	All	2010						33.6	31.1	25.1	23.2	23.1	19.7						24.3	
Chrysler-Fiat	All	All	2011						35.7	31.1	25.6	23.7	23.4	19.8						24.2	
Chrysler-Fiat	All	All	2012				44.5	39.9	35.7	31.0	27.3	24.5	23.5	19.8						25.7	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Hyundai	Car	Car	1975																	
Hyundai	Car	Car	1976																	
Hyundai	Car	Car	1977																	
Hyundai	Car	Car	1978																	
Hyundai	Car	Car	1979																	
Hyundai	Car	Car	1980																	
Hyundai	Car	Car	1981																	
Hyundai	Car	Car	1982																	
Hyundai	Car	Car	1983																	
Hyundai	Car	Car	1984																	
Hyundai	Car	Car	1985																	
Hyundai	Car	Car	1986				34.9													34.9
Hyundai	Car	Car	1987				34.5													34.5
Hyundai	Car	Car	1988				34.3													34.3
Hyundai	Car	Car	1989				34.8		26.5											33.1
Hyundai	Car	Car	1990				35.7		26.9	23.8										33.1
Hyundai	Car	Car	1991				34.9		26.9	23.7										32.7
Hyundai	Car	Car	1992				34.8	28.8	28.9	24.9										31.1
Hyundai	Car	Car	1993				35.0	28.5	29.2	25.2										31.0
Hyundai	Car	Car	1994				35.8	28.5	29.2	24.9										32.7
Hyundai	Car	Car	1995				36.8	29.2	28.6	23.7										30.9
Hyundai	Car	Car	1996				35.9	31.6	29.3	24.5										32.9
Hyundai	Car	Car	1997				35.8	31.0	28.9	23.8										31.1
Hyundai	Car	Car	1998				35.6	31.8	28.5	23.1										30.6
Hyundai	Car	Car	1999				35.8		29.6	26.7										30.6
Hyundai	Car	Car	2000				36.5	34.0	29.7	26.8										30.1
Hyundai	Car	Car	2001				36.6	33.9	31.9	27.0	25.4									31.0
Hyundai	Car	Car	2002				36.6	33.8	32.4	27.4	24.1									30.8
Hyundai	Car	Car	2003					35.0	32.2	26.5	23.4									30.1
Hyundai	Car	Car	2004					35.0	32.3	26.7	23.4									29.2
Hyundai	Car	Car	2005					35.0	32.4	26.8	24.3									30.2
Hyundai	Car	Car	2006					37.2	32.2	30.2	27.5									29.8
Hyundai	Car	Car	2007					37.1	36.8	31.1	27.3									32.1
Hyundai	Car	Car	2008					37.2	36.6	31.4	27.8									33.8
Hyundai	Car	Car	2009					39.0	36.6	33.2	28.7	25.2								33.8
Hyundai	Car	Car	2010					40.2	38.7	32.2	28.3	25.2								35.9
Hyundai	Car	Car	2011					N/A	N/A	N/A	N/A	N/A								N/A
Hyundai	Car	Car	2012					N/A	N/A	N/A	N/A	N/A								N/A

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Hyundai	Car	Wagon	1975																		
Hyundai	Car	Wagon	1976																		
Hyundai	Car	Wagon	1977																		
Hyundai	Car	Wagon	1978																		
Hyundai	Car	Wagon	1979																		
Hyundai	Car	Wagon	1980																		
Hyundai	Car	Wagon	1981																		
Hyundai	Car	Wagon	1982																		
Hyundai	Car	Wagon	1983																		
Hyundai	Car	Wagon	1984																		
Hyundai	Car	Wagon	1985																		
Hyundai	Car	Wagon	1986																		
Hyundai	Car	Wagon	1987																		
Hyundai	Car	Wagon	1988																		
Hyundai	Car	Wagon	1989																		
Hyundai	Car	Wagon	1990																		
Hyundai	Car	Wagon	1991																		
Hyundai	Car	Wagon	1992																		
Hyundai	Car	Wagon	1993																		
Hyundai	Car	Wagon	1994																		
Hyundai	Car	Wagon	1995																		
Hyundai	Car	Wagon	1996						30.2											30.2	
Hyundai	Car	Wagon	1997						30.4											30.4	
Hyundai	Car	Wagon	1998						29.5											29.5	
Hyundai	Car	Wagon	1999						28.9											28.9	
Hyundai	Car	Wagon	2000						28.9											28.9	
Hyundai	Car	Wagon	2001																		
Hyundai	Car	Wagon	2002																		
Hyundai	Car	Wagon	2003																		
Hyundai	Car	Wagon	2004																		
Hyundai	Car	Wagon	2005																		
Hyundai	Car	Wagon	2006																		
Hyundai	Car	Wagon	2007																		
Hyundai	Car	Wagon	2008																		
Hyundai	Car	Wagon	2009						34.5	34.5										34.5	
Hyundai	Car	Wagon	2010							34.5										34.5	
Hyundai	Car	Wagon	2011							N/A										N/A	
Hyundai	Car	Wagon	2012							N/A										N/A	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Hyundai	Car	Non-Truck SUV	1975																	
Hyundai	Car	Non-Truck SUV	1976																	
Hyundai	Car	Non-Truck SUV	1977																	
Hyundai	Car	Non-Truck SUV	1978																	
Hyundai	Car	Non-Truck SUV	1979																	
Hyundai	Car	Non-Truck SUV	1980																	
Hyundai	Car	Non-Truck SUV	1981																	
Hyundai	Car	Non-Truck SUV	1982																	
Hyundai	Car	Non-Truck SUV	1983																	
Hyundai	Car	Non-Truck SUV	1984																	
Hyundai	Car	Non-Truck SUV	1985																	
Hyundai	Car	Non-Truck SUV	1986																	
Hyundai	Car	Non-Truck SUV	1987																	
Hyundai	Car	Non-Truck SUV	1988																	
Hyundai	Car	Non-Truck SUV	1989																	
Hyundai	Car	Non-Truck SUV	1990																	
Hyundai	Car	Non-Truck SUV	1991																	
Hyundai	Car	Non-Truck SUV	1992																	
Hyundai	Car	Non-Truck SUV	1993																	
Hyundai	Car	Non-Truck SUV	1994																	
Hyundai	Car	Non-Truck SUV	1995																	
Hyundai	Car	Non-Truck SUV	1996																	
Hyundai	Car	Non-Truck SUV	1997																	
Hyundai	Car	Non-Truck SUV	1998																	
Hyundai	Car	Non-Truck SUV	1999																	
Hyundai	Car	Non-Truck SUV	2000																	
Hyundai	Car	Non-Truck SUV	2001								25.9									25.9
Hyundai	Car	Non-Truck SUV	2002								25.3									25.3
Hyundai	Car	Non-Truck SUV	2003								25.6									25.6
Hyundai	Car	Non-Truck SUV	2004								25.0									25.0
Hyundai	Car	Non-Truck SUV	2005							28.2	25.0									25.4
Hyundai	Car	Non-Truck SUV	2006							28.2	25.2									25.7
Hyundai	Car	Non-Truck SUV	2007							28.2	25.8	23.6								26.0
Hyundai	Car	Non-Truck SUV	2008							28.2	26.2	23.6								26.1
Hyundai	Car	Non-Truck SUV	2009							28.9	26.2	23.6								26.4
Hyundai	Car	Non-Truck SUV	2010							34.0	30.0	24.7								30.4
Hyundai	Car	Non-Truck SUV	2011							N/A	N/A	N/A								N/A
Hyundai	Car	Non-Truck SUV	2012							N/A	N/A	N/A								N/A

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Hyundai	Car	All	1975																	
Hyundai	Car	All	1976																	
Hyundai	Car	All	1977																	
Hyundai	Car	All	1978																	
Hyundai	Car	All	1979																	
Hyundai	Car	All	1980																	
Hyundai	Car	All	1981																	
Hyundai	Car	All	1982																	
Hyundai	Car	All	1983																	
Hyundai	Car	All	1984																	
Hyundai	Car	All	1985																	
Hyundai	Car	All	1986				34.9													34.9
Hyundai	Car	All	1987				34.5													34.5
Hyundai	Car	All	1988				34.3													34.3
Hyundai	Car	All	1989				34.8		26.5											33.1
Hyundai	Car	All	1990				35.7		26.9	23.8										33.1
Hyundai	Car	All	1991				34.9		26.9	23.7										32.7
Hyundai	Car	All	1992				34.8	28.8	28.9	24.9										31.1
Hyundai	Car	All	1993				35.0	28.5	29.2	25.2										31.0
Hyundai	Car	All	1994				35.8	28.5	29.2	24.9										32.7
Hyundai	Car	All	1995				36.8	29.2	28.6	23.7										30.9
Hyundai	Car	All	1996				35.9	31.6	29.5	24.5										32.7
Hyundai	Car	All	1997				35.8	31.0	29.1	23.8										31.0
Hyundai	Car	All	1998				35.6	31.8	28.6	23.1										30.6
Hyundai	Car	All	1999				35.8		29.5	26.7										30.5
Hyundai	Car	All	2000				36.5	34.0	29.6	26.8										30.0
Hyundai	Car	All	2001				36.6	33.9	31.9	27.0	25.7									30.5
Hyundai	Car	All	2002				36.6	33.8	32.4	27.4	25.0									30.0
Hyundai	Car	All	2003					35.0	32.2	26.5	25.2									29.3
Hyundai	Car	All	2004					35.0	32.3	26.7	24.6									28.2
Hyundai	Car	All	2005					35.0	32.4	27.0	24.8									28.8
Hyundai	Car	All	2006					37.2	32.2	29.8	26.8									29.0
Hyundai	Car	All	2007					37.1	36.8	30.5	26.5	23.6								30.0
Hyundai	Car	All	2008					37.2	36.6	30.9	26.8	23.6								31.7
Hyundai	Car	All	2009					39.0	36.6	33.0	27.3	24.9								32.3
Hyundai	Car	All	2010					40.2	38.7	32.7	29.6	24.9								34.9
Hyundai	Car	All	2011					N/A	N/A	N/A	N/A	N/A								N/A
Hyundai	Car	All	2012					N/A	N/A	N/A	N/A	N/A								N/A

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Hyundai	Truck	Truck SUV	1975																	
Hyundai	Truck	Truck SUV	1976																	
Hyundai	Truck	Truck SUV	1977																	
Hyundai	Truck	Truck SUV	1978																	
Hyundai	Truck	Truck SUV	1979																	
Hyundai	Truck	Truck SUV	1980																	
Hyundai	Truck	Truck SUV	1981																	
Hyundai	Truck	Truck SUV	1982																	
Hyundai	Truck	Truck SUV	1983																	
Hyundai	Truck	Truck SUV	1984																	
Hyundai	Truck	Truck SUV	1985																	
Hyundai	Truck	Truck SUV	1986																	
Hyundai	Truck	Truck SUV	1987																	
Hyundai	Truck	Truck SUV	1988																	
Hyundai	Truck	Truck SUV	1989																	
Hyundai	Truck	Truck SUV	1990																	
Hyundai	Truck	Truck SUV	1991																	
Hyundai	Truck	Truck SUV	1992																	
Hyundai	Truck	Truck SUV	1993																	
Hyundai	Truck	Truck SUV	1994																	
Hyundai	Truck	Truck SUV	1995																	
Hyundai	Truck	Truck SUV	1996																	
Hyundai	Truck	Truck SUV	1997																	
Hyundai	Truck	Truck SUV	1998																	
Hyundai	Truck	Truck SUV	1999																	
Hyundai	Truck	Truck SUV	2000																	
Hyundai	Truck	Truck SUV	2001								24.0									24.0
Hyundai	Truck	Truck SUV	2002								23.5									23.5
Hyundai	Truck	Truck SUV	2003								23.3									23.3
Hyundai	Truck	Truck SUV	2004								22.8									22.8
Hyundai	Truck	Truck SUV	2005								23.0									23.0
Hyundai	Truck	Truck SUV	2006								23.5	22.1								22.9
Hyundai	Truck	Truck SUV	2007								25.1	24.3								24.5
Hyundai	Truck	Truck SUV	2008								24.9	24.5								24.6
Hyundai	Truck	Truck SUV	2009								25.8	24.8								24.9
Hyundai	Truck	Truck SUV	2010							31.1	29.6	23.7								29.2
Hyundai	Truck	Truck SUV	2011							N/A	N/A	N/A								N/A
Hyundai	Truck	Truck SUV	2012							N/A	N/A	N/A								N/A

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Hyundai	Truck	All	1975																		
Hyundai	Truck	All	1976																		
Hyundai	Truck	All	1977																		
Hyundai	Truck	All	1978																		
Hyundai	Truck	All	1979																		
Hyundai	Truck	All	1980																		
Hyundai	Truck	All	1981																		
Hyundai	Truck	All	1982																		
Hyundai	Truck	All	1983																		
Hyundai	Truck	All	1984																		
Hyundai	Truck	All	1985																		
Hyundai	Truck	All	1986																		
Hyundai	Truck	All	1987																		
Hyundai	Truck	All	1988																		
Hyundai	Truck	All	1989																		
Hyundai	Truck	All	1990																		
Hyundai	Truck	All	1991																		
Hyundai	Truck	All	1992																		
Hyundai	Truck	All	1993																		
Hyundai	Truck	All	1994																		
Hyundai	Truck	All	1995																		
Hyundai	Truck	All	1996																		
Hyundai	Truck	All	1997																		
Hyundai	Truck	All	1998																		
Hyundai	Truck	All	1999																		
Hyundai	Truck	All	2000																		
Hyundai	Truck	All	2001								24.0									24.0	
Hyundai	Truck	All	2002								23.5									23.5	
Hyundai	Truck	All	2003								23.3									23.3	
Hyundai	Truck	All	2004								22.8									22.8	
Hyundai	Truck	All	2005								23.0									23.0	
Hyundai	Truck	All	2006								23.5	22.1								22.9	
Hyundai	Truck	All	2007								25.1	24.3								24.5	
Hyundai	Truck	All	2008								24.9	24.5								24.6	
Hyundai	Truck	All	2009								25.8	24.8								24.9	
Hyundai	Truck	All	2010							31.1	29.6	23.7								29.2	
Hyundai	Truck	All	2011							N/A	N/A	N/A								N/A	
Hyundai	Truck	All	2012							N/A	N/A	N/A								N/A	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Hyundai	All	All	1975																	
Hyundai	All	All	1976																	
Hyundai	All	All	1977																	
Hyundai	All	All	1978																	
Hyundai	All	All	1979																	
Hyundai	All	All	1980																	
Hyundai	All	All	1981																	
Hyundai	All	All	1982																	
Hyundai	All	All	1983																	
Hyundai	All	All	1984																	
Hyundai	All	All	1985																	
Hyundai	All	All	1986				34.9													34.9
Hyundai	All	All	1987				34.5													34.5
Hyundai	All	All	1988				34.3													34.3
Hyundai	All	All	1989				34.8		26.5											33.1
Hyundai	All	All	1990				35.7		26.9	23.8										33.1
Hyundai	All	All	1991				34.9		26.9	23.7										32.7
Hyundai	All	All	1992				34.8	28.8	28.9	24.9										31.1
Hyundai	All	All	1993				35.0	28.5	29.2	25.2										31.0
Hyundai	All	All	1994				35.8	28.5	29.2	24.9										32.7
Hyundai	All	All	1995				36.8	29.2	28.6	23.7										30.9
Hyundai	All	All	1996				35.9	31.6	29.5	24.5										32.7
Hyundai	All	All	1997				35.8	31.0	29.1	23.8										31.0
Hyundai	All	All	1998				35.6	31.8	28.6	23.1										30.6
Hyundai	All	All	1999				35.8		29.5	26.7										30.5
Hyundai	All	All	2000				36.5	34.0	29.6	26.8										30.0
Hyundai	All	All	2001				36.6	33.9	31.9	27.0	25.1									29.9
Hyundai	All	All	2002				36.6	33.8	32.4	27.4	24.4									29.2
Hyundai	All	All	2003					35.0	32.2	26.5	24.3									28.5
Hyundai	All	All	2004					35.0	32.3	26.7	24.0									27.5
Hyundai	All	All	2005					35.0	32.4	27.0	24.3									28.2
Hyundai	All	All	2006					37.2	32.2	29.8	26.6	22.1								28.7
Hyundai	All	All	2007					37.1	36.8	30.5	26.4	24.2								29.2
Hyundai	All	All	2008					37.2	36.6	30.9	26.7	24.3								30.9
Hyundai	All	All	2009					39.0	36.6	33.0	27.3	24.8								31.7
Hyundai	All	All	2010					40.2	38.7	32.6	29.6	24.6								34.4
Hyundai	All	All	2011					N/A	N/A	N/A	N/A	N/A								N/A
Hyundai	All	All	2012					N/A	N/A	N/A	N/A	N/A								N/A

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
VW	Car	Car	1975			27.4	25.7		21.6	10.2										26.7
VW	Car	Car	1976			28.5	27.8		21.1											27.9
VW	Car	Car	1977			30.5	28.4		19.9											29.8
VW	Car	Car	1978			30.4	25.8		18.8											28.0
VW	Car	Car	1979			31.5	27.9		19.9											29.4
VW	Car	Car	1980			33.6	28.3	22.9	22.5	20.2										31.3
VW	Car	Car	1981			38.9	31.4	25.4	23.2											34.7
VW	Car	Car	1982			38.3	33.9	28.0	22.4											33.9
VW	Car	Car	1983			33.6	32.6	29.5	24.2	20.0										31.4
VW	Car	Car	1984			35.4	30.8	25.0	23.0	22.0										29.0
VW	Car	Car	1985				33.8	25.9	22.8	22.0										30.0
VW	Car	Car	1986				32.9	26.0	22.8	23.2	18.4									29.6
VW	Car	Car	1987				31.8	27.8	23.4	22.2	18.1		11.5	10.8						28.9
VW	Car	Car	1988				31.3	30.6	25.7	21.6			12.4	12.2						30.1
VW	Car	Car	1989				31.1	31.4	25.3	22.9			12.4	12.8						30.0
VW	Car	Car	1990				31.8	30.9	27.0	24.8	18.5			12.9						28.8
VW	Car	Car	1991				32.6	31.8	26.3	25.0	20.9			12.9						29.6
VW	Car	Car	1992				32.7	31.3	26.4	25.1	21.7			14.5						29.1
VW	Car	Car	1993				32.7	30.7	27.5	23.8	22.4			14.1						26.9
VW	Car	Car	1994					31.0	29.1	24.2	21.9					13.6				28.2
VW	Car	Car	1995					31.7	29.9	24.3	23.2									28.7
VW	Car	Car	1996					30.1	29.0	26.2	23.9			15.4	14.9					28.2
VW	Car	Car	1997					31.1	29.6	26.4	23.7			15.0	14.9					28.7
VW	Car	Car	1998					31.0	30.2	27.1	23.2			15.0	14.9					28.7
VW	Car	Car	1999						30.1	26.7	23.1		16.0	14.9						28.4
VW	Car	Car	2000						30.9	26.7	23.0	22.8		15.2	15.0					28.8
VW	Car	Car	2001						31.2	26.8	22.9	23.2			15.0	15.2				28.5
VW	Car	Car	2002						31.6	29.3	24.2	20.6			14.5	15.2				29.1
VW	Car	Car	2003						32.1	29.4	25.5	21.3			13.8	15.2				29.5
VW	Car	Car	2004						32.2	29.1	25.2	23.1		18.9	13.8					28.6
VW	Car	Car	2005						31.9	30.2	26.1	22.7	19.7	16.5	13.8					28.6
VW	Car	Car	2006						31.8	31.6	27.4	22.9	19.7	16.8	15.4					29.9
VW	Car	Car	2007						30.3	29.5	28.5	23.4	19.1	16.2	15.7	14.3				28.5
VW	Car	Car	2008						30.5	29.9	28.1	22.8	19.1	16.2	15.7	14.4				28.9
VW	Car	Car	2009						30.4	31.9	29.0	25.1	19.1	16.2	15.5	14.5				30.6
VW	Car	Car	2010						30.6	34.0	29.9	26.4	17.7	16.2	15.8	14.5				32.3
VW	Car	Car	2011						33.2	34.8	30.0	25.6	17.8	17.3	16.5					32.8
VW	Car	Car	2012						33.3	34.2	29.7	26.8	20.4	17.3	16.8					32.7

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
VW	Car	Wagon	1975				27.2													27.2
VW	Car	Wagon	1976				27.9													27.9
VW	Car	Wagon	1977				28.7													28.7
VW	Car	Wagon	1978				25.7													25.7
VW	Car	Wagon	1979				25.0													25.0
VW	Car	Wagon	1980				40.1													40.1
VW	Car	Wagon	1981				40.6													40.6
VW	Car	Wagon	1982					29.8												29.8
VW	Car	Wagon	1983					33.8	23.2											30.6
VW	Car	Wagon	1984					42.0	23.0	22.4										24.8
VW	Car	Wagon	1985					29.0	22.1	22.7										25.9
VW	Car	Wagon	1986						22.7	22.9										22.8
VW	Car	Wagon	1987				32.6		22.8	23.3										26.7
VW	Car	Wagon	1988				31.9		22.7	23.4										31.0
VW	Car	Wagon	1989				31.7			23.6	22.9									29.3
VW	Car	Wagon	1990				31.7		27.8	27.1	23.1									28.3
VW	Car	Wagon	1991						27.8	27.1	23.2									26.9
VW	Car	Wagon	1992						28.1	27.1	22.8									26.7
VW	Car	Wagon	1993							24.0	22.9									23.7
VW	Car	Wagon	1994							23.9	23.5									23.6
VW	Car	Wagon	1995							24.0	23.4									23.7
VW	Car	Wagon	1996							30.8	24.1									27.6
VW	Car	Wagon	1997							25.1	24.2									24.6
VW	Car	Wagon	1998							27.7	24.1									25.9
VW	Car	Wagon	1999							28.5	23.4									26.5
VW	Car	Wagon	2000							25.7	22.9									25.0
VW	Car	Wagon	2001							27.7	23.1	20.3								24.2
VW	Car	Wagon	2002							29.9	25.1	18.7								27.7
VW	Car	Wagon	2003							32.1	25.4	21.6								28.4
VW	Car	Wagon	2004							31.5	26.1	21.6								27.6
VW	Car	Wagon	2005							34.6	28.7	21.6								29.2
VW	Car	Wagon	2006							32.0	27.4	24.8								29.6
VW	Car	Wagon	2007							32.1	29.0	24.6								29.5
VW	Car	Wagon	2008							30.4	28.7	24.8								29.4
VW	Car	Wagon	2009							36.5	29.7	26.2								34.3
VW	Car	Wagon	2010							41.0	30.4	26.2								39.3
VW	Car	Wagon	2011							41.2	30.8	26.2								39.4
VW	Car	Wagon	2012							41.6	30.9									40.1

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
VW	Car	All	1975			27.4	26.4		21.6	10.2										26.7
VW	Car	All	1976			28.5	27.8		21.1											27.9
VW	Car	All	1977			30.5	28.5		19.9											29.7
VW	Car	All	1978			30.4	25.8		18.8											27.8
VW	Car	All	1979			31.5	27.8		19.9											29.4
VW	Car	All	1980			33.6	31.0	22.9	22.5	20.2										31.7
VW	Car	All	1981			38.9	32.3	25.4	23.2											34.8
VW	Car	All	1982			38.3	33.9	28.5	22.4											33.8
VW	Car	All	1983			33.6	32.6	30.3	24.2	20.0										31.4
VW	Car	All	1984			35.4	30.8	26.0	23.0	22.1										28.9
VW	Car	All	1985				33.8	26.4	22.8	22.1										29.9
VW	Car	All	1986				32.9	26.0	22.8	23.1	18.4									29.4
VW	Car	All	1987				31.8	27.8	23.3	22.3	18.1		11.5	10.8						28.8
VW	Car	All	1988				31.4	30.6	25.5	21.9			12.4	12.2						30.2
VW	Car	All	1989				31.1	31.4	25.3	22.9	22.9		12.4	12.8						30.0
VW	Car	All	1990				31.8	30.9	27.0	25.1	18.8			12.9						28.8
VW	Car	All	1991				32.6	31.8	26.5	25.2	21.3			12.9						29.5
VW	Car	All	1992				32.7	31.3	26.6	25.2	22.0			14.5						29.0
VW	Car	All	1993				32.7	30.7	27.5	23.8	22.5			14.1						26.7
VW	Car	All	1994					31.0	29.1	24.2	22.5					13.6				28.1
VW	Car	All	1995					31.7	29.9	24.2	23.2									28.6
VW	Car	All	1996					30.1	29.0	26.7	24.0			15.4	14.9					28.2
VW	Car	All	1997					31.1	29.6	26.3	23.8			15.0	14.9					28.6
VW	Car	All	1998					31.0	30.2	27.1	23.3			15.0	14.9					28.6
VW	Car	All	1999						30.1	26.9	23.2		16.0	14.9						28.3
VW	Car	All	2000						30.9	26.5	23.0	22.8		15.2	15.0					28.5
VW	Car	All	2001						31.2	26.9	22.9	20.9			15.0	15.2				28.0
VW	Car	All	2002						31.6	29.4	24.4	20.3			14.5	15.2				29.0
VW	Car	All	2003						32.1	29.8	25.5	21.6			13.8	15.2				29.3
VW	Car	All	2004						32.2	29.4	25.4	22.5		18.9	13.8					28.5
VW	Car	All	2005						31.9	30.5	26.5	22.4	19.7	16.5	13.8					28.7
VW	Car	All	2006						31.8	31.6	27.4	23.3	19.7	16.8	15.4					29.9
VW	Car	All	2007						30.3	29.6	28.6	23.5	19.1	16.2	15.7	14.3				28.6
VW	Car	All	2008						30.5	30.0	28.1	23.1	19.1	16.2	15.7	14.4				28.9
VW	Car	All	2009						30.4	32.4	29.1	25.2	19.1	16.2	15.5	14.5				31.0
VW	Car	All	2010						30.6	35.0	29.9	26.4	17.7	16.2	15.8	14.5				33.1
VW	Car	All	2011						33.2	35.8	30.0	25.7	17.8	17.3	16.5					33.5
VW	Car	All	2012						33.3	34.8	29.8	26.8	20.4	17.3	16.8					33.2

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
VW	Truck	Van	1975						21.2	20.7										20.7
VW	Truck	Van	1976							19.9										19.9
VW	Truck	Van	1977							22.2										22.2
VW	Truck	Van	1978							20.0										20.0
VW	Truck	Van	1979							18.7										18.7
VW	Truck	Van	1980							19.2	18.4									19.0
VW	Truck	Van	1981							18.8	18.0									18.5
VW	Truck	Van	1982							21.8	21.4									21.7
VW	Truck	Van	1983							19.5	18.6									19.3
VW	Truck	Van	1984							20.9	20.1									20.7
VW	Truck	Van	1985							21.5	20.9									21.3
VW	Truck	Van	1986							20.3	18.4									19.2
VW	Truck	Van	1987							20.3	18.3									18.9
VW	Truck	Van	1988							20.3	19.7									19.9
VW	Truck	Van	1989								21.1	18.6								20.8
VW	Truck	Van	1990								20.9	18.5								20.8
VW	Truck	Van	1991								21.0	18.5								20.9
VW	Truck	Van	1992																	
VW	Truck	Van	1993								21.3	20.3								21.0
VW	Truck	Van	1994								21.0	19.4								20.1
VW	Truck	Van	1995										19.6							19.6
VW	Truck	Van	1996																	
VW	Truck	Van	1997									20.1		18.5						18.5
VW	Truck	Van	1998																	
VW	Truck	Van	1999									19.5		18.5						19.1
VW	Truck	Van	2000									19.7		18.5						19.0
VW	Truck	Van	2001									21.0		20.0						20.7
VW	Truck	Van	2002									21.0		20.0						20.9
VW	Truck	Van	2003									20.9		20.0						20.9
VW	Truck	Van	2004																	
VW	Truck	Van	2005																	
VW	Truck	Van	2006																	
VW	Truck	Van	2007																	
VW	Truck	Van	2008																	
VW	Truck	Van	2009																	
VW	Truck	Van	2010																	
VW	Truck	Van	2011																	
VW	Truck	Van	2012																	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
VW	Truck	Truck SUV	1975																		
VW	Truck	Truck SUV	1976																		
VW	Truck	Truck SUV	1977																		
VW	Truck	Truck SUV	1978																		
VW	Truck	Truck SUV	1979																		
VW	Truck	Truck SUV	1980																		
VW	Truck	Truck SUV	1981																		
VW	Truck	Truck SUV	1982																		
VW	Truck	Truck SUV	1983																		
VW	Truck	Truck SUV	1984																		
VW	Truck	Truck SUV	1985																		
VW	Truck	Truck SUV	1986																		
VW	Truck	Truck SUV	1987																		
VW	Truck	Truck SUV	1988																		
VW	Truck	Truck SUV	1989																		
VW	Truck	Truck SUV	1990																		
VW	Truck	Truck SUV	1991																		
VW	Truck	Truck SUV	1992																		
VW	Truck	Truck SUV	1993																		
VW	Truck	Truck SUV	1994																		
VW	Truck	Truck SUV	1995																		
VW	Truck	Truck SUV	1996																		
VW	Truck	Truck SUV	1997																		
VW	Truck	Truck SUV	1998																		
VW	Truck	Truck SUV	1999																		
VW	Truck	Truck SUV	2000																		
VW	Truck	Truck SUV	2001																		
VW	Truck	Truck SUV	2002																		
VW	Truck	Truck SUV	2003																		
VW	Truck	Truck SUV	2004											18.9	22.8					19.0	
VW	Truck	Truck SUV	2005											19.8						19.8	
VW	Truck	Truck SUV	2006											20.0	21.7					20.0	
VW	Truck	Truck SUV	2007											19.8	18.2					19.5	
VW	Truck	Truck SUV	2008											20.6	18.0					20.2	
VW	Truck	Truck SUV	2009								26.7	25.7		20.8	19.1					24.5	
VW	Truck	Truck SUV	2010								26.7	25.7		21.9	23.3					25.2	
VW	Truck	Truck SUV	2011								28.0	27.6	26.6	23.4	25.2					27.1	
VW	Truck	Truck SUV	2012								30.9	27.6	26.1	23.5	25.1					28.0	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
VW	Truck	Pickup	1975																		
VW	Truck	Pickup	1976																		
VW	Truck	Pickup	1977																		
VW	Truck	Pickup	1978																		
VW	Truck	Pickup	1979																		
VW	Truck	Pickup	1980			32.0	23.7													31.3	
VW	Truck	Pickup	1981			41.5	28.5													36.9	
VW	Truck	Pickup	1982			43.5	29.9													39.2	
VW	Truck	Pickup	1983			43.9	30.3													35.7	
VW	Truck	Pickup	1984																		
VW	Truck	Pickup	1985																		
VW	Truck	Pickup	1986																		
VW	Truck	Pickup	1987																		
VW	Truck	Pickup	1988																		
VW	Truck	Pickup	1989																		
VW	Truck	Pickup	1990																		
VW	Truck	Pickup	1991																		
VW	Truck	Pickup	1992																		
VW	Truck	Pickup	1993																		
VW	Truck	Pickup	1994																		
VW	Truck	Pickup	1995																		
VW	Truck	Pickup	1996																		
VW	Truck	Pickup	1997																		
VW	Truck	Pickup	1998																		
VW	Truck	Pickup	1999																		
VW	Truck	Pickup	2000																		
VW	Truck	Pickup	2001																		
VW	Truck	Pickup	2002																		
VW	Truck	Pickup	2003																		
VW	Truck	Pickup	2004																		
VW	Truck	Pickup	2005																		
VW	Truck	Pickup	2006																		
VW	Truck	Pickup	2007																		
VW	Truck	Pickup	2008																		
VW	Truck	Pickup	2009																		
VW	Truck	Pickup	2010																		
VW	Truck	Pickup	2011																		
VW	Truck	Pickup	2012																		

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)																	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000	8000			
VW	Truck	All	1975						21.2	20.7										20.7	
VW	Truck	All	1976							19.9										19.9	
VW	Truck	All	1977							22.2										22.2	
VW	Truck	All	1978							20.0										20.0	
VW	Truck	All	1979							18.7										18.7	
VW	Truck	All	1980			32.0	23.7			19.2	18.4									25.2	
VW	Truck	All	1981			41.5	28.5			18.8	18.0									29.5	
VW	Truck	All	1982			43.5	29.9			21.8	21.4									27.8	
VW	Truck	All	1983			43.9	30.3			19.5	18.6									20.3	
VW	Truck	All	1984							20.9	20.1									20.7	
VW	Truck	All	1985							21.5	20.9									21.3	
VW	Truck	All	1986							20.3	18.4									19.2	
VW	Truck	All	1987							20.3	18.3									18.9	
VW	Truck	All	1988							20.3	19.7									19.9	
VW	Truck	All	1989								21.1	18.6								20.8	
VW	Truck	All	1990								20.9	18.5								20.8	
VW	Truck	All	1991								21.0	18.5								20.9	
VW	Truck	All	1992																		
VW	Truck	All	1993								21.3	20.3								21.0	
VW	Truck	All	1994								21.0	19.4								20.1	
VW	Truck	All	1995										19.6							19.6	
VW	Truck	All	1996																		
VW	Truck	All	1997									20.1		18.5						18.5	
VW	Truck	All	1998																		
VW	Truck	All	1999									19.5		18.5						19.1	
VW	Truck	All	2000									19.7		18.5						19.0	
VW	Truck	All	2001									21.0		20.0						20.7	
VW	Truck	All	2002									21.0		20.0						20.9	
VW	Truck	All	2003									20.9		20.0						20.9	
VW	Truck	All	2004											18.9	22.8					19.0	
VW	Truck	All	2005											19.8						19.8	
VW	Truck	All	2006											20.0	21.7					20.0	
VW	Truck	All	2007											19.8	18.2					19.5	
VW	Truck	All	2008											20.6	18.0					20.2	
VW	Truck	All	2009								26.7	25.7		20.8	19.1					24.5	
VW	Truck	All	2010								26.7	25.7		21.9	23.3					25.2	
VW	Truck	All	2011								28.0	27.6	26.6	23.4	25.2					27.1	
VW	Truck	All	2012								30.9	27.6	26.1	23.5	25.1					28.0	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
VW	All	All	1975			27.4	26.4		21.6	18.6										26.7
VW	All	All	1976			28.5	27.8		21.1	19.9										27.8
VW	All	All	1977			30.5	28.5		19.9	22.2										29.7
VW	All	All	1978			30.4	25.8		18.8	20.0										27.7
VW	All	All	1979			31.5	27.8		19.9	18.7										28.7
VW	All	All	1980			33.5	30.8	22.9	22.5	19.5	18.4									30.9
VW	All	All	1981			39.1	31.8	25.4	23.2	18.8	18.0									34.0
VW	All	All	1982			38.8	33.7	28.5	22.4	21.8	21.4									32.9
VW	All	All	1983			33.7	32.5	30.3	24.2	19.5	18.6									29.7
VW	All	All	1984			35.4	30.8	26.0	23.0	21.2	20.1									28.0
VW	All	All	1985				33.8	26.4	22.8	21.8	20.9									29.0
VW	All	All	1986				32.9	26.0	22.8	22.2	18.4									28.9
VW	All	All	1987				31.8	27.8	23.3	21.8	18.2		11.5	10.8						28.1
VW	All	All	1988				31.4	30.6	25.5	21.5	19.7		12.4	12.2						29.9
VW	All	All	1989				31.1	31.4	25.3	22.9	21.2	18.6	12.4	12.8						29.7
VW	All	All	1990				31.8	30.9	27.0	25.1	20.2	18.5		12.9						28.2
VW	All	All	1991				32.6	31.8	26.5	25.2	21.1	18.5		12.9						29.1
VW	All	All	1992				32.7	31.3	26.6	25.2	22.0			14.5						29.0
VW	All	All	1993				32.7	30.7	27.5	23.8	21.6	20.3		14.1						25.7
VW	All	All	1994					31.0	29.1	24.2	22.4	19.4				13.6				28.0
VW	All	All	1995					31.7	29.9	24.2	23.2		19.6							28.4
VW	All	All	1996					30.1	29.0	26.7	24.0			15.4	14.9					28.2
VW	All	All	1997					31.1	29.6	26.3	23.8	20.1		18.0	14.9					28.4
VW	All	All	1998					31.0	30.2	27.1	23.3			15.0	14.9					28.6
VW	All	All	1999						30.1	26.9	23.2	19.5	16.0	18.0						28.2
VW	All	All	2000						30.9	26.5	23.0	20.8		18.5	15.0					28.4
VW	All	All	2001						31.2	26.9	22.9	20.9		20.0	15.0	15.2				28.0
VW	All	All	2002						31.6	29.4	24.4	20.6		20.0	14.5	15.2				28.9
VW	All	All	2003						32.1	29.8	25.5	21.3		20.0	13.8	15.2				29.2
VW	All	All	2004						32.2	29.4	25.4	22.5		18.9	20.0					27.0
VW	All	All	2005						31.9	30.5	26.5	22.4	19.7	19.2	13.8					27.8
VW	All	All	2006						31.8	31.6	27.4	23.3	19.7	19.6	16.2					29.4
VW	All	All	2007						30.3	29.6	28.6	23.5	19.1	19.6	16.9	14.3				27.4
VW	All	All	2008						30.5	30.0	28.1	23.1	19.1	20.4	17.1	14.4				27.9
VW	All	All	2009						30.4	32.4	28.5	25.5	19.1	20.6	17.5	14.5				30.0
VW	All	All	2010						30.6	35.0	29.0	26.0	17.7	21.6	21.3	14.5				31.7
VW	All	All	2011						33.2	35.8	29.3	26.9	26.4	23.2	23.6					32.1
VW	All	All	2012						33.3	34.8	30.1	27.2	26.0	22.0	23.3					32.3

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Kia	Car	Car	1975																		
Kia	Car	Car	1976																		
Kia	Car	Car	1977																		
Kia	Car	Car	1978																		
Kia	Car	Car	1979																		
Kia	Car	Car	1980																		
Kia	Car	Car	1981																		
Kia	Car	Car	1982																		
Kia	Car	Car	1983																		
Kia	Car	Car	1984																		
Kia	Car	Car	1985																		
Kia	Car	Car	1986																		
Kia	Car	Car	1987																		
Kia	Car	Car	1988																		
Kia	Car	Car	1989																		
Kia	Car	Car	1990																		
Kia	Car	Car	1991																		
Kia	Car	Car	1992																		
Kia	Car	Car	1993					31.7												31.7	
Kia	Car	Car	1994					32.9												32.9	
Kia	Car	Car	1995					31.0												31.0	
Kia	Car	Car	1996					28.9												28.9	
Kia	Car	Car	1997					30.8												30.8	
Kia	Car	Car	1998					30.7												30.7	
Kia	Car	Car	1999					30.7												30.7	
Kia	Car	Car	2000					29.8												29.8	
Kia	Car	Car	2001				32.9	30.1		25.9										30.3	
Kia	Car	Car	2002					32.4	29.2	25.0										29.4	
Kia	Car	Car	2003					33.2	29.2	27.8										30.1	
Kia	Car	Car	2004					31.8	31.4	28.1	22.6									28.9	
Kia	Car	Car	2005					31.4	32.3	28.4	23.1									29.2	
Kia	Car	Car	2006					38.3	33.1	30.1	23.1									32.4	
Kia	Car	Car	2007					38.2	34.9	32.0	25.1									34.2	
Kia	Car	Car	2008					38.2	35.2	32.1	25.1									34.4	
Kia	Car	Car	2009					39.5	35.2	33.3	25.1									35.7	
Kia	Car	Car	2010					40.5	37.1	33.3										36.8	
Kia	Car	Car	2011					N/A	N/A	N/A										N/A	
Kia	Car	Car	2012					N/A	N/A	N/A										N/A	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Kia	Car	Wagon	1975																		
Kia	Car	Wagon	1976																		
Kia	Car	Wagon	1977																		
Kia	Car	Wagon	1978																		
Kia	Car	Wagon	1979																		
Kia	Car	Wagon	1980																		
Kia	Car	Wagon	1981																		
Kia	Car	Wagon	1982																		
Kia	Car	Wagon	1983																		
Kia	Car	Wagon	1984																		
Kia	Car	Wagon	1985																		
Kia	Car	Wagon	1986																		
Kia	Car	Wagon	1987																		
Kia	Car	Wagon	1988																		
Kia	Car	Wagon	1989																		
Kia	Car	Wagon	1990																		
Kia	Car	Wagon	1991																		
Kia	Car	Wagon	1992																		
Kia	Car	Wagon	1993																		
Kia	Car	Wagon	1994																		
Kia	Car	Wagon	1995																		
Kia	Car	Wagon	1996																		
Kia	Car	Wagon	1997																		
Kia	Car	Wagon	1998																		
Kia	Car	Wagon	1999																		
Kia	Car	Wagon	2000																		
Kia	Car	Wagon	2001																		
Kia	Car	Wagon	2002																		
Kia	Car	Wagon	2003																		
Kia	Car	Wagon	2004																		
Kia	Car	Wagon	2005																		
Kia	Car	Wagon	2006																		
Kia	Car	Wagon	2007							28.3	26.6									27.4	
Kia	Car	Wagon	2008							28.3	27.2									27.5	
Kia	Car	Wagon	2009							29.1	27.3									29.0	
Kia	Car	Wagon	2010						35.1	29.1	27.3									35.0	
Kia	Car	Wagon	2011						N/A	N/A	N/A									N/A	
Kia	Car	Wagon	2012						N/A	N/A	N/A									N/A	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Kia	Car	Non-Truck SUV	1975																	
Kia	Car	Non-Truck SUV	1976																	
Kia	Car	Non-Truck SUV	1977																	
Kia	Car	Non-Truck SUV	1978																	
Kia	Car	Non-Truck SUV	1979																	
Kia	Car	Non-Truck SUV	1980																	
Kia	Car	Non-Truck SUV	1981																	
Kia	Car	Non-Truck SUV	1982																	
Kia	Car	Non-Truck SUV	1983																	
Kia	Car	Non-Truck SUV	1984																	
Kia	Car	Non-Truck SUV	1985																	
Kia	Car	Non-Truck SUV	1986																	
Kia	Car	Non-Truck SUV	1987																	
Kia	Car	Non-Truck SUV	1988																	
Kia	Car	Non-Truck SUV	1989																	
Kia	Car	Non-Truck SUV	1990																	
Kia	Car	Non-Truck SUV	1991																	
Kia	Car	Non-Truck SUV	1992																	
Kia	Car	Non-Truck SUV	1993																	
Kia	Car	Non-Truck SUV	1994																	
Kia	Car	Non-Truck SUV	1995							25.6										25.6
Kia	Car	Non-Truck SUV	1996							24.9										24.9
Kia	Car	Non-Truck SUV	1997							23.3										23.3
Kia	Car	Non-Truck SUV	1998							24.4										24.4
Kia	Car	Non-Truck SUV	1999							24.4										24.4
Kia	Car	Non-Truck SUV	2000							23.3										23.3
Kia	Car	Non-Truck SUV	2001							22.9										22.9
Kia	Car	Non-Truck SUV	2002							23.1										23.1
Kia	Car	Non-Truck SUV	2003																	
Kia	Car	Non-Truck SUV	2004																	
Kia	Car	Non-Truck SUV	2005							28.3	25.4									26.2
Kia	Car	Non-Truck SUV	2006							28.3	25.4									26.4
Kia	Car	Non-Truck SUV	2007							28.2	25.4	22.2								25.2
Kia	Car	Non-Truck SUV	2008							28.1	25.4	23.1								25.1
Kia	Car	Non-Truck SUV	2009							28.9	26.6	23.5								26.1
Kia	Car	Non-Truck SUV	2010							28.9	26.6	23.8								28.7
Kia	Car	Non-Truck SUV	2011							N/A	N/A	N/A								N/A
Kia	Car	Non-Truck SUV	2012							N/A	N/A	N/A								N/A

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Kia	Car	All	1975																	
Kia	Car	All	1976																	
Kia	Car	All	1977																	
Kia	Car	All	1978																	
Kia	Car	All	1979																	
Kia	Car	All	1980																	
Kia	Car	All	1981																	
Kia	Car	All	1982																	
Kia	Car	All	1983																	
Kia	Car	All	1984																	
Kia	Car	All	1985																	
Kia	Car	All	1986																	
Kia	Car	All	1987																	
Kia	Car	All	1988																	
Kia	Car	All	1989																	
Kia	Car	All	1990																	
Kia	Car	All	1991																	
Kia	Car	All	1992																	
Kia	Car	All	1993					31.7												31.7
Kia	Car	All	1994					32.9												32.9
Kia	Car	All	1995					31.0	25.6											30.9
Kia	Car	All	1996					28.9	24.9											28.6
Kia	Car	All	1997					30.8	23.3											29.1
Kia	Car	All	1998					30.7	24.4											29.5
Kia	Car	All	1999					30.7	24.4											29.3
Kia	Car	All	2000					29.8	23.3											27.9
Kia	Car	All	2001				32.9	30.1	24.2											28.9
Kia	Car	All	2002					32.4	29.2	24.1										28.4
Kia	Car	All	2003					33.2	29.2	27.8										30.1
Kia	Car	All	2004					31.8	31.4	28.1	22.6									28.9
Kia	Car	All	2005					31.4	32.3	28.4	23.7									28.9
Kia	Car	All	2006					38.3	33.1	29.8	24.6									31.4
Kia	Car	All	2007					38.2	34.9	30.1	25.9	22.2								30.7
Kia	Car	All	2008					38.2	35.2	30.5	26.5	23.1								30.9
Kia	Car	All	2009					39.5	35.2	31.0	26.5	23.5								32.6
Kia	Car	All	2010					40.5	36.2	32.2	26.6	23.8								35.8
Kia	Car	All	2011					N/A	N/A	N/A	N/A	N/A								N/A
Kia	Car	All	2012					N/A	N/A	N/A	N/A	N/A								N/A

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Kia	Truck	Van	1975																	
Kia	Truck	Van	1976																	
Kia	Truck	Van	1977																	
Kia	Truck	Van	1978																	
Kia	Truck	Van	1979																	
Kia	Truck	Van	1980																	
Kia	Truck	Van	1981																	
Kia	Truck	Van	1982																	
Kia	Truck	Van	1983																	
Kia	Truck	Van	1984																	
Kia	Truck	Van	1985																	
Kia	Truck	Van	1986																	
Kia	Truck	Van	1987																	
Kia	Truck	Van	1988																	
Kia	Truck	Van	1989																	
Kia	Truck	Van	1990																	
Kia	Truck	Van	1991																	
Kia	Truck	Van	1992																	
Kia	Truck	Van	1993																	
Kia	Truck	Van	1994																	
Kia	Truck	Van	1995																	
Kia	Truck	Van	1996																	
Kia	Truck	Van	1997																	
Kia	Truck	Van	1998																	
Kia	Truck	Van	1999																	
Kia	Truck	Van	2000																	
Kia	Truck	Van	2001																	
Kia	Truck	Van	2002										20.0							20.0
Kia	Truck	Van	2003										20.0							20.0
Kia	Truck	Van	2004										21.1							21.1
Kia	Truck	Van	2005										21.3							21.3
Kia	Truck	Van	2006									23.8								23.8
Kia	Truck	Van	2007									23.8								23.8
Kia	Truck	Van	2008									23.8								23.8
Kia	Truck	Van	2009									23.8								23.8
Kia	Truck	Van	2010																	24.7
Kia	Truck	Van	2011									N/A								N/A
Kia	Truck	Van	2012									N/A								N/A

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Kia	Truck	Truck SUV	1975																	
Kia	Truck	Truck SUV	1976																	
Kia	Truck	Truck SUV	1977																	
Kia	Truck	Truck SUV	1978																	
Kia	Truck	Truck SUV	1979																	
Kia	Truck	Truck SUV	1980																	
Kia	Truck	Truck SUV	1981																	
Kia	Truck	Truck SUV	1982																	
Kia	Truck	Truck SUV	1983																	
Kia	Truck	Truck SUV	1984																	
Kia	Truck	Truck SUV	1985																	
Kia	Truck	Truck SUV	1986																	
Kia	Truck	Truck SUV	1987																	
Kia	Truck	Truck SUV	1988																	
Kia	Truck	Truck SUV	1989																	
Kia	Truck	Truck SUV	1990																	
Kia	Truck	Truck SUV	1991																	
Kia	Truck	Truck SUV	1992																	
Kia	Truck	Truck SUV	1993																	
Kia	Truck	Truck SUV	1994																	
Kia	Truck	Truck SUV	1995							24.3										24.3
Kia	Truck	Truck SUV	1996							23.0										23.0
Kia	Truck	Truck SUV	1997							24.0										24.0
Kia	Truck	Truck SUV	1998							24.4										24.4
Kia	Truck	Truck SUV	1999							24.4										24.4
Kia	Truck	Truck SUV	2000							23.6										23.6
Kia	Truck	Truck SUV	2001							22.9										22.9
Kia	Truck	Truck SUV	2002							23.3										23.3
Kia	Truck	Truck SUV	2003									19.3								19.3
Kia	Truck	Truck SUV	2004									19.9								19.9
Kia	Truck	Truck SUV	2005								24.2	20.2								20.7
Kia	Truck	Truck SUV	2006								24.3	20.3								21.1
Kia	Truck	Truck SUV	2007								24.4	22.0								23.2
Kia	Truck	Truck SUV	2008								24.3	22.4								23.4
Kia	Truck	Truck SUV	2009								25.8	23.0	21.6							24.3
Kia	Truck	Truck SUV	2010								25.7									25.7
Kia	Truck	Truck SUV	2011							N/A	N/A	N/A								N/A
Kia	Truck	Truck SUV	2012							N/A	N/A	N/A								N/A

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Kia	Truck	All	1975																	
Kia	Truck	All	1976																	
Kia	Truck	All	1977																	
Kia	Truck	All	1978																	
Kia	Truck	All	1979																	
Kia	Truck	All	1980																	
Kia	Truck	All	1981																	
Kia	Truck	All	1982																	
Kia	Truck	All	1983																	
Kia	Truck	All	1984																	
Kia	Truck	All	1985																	
Kia	Truck	All	1986																	
Kia	Truck	All	1987																	
Kia	Truck	All	1988																	
Kia	Truck	All	1989																	
Kia	Truck	All	1990																	
Kia	Truck	All	1991																	
Kia	Truck	All	1992																	
Kia	Truck	All	1993																	
Kia	Truck	All	1994																	
Kia	Truck	All	1995							24.3										24.3
Kia	Truck	All	1996							23.0										23.0
Kia	Truck	All	1997							24.0										24.0
Kia	Truck	All	1998							24.4										24.4
Kia	Truck	All	1999							24.4										24.4
Kia	Truck	All	2000							23.6										23.6
Kia	Truck	All	2001							22.9										22.9
Kia	Truck	All	2002							23.3			20.0							20.9
Kia	Truck	All	2003									19.3	20.0							19.7
Kia	Truck	All	2004									19.9	21.1							20.6
Kia	Truck	All	2005								24.2	20.2	21.3							21.0
Kia	Truck	All	2006								24.3	21.9								22.1
Kia	Truck	All	2007								24.4	23.5								23.6
Kia	Truck	All	2008								24.3	23.4								23.6
Kia	Truck	All	2009								25.8	23.5	21.6							24.1
Kia	Truck	All	2010								25.7	24.7								25.0
Kia	Truck	All	2011							N/A	N/A	N/A								N/A
Kia	Truck	All	2012							N/A	N/A	N/A								N/A

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Kia	All	All	1975																	
Kia	All	All	1976																	
Kia	All	All	1977																	
Kia	All	All	1978																	
Kia	All	All	1979																	
Kia	All	All	1980																	
Kia	All	All	1981																	
Kia	All	All	1982																	
Kia	All	All	1983																	
Kia	All	All	1984																	
Kia	All	All	1985																	
Kia	All	All	1986																	
Kia	All	All	1987																	
Kia	All	All	1988																	
Kia	All	All	1989																	
Kia	All	All	1990																	
Kia	All	All	1991																	
Kia	All	All	1992																	
Kia	All	All	1993					31.7												31.7
Kia	All	All	1994					32.9												32.9
Kia	All	All	1995					31.0		24.3										28.3
Kia	All	All	1996					28.9		23.4										27.3
Kia	All	All	1997					30.8		23.7										27.8
Kia	All	All	1998					30.7		24.4										28.0
Kia	All	All	1999					30.7		24.4										27.8
Kia	All	All	2000					29.8		23.5										26.9
Kia	All	All	2001				32.9	30.1		23.7										27.9
Kia	All	All	2002					32.4	29.2	23.8			20.0							25.7
Kia	All	All	2003					33.2	29.2	27.8		19.3	20.0							24.8
Kia	All	All	2004					31.8	31.4	28.1	22.6	19.9	21.1							25.1
Kia	All	All	2005					31.4	32.3	28.4	23.9	20.2	21.3							24.4
Kia	All	All	2006					38.3	33.1	29.8	24.5	21.9								27.0
Kia	All	All	2007					38.2	34.9	30.1	25.3	23.2								28.3
Kia	All	All	2008					38.2	35.2	30.5	25.6	23.3								28.8
Kia	All	All	2009					39.5	35.2	31.0	26.0	23.5	21.6							30.7
Kia	All	All	2010					40.5	36.2	32.2	25.8	24.7								34.5
Kia	All	All	2011					N/A	N/A	N/A	N/A	N/A								N/A
Kia	All	All	2012					N/A	N/A	N/A	N/A	N/A								N/A

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
BMW	Car	Car	1975					22.4		14.6				10.2						17.2
BMW	Car	Car	1976					21.4		16.4				11.3						18.4
BMW	Car	Car	1977					22.6		16.4				11.1						19.8
BMW	Car	Car	1978					21.5		16.3	15.0			10.8						19.2
BMW	Car	Car	1979					21.6		20.0	14.9			10.8						19.5
BMW	Car	Car	1980					28.9		21.3	18.8		11.3	10.7						25.0
BMW	Car	Car	1981					28.9		21.3	19.1		11.0	10.5						25.6
BMW	Car	Car	1982					29.0	24.4	21.2			11.1	10.1						25.4
BMW	Car	Car	1983					29.0	24.4	21.5			11.1	10.9						25.3
BMW	Car	Car	1984				30.7	29.0	26.8	22.5			11.1	11.0						27.0
BMW	Car	Car	1985					29.0	27.7	23.4	20.5		11.1	11.0	10.1					25.4
BMW	Car	Car	1986						27.3	23.2	19.5		11.1	11.0	10.1					25.0
BMW	Car	Car	1987						25.8	22.7	19.4		11.4	10.9	10.4					23.9
BMW	Car	Car	1988						24.2	22.9	18.7	16.2	12.4	12.2	11.8					21.3
BMW	Car	Car	1989						23.1	23.3	20.0	16.5	12.4	12.2						21.7
BMW	Car	Car	1990						23.2	23.4	20.6	16.7		13.3						21.9
BMW	Car	Car	1991					28.2	24.9	23.4	21.8	16.7		13.3						22.8
BMW	Car	Car	1992						28.2	24.3	22.5	16.7		13.9						23.8
BMW	Car	Car	1993						29.0	26.3	23.1	19.5		13.9	13.6					25.0
BMW	Car	Car	1994						29.5	26.5	22.5	18.9		14.0	13.9	13.6				24.9
BMW	Car	Car	1995						29.3	26.5	23.8	22.0		14.1	13.9	13.6				25.1
BMW	Car	Car	1996						30.3	26.7		21.8		15.9						27.1
BMW	Car	Car	1997						28.7	25.7	22.7	22.4		15.1		14.9				25.5
BMW	Car	Car	1998						27.8	25.5	22.8	22.4		15.0		13.8				25.2
BMW	Car	Car	1999						25.8	26.2	23.9	22.6	17.4	14.9						25.2
BMW	Car	Car	2000						25.6	25.8	23.2	22.4	18.3	16.1		15.2				24.6
BMW	Car	Car	2001						26.3	26.0	23.7	22.1	18.2	16.1		15.2				24.7
BMW	Car	Car	2002					35.5	29.6	26.5	24.3	23.6		16.1		15.2				26.0
BMW	Car	Car	2003					35.6	29.6	26.5	24.3	23.6	20.3							26.6
BMW	Car	Car	2004					35.4	30.4	25.9	24.4	23.5	20.3	17.0						26.2
BMW	Car	Car	2005					35.2	31.3	25.7	24.3	23.3	20.3	17.0						26.9
BMW	Car	Car	2006					35.1	32.0	27.7	24.3	23.1	20.4	17.0						27.0
BMW	Car	Car	2007					39.8	35.0	28.3	25.8	22.3	19.6	17.3						27.5
BMW	Car	Car	2008					42.5	36.6	28.5	25.8	22.3	19.6	17.3						27.2
BMW	Car	Car	2009					42.5	38.7	28.2	26.2	21.7	21.5	17.3						28.4
BMW	Car	Car	2010					42.1	37.0	28.1	26.3	23.4	21.3	19.7	17.3					28.6
BMW	Car	Car	2011					41.8	39.2	29.4	27.8	28.4	21.8		19.3					29.1
BMW	Car	Car	2012					42.2	39.4	33.2	30.1	27.4	22.3	19.7	17.3					30.9

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
BMW	Car	Wagon	1975																	
BMW	Car	Wagon	1976																	
BMW	Car	Wagon	1977																	
BMW	Car	Wagon	1978																	
BMW	Car	Wagon	1979																	
BMW	Car	Wagon	1980																	
BMW	Car	Wagon	1981																	
BMW	Car	Wagon	1982																	
BMW	Car	Wagon	1983																	
BMW	Car	Wagon	1984																	
BMW	Car	Wagon	1985																	
BMW	Car	Wagon	1986																	
BMW	Car	Wagon	1987																	
BMW	Car	Wagon	1988																	
BMW	Car	Wagon	1989																	
BMW	Car	Wagon	1990																	
BMW	Car	Wagon	1991																	
BMW	Car	Wagon	1992								23.2									23.2
BMW	Car	Wagon	1993								24.3									24.3
BMW	Car	Wagon	1994								23.5									23.5
BMW	Car	Wagon	1995								24.4									24.4
BMW	Car	Wagon	1996																	
BMW	Car	Wagon	1997																	
BMW	Car	Wagon	1998																	
BMW	Car	Wagon	1999								23.6									23.6
BMW	Car	Wagon	2000							25.5	23.6									24.5
BMW	Car	Wagon	2001							26.0	24.4									24.9
BMW	Car	Wagon	2002							26.9	25.1									25.5
BMW	Car	Wagon	2003							26.7	25.1									25.6
BMW	Car	Wagon	2004							26.2	25.4									25.8
BMW	Car	Wagon	2005							26.2	25.4									25.7
BMW	Car	Wagon	2006								26.4									26.4
BMW	Car	Wagon	2007								26.7									26.7
BMW	Car	Wagon	2008								26.7	24.7								25.5
BMW	Car	Wagon	2009								26.8	24.8								26.2
BMW	Car	Wagon	2010								26.6	24.7								25.3
BMW	Car	Wagon	2011								26.6									26.6
BMW	Car	Wagon	2012								26.6									26.6

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
BMW	Car	All	1975					22.4		14.6				10.2						17.2
BMW	Car	All	1976					21.4		16.4				11.3						18.4
BMW	Car	All	1977					22.6		16.4				11.1						19.8
BMW	Car	All	1978					21.5		16.3	15.0			10.8						19.2
BMW	Car	All	1979					21.6		20.0	14.9			10.8						19.5
BMW	Car	All	1980					28.9		21.3	18.8		11.3	10.7						25.0
BMW	Car	All	1981					28.9		21.3	19.1		11.0	10.5						25.6
BMW	Car	All	1982					29.0	24.4	21.2			11.1	10.1						25.4
BMW	Car	All	1983					29.0	24.4	21.5			11.1	10.9						25.3
BMW	Car	All	1984				30.7	29.0	26.8	22.5			11.1	11.0						27.0
BMW	Car	All	1985					29.0	27.7	23.4	20.5		11.1	11.0	10.1					25.4
BMW	Car	All	1986						27.3	23.2	19.5		11.1	11.0	10.1					25.0
BMW	Car	All	1987						25.8	22.7	19.4		11.4	10.9	10.4					23.9
BMW	Car	All	1988						24.2	22.9	18.7	16.2	12.4	12.2	11.8					21.3
BMW	Car	All	1989						23.1	23.3	20.0	16.5	12.4	12.2						21.7
BMW	Car	All	1990						23.2	23.4	20.6	16.7		13.3						21.9
BMW	Car	All	1991					28.2	24.9	23.4	21.8	16.7		13.3						22.8
BMW	Car	All	1992						28.2	24.3	22.5	16.7		13.9						23.8
BMW	Car	All	1993						29.0	26.3	23.2	19.5		13.9	13.6					25.0
BMW	Car	All	1994						29.5	26.5	22.5	18.9		14.0	13.9	13.6				24.9
BMW	Car	All	1995						29.3	26.5	23.9	22.0		14.1	13.9	13.6				25.1
BMW	Car	All	1996						30.3	26.7		21.8		15.9						27.1
BMW	Car	All	1997						28.7	25.7	22.7	22.4		15.1		14.9				25.5
BMW	Car	All	1998						27.8	25.5	22.8	22.4		15.0		13.8				25.2
BMW	Car	All	1999						25.8	26.2	23.8	22.6	17.4	14.9						25.2
BMW	Car	All	2000						25.6	25.8	23.2	22.4	18.3	16.1		15.2				24.6
BMW	Car	All	2001						26.3	26.0	23.7	22.1	18.2	16.1		15.2				24.7
BMW	Car	All	2002					35.5	29.6	26.5	24.4	23.6		16.1		15.2				26.0
BMW	Car	All	2003					35.6	29.6	26.5	24.3	23.6	20.3							26.5
BMW	Car	All	2004					35.4	30.4	25.9	24.4	23.5	20.3	17.0						26.2
BMW	Car	All	2005					35.2	31.3	25.7	24.3	23.3	20.3	17.0						26.9
BMW	Car	All	2006					35.1	32.0	27.7	24.5	23.1	20.4	17.0						27.0
BMW	Car	All	2007					39.8	35.0	28.3	25.8	22.3	19.6	17.3						27.5
BMW	Car	All	2008					42.5	36.6	28.5	25.8	22.5	19.6	17.3						27.2
BMW	Car	All	2009					42.5	38.7	28.2	26.2	21.9	21.5	17.3						28.4
BMW	Car	All	2010					42.1	37.0	28.1	26.3	23.7	21.3	19.7	17.3					28.5
BMW	Car	All	2011					41.8	39.2	29.4	27.8	28.4	21.8		19.3					29.1
BMW	Car	All	2012					42.2	39.4	33.2	30.1	27.4	22.3	19.7	17.3					30.9

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
BMW	Truck	Truck SUV	1975																		
BMW	Truck	Truck SUV	1976																		
BMW	Truck	Truck SUV	1977																		
BMW	Truck	Truck SUV	1978																		
BMW	Truck	Truck SUV	1979																		
BMW	Truck	Truck SUV	1980																		
BMW	Truck	Truck SUV	1981																		
BMW	Truck	Truck SUV	1982																		
BMW	Truck	Truck SUV	1983																		
BMW	Truck	Truck SUV	1984																		
BMW	Truck	Truck SUV	1985																		
BMW	Truck	Truck SUV	1986																		
BMW	Truck	Truck SUV	1987																		
BMW	Truck	Truck SUV	1988																		
BMW	Truck	Truck SUV	1989																		
BMW	Truck	Truck SUV	1990																		
BMW	Truck	Truck SUV	1991																		
BMW	Truck	Truck SUV	1992																		
BMW	Truck	Truck SUV	1993																		
BMW	Truck	Truck SUV	1994																		
BMW	Truck	Truck SUV	1995																		
BMW	Truck	Truck SUV	1996																		
BMW	Truck	Truck SUV	1997																		
BMW	Truck	Truck SUV	1998																		
BMW	Truck	Truck SUV	1999																		
BMW	Truck	Truck SUV	2000									17.5								17.5	
BMW	Truck	Truck SUV	2001								20.2	18.5								19.2	
BMW	Truck	Truck SUV	2002									20.1								20.1	
BMW	Truck	Truck SUV	2003									20.0								20.0	
BMW	Truck	Truck SUV	2004								22.3	20.8								21.5	
BMW	Truck	Truck SUV	2005								21.9	20.8								21.3	
BMW	Truck	Truck SUV	2006								21.7	20.8								21.2	
BMW	Truck	Truck SUV	2007								25.4	22.8	20.1							23.4	
BMW	Truck	Truck SUV	2008								25.4	22.6	20.0							22.9	
BMW	Truck	Truck SUV	2009								25.4	22.6	21.6							22.7	
BMW	Truck	Truck SUV	2010								25.4	22.7	23.4	23.1						23.6	
BMW	Truck	Truck SUV	2011									27.9	23.9	24.3	23.2					25.3	
BMW	Truck	Truck SUV	2012									27.9	24.0	22.1						24.6	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
BMW	Truck	All	1975																		
BMW	Truck	All	1976																		
BMW	Truck	All	1977																		
BMW	Truck	All	1978																		
BMW	Truck	All	1979																		
BMW	Truck	All	1980																		
BMW	Truck	All	1981																		
BMW	Truck	All	1982																		
BMW	Truck	All	1983																		
BMW	Truck	All	1984																		
BMW	Truck	All	1985																		
BMW	Truck	All	1986																		
BMW	Truck	All	1987																		
BMW	Truck	All	1988																		
BMW	Truck	All	1989																		
BMW	Truck	All	1990																		
BMW	Truck	All	1991																		
BMW	Truck	All	1992																		
BMW	Truck	All	1993																		
BMW	Truck	All	1994																		
BMW	Truck	All	1995																		
BMW	Truck	All	1996																		
BMW	Truck	All	1997																		
BMW	Truck	All	1998																		
BMW	Truck	All	1999																		
BMW	Truck	All	2000										17.5							17.5	
BMW	Truck	All	2001									20.2	18.5							19.2	
BMW	Truck	All	2002										20.1							20.1	
BMW	Truck	All	2003										20.0							20.0	
BMW	Truck	All	2004									22.3	20.8							21.5	
BMW	Truck	All	2005									21.9	20.8							21.3	
BMW	Truck	All	2006									21.7	20.8							21.2	
BMW	Truck	All	2007									25.4	22.8	20.1						23.4	
BMW	Truck	All	2008									25.4	22.6	20.0						22.9	
BMW	Truck	All	2009									25.4	22.6	21.6						22.7	
BMW	Truck	All	2010									25.4		22.7	23.4	23.1				23.6	
BMW	Truck	All	2011										27.9	23.9	24.3	23.2				25.3	
BMW	Truck	All	2012										27.9	24.0	22.1					24.6	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
BMW	All	All	1975					22.4		14.6				10.2						17.2
BMW	All	All	1976					21.4		16.4				11.3						18.4
BMW	All	All	1977					22.6		16.4				11.1						19.8
BMW	All	All	1978					21.5		16.3	15.0			10.8						19.2
BMW	All	All	1979					21.6		20.0	14.9			10.8						19.5
BMW	All	All	1980					28.9		21.3	18.8		11.3	10.7						25.0
BMW	All	All	1981					28.9		21.3	19.1		11.0	10.5						25.6
BMW	All	All	1982					29.0	24.4	21.2			11.1	10.1						25.4
BMW	All	All	1983					29.0	24.4	21.5			11.1	10.9						25.3
BMW	All	All	1984				30.7	29.0	26.8	22.5			11.1	11.0						27.0
BMW	All	All	1985					29.0	27.7	23.4	20.5		11.1	11.0	10.1					25.4
BMW	All	All	1986						27.3	23.2	19.5		11.1	11.0	10.1					25.0
BMW	All	All	1987						25.8	22.7	19.4		11.4	10.9	10.4					23.9
BMW	All	All	1988						24.2	22.9	18.7	16.2	12.4	12.2	11.8					21.3
BMW	All	All	1989						23.1	23.3	20.0	16.5	12.4	12.2						21.7
BMW	All	All	1990						23.2	23.4	20.6	16.7		13.3						21.9
BMW	All	All	1991					28.2	24.9	23.4	21.8	16.7		13.3						22.8
BMW	All	All	1992						28.2	24.3	22.5	16.7		13.9						23.8
BMW	All	All	1993						29.0	26.3	23.2	19.5		13.9	13.6					25.0
BMW	All	All	1994						29.5	26.5	22.5	18.9		14.0	13.9	13.6				24.9
BMW	All	All	1995						29.3	26.5	23.9	22.0		14.1	13.9	13.6				25.1
BMW	All	All	1996						30.3	26.7		21.8		15.9						27.1
BMW	All	All	1997						28.7	25.7	22.7	22.4		15.1		14.9				25.5
BMW	All	All	1998						27.8	25.5	22.8	22.4		15.0		13.8				25.2
BMW	All	All	1999						25.8	26.2	23.8	22.6	17.4	14.9						25.2
BMW	All	All	2000						25.6	25.8	23.2	22.4	17.5	16.1		15.2				24.3
BMW	All	All	2001						26.3	26.0	23.7	21.2	18.5	16.1		15.2				23.3
BMW	All	All	2002					35.5	29.6	26.5	24.4	23.6	20.1	16.1		15.2				24.7
BMW	All	All	2003					35.6	29.6	26.5	24.3	23.6	20.0							25.2
BMW	All	All	2004					35.4	30.4	25.9	23.5	23.5	20.8	17.0						24.9
BMW	All	All	2005					35.2	31.3	25.7	23.2	23.3	20.8	17.0						25.1
BMW	All	All	2006					35.1	32.0	27.7	23.6	23.1	20.8	17.0						25.8
BMW	All	All	2007					39.8	35.0	28.3	25.7	22.3	22.8	20.0						26.7
BMW	All	All	2008					42.5	36.6	28.5	25.8	22.5	22.6	19.9						26.3
BMW	All	All	2009					42.5	38.7	28.2	26.2	21.9	22.3	21.4						27.3
BMW	All	All	2010					42.1	37.0	28.1	26.2	23.7	22.2	23.2	19.9					27.6
BMW	All	All	2011					41.8	39.2	29.4	27.8	28.2	23.3	24.3	19.5					28.4
BMW	All	All	2012					42.2	39.4	33.2	30.1	27.5	23.4	21.9	17.3					29.1

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Subaru	Car	Car	1975			27.1														27.1
Subaru	Car	Car	1976			31.6	27.6													30.5
Subaru	Car	Car	1977			30.3														30.3
Subaru	Car	Car	1978			32.9														32.9
Subaru	Car	Car	1979			32.4	26.9													31.7
Subaru	Car	Car	1980			31.7	25.3													29.3
Subaru	Car	Car	1981			34.8	27.6													32.8
Subaru	Car	Car	1982			35.8	32.1													33.0
Subaru	Car	Car	1983			34.7	32.2													32.5
Subaru	Car	Car	1984			36.8	32.2	26.4												32.4
Subaru	Car	Car	1985			36.1	31.7	29.1												31.8
Subaru	Car	Car	1986			37.2	31.6	29.7	28.1											30.8
Subaru	Car	Car	1987		46.0	36.7	30.9	29.2	27.2											30.9
Subaru	Car	Car	1988		41.6		31.4	30.1	25.8											32.9
Subaru	Car	Car	1989		41.6	38.6	31.0	29.9	26.7											32.7
Subaru	Car	Car	1990		41.8	36.7	30.3	28.6	27.9	25.8										28.8
Subaru	Car	Car	1991		41.8	36.8	33.7	29.0	27.7	25.6										28.9
Subaru	Car	Car	1992		41.9	37.7	32.8	28.5	29.2	26.7	23.6									27.9
Subaru	Car	Car	1993		41.4	35.8	32.8	30.2	29.2	27.0	23.5									29.8
Subaru	Car	Car	1994		41.4	39.8	31.8	30.2	28.7	25.5	23.4									29.0
Subaru	Car	Car	1995					30.9	29.2	27.9	23.5									28.9
Subaru	Car	Car	1996					30.8	29.0	26.5	23.3									28.3
Subaru	Car	Car	1997					31.1	30.1	26.6	23.3									28.9
Subaru	Car	Car	1998						29.8	26.8										28.4
Subaru	Car	Car	1999						29.1	27.6										28.0
Subaru	Car	Car	2000						28.4	27.8										28.0
Subaru	Car	Car	2001						28.3	27.9	27.8									27.9
Subaru	Car	Car	2002						27.0	27.1	26.5									27.0
Subaru	Car	Car	2003						27.4	27.4	26.3									27.2
Subaru	Car	Car	2004						27.6	26.0	26.5									26.1
Subaru	Car	Car	2005						29.9	26.5	25.5									26.6
Subaru	Car	Car	2006							27.5										27.5
Subaru	Car	Car	2007							28.2	25.5									28.1
Subaru	Car	Car	2008							29.1	25.9									28.8
Subaru	Car	Car	2009							29.2	25.8									29.0
Subaru	Car	Car	2010							31.4	26.2									31.0
Subaru	Car	Car	2011							31.3	26.2									31.0
Subaru	Car	Car	2012						37.7	32.6	26.2									32.7

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Subaru	Car	Wagon	1975				25.5													25.5	
Subaru	Car	Wagon	1976				28.0													28.0	
Subaru	Car	Wagon	1977				29.9													29.9	
Subaru	Car	Wagon	1978				27.5													27.5	
Subaru	Car	Wagon	1979				28.1													28.1	
Subaru	Car	Wagon	1980				26.7													26.7	
Subaru	Car	Wagon	1981				29.7													29.7	
Subaru	Car	Wagon	1982				32.6	28.2												30.5	
Subaru	Car	Wagon	1983				32.5	28.7												30.2	
Subaru	Car	Wagon	1984				33.7	29.0												29.9	
Subaru	Car	Wagon	1985				34.0	29.2	26.7											29.6	
Subaru	Car	Wagon	1986				33.1	28.8	27.9											29.2	
Subaru	Car	Wagon	1987				32.2	29.1	26.7											28.1	
Subaru	Car	Wagon	1988				32.9	30.3	28.0											29.4	
Subaru	Car	Wagon	1989					30.1	28.3											29.3	
Subaru	Car	Wagon	1990					29.5	28.4	26.3										27.3	
Subaru	Car	Wagon	1991					30.6	29.1	26.3										27.5	
Subaru	Car	Wagon	1992					30.4	30.0	27.1										28.3	
Subaru	Car	Wagon	1993					30.4	29.6	27.3										28.4	
Subaru	Car	Wagon	1994					30.5	29.6	26.8										27.5	
Subaru	Car	Wagon	1995					31.4	28.5	27.9										28.1	
Subaru	Car	Wagon	1996						28.8	26.8										27.2	
Subaru	Car	Wagon	1997						29.8	27.1										27.8	
Subaru	Car	Wagon	1998						29.7	27.2										27.7	
Subaru	Car	Wagon	1999						29.4	27.2										27.5	
Subaru	Car	Wagon	2000						29.5	27.8	27.2									28.0	
Subaru	Car	Wagon	2001						29.5	27.9	27.5									27.7	
Subaru	Car	Wagon	2002							27.4	27.3									27.3	
Subaru	Car	Wagon	2003							27.4	27.2									27.3	
Subaru	Car	Wagon	2004							27.6	27.2									27.4	
Subaru	Car	Wagon	2005							28.8	24.6									27.7	
Subaru	Car	Wagon	2006							28.8	25.1									28.2	
Subaru	Car	Wagon	2007							28.8	25.7									28.6	
Subaru	Car	Wagon	2008							28.9	25.9									28.7	
Subaru	Car	Wagon	2009							28.9	25.9									28.8	
Subaru	Car	Wagon	2010							28.6										28.6	
Subaru	Car	Wagon	2011							28.5										28.5	
Subaru	Car	Wagon	2012						39.2	37.4										38.2	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Subaru	Car	All	1975			27.1	25.5													26.5
Subaru	Car	All	1976			31.6	27.9													29.7
Subaru	Car	All	1977			30.3	29.9													30.2
Subaru	Car	All	1978			32.9	27.5													29.9
Subaru	Car	All	1979			32.4	28.0													29.5
Subaru	Car	All	1980			31.7	26.2													28.1
Subaru	Car	All	1981			34.8	29.3													31.3
Subaru	Car	All	1982			35.8	32.3	28.2												31.7
Subaru	Car	All	1983			34.7	32.3	28.7												31.3
Subaru	Car	All	1984			36.8	32.5	28.8												31.1
Subaru	Car	All	1985			36.1	32.1	29.2	26.7											30.5
Subaru	Car	All	1986			37.2	31.8	29.1	28.0											30.1
Subaru	Car	All	1987		46.0	36.7	31.0	29.1	26.8											29.5
Subaru	Car	All	1988		41.6		31.5	30.2	27.3											31.4
Subaru	Car	All	1989		41.6	38.6	31.0	30.0	27.7											31.5
Subaru	Car	All	1990		41.8	36.7	30.3	29.3	28.1	26.2										28.0
Subaru	Car	All	1991		41.8	36.8	33.7	29.5	28.2	26.1										28.2
Subaru	Car	All	1992		41.9	37.7	32.8	29.0	29.5	27.0	23.6									28.1
Subaru	Car	All	1993		41.4	35.8	32.8	30.2	29.3	27.2	23.5									29.2
Subaru	Car	All	1994		41.4	39.8	31.8	30.3	29.0	26.6	23.4									28.2
Subaru	Car	All	1995					30.9	28.9	27.9	23.5									28.5
Subaru	Car	All	1996					30.8	28.9	26.8	23.3									27.4
Subaru	Car	All	1997					31.1	29.9	27.1	23.3									28.0
Subaru	Car	All	1998						29.8	27.2										27.8
Subaru	Car	All	1999						29.3	27.2										27.6
Subaru	Car	All	2000						29.0	27.8	27.2									28.0
Subaru	Car	All	2001						28.8	27.9	27.5									27.7
Subaru	Car	All	2002						27.0	27.2	27.2									27.2
Subaru	Car	All	2003						27.4	27.4	27.1									27.3
Subaru	Car	All	2004						27.6	26.7	27.1									26.9
Subaru	Car	All	2005						29.9	27.9	24.7									27.3
Subaru	Car	All	2006							28.3	25.1									28.0
Subaru	Car	All	2007							28.6	25.6									28.4
Subaru	Car	All	2008							29.0	25.9									28.7
Subaru	Car	All	2009							29.0	25.9									28.9
Subaru	Car	All	2010							30.4	26.2									30.2
Subaru	Car	All	2011							30.4	26.2									30.2
Subaru	Car	All	2012						38.7	34.3	26.2									35.0

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Subaru	Truck	Truck SUV	1975																		
Subaru	Truck	Truck SUV	1976																		
Subaru	Truck	Truck SUV	1977																		
Subaru	Truck	Truck SUV	1978																		
Subaru	Truck	Truck SUV	1979																		
Subaru	Truck	Truck SUV	1980																		
Subaru	Truck	Truck SUV	1981																		
Subaru	Truck	Truck SUV	1982																		
Subaru	Truck	Truck SUV	1983																		
Subaru	Truck	Truck SUV	1984																		
Subaru	Truck	Truck SUV	1985																		
Subaru	Truck	Truck SUV	1986																		
Subaru	Truck	Truck SUV	1987																		
Subaru	Truck	Truck SUV	1988																		
Subaru	Truck	Truck SUV	1989																		
Subaru	Truck	Truck SUV	1990																		
Subaru	Truck	Truck SUV	1991																		
Subaru	Truck	Truck SUV	1992																		
Subaru	Truck	Truck SUV	1993																		
Subaru	Truck	Truck SUV	1994																		
Subaru	Truck	Truck SUV	1995																		
Subaru	Truck	Truck SUV	1996																		
Subaru	Truck	Truck SUV	1997																		
Subaru	Truck	Truck SUV	1998							26.8										26.8	
Subaru	Truck	Truck SUV	1999							27.0										27.0	
Subaru	Truck	Truck SUV	2000							27.8										27.8	
Subaru	Truck	Truck SUV	2001							27.9										27.9	
Subaru	Truck	Truck SUV	2002							28.0										28.0	
Subaru	Truck	Truck SUV	2003							27.5										27.5	
Subaru	Truck	Truck SUV	2004							27.1										27.1	
Subaru	Truck	Truck SUV	2005							28.6										28.6	
Subaru	Truck	Truck SUV	2006							28.8		23.0								26.4	
Subaru	Truck	Truck SUV	2007							28.7		23.0								27.3	
Subaru	Truck	Truck SUV	2008							28.9		23.2								26.4	
Subaru	Truck	Truck SUV	2009							28.9		23.2								28.4	
Subaru	Truck	Truck SUV	2010							28.9	31.1	23.4								29.6	
Subaru	Truck	Truck SUV	2011							30.1	30.8	23.4								30.4	
Subaru	Truck	Truck SUV	2012							30.1	31.2	23.4								30.5	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Subaru	Truck	Pickup	1975																	
Subaru	Truck	Pickup	1976																	
Subaru	Truck	Pickup	1977																	
Subaru	Truck	Pickup	1978				27.2													27.2
Subaru	Truck	Pickup	1979				27.5													27.5
Subaru	Truck	Pickup	1980				26.0													26.0
Subaru	Truck	Pickup	1981				28.4													28.4
Subaru	Truck	Pickup	1982				29.8													29.8
Subaru	Truck	Pickup	1983				29.6	26.6												29.5
Subaru	Truck	Pickup	1984				29.9	26.5												29.7
Subaru	Truck	Pickup	1985				29.6													29.6
Subaru	Truck	Pickup	1986				30.0													30.0
Subaru	Truck	Pickup	1987				29.8													29.8
Subaru	Truck	Pickup	1988																	
Subaru	Truck	Pickup	1989																	
Subaru	Truck	Pickup	1990																	
Subaru	Truck	Pickup	1991																	
Subaru	Truck	Pickup	1992																	
Subaru	Truck	Pickup	1993																	
Subaru	Truck	Pickup	1994																	
Subaru	Truck	Pickup	1995																	
Subaru	Truck	Pickup	1996																	
Subaru	Truck	Pickup	1997																	
Subaru	Truck	Pickup	1998																	
Subaru	Truck	Pickup	1999																	
Subaru	Truck	Pickup	2000																	
Subaru	Truck	Pickup	2001																	
Subaru	Truck	Pickup	2002																	
Subaru	Truck	Pickup	2003							25.7	26.6									26.3
Subaru	Truck	Pickup	2004								25.4									25.4
Subaru	Truck	Pickup	2005								25.8									25.8
Subaru	Truck	Pickup	2006							29.0	26.5									26.9
Subaru	Truck	Pickup	2007																	
Subaru	Truck	Pickup	2008																	
Subaru	Truck	Pickup	2009																	
Subaru	Truck	Pickup	2010																	
Subaru	Truck	Pickup	2011																	
Subaru	Truck	Pickup	2012																	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Subaru	Truck	All	1975																		
Subaru	Truck	All	1976																		
Subaru	Truck	All	1977																		
Subaru	Truck	All	1978				27.2													27.2	
Subaru	Truck	All	1979				27.5													27.5	
Subaru	Truck	All	1980				26.0													26.0	
Subaru	Truck	All	1981				28.4													28.4	
Subaru	Truck	All	1982				29.8													29.8	
Subaru	Truck	All	1983				29.6	26.6												29.5	
Subaru	Truck	All	1984				29.9	26.5												29.7	
Subaru	Truck	All	1985				29.6													29.6	
Subaru	Truck	All	1986				30.0													30.0	
Subaru	Truck	All	1987				29.8													29.8	
Subaru	Truck	All	1988																		
Subaru	Truck	All	1989																		
Subaru	Truck	All	1990																		
Subaru	Truck	All	1991																		
Subaru	Truck	All	1992																		
Subaru	Truck	All	1993																		
Subaru	Truck	All	1994																		
Subaru	Truck	All	1995																		
Subaru	Truck	All	1996																		
Subaru	Truck	All	1997																		
Subaru	Truck	All	1998							26.8										26.8	
Subaru	Truck	All	1999							27.0										27.0	
Subaru	Truck	All	2000							27.8										27.8	
Subaru	Truck	All	2001							27.9										27.9	
Subaru	Truck	All	2002							28.0										28.0	
Subaru	Truck	All	2003							27.4	26.6									27.3	
Subaru	Truck	All	2004							27.1	25.4									27.1	
Subaru	Truck	All	2005							28.6	25.8									28.2	
Subaru	Truck	All	2006							28.8	26.5	23.0								26.5	
Subaru	Truck	All	2007							28.7		23.0								27.3	
Subaru	Truck	All	2008							28.9		23.2								26.4	
Subaru	Truck	All	2009							28.9		23.2								28.4	
Subaru	Truck	All	2010							28.9	31.1	23.4								29.6	
Subaru	Truck	All	2011							30.1	30.8	23.4								30.4	
Subaru	Truck	All	2012							30.1	31.2	23.4								30.5	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Subaru	All	All	1975			27.1	25.5													26.5
Subaru	All	All	1976			31.6	27.9													29.7
Subaru	All	All	1977			30.3	29.9													30.2
Subaru	All	All	1978			32.9	27.4													29.3
Subaru	All	All	1979			32.4	27.8													28.9
Subaru	All	All	1980			31.7	26.2													27.9
Subaru	All	All	1981			34.8	29.1													30.9
Subaru	All	All	1982			35.8	32.1	28.2												31.6
Subaru	All	All	1983			34.7	32.2	28.7												31.2
Subaru	All	All	1984			36.8	32.3	28.8												31.1
Subaru	All	All	1985			36.1	31.9	29.2	26.7											30.5
Subaru	All	All	1986			37.2	31.7	29.1	28.0											30.1
Subaru	All	All	1987		46.0	36.7	30.9	29.1	26.8											29.5
Subaru	All	All	1988		41.6		31.5	30.2	27.3											31.4
Subaru	All	All	1989		41.6	38.6	31.0	30.0	27.7											31.5
Subaru	All	All	1990		41.8	36.7	30.3	29.3	28.1	26.2										28.0
Subaru	All	All	1991		41.8	36.8	33.7	29.5	28.2	26.1										28.2
Subaru	All	All	1992		41.9	37.7	32.8	29.0	29.5	27.0	23.6									28.1
Subaru	All	All	1993		41.4	35.8	32.8	30.2	29.3	27.2	23.5									29.2
Subaru	All	All	1994		41.4	39.8	31.8	30.3	29.0	26.6	23.4									28.2
Subaru	All	All	1995					30.9	28.9	27.9	23.5									28.5
Subaru	All	All	1996					30.8	28.9	26.8	23.3									27.4
Subaru	All	All	1997					31.1	29.9	27.1	23.3									28.0
Subaru	All	All	1998						29.8	27.0										27.5
Subaru	All	All	1999						29.3	27.2										27.4
Subaru	All	All	2000						29.0	27.8	27.2									28.0
Subaru	All	All	2001						28.8	27.9	27.5									27.8
Subaru	All	All	2002						27.0	27.5	27.2									27.4
Subaru	All	All	2003						27.4	27.4	27.0									27.3
Subaru	All	All	2004						27.6	26.9	27.0									27.0
Subaru	All	All	2005						29.9	28.1	25.0									27.6
Subaru	All	All	2006							28.5	25.6	23.0								27.3
Subaru	All	All	2007							28.6	25.6	23.0								28.0
Subaru	All	All	2008							28.9	25.9	23.2								28.1
Subaru	All	All	2009							29.0	25.9	23.2								28.7
Subaru	All	All	2010							29.4	30.9	23.4								29.7
Subaru	All	All	2011							30.3	30.6	23.4								30.4
Subaru	All	All	2012						38.7	31.9	30.9	23.4								32.1

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Daimler	Car	Car	1975							26.0	15.1	13.4								17.3
Daimler	Car	Car	1976							25.0	17.9	13.4								18.6
Daimler	Car	Car	1977							26.5	18.3	14.3								19.2
Daimler	Car	Car	1978							27.3	18.3	13.9								18.7
Daimler	Car	Car	1979							29.7	19.9	13.6								20.3
Daimler	Car	Car	1980							26.1	22.2									23.9
Daimler	Car	Car	1981							26.9	24.0									25.4
Daimler	Car	Car	1982							28.9	25.4									26.1
Daimler	Car	Car	1983						26.1	30.0	25.9									26.4
Daimler	Car	Car	1984						26.8		24.3									25.9
Daimler	Car	Car	1985						25.7		21.9									23.0
Daimler	Car	Car	1986						25.6	23.1	19.3	16.8								21.1
Daimler	Car	Car	1987						26.1	25.0	18.9									21.9
Daimler	Car	Car	1988						26.5	23.4	18.3									21.1
Daimler	Car	Car	1989						24.3	18.6										21.2
Daimler	Car	Car	1990							23.6	20.1	17.5								21.2
Daimler	Car	Car	1991						27.0	25.1	21.2	17.8								22.2
Daimler	Car	Car	1992						27.1	25.5	21.2	18.8	17.3							21.8
Daimler	Car	Car	1993						27.3	26.7	24.1	19.8	18.9	15.6						22.7
Daimler	Car	Car	1994							26.7	24.4	20.1	20.4	16.1						23.5
Daimler	Car	Car	1995							27.5	26.7	22.2	19.6							24.5
Daimler	Car	Car	1996							27.7	26.6	22.6	19.9							25.2
Daimler	Car	Car	1997							28.5	25.2	22.0	20.2							25.0
Daimler	Car	Car	1998							29.5	27.6	21.6	20.2							27.0
Daimler	Car	Car	1999						28.6	27.6	27.3	22.1	20.1							26.3
Daimler	Car	Car	2000						28.6	27.7	26.1	21.9								24.9
Daimler	Car	Car	2001						26.9	26.2	25.6	22.2	19.2							24.8
Daimler	Car	Car	2002						27.3	25.9	24.7	22.0	19.1							24.6
Daimler	Car	Car	2003							27.1	24.1	20.9								24.4
Daimler	Car	Car	2004							28.5	23.8	21.2	17.0							24.5
Daimler	Car	Car	2005							26.8	24.9	21.0	17.2							25.1
Daimler	Car	Car	2006							25.4	24.8	21.8	17.2							24.3
Daimler	Car	Car	2007							25.2	25.1	20.8	20.1	17.4						23.3
Daimler	Car	Car	2008		49.5					25.2	25.5	20.8	19.7	16.6		15.3				25.5
Daimler	Car	Car	2009		49.5					26.9	25.6	20.5	20.0	17.0		15.2				25.8
Daimler	Car	Car	2010		49.1					27.4	25.7	22.8	20.9	16.6		15.2				24.8
Daimler	Car	Car	2011		48.7					27.7	25.8	23.8	21.8	18.4		15.5				25.3
Daimler	Car	Car	2012		50.3					32.0	27.3	27.6	24.7	18.5		15.5				28.7

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Daimler	Car	Wagon	1975																	
Daimler	Car	Wagon	1976																	
Daimler	Car	Wagon	1977																	
Daimler	Car	Wagon	1978																	
Daimler	Car	Wagon	1979								24.6									24.6
Daimler	Car	Wagon	1980								24.9									24.9
Daimler	Car	Wagon	1981								29.2									29.2
Daimler	Car	Wagon	1982								29.3									29.3
Daimler	Car	Wagon	1983								29.4									29.4
Daimler	Car	Wagon	1984								29.0									29.0
Daimler	Car	Wagon	1985								26.9									26.9
Daimler	Car	Wagon	1986																	
Daimler	Car	Wagon	1987								26.6									26.6
Daimler	Car	Wagon	1988								20.8									20.8
Daimler	Car	Wagon	1989								21.0									21.0
Daimler	Car	Wagon	1990								21.1									21.1
Daimler	Car	Wagon	1991								21.2									21.2
Daimler	Car	Wagon	1992								21.3									21.3
Daimler	Car	Wagon	1993								23.5									23.5
Daimler	Car	Wagon	1994								24.7									24.7
Daimler	Car	Wagon	1995								25.6									25.6
Daimler	Car	Wagon	1996																	
Daimler	Car	Wagon	1997																	
Daimler	Car	Wagon	1998								27.2									27.2
Daimler	Car	Wagon	1999								26.7									26.7
Daimler	Car	Wagon	2000								26.7									26.7
Daimler	Car	Wagon	2001								26.1									26.1
Daimler	Car	Wagon	2002								25.5									25.5
Daimler	Car	Wagon	2003							25.0	25.4									25.3
Daimler	Car	Wagon	2004								25.5	22.7								24.2
Daimler	Car	Wagon	2005								25.5	22.0								23.8
Daimler	Car	Wagon	2006								25.3	20.8		20.3						23.5
Daimler	Car	Wagon	2007									22.9		21.4						21.5
Daimler	Car	Wagon	2008									22.9	21.5	21.6						21.7
Daimler	Car	Wagon	2009									23.0		21.4						21.8
Daimler	Car	Wagon	2010																	
Daimler	Car	Wagon	2011									24.4								24.4
Daimler	Car	Wagon	2012									27.7								27.7

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Daimler	Car	Non-Truck SUV	1975																		
Daimler	Car	Non-Truck SUV	1976																		
Daimler	Car	Non-Truck SUV	1977																		
Daimler	Car	Non-Truck SUV	1978																		
Daimler	Car	Non-Truck SUV	1979																		
Daimler	Car	Non-Truck SUV	1980																		
Daimler	Car	Non-Truck SUV	1981																		
Daimler	Car	Non-Truck SUV	1982																		
Daimler	Car	Non-Truck SUV	1983																		
Daimler	Car	Non-Truck SUV	1984																		
Daimler	Car	Non-Truck SUV	1985																		
Daimler	Car	Non-Truck SUV	1986																		
Daimler	Car	Non-Truck SUV	1987																		
Daimler	Car	Non-Truck SUV	1988																		
Daimler	Car	Non-Truck SUV	1989																		
Daimler	Car	Non-Truck SUV	1990																		
Daimler	Car	Non-Truck SUV	1991																		
Daimler	Car	Non-Truck SUV	1992																		
Daimler	Car	Non-Truck SUV	1993																		
Daimler	Car	Non-Truck SUV	1994																		
Daimler	Car	Non-Truck SUV	1995																		
Daimler	Car	Non-Truck SUV	1996																		
Daimler	Car	Non-Truck SUV	1997																		
Daimler	Car	Non-Truck SUV	1998																		
Daimler	Car	Non-Truck SUV	1999																		
Daimler	Car	Non-Truck SUV	2000																		
Daimler	Car	Non-Truck SUV	2001																		
Daimler	Car	Non-Truck SUV	2002																		
Daimler	Car	Non-Truck SUV	2003																		
Daimler	Car	Non-Truck SUV	2004																		
Daimler	Car	Non-Truck SUV	2005																		
Daimler	Car	Non-Truck SUV	2006																		
Daimler	Car	Non-Truck SUV	2007																		
Daimler	Car	Non-Truck SUV	2008																		
Daimler	Car	Non-Truck SUV	2009																		
Daimler	Car	Non-Truck SUV	2010									23.8								23.8	
Daimler	Car	Non-Truck SUV	2011								23.5									23.5	
Daimler	Car	Non-Truck SUV	2012								23.6	23.6								23.6	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Daimler	Car	All	1975							26.0	15.1	13.4								17.3
Daimler	Car	All	1976							25.0	17.9	13.4								18.6
Daimler	Car	All	1977							26.5	18.3	14.3								19.2
Daimler	Car	All	1978							27.3	18.3	13.9								18.7
Daimler	Car	All	1979							29.7	20.1	13.6								20.5
Daimler	Car	All	1980							26.1	22.5									23.9
Daimler	Car	All	1981							26.9	24.4									25.6
Daimler	Car	All	1982							28.9	25.6									26.3
Daimler	Car	All	1983						26.1	30.0	26.1									26.4
Daimler	Car	All	1984						26.8		24.5									26.0
Daimler	Car	All	1985						25.7		22.1									23.1
Daimler	Car	All	1986						25.6	23.1	19.3	16.8								21.1
Daimler	Car	All	1987						26.1	25.0	19.2									22.0
Daimler	Car	All	1988						26.5	23.4	18.5									21.1
Daimler	Car	All	1989						24.3	18.8										21.2
Daimler	Car	All	1990							23.6	20.2	17.5								21.2
Daimler	Car	All	1991						27.0	25.1	21.2	17.8								22.2
Daimler	Car	All	1992						27.1	25.5	21.2	18.8	17.3							21.8
Daimler	Car	All	1993						27.3	26.7	24.1	19.8	18.9	15.6						22.7
Daimler	Car	All	1994							26.7	24.4	20.1	20.4	16.1						23.6
Daimler	Car	All	1995							27.5	26.5	22.2	19.6							24.5
Daimler	Car	All	1996							27.7	26.6	22.6	19.9							25.2
Daimler	Car	All	1997							28.5	25.2	22.0	20.2							25.0
Daimler	Car	All	1998							29.5	27.6	21.6	20.2							27.0
Daimler	Car	All	1999						28.6	27.6	27.2	22.1	20.1							26.3
Daimler	Car	All	2000						28.6	27.7	26.1	21.9								24.9
Daimler	Car	All	2001						26.9	26.2	25.7	22.2	19.2							24.9
Daimler	Car	All	2002						27.3	25.9	24.8	22.0	19.1							24.6
Daimler	Car	All	2003							27.0	24.1	20.9								24.4
Daimler	Car	All	2004							28.5	23.9	21.4	17.0							24.5
Daimler	Car	All	2005							26.8	24.9	21.1	17.2							25.0
Daimler	Car	All	2006							25.4	24.9	21.7	17.2	20.3						24.0
Daimler	Car	All	2007							25.2	25.1	20.9	20.1	21.1						23.2
Daimler	Car	All	2008		49.5					25.2	25.5	20.9	19.9	21.4		15.3				25.3
Daimler	Car	All	2009		49.5					26.9	25.6	20.6	20.0	21.3		15.2				25.6
Daimler	Car	All	2010		49.1					27.4	25.7	23.1	20.9	16.6		15.2				24.7
Daimler	Car	All	2011		48.7					27.7	25.6	23.8	21.8	18.4		15.5				25.1
Daimler	Car	All	2012		50.3					32.0	26.8	27.3	24.7	18.5		15.5				28.3

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Daimler	Truck	Truck SUV	1975																		
Daimler	Truck	Truck SUV	1976																		
Daimler	Truck	Truck SUV	1977																		
Daimler	Truck	Truck SUV	1978																		
Daimler	Truck	Truck SUV	1979																		
Daimler	Truck	Truck SUV	1980																		
Daimler	Truck	Truck SUV	1981																		
Daimler	Truck	Truck SUV	1982																		
Daimler	Truck	Truck SUV	1983																		
Daimler	Truck	Truck SUV	1984																		
Daimler	Truck	Truck SUV	1985																		
Daimler	Truck	Truck SUV	1986																		
Daimler	Truck	Truck SUV	1987																		
Daimler	Truck	Truck SUV	1988																		
Daimler	Truck	Truck SUV	1989																		
Daimler	Truck	Truck SUV	1990																		
Daimler	Truck	Truck SUV	1991																		
Daimler	Truck	Truck SUV	1992																		
Daimler	Truck	Truck SUV	1993																		
Daimler	Truck	Truck SUV	1994																		
Daimler	Truck	Truck SUV	1995																		
Daimler	Truck	Truck SUV	1996																		
Daimler	Truck	Truck SUV	1997																		
Daimler	Truck	Truck SUV	1998									21.3								21.3	
Daimler	Truck	Truck SUV	1999										20.3							20.3	
Daimler	Truck	Truck SUV	2000											20.4						20.4	
Daimler	Truck	Truck SUV	2001											20.8						20.8	
Daimler	Truck	Truck SUV	2002										19.1							19.1	
Daimler	Truck	Truck SUV	2003										19.4	17.4	17.0					18.8	
Daimler	Truck	Truck SUV	2004											19.0	15.9					18.8	
Daimler	Truck	Truck SUV	2005										19.0	15.7	15.1					18.7	
Daimler	Truck	Truck SUV	2006										21.0		15.3					20.9	
Daimler	Truck	Truck SUV	2007										22.0	18.7	21.8					20.2	
Daimler	Truck	Truck SUV	2008										22.4	18.2	19.5					20.8	
Daimler	Truck	Truck SUV	2009										22.1	18.0	19.4					20.8	
Daimler	Truck	Truck SUV	2010									22.5	22.4	21.0	19.2					21.4	
Daimler	Truck	Truck SUV	2011									23.2	22.2	20.6	19.3					21.1	
Daimler	Truck	Truck SUV	2012									23.0	25.1	26.1	20.1					22.5	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Daimler	Truck	All	1975																		
Daimler	Truck	All	1976																		
Daimler	Truck	All	1977																		
Daimler	Truck	All	1978																		
Daimler	Truck	All	1979																		
Daimler	Truck	All	1980																		
Daimler	Truck	All	1981																		
Daimler	Truck	All	1982																		
Daimler	Truck	All	1983																		
Daimler	Truck	All	1984																		
Daimler	Truck	All	1985																		
Daimler	Truck	All	1986																		
Daimler	Truck	All	1987																		
Daimler	Truck	All	1988																		
Daimler	Truck	All	1989																		
Daimler	Truck	All	1990																		
Daimler	Truck	All	1991																		
Daimler	Truck	All	1992																		
Daimler	Truck	All	1993																		
Daimler	Truck	All	1994																		
Daimler	Truck	All	1995																		
Daimler	Truck	All	1996																		
Daimler	Truck	All	1997																		
Daimler	Truck	All	1998									21.3								21.3	
Daimler	Truck	All	1999										20.3							20.3	
Daimler	Truck	All	2000											20.4						20.4	
Daimler	Truck	All	2001											20.8						20.8	
Daimler	Truck	All	2002										19.1							19.1	
Daimler	Truck	All	2003										19.4	17.4	17.0					18.8	
Daimler	Truck	All	2004											19.0	15.9					18.8	
Daimler	Truck	All	2005										19.0	15.7	15.1					18.7	
Daimler	Truck	All	2006										21.0		15.3					20.9	
Daimler	Truck	All	2007										22.0	18.7	21.8					20.2	
Daimler	Truck	All	2008										22.4	18.2	19.5					20.8	
Daimler	Truck	All	2009										22.1	18.0	19.4					20.8	
Daimler	Truck	All	2010									22.5	22.4	21.0	19.2					21.4	
Daimler	Truck	All	2011									23.2	22.2	20.6	19.3					21.1	
Daimler	Truck	All	2012									23.0	25.1	26.1	20.1					22.5	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Daimler	All	All	1975							26.0	15.1	13.4								17.3
Daimler	All	All	1976							25.0	17.9	13.4								18.6
Daimler	All	All	1977							26.5	18.3	14.3								19.2
Daimler	All	All	1978							27.3	18.3	13.9								18.7
Daimler	All	All	1979							29.7	20.1	13.6								20.5
Daimler	All	All	1980							26.1	22.5									23.9
Daimler	All	All	1981							26.9	24.4									25.6
Daimler	All	All	1982							28.9	25.6									26.3
Daimler	All	All	1983						26.1	30.0	26.1									26.4
Daimler	All	All	1984						26.8		24.5									26.0
Daimler	All	All	1985						25.7		22.1									23.1
Daimler	All	All	1986						25.6	23.1	19.3	16.8								21.1
Daimler	All	All	1987						26.1	25.0	19.2									22.0
Daimler	All	All	1988						26.5	23.4	18.5									21.1
Daimler	All	All	1989						24.3	18.8										21.2
Daimler	All	All	1990							23.6	20.2	17.5								21.2
Daimler	All	All	1991						27.0	25.1	21.2	17.8								22.2
Daimler	All	All	1992						27.1	25.5	21.2	18.8	17.3							21.8
Daimler	All	All	1993						27.3	26.7	24.1	19.8	18.9	15.6						22.7
Daimler	All	All	1994							26.7	24.4	20.1	20.4	16.1						23.6
Daimler	All	All	1995							27.5	26.5	22.2	19.6							24.5
Daimler	All	All	1996							27.7	26.6	22.6	19.9							25.2
Daimler	All	All	1997							28.5	25.2	22.0	20.2							25.0
Daimler	All	All	1998							29.5	27.6	21.4	20.2							25.3
Daimler	All	All	1999						28.6	27.6	27.2	22.1	20.3							24.4
Daimler	All	All	2000						28.6	27.7	26.1	21.9		20.4						23.6
Daimler	All	All	2001						26.9	26.2	25.7	22.2	19.2	20.8						23.9
Daimler	All	All	2002						27.3	25.9	24.8	22.0	19.1							23.2
Daimler	All	All	2003							27.0	24.1	20.9	19.4	17.4	17.0					23.4
Daimler	All	All	2004							28.5	23.9	21.4	17.0	19.0	15.9					23.7
Daimler	All	All	2005							26.8	24.9	21.1	18.9	15.7	15.1					24.1
Daimler	All	All	2006							25.4	24.9	21.7	20.9	20.3	15.3					23.4
Daimler	All	All	2007							25.2	25.1	20.9	21.4	19.4	21.8					22.4
Daimler	All	All	2008		49.5					25.2	25.5	20.9	21.5	20.2	19.5	15.3				24.0
Daimler	All	All	2009		49.5					26.9	25.6	20.6	21.6	19.7	19.4	15.2				24.3
Daimler	All	All	2010		49.1					27.4	25.7	22.9	21.9	20.8	19.2	15.2				23.6
Daimler	All	All	2011		48.7					27.7	25.6	23.7	22.2	20.5	19.3	15.5				23.7
Daimler	All	All	2012		50.3					32.0	26.8	26.2	24.9	26.0	20.1	15.5				26.7

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Mazda	Car	Car	1975					15.9	15.7											15.8
Mazda	Car	Car	1976				30.7	21.6	20.3											22.0
Mazda	Car	Car	1977			36.5	28.1	22.0	22.6											29.8
Mazda	Car	Car	1978			36.3	22.5		20.2											35.8
Mazda	Car	Car	1979			33.5		21.6												24.9
Mazda	Car	Car	1980			32.7		23.0												25.5
Mazda	Car	Car	1981		38.5	35.2	23.7	31.0												30.9
Mazda	Car	Car	1982			37.2	23.7	29.4												29.3
Mazda	Car	Car	1983			38.6	23.9	30.5												28.8
Mazda	Car	Car	1984			37.5	22.9	29.9												30.1
Mazda	Car	Car	1985			37.2	22.6	30.0												29.7
Mazda	Car	Car	1986			33.4	33.4	29.7	24.0											29.4
Mazda	Car	Car	1987			34.0	33.3	31.0	23.5											29.0
Mazda	Car	Car	1988			33.1	32.8		27.3	23.8										28.4
Mazda	Car	Car	1989			33.2	32.6		28.7	24.0										29.4
Mazda	Car	Car	1990				32.6	32.6	28.9	23.0	22.9									29.9
Mazda	Car	Car	1991				32.7	32.6	29.1	23.0	22.9									30.2
Mazda	Car	Car	1992				33.2	31.8	29.5	22.7	24.4									30.5
Mazda	Car	Car	1993				33.3	32.3	28.4		24.4									30.1
Mazda	Car	Car	1994				29.7	32.8	28.9		24.4									30.3
Mazda	Car	Car	1995				30.1	35.8	29.7	26.1	24.4									30.6
Mazda	Car	Car	1996				29.4	36.3	30.1	26.0										31.5
Mazda	Car	Car	1997				29.5	34.1	30.3	26.0										30.8
Mazda	Car	Car	1998					33.7	29.4	26.2										30.0
Mazda	Car	Car	1999				31.1	33.6	29.1	26.2										30.2
Mazda	Car	Car	2000				31.1	33.2	28.5	26.3										30.0
Mazda	Car	Car	2001					31.8	29.6	26.1										29.3
Mazda	Car	Car	2002					29.2	30.6	26.1										29.6
Mazda	Car	Car	2003					29.1	31.6	27.9										30.0
Mazda	Car	Car	2004					27.9	32.1	25.9		22.5								28.1
Mazda	Car	Car	2005					28.2	32.2	27.2										29.5
Mazda	Car	Car	2006					30.6	33.4	28.1	24.9									30.7
Mazda	Car	Car	2007					30.2	33.3	29.1	24.9									31.4
Mazda	Car	Car	2008					30.0	33.5	29.8										32.0
Mazda	Car	Car	2009					31.1	33.5	30.6	25.6									31.2
Mazda	Car	Car	2010					31.0	35.8	31.8	25.8									33.4
Mazda	Car	Car	2011				39.9	31.0	36.0	32.0	26.3									34.5
Mazda	Car	Car	2012				41.3	31.0	38.6	32.1	26.5									34.7

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)																	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000	8000	8500		
Mazda	Car	Wagon	1975				24.5	15.9	15.7											18.2	
Mazda	Car	Wagon	1976				28.4	21.3	19.9											21.8	
Mazda	Car	Wagon	1977				30.9		21.6											27.6	
Mazda	Car	Wagon	1978						20.5											20.5	
Mazda	Car	Wagon	1979				31.4													31.4	
Mazda	Car	Wagon	1980			33.7	28.7													32.0	
Mazda	Car	Wagon	1981			34.6	32.8													33.2	
Mazda	Car	Wagon	1982			34.5	33.2													33.3	
Mazda	Car	Wagon	1983			33.4	31.2													31.2	
Mazda	Car	Wagon	1984			31.3	27.0													27.8	
Mazda	Car	Wagon	1985			31.3	27.1													27.7	
Mazda	Car	Wagon	1986			31.3	29.1													29.2	
Mazda	Car	Wagon	1987				33.6													33.6	
Mazda	Car	Wagon	1988				32.0													32.0	
Mazda	Car	Wagon	1989				31.0													31.0	
Mazda	Car	Wagon	1990																		
Mazda	Car	Wagon	1991																		
Mazda	Car	Wagon	1992																		
Mazda	Car	Wagon	1993																		
Mazda	Car	Wagon	1994																		
Mazda	Car	Wagon	1995																		
Mazda	Car	Wagon	1996																		
Mazda	Car	Wagon	1997																		
Mazda	Car	Wagon	1998																		
Mazda	Car	Wagon	1999																		
Mazda	Car	Wagon	2000																		
Mazda	Car	Wagon	2001																		
Mazda	Car	Wagon	2002																		
Mazda	Car	Wagon	2003																		
Mazda	Car	Wagon	2004							25.4										25.4	
Mazda	Car	Wagon	2005							26.4										26.4	
Mazda	Car	Wagon	2006							27.2										27.2	
Mazda	Car	Wagon	2007							27.2										27.2	
Mazda	Car	Wagon	2008																		
Mazda	Car	Wagon	2009																		
Mazda	Car	Wagon	2010																		
Mazda	Car	Wagon	2011																		
Mazda	Car	Wagon	2012																		

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Mazda	Car	Non-Truck SUV	1975																		
Mazda	Car	Non-Truck SUV	1976																		
Mazda	Car	Non-Truck SUV	1977																		
Mazda	Car	Non-Truck SUV	1978																		
Mazda	Car	Non-Truck SUV	1979																		
Mazda	Car	Non-Truck SUV	1980																		
Mazda	Car	Non-Truck SUV	1981																		
Mazda	Car	Non-Truck SUV	1982																		
Mazda	Car	Non-Truck SUV	1983																		
Mazda	Car	Non-Truck SUV	1984																		
Mazda	Car	Non-Truck SUV	1985																		
Mazda	Car	Non-Truck SUV	1986																		
Mazda	Car	Non-Truck SUV	1987																		
Mazda	Car	Non-Truck SUV	1988																		
Mazda	Car	Non-Truck SUV	1989																		
Mazda	Car	Non-Truck SUV	1990																		
Mazda	Car	Non-Truck SUV	1991																		
Mazda	Car	Non-Truck SUV	1992								21.4									21.4	
Mazda	Car	Non-Truck SUV	1993								21.8									21.8	
Mazda	Car	Non-Truck SUV	1994								21.4									21.4	
Mazda	Car	Non-Truck SUV	1995																		
Mazda	Car	Non-Truck SUV	1996																		
Mazda	Car	Non-Truck SUV	1997																		
Mazda	Car	Non-Truck SUV	1998																		
Mazda	Car	Non-Truck SUV	1999																		
Mazda	Car	Non-Truck SUV	2000																		
Mazda	Car	Non-Truck SUV	2001							24.6										24.6	
Mazda	Car	Non-Truck SUV	2002							25.1										25.1	
Mazda	Car	Non-Truck SUV	2003							25.2										25.2	
Mazda	Car	Non-Truck SUV	2004							25.2										25.2	
Mazda	Car	Non-Truck SUV	2005							26.5										26.5	
Mazda	Car	Non-Truck SUV	2006							27.2										27.2	
Mazda	Car	Non-Truck SUV	2007								24.2									24.2	
Mazda	Car	Non-Truck SUV	2008							28.5	25.1									26.6	
Mazda	Car	Non-Truck SUV	2009							29.8	25.7									26.9	
Mazda	Car	Non-Truck SUV	2010							29.9	26.7									29.4	
Mazda	Car	Non-Truck SUV	2011							29.9	26.7									29.7	
Mazda	Car	Non-Truck SUV	2012								29.3									29.3	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Mazda	Car	All	1975				24.5	15.9	15.7											17.1
Mazda	Car	All	1976				29.8	21.5	20.2											21.9
Mazda	Car	All	1977			36.5	29.9	22.0	22.4											29.3
Mazda	Car	All	1978			36.3	22.5		20.3											35.5
Mazda	Car	All	1979			33.5	31.4	21.6												25.6
Mazda	Car	All	1980			32.8	28.7	23.0												26.0
Mazda	Car	All	1981		38.5	35.1	25.3	31.0												31.1
Mazda	Car	All	1982			37.2	24.4	29.4												29.4
Mazda	Car	All	1983			38.6	24.2	30.5												28.9
Mazda	Car	All	1984			37.4	23.0	29.9												30.0
Mazda	Car	All	1985			37.2	22.7	30.0												29.7
Mazda	Car	All	1986			33.4	33.2	29.7	24.0											29.4
Mazda	Car	All	1987			34.0	33.4	31.0	23.5											29.2
Mazda	Car	All	1988			33.1	32.7		27.3	23.8										28.4
Mazda	Car	All	1989			33.2	32.6		28.7	24.0										29.5
Mazda	Car	All	1990				32.6	32.6	28.9	23.0	22.9									29.9
Mazda	Car	All	1991				32.7	32.6	29.1	23.0	22.9									30.2
Mazda	Car	All	1992				33.2	31.8	29.5	22.7	24.0									30.2
Mazda	Car	All	1993				33.3	32.3	28.4		24.2									30.0
Mazda	Car	All	1994				29.7	32.8	28.9	23.9										30.2
Mazda	Car	All	1995				30.1	35.8	29.7	26.1	24.4									30.6
Mazda	Car	All	1996				29.4	36.3	30.1	26.0										31.5
Mazda	Car	All	1997				29.5	34.1	30.3	26.0										30.8
Mazda	Car	All	1998					33.7	29.4	26.2										30.0
Mazda	Car	All	1999				31.1	33.6	29.1	26.2										30.2
Mazda	Car	All	2000				31.1	33.2	28.5	26.3										30.0
Mazda	Car	All	2001					31.8	29.6	25.4										28.4
Mazda	Car	All	2002					29.2	30.6	25.7										28.9
Mazda	Car	All	2003					29.1	31.6	27.0										29.2
Mazda	Car	All	2004					27.9	32.1	25.8		22.5								27.8
Mazda	Car	All	2005					28.2	32.2	27.0										29.0
Mazda	Car	All	2006					30.6	33.4	27.7	24.9									30.0
Mazda	Car	All	2007					30.2	33.3	28.7	24.2									29.9
Mazda	Car	All	2008					30.0	33.5	29.5	25.1									30.9
Mazda	Car	All	2009					31.1	33.5	30.5	25.6									30.7
Mazda	Car	All	2010					31.0	35.8	31.3	26.3									32.8
Mazda	Car	All	2011				39.9	31.0	36.0	31.1	26.5									33.4
Mazda	Car	All	2012				41.3	31.0	38.6	32.1	28.6									34.5

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Mazda	Truck	Van	1975																	
Mazda	Truck	Van	1976																	
Mazda	Truck	Van	1977																	
Mazda	Truck	Van	1978																	
Mazda	Truck	Van	1979																	
Mazda	Truck	Van	1980																	
Mazda	Truck	Van	1981																	
Mazda	Truck	Van	1982																	
Mazda	Truck	Van	1983																	
Mazda	Truck	Van	1984																	
Mazda	Truck	Van	1985																	
Mazda	Truck	Van	1986																	
Mazda	Truck	Van	1987																	
Mazda	Truck	Van	1988																	
Mazda	Truck	Van	1989							24.9	22.5									22.5
Mazda	Truck	Van	1990							24.4	20.2									20.2
Mazda	Truck	Van	1991							24.7	20.3									20.3
Mazda	Truck	Van	1992							24.7	21.8	19.1								21.3
Mazda	Truck	Van	1993								21.7	19.1								21.4
Mazda	Truck	Van	1994								21.6	19.5								21.3
Mazda	Truck	Van	1995								21.3	19.4								20.9
Mazda	Truck	Van	1996								21.4	19.2								20.8
Mazda	Truck	Van	1997								21.4	19.2								20.5
Mazda	Truck	Van	1998								21.3	19.2								20.0
Mazda	Truck	Van	1999																	
Mazda	Truck	Van	2000								23.1									23.1
Mazda	Truck	Van	2001								23.2									23.2
Mazda	Truck	Van	2002								23.7									23.7
Mazda	Truck	Van	2003								23.8									23.8
Mazda	Truck	Van	2004								23.7									23.7
Mazda	Truck	Van	2005								23.7									23.7
Mazda	Truck	Van	2006								23.6									23.6
Mazda	Truck	Van	2007																	
Mazda	Truck	Van	2008							30.7										30.7
Mazda	Truck	Van	2009							30.3										30.3
Mazda	Truck	Van	2010							30.7										30.7
Mazda	Truck	Van	2011																	
Mazda	Truck	Van	2012																	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Mazda	Truck	Truck SUV	1975																	
Mazda	Truck	Truck SUV	1976																	
Mazda	Truck	Truck SUV	1977																	
Mazda	Truck	Truck SUV	1978																	
Mazda	Truck	Truck SUV	1979																	
Mazda	Truck	Truck SUV	1980																	
Mazda	Truck	Truck SUV	1981																	
Mazda	Truck	Truck SUV	1982																	
Mazda	Truck	Truck SUV	1983																	
Mazda	Truck	Truck SUV	1984																	
Mazda	Truck	Truck SUV	1985																	
Mazda	Truck	Truck SUV	1986																	
Mazda	Truck	Truck SUV	1987																	
Mazda	Truck	Truck SUV	1988																	
Mazda	Truck	Truck SUV	1989																	
Mazda	Truck	Truck SUV	1990																	
Mazda	Truck	Truck SUV	1991								21.3	20.0								20.5
Mazda	Truck	Truck SUV	1992									20.5								20.5
Mazda	Truck	Truck SUV	1993									20.6								20.6
Mazda	Truck	Truck SUV	1994								21.2	20.1								20.3
Mazda	Truck	Truck SUV	1995																	
Mazda	Truck	Truck SUV	1996																	
Mazda	Truck	Truck SUV	1997																	
Mazda	Truck	Truck SUV	1998																	
Mazda	Truck	Truck SUV	1999																	
Mazda	Truck	Truck SUV	2000																	
Mazda	Truck	Truck SUV	2001							23.6										23.6
Mazda	Truck	Truck SUV	2002							23.8										23.8
Mazda	Truck	Truck SUV	2003							23.6										23.6
Mazda	Truck	Truck SUV	2004							23.7										23.7
Mazda	Truck	Truck SUV	2005							25.1	23.8									24.0
Mazda	Truck	Truck SUV	2006							26.6	24.1									24.8
Mazda	Truck	Truck SUV	2007								23.7	22.5								23.2
Mazda	Truck	Truck SUV	2008							28.4	24.2	22.9								23.5
Mazda	Truck	Truck SUV	2009								24.4	22.6								23.1
Mazda	Truck	Truck SUV	2010								25.6	22.7								23.2
Mazda	Truck	Truck SUV	2011							29.6	25.1	24.5								24.6
Mazda	Truck	Truck SUV	2012								25.1	24.6								24.6

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Mazda	Truck	Pickup	1975						16.8											16.8
Mazda	Truck	Pickup	1976						18.2											18.2
Mazda	Truck	Pickup	1977						24.5											24.5
Mazda	Truck	Pickup	1978						31.7											31.7
Mazda	Truck	Pickup	1979						30.2											30.2
Mazda	Truck	Pickup	1980					30.2	30.1											30.1
Mazda	Truck	Pickup	1981					30.8	31.1											31.0
Mazda	Truck	Pickup	1982					30.6	32.1											31.6
Mazda	Truck	Pickup	1983					30.8	30.5											30.6
Mazda	Truck	Pickup	1984					29.6	29.8											29.7
Mazda	Truck	Pickup	1985																	
Mazda	Truck	Pickup	1986						27.7											27.7
Mazda	Truck	Pickup	1987						27.2	20.7										26.2
Mazda	Truck	Pickup	1988						26.7	21.9										26.4
Mazda	Truck	Pickup	1989						26.7	22.6										26.2
Mazda	Truck	Pickup	1990						26.8	23.2	21.3									25.9
Mazda	Truck	Pickup	1991						26.8	23.6	21.3									25.6
Mazda	Truck	Pickup	1992						26.8	23.5	21.3									25.6
Mazda	Truck	Pickup	1993						26.8	22.3	21.3									25.9
Mazda	Truck	Pickup	1994						29.8	25.6	21.0									24.5
Mazda	Truck	Pickup	1995							28.0	22.6									26.8
Mazda	Truck	Pickup	1996																	
Mazda	Truck	Pickup	1997																	
Mazda	Truck	Pickup	1998							26.1	21.1									24.8
Mazda	Truck	Pickup	1999							26.0	20.8									24.0
Mazda	Truck	Pickup	2000							25.2	20.7									23.8
Mazda	Truck	Pickup	2001							24.0	20.4									23.1
Mazda	Truck	Pickup	2002							26.2	21.1									23.5
Mazda	Truck	Pickup	2003							28.1	21.7									24.9
Mazda	Truck	Pickup	2004							28.1	21.5									25.0
Mazda	Truck	Pickup	2005							28.1	21.3									25.0
Mazda	Truck	Pickup	2006							28.4	21.6									26.0
Mazda	Truck	Pickup	2007							28.5	21.1									26.2
Mazda	Truck	Pickup	2008							28.5	20.0									26.3
Mazda	Truck	Pickup	2009							30.0	19.0									28.5
Mazda	Truck	Pickup	2010																	
Mazda	Truck	Pickup	2011																	
Mazda	Truck	Pickup	2012																	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
Mazda	Truck	All	1975						16.8											16.8	
Mazda	Truck	All	1976						18.2											18.2	
Mazda	Truck	All	1977						24.5											24.5	
Mazda	Truck	All	1978						31.7											31.7	
Mazda	Truck	All	1979						30.2											30.2	
Mazda	Truck	All	1980					30.2	30.1											30.1	
Mazda	Truck	All	1981					30.8	31.1											31.0	
Mazda	Truck	All	1982					30.6	32.1											31.6	
Mazda	Truck	All	1983					30.8	30.5											30.6	
Mazda	Truck	All	1984					29.6	29.8											29.7	
Mazda	Truck	All	1985																		
Mazda	Truck	All	1986						27.7											27.7	
Mazda	Truck	All	1987						27.2	20.7										26.2	
Mazda	Truck	All	1988						26.7	21.9										26.4	
Mazda	Truck	All	1989						26.7	22.6	22.5									25.2	
Mazda	Truck	All	1990						26.8	23.2	20.2									23.3	
Mazda	Truck	All	1991						26.8	23.6	20.4	20.0								22.8	
Mazda	Truck	All	1992						26.8	23.5	21.8	19.6								23.2	
Mazda	Truck	All	1993						26.8	22.3	21.7	19.9								23.3	
Mazda	Truck	All	1994						29.8	25.6	21.2	19.8								23.6	
Mazda	Truck	All	1995							28.0	21.6	19.4								24.4	
Mazda	Truck	All	1996								21.4	19.2								20.8	
Mazda	Truck	All	1997								21.4	19.2								20.5	
Mazda	Truck	All	1998							26.1	21.2	19.2								23.4	
Mazda	Truck	All	1999							26.0	20.8									24.0	
Mazda	Truck	All	2000							25.2	22.7									23.3	
Mazda	Truck	All	2001							23.8	22.7									23.3	
Mazda	Truck	All	2002							24.5	22.9									23.7	
Mazda	Truck	All	2003							24.9	23.3									24.0	
Mazda	Truck	All	2004							24.8	23.4									24.0	
Mazda	Truck	All	2005							26.5	23.6									24.0	
Mazda	Truck	All	2006							27.5	23.6									24.5	
Mazda	Truck	All	2007							28.5	23.6	22.5								23.4	
Mazda	Truck	All	2008							30.2	24.1	22.9								24.8	
Mazda	Truck	All	2009							30.3	24.3	22.6								26.5	
Mazda	Truck	All	2010							30.7	25.6	22.7								25.2	
Mazda	Truck	All	2011							29.6	25.1	24.5								24.6	
Mazda	Truck	All	2012								25.1	24.6								24.6	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
Mazda	All	All	1975				24.5	15.9	15.8											17.1
Mazda	All	All	1976				29.8	21.5	19.8											21.3
Mazda	All	All	1977			36.5	29.9	22.0	23.0											28.8
Mazda	All	All	1978			36.3	22.5		27.7											35.3
Mazda	All	All	1979			33.5	31.4	21.6	30.2											25.8
Mazda	All	All	1980			32.8	28.7	23.2	30.1											26.2
Mazda	All	All	1981		38.5	35.1	25.3	31.0	31.1											31.1
Mazda	All	All	1982			37.2	24.4	29.6	32.1											29.7
Mazda	All	All	1983			38.6	24.2	30.6	30.5											29.4
Mazda	All	All	1984			37.4	23.0	29.8	29.8											29.9
Mazda	All	All	1985			37.2	22.7	30.0												29.7
Mazda	All	All	1986			33.4	33.2	29.7	26.9											28.7
Mazda	All	All	1987			34.0	33.4	31.0	26.2	20.7										27.7
Mazda	All	All	1988			33.1	32.7		27.1	23.5										27.9
Mazda	All	All	1989			33.2	32.6		27.8	23.6	22.5									27.7
Mazda	All	All	1990				32.6	32.6	28.2	23.1	20.8									27.4
Mazda	All	All	1991				32.7	32.6	28.4	23.5	20.7	20.0								27.1
Mazda	All	All	1992				33.2	31.8	28.2	23.5	22.8	19.6								27.7
Mazda	All	All	1993				33.3	32.3	28.1	22.3	22.6	19.9								28.6
Mazda	All	All	1994				29.7	32.8	29.0	25.6	21.7	19.8								27.5
Mazda	All	All	1995				30.1	35.8	29.7	26.7	22.1	19.4								29.5
Mazda	All	All	1996				29.4	36.3	30.1	26.0	21.4	19.2								30.3
Mazda	All	All	1997				29.5	34.1	30.3	26.0	21.4	19.2								29.8
Mazda	All	All	1998					33.7	29.4	26.1	21.2	19.2								27.9
Mazda	All	All	1999				31.1	33.6	29.1	26.1	20.8									28.9
Mazda	All	All	2000				31.1	33.2	28.5	25.9	22.7									27.6
Mazda	All	All	2001					31.8	29.6	24.6	22.7									26.3
Mazda	All	All	2002					29.2	30.6	25.2	22.9									27.4
Mazda	All	All	2003					29.1	31.6	26.4	23.3									27.4
Mazda	All	All	2004					27.9	32.1	25.7	23.4	22.5								27.0
Mazda	All	All	2005					28.2	32.2	27.0	23.6									27.9
Mazda	All	All	2006					30.6	33.4	27.7	24.0									29.4
Mazda	All	All	2007					30.2	33.3	28.7	24.0	22.5								28.6
Mazda	All	All	2008					30.0	33.5	29.6	24.6	22.9								29.2
Mazda	All	All	2009					31.1	33.5	30.4	25.3	22.6								29.3
Mazda	All	All	2010					31.0	35.8	31.2	26.0	22.7								30.9
Mazda	All	All	2011				39.9	31.0	36.0	31.1	25.7	24.5								31.7
Mazda	All	All	2012				41.3	31.0	38.6	32.1	28.1	24.6								33.0

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
All	Car	Car	1975		31.4	28.3	23.9	21.7	21.4	18.1	15.6	14.3	12.9	12.3						15.8
All	Car	Car	1976		32.6	29.6	26.1	24.3	23.4	19.4	17.6	15.7	14.6	13.2						17.5
All	Car	Car	1977		36.0	32.1	29.2	24.7	23.0	20.3	17.9	16.5	14.0	12.7						18.4
All	Car	Car	1978		34.9	31.9	28.0	24.9	22.4	20.2	18.0	16.3	14.4	12.7						20.0
All	Car	Car	1979		32.0	31.5	27.9	24.0	22.0	20.2	17.7	16.6	14.4	11.0						20.3
All	Car	Car	1980		33.0	32.3	27.9	25.9	23.6	20.7	18.8	18.9	12.5	10.7						23.5
All	Car	Car	1981		38.4	34.5	29.2	27.8	24.4	22.3	20.3	20.5	11.7	10.5						25.1
All	Car	Car	1982		40.3	35.6	31.1	28.8	25.7	22.4	20.6	25.5	11.2	10.1						26.1
All	Car	Car	1983		43.6	36.1	31.9	30.3	25.8	22.7	20.3	20.3	11.5	10.9						25.7
All	Car	Car	1984		44.3	37.1	32.6	30.1	26.4	22.8	20.6	20.8	11.2	11.0						26.3
All	Car	Car	1985	57.4	44.4	37.7	32.5	30.6	27.1	23.3	21.8	23.2	10.9	11.0	10.1					26.9
All	Car	Car	1986	55.9	36.6	38.5	33.8	30.7	27.5	24.3	22.1	16.8	10.7	11.0	10.1					28.0
All	Car	Car	1987	56.8	40.0	39.0	33.4	30.8	27.8	24.5	21.7	10.9	11.4	10.9	10.4					28.2
All	Car	Car	1988	51.6	43.6	38.9	34.2	31.5	28.4	25.3	22.2	22.4	12.3	12.2	11.8					28.6
All	Car	Car	1989	59.4	43.5	38.7	34.3	31.8	28.4	25.1	23.0	21.2	12.4	12.5						28.2
All	Car	Car	1990	65.3	47.5	39.6	35.1	31.9	28.5	25.5	23.0	19.4	10.9	13.1						27.8
All	Car	Car	1991	65.3	47.1	38.1	35.8	32.4	28.1	25.3	23.3	19.9		13.2						28.0
All	Car	Car	1992	65.3	47.3	39.7	35.9	32.5	28.4	25.5	23.4	21.9	17.3	14.1						27.6
All	Car	Car	1993	65.3	48.6	38.7	36.5	32.8	28.7	26.0	23.6	22.0	18.9	15.6	17.6					28.1
All	Car	Car	1994	65.8	48.9	39.6	36.0	33.5	29.1	26.0	23.5	22.3	20.4	17.7	13.9	13.6				28.0
All	Car	Car	1995		53.7	40.4	37.5	33.9	29.7	26.4	23.5	22.4	19.6	18.2	13.9	13.6				28.3
All	Car	Car	1996		52.3	38.9	37.4	33.9	30.0	26.5	23.8	22.9	19.9	17.8	14.9					28.3
All	Car	Car	1997		54.4	39.3	37.0	34.0	30.0	26.7	23.8	22.2	20.2	18.1	14.9	14.9				28.4
All	Car	Car	1998		53.6	39.0	37.4	34.6	30.1	27.1	23.8	22.0	20.2	17.0	14.9	13.8				28.5
All	Car	Car	1999		50.3	38.6	35.9	34.6	30.1	27.2	24.1	22.2	19.7	14.9	19.3					28.2
All	Car	Car	2000		61.6	39.6	36.7	34.3	30.6	27.1	24.3	21.9	18.3	18.1	15.0	15.2				28.2
All	Car	Car	2001		75.6	39.3	36.2	36.0	31.6	27.2	24.5	22.2	18.2	16.1	17.6	15.2				28.5
All	Car	Car	2002		75.3	51.5	37.3	36.3	31.4	27.8	24.6	22.3	19.1	16.1	17.6	15.2				28.8
All	Car	Car	2003		75.1	50.8	40.8	37.1	32.7	28.1	24.9	23.2	20.3		18.2	15.2				29.0
All	Car	Car	2004		73.8	64.5	40.8	36.9	33.3	28.1	25.3	23.0	18.6	18.8	18.5	18.9				29.0
All	Car	Car	2005		74.3	34.1	41.1	37.2	34.1	29.0	25.8	23.3	18.1	16.7	17.3					29.7
All	Car	Car	2006		73.8	34.3	41.6	37.9	34.9	29.2	26.0	22.7	18.8	16.9	15.4	17.9				29.3
All	Car	Car	2007			29.9	42.4	38.0	36.5	30.1	27.0	22.6	20.0	16.8	16.2	19.1				30.5
All	Car	Car	2008		49.5	29.9	42.1	37.5	37.6	30.7	26.9	22.3	19.7	21.6	16.4	16.6				30.6
All	Car	Car	2009		49.5	30.0	42.0	37.6	38.5	31.9	27.5	23.3	21.2	18.3	16.4	16.6				32.0
All	Car	Car	2010		49.1	29.8	42.0	38.4	38.3	34.8	27.7	24.1	21.6	18.7	17.1	14.5				33.1
All	Car	Car	2011		48.7	29.9	41.1	40.3	38.9	34.8	28.2	24.9	22.1	20.2	18.1	18.9				32.7
All	Car	Car	2012		50.3	52.3	43.1	44.4	40.9	35.6	28.9	25.1	23.4	19.3	16.9	15.5				35.1

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
All	Car	Wagon	1975				25.0	21.9	21.5	18.9	14.5	13.9	12.6	11.9						16.1
All	Car	Wagon	1976			31.2	26.8	25.4	23.9	19.0	18.2	14.5	14.7	13.5						17.3
All	Car	Wagon	1977			32.2	29.7	25.7	23.9	19.5	17.7	16.5	14.5	12.4						18.0
All	Car	Wagon	1978			32.0	27.8	24.0	23.1	19.7	18.1	16.2	15.3	13.5						19.2
All	Car	Wagon	1979			30.3	27.9	25.3	23.2	20.1	18.3	16.0								19.7
All	Car	Wagon	1980			32.6	29.2	32.0	23.8	21.2	19.3	19.2								23.6
All	Car	Wagon	1981			34.0	30.2	27.1	24.2	21.3	20.5	20.2								25.6
All	Car	Wagon	1982			35.9	31.4	28.7	25.6	22.6	21.0	19.0								25.3
All	Car	Wagon	1983			37.2	33.1	29.6	25.8	23.9	20.1	19.5								27.2
All	Car	Wagon	1984			37.2	33.3	30.0	27.4	23.8	20.3	19.9								26.4
All	Car	Wagon	1985			35.9	34.4	30.0	27.5	24.1	21.0	21.0								27.5
All	Car	Wagon	1986			36.9	33.0	29.9	27.9	25.2	21.6	22.0								27.1
All	Car	Wagon	1987			37.3	33.5	30.9	29.0	25.1	22.0	22.3								27.2
All	Car	Wagon	1988				33.8	31.6	28.9	25.5	22.2	22.9								27.6
All	Car	Wagon	1989				34.5	31.5	29.3	25.2	22.5	22.4								26.9
All	Car	Wagon	1990				36.6	32.1	29.6	25.4	22.3	22.8								26.7
All	Car	Wagon	1991				38.4	33.8	29.8	26.1	22.8	22.8								28.0
All	Car	Wagon	1992				35.5	34.0	29.5	26.5	22.2	22.7								27.5
All	Car	Wagon	1993				35.9	34.2	29.1	26.5	24.2	22.5								29.6
All	Car	Wagon	1994				35.8	35.2	29.1	26.5	23.9	22.9								29.4
All	Car	Wagon	1995				37.8	34.6	28.5	26.7	24.9	22.8								29.6
All	Car	Wagon	1996					33.8	29.2	26.9	25.1	23.2								27.7
All	Car	Wagon	1997				38.0	34.2	29.9	27.0	24.9									28.9
All	Car	Wagon	1998				33.8	33.9	29.7	27.1	24.6									28.3
All	Car	Wagon	1999				33.9	34.5	29.2	27.2	24.9									27.7
All	Car	Wagon	2000				33.7	34.4	31.1	27.3	24.7									27.7
All	Car	Wagon	2001					34.0	32.4	27.3	25.4	20.3								26.9
All	Car	Wagon	2002					33.8	31.6	26.3	26.2	18.7								26.7
All	Car	Wagon	2003						34.3	27.0	26.2	21.6								29.1
All	Car	Wagon	2004					37.5	34.9	27.9	26.1	22.2	21.8							27.8
All	Car	Wagon	2005					38.3	35.1	28.3	24.8	22.6	21.8							28.0
All	Car	Wagon	2006					37.0	35.2	28.7	25.7	22.4	21.7	20.3						28.4
All	Car	Wagon	2007					39.8	35.2	28.7	26.2	22.2	21.6	21.4						29.0
All	Car	Wagon	2008					39.9	35.2	30.0	26.3	22.6	21.6	21.6						30.2
All	Car	Wagon	2009					40.1	36.1	30.9	27.9	23.2		21.4						32.7
All	Car	Wagon	2010					40.2	35.9	32.5	26.2	26.0								34.0
All	Car	Wagon	2011					40.9	35.9	33.7	28.1	24.2								34.7
All	Car	Wagon	2012					40.8	35.3	39.1	28.2	26.2								36.7

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
All	Car	Non-Truck SUV	1975								13.1									13.1
All	Car	Non-Truck SUV	1976							14.3	12.3									12.4
All	Car	Non-Truck SUV	1977								14.3									14.3
All	Car	Non-Truck SUV	1978								13.6									13.6
All	Car	Non-Truck SUV	1979					20.8			13.3									16.8
All	Car	Non-Truck SUV	1980								17.2									17.2
All	Car	Non-Truck SUV	1981								17.3									17.3
All	Car	Non-Truck SUV	1982				23.6		25.8	16.6	19.3									23.4
All	Car	Non-Truck SUV	1983				23.2		25.1											24.3
All	Car	Non-Truck SUV	1984				22.6		28.3	23.5	16.7									22.6
All	Car	Non-Truck SUV	1985						23.4	23.5										23.5
All	Car	Non-Truck SUV	1986						25.7	22.1										22.3
All	Car	Non-Truck SUV	1987						26.4	22.8										22.9
All	Car	Non-Truck SUV	1988						26.3	22.7										22.7
All	Car	Non-Truck SUV	1989						24.9	22.7										22.7
All	Car	Non-Truck SUV	1990				32.2		25.0	22.4	20.9									22.5
All	Car	Non-Truck SUV	1991				30.7		23.3	21.8	21.2									21.8
All	Car	Non-Truck SUV	1992				29.6	29.2	24.8	20.9	20.9									21.4
All	Car	Non-Truck SUV	1993				29.3	29.1	25.2	20.3	20.1									20.4
All	Car	Non-Truck SUV	1994				29.0	28.0	25.6	21.4	21.1									21.8
All	Car	Non-Truck SUV	1995				29.7	27.7	27.9	20.1	21.0									21.5
All	Car	Non-Truck SUV	1996				29.3	28.8	28.7	21.6	21.4									22.4
All	Car	Non-Truck SUV	1997				28.4	29.6	28.0	22.2	21.1									23.5
All	Car	Non-Truck SUV	1998				28.5	29.3	29.7	24.0	21.4									22.3
All	Car	Non-Truck SUV	1999					31.0	29.9	24.3	21.9									22.7
All	Car	Non-Truck SUV	2000					31.1	29.7	24.0	21.3									22.0
All	Car	Non-Truck SUV	2001					31.0	29.7	24.6	22.1									23.3
All	Car	Non-Truck SUV	2002						30.6	25.5	22.5									24.0
All	Car	Non-Truck SUV	2003						29.9	26.5	23.1									24.8
All	Car	Non-Truck SUV	2004						30.9	27.0	24.2	21.0								24.9
All	Car	Non-Truck SUV	2005						30.9	27.2	24.8	21.7	19.1							25.4
All	Car	Non-Truck SUV	2006							28.3	25.0	21.5	20.7							25.7
All	Car	Non-Truck SUV	2007							29.0	25.3	23.4	20.6							25.9
All	Car	Non-Truck SUV	2008							28.9	26.3	23.7	20.9							26.6
All	Car	Non-Truck SUV	2009							29.9	27.2	24.0	19.2							27.8
All	Car	Non-Truck SUV	2010							30.8	30.4	25.6	33.6							29.1
All	Car	Non-Truck SUV	2011							31.3	30.2	26.5	32.3							29.9
All	Car	Non-Truck SUV	2012							32.0	31.4	26.2	32.9							30.6

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
All	Car	All	1975		31.4	28.3	24.4	21.7	21.4	18.2	15.6	14.3	12.9	12.2						15.8
All	Car	All	1976		32.6	29.6	26.2	24.5	23.5	19.4	17.6	15.7	14.6	13.3						17.5
All	Car	All	1977		36.0	32.1	29.3	24.8	23.2	20.2	17.9	16.5	14.1	12.6						18.3
All	Car	All	1978		34.9	31.9	27.9	24.8	22.5	20.2	17.9	16.3	14.6	12.8						19.9
All	Car	All	1979		32.0	31.4	27.9	23.9	22.1	20.2	17.7	16.5	14.4	11.0						20.2
All	Car	All	1980		33.0	32.4	28.0	26.1	23.6	20.7	18.8	19.0	12.5	10.7						23.5
All	Car	All	1981		38.4	34.4	29.4	27.7	24.4	22.2	20.3	20.4	11.7	10.5						25.1
All	Car	All	1982		40.3	35.6	31.1	28.8	25.7	22.4	20.6	21.0	11.2	10.1						26.0
All	Car	All	1983		43.6	36.2	32.0	30.2	25.8	22.9	20.3	19.9	11.5	10.9						25.9
All	Car	All	1984		44.3	37.1	32.6	30.1	26.4	22.9	20.5	20.2	11.2	11.0						26.3
All	Car	All	1985	57.4	44.4	37.5	32.8	30.6	27.1	23.4	21.7	21.0	10.9	11.0	10.1					26.9
All	Car	All	1986	55.9	36.6	38.5	33.7	30.6	27.5	24.4	22.1	21.5	10.7	11.0	10.1					27.9
All	Car	All	1987	56.8	40.0	39.0	33.4	30.8	27.9	24.5	21.7	22.3	11.4	10.9	10.4					28.0
All	Car	All	1988	51.6	43.6	38.9	34.1	31.5	28.4	25.2	22.2	22.6	12.3	12.2	11.8					28.5
All	Car	All	1989	59.4	43.5	38.7	34.4	31.8	28.4	25.0	23.0	21.8	12.4	12.5						28.1
All	Car	All	1990	65.3	47.5	39.6	35.1	31.9	28.6	25.4	23.0	20.3	10.9	13.1						27.7
All	Car	All	1991	65.3	47.1	38.1	35.7	32.5	28.1	25.2	23.1	20.9		13.2						27.8
All	Car	All	1992	65.3	47.3	39.7	35.6	32.6	28.4	25.4	23.1	22.1	17.3	14.1						27.4
All	Car	All	1993	65.3	48.6	38.7	36.2	33.0	28.7	25.8	22.6	22.1	18.9	15.6	17.6					27.6
All	Car	All	1994	65.8	48.9	39.6	35.5	33.6	29.1	25.9	23.1	22.4	20.4	17.7	13.9	13.6				27.7
All	Car	All	1995		53.7	40.4	37.2	33.9	29.7	26.3	23.2	22.4	19.6	18.2	13.9	13.6				28.1
All	Car	All	1996		52.3	38.9	37.3	33.8	29.9	26.4	23.5	22.9	19.9	17.8	14.9					28.0
All	Car	All	1997		54.4	39.3	36.9	34.0	29.8	26.6	23.5	22.2	20.2	18.1	14.9	14.9				28.2
All	Car	All	1998		53.6	39.0	36.9	34.5	30.1	27.0	23.1	22.0	20.2	17.0	14.9	13.8				28.1
All	Car	All	1999		50.3	38.6	35.9	34.6	30.1	27.1	23.6	22.2	19.7	14.9	19.3					27.8
All	Car	All	2000		61.6	39.6	36.7	34.3	30.6	27.1	23.5	21.9	18.3	18.1	15.0	15.2				27.7
All	Car	All	2001		75.6	39.3	36.2	35.9	31.5	27.1	23.9	22.0	18.2	16.1	17.6	15.2				27.9
All	Car	All	2002		75.3	51.5	37.3	36.3	31.4	27.6	24.2	22.3	19.1	16.1	17.6	15.2				28.3
All	Car	All	2003		75.1	50.8	40.8	37.1	32.8	27.9	24.6	23.2	20.3		18.2	15.2				28.7
All	Car	All	2004		73.8	64.5	40.8	36.9	33.4	28.1	25.1	22.6	21.7	18.8	18.5	18.9				28.5
All	Car	All	2005		74.3	34.1	41.1	37.3	34.1	28.8	25.5	23.0	21.3	16.7	17.3					29.1
All	Car	All	2006		73.8	34.3	41.6	37.8	34.9	29.1	25.9	22.5	21.2	19.9	15.4	17.9				28.9
All	Car	All	2007			29.9	42.4	38.2	36.4	29.9	26.6	22.8	20.8	20.5	16.2	19.1				29.8
All	Car	All	2008		49.5	29.9	42.1	37.9	37.5	30.4	26.8	22.8	20.5	21.6	16.4	16.6				30.1
All	Car	All	2009		49.5	30.0	42.0	38.3	38.4	31.5	27.5	23.5	20.8	20.6	16.4	16.6				31.6
All	Car	All	2010		49.1	29.8	42.0	39.0	38.2	34.0	28.1	24.9	23.8	18.7	17.1	14.5				32.6
All	Car	All	2011		48.7	29.9	41.1	40.4	38.5	34.2	28.7	25.5	23.2	20.2	18.1	18.9				32.3
All	Car	All	2012		50.3	52.3	43.1	43.9	40.1	35.4	29.5	25.5	24.6	19.3	16.9	15.5				34.6

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
All	Truck	Van	1975						21.2	19.0	14.0	11.6	12.0		11.1	10.6				13.1	
All	Truck	Van	1976							19.5	14.1	13.3	12.4	11.1	11.9	11.5				13.9	
All	Truck	Van	1977							20.2	16.1	13.5	12.4		13.0	12.3				14.7	
All	Truck	Van	1978							19.4	15.6	13.0	12.5		12.5	11.7				14.2	
All	Truck	Van	1979							18.7	16.5	13.6	11.8	11.4	10.6					13.5	
All	Truck	Van	1980							19.0	18.4	16.3	14.2	12.4	10.9					16.6	
All	Truck	Van	1981							19.3	18.7	17.1	14.8	12.3						17.5	
All	Truck	Van	1982							20.9	18.8	16.8	15.1	13.4	11.9					17.3	
All	Truck	Van	1983			39.0				19.5	18.8	17.3	17.1	18.2	12.6					17.7	
All	Truck	Van	1984			38.6		29.8	25.7	24.2	18.0	17.0	15.6	14.5	12.9					18.9	
All	Truck	Van	1985					29.8	26.1	23.5	19.8	16.1	15.4	12.9	21.3					19.5	
All	Truck	Van	1986					29.4	26.9	24.3	21.1	17.5	16.0	15.0	23.1					20.6	
All	Truck	Van	1987					29.3	26.6	24.1	21.7	17.3	15.9	14.6	22.9					20.9	
All	Truck	Van	1988						27.4	24.5	22.2	17.9	16.7	14.2	21.7					21.2	
All	Truck	Van	1989						26.3	24.3	22.5	17.5	16.5	14.4	21.3					21.1	
All	Truck	Van	1990						26.4	25.2	22.2	18.7	16.5	14.4	21.5					21.2	
All	Truck	Van	1991						26.2	25.3	22.5	19.1	16.6	15.2	20.4					21.4	
All	Truck	Van	1992						28.3	25.7	22.6	19.2	17.5	15.9	15.0					21.5	
All	Truck	Van	1993						28.5	25.3	22.6	19.8	17.7	16.1	21.3					21.9	
All	Truck	Van	1994						28.4	24.7	22.7	19.3	17.6	16.2	15.5					21.5	
All	Truck	Van	1995						27.7	25.1	22.9	19.1	17.8	16.2	16.1					21.8	
All	Truck	Van	1996						27.7	27.0	23.5	20.6	17.8	15.8	16.1					22.2	
All	Truck	Van	1997							24.2	23.4	20.7	19.0	17.3	16.5					22.1	
All	Truck	Van	1998							27.0	23.8	21.5	18.6	17.4	16.6					22.7	
All	Truck	Van	1999							26.9	23.9	22.1	18.2	17.5	16.2					22.3	
All	Truck	Van	2000								24.2	22.3	18.4	17.2	16.3					22.8	
All	Truck	Van	2001								24.6	23.5	19.1	17.4	16.0					22.1	
All	Truck	Van	2002								24.9	23.3	18.7	17.5	17.1					23.1	
All	Truck	Van	2003								25.4	23.6	19.3	18.2	18.5					23.5	
All	Truck	Van	2004								25.1	24.2	20.4	19.1	18.7					23.7	
All	Truck	Van	2005								25.5	24.1	20.7	19.3	18.2					24.0	
All	Truck	Van	2006								25.7	24.5	19.9	19.2	18.2					24.3	
All	Truck	Van	2007								25.9	24.2	20.4	19.2	18.1					24.2	
All	Truck	Van	2008							30.7		24.7	23.9	19.3	17.6					24.6	
All	Truck	Van	2009							30.3		24.7	25.3	17.8	17.7					25.0	
All	Truck	Van	2010							30.5		24.4	25.3	18.6	18.4					25.0	
All	Truck	Van	2011							30.1		26.6	22.9	18.5	17.8	16.1	15.4			26.3	
All	Truck	Van	2012							30.6		26.6	22.1	18.5	17.6	15.9	14.8	14.5		26.3	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
All	Truck	Truck SUV	1975					16.8			13.2	13.5	11.1	10.5	10.3					13.0
All	Truck	Truck SUV	1976					17.8	15.4		13.8	13.9	12.8	11.2	11.9					13.9
All	Truck	Truck SUV	1977					18.6	16.8		14.7	15.4	13.6	11.7	11.9					15.1
All	Truck	Truck SUV	1978					18.1	16.8		14.5	14.7	13.0	11.8	11.4					14.5
All	Truck	Truck SUV	1979		25.7				17.2	15.6	15.7	12.9	11.4	10.6						12.4
All	Truck	Truck SUV	1980		25.2				19.7	16.3	15.9	14.5	14.0	13.8	13.4					15.5
All	Truck	Truck SUV	1981		25.2				20.9	17.2	16.9	15.8	15.3	14.1						16.8
All	Truck	Truck SUV	1982		25.2	24.8			20.2		19.4	15.7	15.1	21.2	21.2					17.3
All	Truck	Truck SUV	1983		25.2	24.8			20.5	23.4	21.9	15.7	15.7	20.2	20.8					18.5
All	Truck	Truck SUV	1984			28.8			22.6	21.3	22.1	14.8	15.3	17.9	21.0					19.0
All	Truck	Truck SUV	1985			28.8			24.5	21.8	22.0	15.0	15.7	16.1	21.4					19.4
All	Truck	Truck SUV	1986			33.1		25.6	22.8	21.8	21.1	15.6	16.4	15.7	22.1					20.1
All	Truck	Truck SUV	1987			33.1			22.4	22.2	20.4	14.6	15.7	16.8	20.9					20.4
All	Truck	Truck SUV	1988			33.3			22.3	20.9	20.8	15.0	16.1	16.5	18.3					20.2
All	Truck	Truck SUV	1989			33.4	31.3	29.3	22.1	20.3	21.2	14.9	15.9	17.5	15.8					19.7
All	Truck	Truck SUV	1990				31.8	28.7	23.3	20.5	20.5	17.5	16.0	17.3	16.0					19.6
All	Truck	Truck SUV	1991				33.5	28.9	27.1	19.8	20.8	19.8	15.8	17.2	15.7	20.2				20.0
All	Truck	Truck SUV	1992				33.5	28.9	23.7	19.4	20.2	19.4	15.7	16.3	14.9					19.4
All	Truck	Truck SUV	1993				33.5	29.0	24.0	19.6	21.3	19.7	16.1	16.8	15.8					19.6
All	Truck	Truck SUV	1994				33.5	28.7	23.5	19.4	18.9	19.9	16.5	16.8	16.1					19.3
All	Truck	Truck SUV	1995				30.5	28.4	23.3	19.8	19.0	19.9	17.0	16.9	15.7					19.3
All	Truck	Truck SUV	1996					28.4	28.0	19.9	19.3	20.2	17.0	17.4	16.8					19.6
All	Truck	Truck SUV	1997					28.3	27.8	22.7	19.9	19.8	18.0	17.4	16.7					19.6
All	Truck	Truck SUV	1998					28.4	27.4	24.0	20.2	20.1	17.3	17.0	16.1					19.7
All	Truck	Truck SUV	1999						28.3	25.7	20.8	19.7	17.4	17.5	16.5					19.6
All	Truck	Truck SUV	2000						28.0	24.0	20.9	19.9	17.6	18.2	16.6					19.6
All	Truck	Truck SUV	2001						27.7	24.8	21.3	20.4	17.1	18.5	16.8					20.2
All	Truck	Truck SUV	2002						27.8	25.9	21.6	19.9	18.9	18.4	17.7					20.1
All	Truck	Truck SUV	2003						27.8	26.0	22.8	20.7	19.3	18.3	17.4					20.3
All	Truck	Truck SUV	2004						23.7	26.3	22.3	21.3	19.6	18.4	17.4					20.4
All	Truck	Truck SUV	2005						23.5	26.9	23.2	21.6	19.5	18.6	18.2					20.8
All	Truck	Truck SUV	2006							28.0	23.5	22.7	20.0	18.7	18.1					21.4
All	Truck	Truck SUV	2007							28.8	25.5	22.5	20.4	19.0	19.8					22.0
All	Truck	Truck SUV	2008							29.8	26.4	23.0	21.4	19.4	19.5	18.4				22.7
All	Truck	Truck SUV	2009							29.2	27.5	23.5	22.6	21.1	19.8	18.3				24.1
All	Truck	Truck SUV	2010							29.4	28.3	23.9	23.2	22.2	20.2	18.4				24.7
All	Truck	Truck SUV	2011							30.7	28.8	24.4	24.0	21.6	20.7	18.6	15.4		16.4	24.9
All	Truck	Truck SUV	2012							30.9	29.0	24.9	24.4	20.6	21.4	18.8	15.4			25.4

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)															8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000				
All	Truck	Pickup	1975					22.7	20.7	15.1	14.1	11.8	11.0	10.0						14.0	
All	Truck	Pickup	1976					24.1	22.3	16.5	15.3	12.6	11.7	11.4						14.6	
All	Truck	Pickup	1977					25.7	28.6	17.1	16.7	13.7	12.9	11.8						16.0	
All	Truck	Pickup	1978				27.2	25.8	27.5	18.5	16.1	13.6	12.8	12.1	12.6	11.8				15.7	
All	Truck	Pickup	1979			25.0	27.5	22.7	23.9	18.9	15.9	14.2	12.9	11.3	10.9					15.5	
All	Truck	Pickup	1980		25.2	32.0	25.8	25.2	23.6	18.7	18.7	15.7	15.9	13.3	9.9	12.0				19.4	
All	Truck	Pickup	1981		25.2	41.5	28.4	27.9	27.1	21.3	19.2	16.8	16.9	13.3						21.0	
All	Truck	Pickup	1982			43.1	29.7	28.3	26.4	22.3	18.7	17.1	18.9	22.4						21.7	
All	Truck	Pickup	1983			39.2	32.6	28.8	26.4	23.4	18.5	17.0	18.0	22.1						22.2	
All	Truck	Pickup	1984			28.8	28.1	28.2	26.6	22.7	18.5	16.8	17.4	21.9						21.5	
All	Truck	Pickup	1985				29.6	29.9	26.3	23.3	18.5	16.8	16.3	21.1	19.6					21.4	
All	Truck	Pickup	1986				30.0	29.5	26.8	23.2	19.2	17.4	16.3	21.1						22.2	
All	Truck	Pickup	1987				29.8	29.7	27.0	22.9	19.1	17.2	16.0	21.1						22.5	
All	Truck	Pickup	1988					27.8	27.4	22.8	19.7	17.8	16.4	16.9	19.6					21.5	
All	Truck	Pickup	1989					27.6	27.6	22.6	20.1	17.8	16.0	19.2	21.2					21.2	
All	Truck	Pickup	1990					26.0	28.2	23.1	20.2	18.0	16.4	18.6	20.5					20.7	
All	Truck	Pickup	1991						27.5	23.9	20.4	18.1	16.2	17.5	19.5					21.7	
All	Truck	Pickup	1992					28.2	27.1	24.7	20.4	18.4	16.7	16.3						20.9	
All	Truck	Pickup	1993						27.4	24.5	20.5	19.0	16.9	17.0						21.1	
All	Truck	Pickup	1994						28.0	25.3	20.9	18.7	17.0	16.9	18.1					21.0	
All	Truck	Pickup	1995						27.3	26.3	20.9	18.6	16.8	15.9	18.1					20.4	
All	Truck	Pickup	1996						27.2	26.3	21.6	18.9	17.3	15.3	18.7					20.8	
All	Truck	Pickup	1997						26.6	27.0	21.5	19.8	18.2	17.0	18.7					20.4	
All	Truck	Pickup	1998						27.3	26.1	21.3	19.8	17.6	16.4	15.6					20.7	
All	Truck	Pickup	1999						27.2	24.9	20.7	19.9	18.1	16.3	16.8					19.9	
All	Truck	Pickup	2000						26.7	24.9	20.8	20.0	18.4	16.3	15.8					20.5	
All	Truck	Pickup	2001						27.1	24.5	20.7	20.0	18.6	16.3	15.8					19.6	
All	Truck	Pickup	2002						27.7	24.9	20.9	19.8	18.7	17.0	17.5					19.5	
All	Truck	Pickup	2003						27.7	25.7	21.4	20.2	18.9	17.2	17.6					19.9	
All	Truck	Pickup	2004						27.6	25.9	21.8	20.5	19.2	17.9	18.1					19.6	
All	Truck	Pickup	2005							25.9	23.1	20.8	19.4	18.3	18.0	16.3				19.7	
All	Truck	Pickup	2006							26.1	23.4	21.3	19.9	18.7	17.6	15.2				20.1	
All	Truck	Pickup	2007							26.0	22.8	21.4	20.0	19.5	18.5	15.1				20.1	
All	Truck	Pickup	2008							26.7	23.2	21.5	20.3	20.1	18.7	16.0				20.5	
All	Truck	Pickup	2009							27.9	24.2	22.1	20.8	20.4	19.2					21.0	
All	Truck	Pickup	2010							27.7	23.9	22.0	20.9	20.8	19.5					20.9	
All	Truck	Pickup	2011							27.7	23.5	21.9	21.4	21.1	20.3	16.2				21.4	
All	Truck	Pickup	2012							27.5	25.0	22.4	22.0	21.0	20.6	16.8				21.5	

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
All	Truck	All	1975					21.0	20.7	16.1	14.1	11.9	11.1	10.0	10.9	10.6				13.7
All	Truck	All	1976					22.5	21.0	16.9	15.0	12.9	12.1	11.4	11.9	11.5				14.4
All	Truck	All	1977					24.2	26.0	17.5	16.5	13.8	13.1	11.8	12.4	12.3				15.6
All	Truck	All	1978				27.2	23.5	25.2	18.6	15.9	13.5	12.8	12.1	11.8	11.7				15.3
All	Truck	All	1979		25.7	25.0	27.5	22.7	21.9	16.9	16.0	13.9	12.3	11.1	10.8					14.7
All	Truck	All	1980		25.2	32.0	25.8	25.2	22.7	18.3	18.6	15.7	15.1	13.1	12.3	12.0				18.6
All	Truck	All	1981		25.2	41.5	28.4	27.9	25.9	20.9	19.1	16.8	15.8	13.7						20.1
All	Truck	All	1982		25.2	39.1	29.7	28.3	25.9	22.1	18.7	16.8	17.0	21.5	21.1					20.5
All	Truck	All	1983		25.2	28.4	32.6	28.8	25.7	23.2	19.0	17.0	17.0	20.4	20.2					20.8
All	Truck	All	1984			31.1	28.1	28.3	26.0	22.7	18.9	16.7	16.0	17.9	20.4					20.4
All	Truck	All	1985			28.8	29.6	29.9	26.2	23.0	19.6	16.4	15.9	16.1	21.4					20.5
All	Truck	All	1986			33.1	30.0	29.5	26.8	23.1	20.1	17.3	16.3	16.0	22.2					21.4
All	Truck	All	1987			33.1	29.8	29.7	26.9	23.0	20.5	17.1	15.9	16.7	21.2					21.6
All	Truck	All	1988			33.3		27.8	27.4	22.6	21.1	17.7	16.4	16.2	18.7					21.1
All	Truck	All	1989			33.4	31.3	27.6	27.4	22.5	21.5	17.6	16.1	17.2	15.8					20.9
All	Truck	All	1990				31.8	26.8	27.8	23.0	21.3	18.2	16.4	16.8	16.0					20.7
All	Truck	All	1991				33.5	28.9	27.5	23.0	21.5	18.8	16.2	16.7	15.8	20.2				21.2
All	Truck	All	1992				33.5	28.6	26.9	23.6	21.6	18.9	16.8	16.2	14.9					20.8
All	Truck	All	1993				33.5	29.0	27.1	23.9	21.9	19.3	17.0	16.6	15.8					21.0
All	Truck	All	1994				33.5	28.7	27.2	24.4	21.3	19.3	17.0	16.7	16.1					20.7
All	Truck	All	1995				30.5	28.4	25.7	24.9	21.4	19.2	17.0	16.6	15.8					20.5
All	Truck	All	1996					28.4	27.5	24.8	22.1	19.8	17.4	16.6	16.7					20.8
All	Truck	All	1997					28.3	26.9	25.1	21.9	19.9	18.3	17.2	16.7					20.5
All	Truck	All	1998					28.4	27.3	25.4	22.3	20.2	17.7	16.9	15.9					20.8
All	Truck	All	1999						27.5	25.2	22.1	20.3	17.9	17.0	16.7					20.3
All	Truck	All	2000						27.0	24.5	22.4	20.5	18.2	17.8	16.6					20.7
All	Truck	All	2001						27.2	24.7	22.1	20.9	18.4	17.6	16.5					20.3
All	Truck	All	2002						27.7	25.6	22.4	20.6	18.7	17.7	17.7					20.3
All	Truck	All	2003						27.7	25.9	23.2	21.3	19.1	17.8	17.5					20.7
All	Truck	All	2004						27.5	26.2	22.5	21.9	19.4	18.2	17.7					20.5
All	Truck	All	2005						23.5	26.6	23.8	22.4	19.6	18.4	18.1	16.3				21.0
All	Truck	All	2006							27.4	23.8	23.2	20.0	18.7	17.9	15.2				21.4
All	Truck	All	2007							27.6	24.9	23.0	20.2	19.4	19.3	15.1				21.6
All	Truck	All	2008							28.7	25.6	23.4	21.2	20.0	19.1	18.4				22.2
All	Truck	All	2009							29.0	26.8	23.6	22.6	20.5	19.5	18.3				23.1
All	Truck	All	2010							29.3	27.6	23.8	23.2	21.0	19.7	18.4				23.4
All	Truck	All	2011							30.1	27.9	24.8	23.6	21.2	20.5	18.1	15.4		16.4	23.9
All	Truck	All	2012							30.6	28.3	25.3	23.7	20.9	20.9	18.3	15.3	14.5		24.3

2012 FE Trends Report

Appendix M: Laboratory 55/45 Fuel Economy by Manufacturer, Vehicle Type and Inertia Weight

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)														8000	8500	All Classes
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000			
All	All	All	1975		31.4	28.3	24.4	21.4	21.4	18.1	14.8	13.8	12.6	12.0	10.9	10.6				15.3
All	All	All	1976		32.6	29.6	26.2	23.5	23.3	19.2	16.5	15.0	14.1	13.1	11.9	11.5				16.7
All	All	All	1977		36.0	32.1	29.3	24.5	23.6	19.9	17.5	15.9	13.9	12.4	12.4	12.3				17.7
All	All	All	1978		34.9	31.9	27.9	24.4	22.8	20.1	17.1	15.3	13.8	12.4	11.8	11.7				18.6
All	All	All	1979		32.0	31.4	27.9	23.5	22.1	20.1	17.3	15.4	12.7	11.1	10.8					18.7
All	All	All	1980		32.8	32.4	28.0	25.8	23.5	20.6	18.8	17.1	15.1	13.1	12.3	12.0				22.5
All	All	All	1981		38.3	34.5	29.3	27.8	24.6	22.1	19.9	18.3	15.8	13.5						24.1
All	All	All	1982		40.1	35.6	31.1	28.7	25.7	22.4	20.0	17.9	16.9	21.4	21.1					24.7
All	All	All	1983		43.1	36.2	32.0	29.8	25.8	22.9	20.0	17.6	16.9	20.3	20.2					24.6
All	All	All	1984		44.3	37.0	32.6	29.9	26.3	22.9	20.0	17.3	15.9	17.9	20.4					24.6
All	All	All	1985	57.4	44.4	37.4	32.8	30.5	26.9	23.3	21.0	16.8	15.8	16.1	21.3					25.0
All	All	All	1986	55.9	36.6	38.2	33.7	30.5	27.3	24.0	21.0	17.7	16.2	16.0	22.1					25.7
All	All	All	1987	56.8	40.0	38.2	33.4	30.7	27.7	24.0	21.1	17.6	15.8	16.6	21.0					25.9
All	All	All	1988	51.6	43.6	37.8	34.1	31.2	28.2	24.5	21.5	18.1	16.4	16.2	18.7					25.9
All	All	All	1989	59.4	43.5	38.6	34.3	31.5	28.2	24.4	22.0	17.9	16.1	17.1	15.8					25.4
All	All	All	1990	65.3	47.5	39.6	35.0	31.7	28.5	24.9	22.1	18.3	16.4	16.7	16.0					25.2
All	All	All	1991	65.3	47.1	38.1	35.7	32.4	28.0	24.7	22.2	18.9	16.2	16.6	15.8	20.2				25.4
All	All	All	1992	65.3	47.3	39.7	35.6	32.4	28.1	25.1	22.3	19.1	16.8	16.2	14.9					24.9
All	All	All	1993	65.3	48.6	38.7	36.2	32.9	28.4	25.4	22.2	19.5	17.1	16.6	15.9					25.1
All	All	All	1994	65.8	48.9	39.6	35.5	33.5	28.8	25.5	22.1	19.4	17.1	16.7	16.1	13.6				24.6
All	All	All	1995		53.7	40.4	37.1	33.8	29.1	26.0	22.2	19.3	17.1	16.7	15.8	13.6				24.7
All	All	All	1996		52.3	38.9	37.3	33.6	29.7	26.1	22.7	20.0	17.4	16.6	16.7					24.8
All	All	All	1997		54.4	39.3	36.9	34.0	29.7	26.3	22.6	20.0	18.3	17.2	16.7	14.9				24.5
All	All	All	1998		53.6	39.0	36.9	34.5	29.8	26.7	22.6	20.2	17.7	16.9	15.9	13.8				24.5
All	All	All	1999		50.3	38.6	35.9	34.6	29.9	26.8	22.7	20.3	17.9	17.0	16.7					24.1
All	All	All	2000		61.6	39.6	36.7	34.3	30.5	26.6	22.9	20.5	18.2	17.8	16.6	15.2				24.3
All	All	All	2001		75.6	39.3	36.2	35.9	31.4	26.7	23.1	21.0	18.4	17.6	16.6	15.2				24.2
All	All	All	2002		75.3	51.5	37.3	36.3	31.3	27.3	23.3	20.7	18.7	17.7	17.7	15.2				24.1
All	All	All	2003		75.1	50.8	40.8	37.1	32.7	27.6	23.8	21.5	19.1	17.8	17.5	15.2				24.3
All	All	All	2004		73.8	64.5	40.8	36.9	33.3	27.8	23.9	22.0	19.5	18.2	17.7	18.9				24.0
All	All	All	2005		74.3	34.1	41.1	37.3	34.1	28.6	24.8	22.5	19.6	18.4	18.1	16.3				24.8
All	All	All	2006		73.8	34.3	41.6	37.8	34.9	28.9	25.3	23.1	20.0	18.8	17.9	17.7				25.2
All	All	All	2007			29.9	42.4	38.2	36.4	29.7	26.2	22.9	20.2	19.5	19.2	18.7				25.8
All	All	All	2008		49.5	29.9	42.1	37.9	37.5	30.2	26.5	23.3	21.2	20.0	19.1	18.4				26.3
All	All	All	2009		49.5	30.0	42.0	38.3	38.4	31.3	27.3	23.6	22.5	20.5	19.4	18.2				28.2
All	All	All	2010		49.1	29.8	42.0	39.0	38.2	33.4	28.0	24.1	23.2	21.0	19.7	18.4				28.4
All	All	All	2011		48.7	29.9	41.1	40.4	38.5	33.7	28.4	25.0	23.5	21.2	20.5	18.1	15.4		16.4	28.1
All	All	All	2012		50.3	52.3	43.1	43.9	40.1	34.8	29.1	25.3	23.8	20.9	20.9	18.3	15.3	14.5		30.0

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix N Fuel Economy and Ton-MPG by Manufacturer, Vehicle Type and Size

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report

Appendix N: LAB 55/45 Fuel Economy Values by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Toyota	1975	21.2			22.8			12.0			20.5						21.3		
Toyota	1976	25.0			24.6			10.7						12.0	9.5		22.1		
Toyota	1977	28.8			27.8			13.7							12.7		27.2		
Toyota	1978	27.0			25.5			13.0							11.5		24.6		
Toyota	1979	23.9			24.9			13.8							13.3		19.5		
Toyota	1980	27.4			27.4									13.8			21.5		
Toyota	1981	31.1			29.1									14.3			26.5		
Toyota	1982	30.5			29.3									14.2			25.6		
Toyota	1983	31.7			34.8										14.1		25.5		
Toyota	1984	32.8			33.9						27.0				17.3		25.1		
Toyota	1985	32.1			35.5	24.5					26.6				21.1		27.0	27.9	
Toyota	1986	32.3			33.7	23.8					26.3				23.3		26.4	29.0	
Toyota	1987	33.0			32.8	23.6					25.5				22.7		26.6	29.0	
Toyota	1988	32.7			31.5						25.8				20.3		25.1	24.5	
Toyota	1989	31.9			30.6						25.9				19.7		23.5	24.5	
Toyota	1990	31.0	23.4		29.9				20.9						19.4		23.1	23.9	
Toyota	1991	31.2	23.2		30.8				21.4			22.9			19.5	14.9	23.8	23.5	
Toyota	1992	31.2	26.0		31.8	25.2			17.1			22.3			17.7	14.5	23.7	23.5	
Toyota	1993	31.7	26.1		34.2	25.7			18.2			21.9			17.7	15.6	26.1		19.5
Toyota	1994	32.2	26.1		33.8	25.6						22.0			17.8	15.6	24.5		20.5
Toyota	1995	33.4	27.1	28.3	35.2	27.2			21.4			22.6			17.7	16.7	23.8		21.6
Toyota	1996	33.4	26.9	28.1	35.3	26.9		30.6	23.2			22.4		28.4	20.9	16.7	24.3		21.5
Toyota	1997	31.7	28.4	28.6				27.9				22.3		21.5	21.2	16.7			20.4
Toyota	1998	33.9	28.6	27.8				30.3	23.3			24.2		27.9	21.5	17.3	24.0		20.7
Toyota	1999	32.8	29.0	28.1				30.5	24.5			24.1		27.8	22.2	17.1	23.2		
Toyota	2000	33.4	28.8	28.1				30.5	24.2			24.1		28.1	21.6	17.1	26.6		20.0
Toyota	2001	34.5	29.3	26.7				30.4	23.9			24.7		28.3	21.8	20.1	26.7		20.4
Toyota	2002	34.2	29.2	28.4				30.4	23.9			24.7		28.5	22.7	17.8	22.7		18.8
Toyota	2003	36.8	29.7	27.4	35.2			30.4	23.9			24.7		28.6	22.5	17.9	22.6		19.2
Toyota	2004	35.4	31.5	26.6	36.1			30.9	25.2			25.4		28.3	22.9	17.8	22.5		18.4
Toyota	2005	36.3	34.3	27.0	37.0			30.9	25.2			24.7		28.3	23.2	18.6		27.0	21.3
Toyota	2006	35.2	34.8	28.8	36.5				29.0			24.8			25.5	18.5		24.6	20.5
Toyota	2007	36.7	34.2	29.8	36.5				27.8			26.1			24.7	18.8		23.9	19.9
Toyota	2008	36.1	37.5	29.3	32.8				28.2			26.1			25.5	19.1		24.0	19.1
Toyota	2009	38.8	35.2	29.6	33.0				29.2			26.1			26.8	18.7		24.3	19.5
Toyota	2010	38.7	41.0	29.6	33.3				29.6			26.1			27.3	18.9		24.0	19.7
Toyota	2011	38.3	36.8	30.0	32.1				30.0			26.3			27.1	18.8		27.5	21.6
Toyota	2012	40.7	40.8	29.4	32.1	58.7			30.1			26.6			27.2	19.0		27.2	21.6

2012 FE Trends Report

Appendix N: LAB 55/45 Fuel Economy Values by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Honda	1975	31.4																	
Honda	1976	32.9			29.4														
Honda	1977	36.2			31.9														
Honda	1978	34.0			31.5														
Honda	1979	29.0			29.9														
Honda	1980	28.9			32.5														
Honda	1981	30.6			33.7														
Honda	1982	33.2			36.7														
Honda	1983	35.2			36.7														
Honda	1984	35.1			36.1														
Honda	1985	33.7			34.8														
Honda	1986	33.5			34.6														
Honda	1987	32.8			34.2														
Honda	1988	31.8			34.2														
Honda	1989	31.2			34.7														
Honda	1990	30.3			35.2														
Honda	1991	30.4			28.7														
Honda	1992	31.0			27.1														
Honda	1993	32.2			27.6														
Honda	1994	32.1			29.0				20.4						20.1				
Honda	1995	32.9			29.0							25.5							
Honda	1996	32.1	24.5		28.5				19.9			28.5			19.0				
Honda	1997	32.4	24.5		27.2				19.4			24.9			25.1				
Honda	1998	35.1	29.1						25.1			27.0			25.5				
Honda	1999	34.7	28.5						25.1			24.1			25.9				
Honda	2000	35.4	28.4						25.5			23.9			26.2				
Honda	2001	36.6	28.8						26.1			24.0			25.1				
Honda	2002	37.5	28.6						28.8			24.2			25.8				
Honda	2003	38.0	29.8						29.7			24.2			24.7				
Honda	2004	37.1	30.0						29.4			24.2			24.4				
Honda	2005	37.5	30.1						29.7			26.0			24.1				
Honda	2006	38.2	30.0						29.7			26.1			24.5				21.4
Honda	2007	38.5	30.4		39.8				29.9			24.7			25.0				21.4
Honda	2008	37.7	26.8	31.2	39.9				29.7			25.2			25.3				21.4
Honda	2009	37.6	26.7	31.4	40.1				29.7			25.2			25.7				22.0
Honda	2010	39.1	26.6	31.9	40.2				31.0			24.9			27.0	26.7			22.0
Honda	2011	39.1	26.8	34.1	40.2				30.9			27.8			26.3	27.1			22.0
Honda	2012	42.4	29.2	34.1	40.3				33.7			27.8			28.3	28.7			22.6

2012 FE Trends Report

Appendix N: LAB 55/45 Fuel Economy Values by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Ford	1975	16.2	11.7	11.6	22.5	11.4	11.0						12.6		10.6			21.1	11.9
Ford	1976	18.6	14.7	14.2	23.7	14.9	13.6						13.4		13.7			22.9	13.4
Ford	1977	18.3	15.5	13.9	23.4	14.6	13.7					19.3	15.5		14.5			29.5	15.2
Ford	1978	23.0	17.7	15.3	23.5	19.4	15.0						15.0		13.2			29.2	15.2
Ford	1979	22.3	17.8	16.9	23.9	19.9	16.5						12.1		11.0			26.1	14.1
Ford	1980	24.1	22.1	18.9	25.2	22.8	18.4						16.2		14.0			25.7	17.1
Ford	1981	27.4	21.6	18.8	30.0	20.9	18.5						16.8		15.1			26.2	18.5
Ford	1982	29.0	21.3	19.7	31.2	21.0	19.9						16.2		14.8			27.7	17.8
Ford	1983	26.1	22.4	19.8	30.7	23.4	19.8						16.3		15.3			26.0	17.2
Ford	1984	27.8	23.0	19.9	32.9	24.0	19.9						16.6	21.2	15.0			24.5	17.4
Ford	1985	28.9	23.1	20.7	33.6	23.6	20.7						16.2	21.8	14.9			26.1	18.0
Ford	1986	28.4	25.3	22.0	33.3	24.9	22.0	23.5				22.3	17.7	22.2	16.6			25.6	18.4
Ford	1987	28.6	25.5	21.8	33.4	24.7	21.8	23.3				22.2	17.1	22.6	16.0			26.0	17.8
Ford	1988	29.3	26.1	22.6	32.9	24.6	22.6	23.0				22.0	17.0	21.9	16.2			25.6	18.1
Ford	1989	29.5	26.2	22.9	32.3	24.8	22.8	23.1				22.1	16.9	21.8	16.2			25.6	18.1
Ford	1990	28.6	26.1	22.8	33.0	24.8	22.5	23.2				21.5	16.5	22.0	16.1			25.4	18.3
Ford	1991	29.5	26.1	23.2	34.2	26.2	23.5		21.2			21.8	16.7		19.8			25.7	18.3
Ford	1992	29.0	26.3	24.2	35.1	26.6			21.2			21.6	17.0		19.6			25.7	18.1
Ford	1993	30.2	26.0	24.0	34.6	26.7			21.6			22.3	17.0		19.7			25.3	18.5
Ford	1994	30.0	25.6	23.6	35.8	26.4			21.1			22.1	17.0		19.7			24.9	18.6
Ford	1995	30.9	25.6	23.2	34.7	26.2			22.5			22.8	17.0		19.6			25.7	18.5
Ford	1996	29.5	25.3	23.1	33.7	25.2			22.3			22.8	16.6		19.6			25.4	18.0
Ford	1997	31.7	25.1	23.1	34.4	25.0			21.4			22.2	18.4		19.6	17.5		25.7	19.7
Ford	1998	30.2	25.8	23.0	33.8	24.9			21.2			23.3	18.6		19.5	17.3		23.8	19.3
Ford	1999	30.2	26.3	23.3	34.4	25.4			21.7	22.3		22.3	17.9		19.7	17.1		22.5	19.0
Ford	2000	29.9	25.7	25.0		28.4			21.0	21.3		22.4	18.3		19.8	17.5		22.4	19.2
Ford	2001	30.1	24.9	24.7		28.8			22.7	20.9		22.0	17.7		22.3	19.0		22.0	18.9
Ford	2002	29.3	25.3	25.5		28.9			23.6			22.8	18.7		22.2	19.1		22.2	19.1
Ford	2003	28.9	26.0	25.2		28.5			24.1			23.2	18.6		20.5	17.6		22.5	19.2
Ford	2004	27.1	25.8	24.7		27.8			25.1			22.1	19.0		20.5	17.8		22.3	18.8
Ford	2005	28.7	26.1	26.1		31.1			26.6			24.3	19.0		21.6	18.1		22.7	18.6
Ford	2006	27.4	28.5	25.5		33.8			27.3			24.1	18.9		21.4	18.2		23.1	18.5
Ford	2007	29.3	28.2	25.4		35.4			27.5	24.3		24.6			25.5	20.3		23.4	18.9
Ford	2008	30.3	29.4	24.6					28.6	24.6		24.0			26.3	20.5		23.9	19.2
Ford	2009	33.3	29.5	25.3					30.2	24.6		24.4			25.9	21.1		25.3	20.2
Ford	2010	32.6	32.4	25.7					30.1	25.9		30.3			27.6	21.5		27.7	20.3
Ford	2011	35.9	33.3	25.8					29.8	28.0		30.1	17.1		27.5	23.5			21.7
Ford	2012	39.1	33.2	26.9					29.8	29.1		30.6	17.1		27.6	23.7			21.8

2012 FE Trends Report

Appendix N: LAB 55/45 Fuel Economy Values by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Nissan	1975	25.2			20.9												23.6		
Nissan	1976	26.8			27.4												24.5		
Nissan	1977	27.2			27.1												25.0		
Nissan	1978	27.0			25.5												25.6		
Nissan	1979	26.6			27.9												23.2		
Nissan	1980	31.1			32.2												25.1		
Nissan	1981	30.4			31.4												27.7		
Nissan	1982	30.5			32.0												27.8		
Nissan	1983	32.5			34.6												27.4		
Nissan	1984	31.6			35.1												26.2		
Nissan	1985	29.4			30.0												25.7		
Nissan	1986	30.2			31.7	27.0											24.7		
Nissan	1987	29.4			28.4	26.4					22.4				18.7		25.1		
Nissan	1988	30.7			29.7	26.5					22.3				18.5		24.7		
Nissan	1989	31.8	25.3		32.3						22.2				19.0		24.8		
Nissan	1990	29.8	24.9		33.5						25.4				19.5		27.1		
Nissan	1991	31.0	24.6								26.0				19.5		26.9		
Nissan	1992	32.1	24.8								25.6				19.6		26.7		
Nissan	1993	30.3	25.1									21.8			19.4		26.4		
Nissan	1994	31.2	24.4									22.7			18.6		25.6		
Nissan	1995	30.4	27.0									23.0			19.1		24.9		
Nissan	1996	32.5	27.3									22.9			19.8		25.2		
Nissan	1997	31.1	27.0									22.6			19.6		24.9		
Nissan	1998	31.9	27.3									22.7			19.5		25.5		
Nissan	1999	31.0	27.0									23.1			19.5		23.3		
Nissan	2000	29.5	26.6					20.1				22.8		19.3	19.4		26.0		19.5
Nissan	2001	30.0	25.7						20.4			22.6			19.7		26.3		20.0
Nissan	2002	33.5	27.5						20.7			22.6			19.5		26.1		20.0
Nissan	2003	27.8	27.9						21.5	25.3					20.2	23.0	26.2		20.9
Nissan	2004	28.8	27.5						23.3	22.6		24.6			22.1	18.3			23.2
Nissan	2005	29.5	29.3						21.3	25.0		24.7			20.8	20.7			19.4
Nissan	2006	30.0	29.3	23.4					21.2	25.3		24.9			20.7	20.9			19.8
Nissan	2007	25.3	32.7	23.5					21.7	25.4		24.5			21.1	22.0			20.1
Nissan	2008	29.3	33.1	23.3					27.1	23.0		24.5			26.7	19.9			19.4
Nissan	2009	29.0	33.8	24.1	37.9				30.0	26.0		24.5			28.4	23.9			20.3
Nissan	2010	29.6	34.2	24.3	32.1				29.4	25.9					28.1	21.8			20.4
Nissan	2011	29.3	34.4		35.8				31.6	26.2		27.1			29.2	22.0			20.4
Nissan	2012	36.7	33.5		35.9				32.0	25.9		27.2			30.6	23.2			20.6

2012 FE Trends Report

Appendix N: LAB 55/45 Fuel Economy Values by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Chrysler-Fiat	1975	19.2	12.6	14.1	21.1	13.9	13.0		14.5			12.6		16.8	12.8				13.0
Chrysler-Fiat	1976	19.7	14.1	13.2	20.4	17.1	12.8		16.5			14.2		17.2	13.3				14.0
Chrysler-Fiat	1977	20.3	15.0	13.0	19.5	16.9	13.3		16.4			13.8		18.2	14.2				14.5
Chrysler-Fiat	1978	22.9	16.1	12.8	20.0	17.4	13.6		16.4			13.4		17.8	14.0				14.5
Chrysler-Fiat	1979	26.1	18.7	17.1	20.0	17.9		20.8	16.0			13.8		16.5	13.0		23.9	23.9	13.5
Chrysler-Fiat	1980	25.8	19.3	17.2	21.5	18.3			17.6			17.1	13.3	18.8	13.4		24.7	24.7	16.4
Chrysler-Fiat	1981	28.1	24.3	17.8	21.7	25.7			17.3			17.6	15.0	20.7	15.4		20.7	24.6	17.9
Chrysler-Fiat	1982	29.3	25.1		23.3	27.9		23.6				17.9	14.5	20.2	15.9		26.0	25.6	18.6
Chrysler-Fiat	1983	32.3	25.1		23.9	27.6		23.2				18.1	14.7	20.5	15.1		28.9	27.8	18.4
Chrysler-Fiat	1984	31.0	25.3			28.1		22.6	16.7		29.7	20.1	13.7	21.9	17.4		26.4	27.1	16.8
Chrysler-Fiat	1985	31.1	25.9		20.5	27.1			23.4		27.7	20.9	13.8	22.1	14.3		22.0	27.2	16.4
Chrysler-Fiat	1986	31.8	26.5		20.0	28.0			22.7		27.0	21.7	14.5	21.5	18.8			27.3	17.7
Chrysler-Fiat	1987	29.9	25.8		20.2	27.6			21.1		27.2	22.1	14.7	21.5	19.2			23.8	16.6
Chrysler-Fiat	1988	30.2	26.9	24.0	31.4	28.6			21.1		27.4	23.0	14.6	20.8	18.8			22.8	16.6
Chrysler-Fiat	1989	29.9	26.5	23.7	32.1	26.8			20.9		26.1	22.7	14.4	20.6	18.8			22.1	16.2
Chrysler-Fiat	1990	28.7	26.5	24.2	32.5				21.2		25.6	23.0	16.0	20.9	19.4			21.9	16.1
Chrysler-Fiat	1991	28.7	26.9	24.4					20.6		25.7	22.8	16.2	21.1	18.7			20.3	16.1
Chrysler-Fiat	1992	28.8	26.8	24.8					20.6		27.0	22.6	15.3	20.9	19.2			19.7	16.9
Chrysler-Fiat	1993	29.4	27.8	25.3		27.4			19.3		27.6	23.6	16.1	21.1	19.4			19.4	16.8
Chrysler-Fiat	1994	28.4	27.7	24.1					20.9		27.6	22.4	16.5	21.0	18.5			20.5	17.0
Chrysler-Fiat	1995	30.6	27.3	24.9					19.5		26.5	23.0	15.8	21.7	18.6			20.7	16.2
Chrysler-Fiat	1996	29.1	27.9	24.4					20.7		26.5	22.8	16.4		19.0			20.3	16.5
Chrysler-Fiat	1997	28.8	28.5	24.3					20.4			22.7	15.9	20.5	18.6			19.8	16.9
Chrysler-Fiat	1998	29.4	28.0	26.0					20.8			23.4	17.2	20.3	19.5	16.5		20.5	17.0
Chrysler-Fiat	1999	27.8	27.8	26.0					21.6			23.1	17.5	19.7	20.1	16.6		19.2	17.1
Chrysler-Fiat	2000	29.8	26.5	26.1					21.1			24.1	17.5	20.0	19.8	17.2		19.7	18.1
Chrysler-Fiat	2001	29.3	28.1	25.9	27.0				21.1			24.1	17.5	19.9	19.7	17.2		19.6	17.0
Chrysler-Fiat	2002	29.2	27.5	25.6	25.4				20.2			24.5	16.5	19.4	19.7	18.1		18.2	17.8
Chrysler-Fiat	2003	31.8	28.8	26.9	25.6				22.0			25.0	17.5	19.9	21.4	19.2		18.1	18.2
Chrysler-Fiat	2004	29.9	28.6	26.7	27.6		22.0		22.5			24.5		20.7	21.0	17.6		20.0	17.3
Chrysler-Fiat	2005	29.9	28.9	24.8	27.6	23.3	22.2		22.1			24.3		18.9	21.0	17.5			18.2
Chrysler-Fiat	2006	26.1	28.6	24.5	27.6	24.7	22.3		22.4			24.4		18.3	20.6	18.5			19.0
Chrysler-Fiat	2007	31.4	30.5	23.9	27.6	23.7	22.0	22.4	23.2			23.8		20.4	22.5	18.5			18.9
Chrysler-Fiat	2008	25.9	30.6	25.5	27.6	24.0	22.1					24.4		21.6	23.1	19.0			20.2
Chrysler-Fiat	2009	23.0	31.8	25.8	27.6					27.3		24.6		20.7	23.5	23.0			19.5
Chrysler-Fiat	2010	24.0	31.7	25.7	31.3					27.8		24.4		21.8	23.7	23.7			19.8
Chrysler-Fiat	2011	24.9	30.3	25.8	32.5							25.7			24.3	23.1			19.9
Chrysler-Fiat	2012	38.1	29.8	26.5	32.6							25.9			25.6	23.0			20.2

2012 FE Trends Report
Appendix N: LAB 55/45 Fuel Economy Values by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Hyundai	1975																		
Hyundai	1976																		
Hyundai	1977																		
Hyundai	1978																		
Hyundai	1979																		
Hyundai	1980																		
Hyundai	1981																		
Hyundai	1982																		
Hyundai	1983																		
Hyundai	1984																		
Hyundai	1985																		
Hyundai	1986	34.9																	
Hyundai	1987	34.5																	
Hyundai	1988	34.3																	
Hyundai	1989	34.8	26.5																
Hyundai	1990	35.7	26.0																
Hyundai	1991	34.9	25.5																
Hyundai	1992	32.4	24.9																
Hyundai	1993	32.3	25.2																
Hyundai	1994	32.9	24.9																
Hyundai	1995	32.8	25.8																
Hyundai	1996	34.0	27.0		30.2														
Hyundai	1997	32.5	25.8		30.4														
Hyundai	1998	32.0	25.8		29.5														
Hyundai	1999	31.7	26.7		28.9														
Hyundai	2000	31.2	26.8		28.9														
Hyundai	2001	32.8	26.5						25.9						24.0				
Hyundai	2002	33.2	26.7						25.3						23.5				
Hyundai	2003	31.7	26.5						25.6						23.3				
Hyundai	2004	32.1	26.2						25.0						22.8				
Hyundai	2005	32.8	29.5						25.4						23.0				
Hyundai	2006	30.8	32.3	28.5					25.7						22.9				
Hyundai	2007	34.2	36.8	29.2					26.2	23.6					24.6	22.7			
Hyundai	2008	35.3	36.6	30.4					26.5	23.6					24.9	22.7			
Hyundai	2009	39.0	36.6	31.5	34.5				26.5	23.6					24.9	22.7			
Hyundai	2010	36.6	38.7	32.0	34.5				31.2	24.7					30.0	23.7			
Hyundai	2011	N/A																	
Hyundai	2012	N/A																	

2012 FE Trends Report

Appendix N: LAB 55/45 Fuel Economy Values by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
VW	1975	26.7			27.2						20.7								
VW	1976	27.9			27.9						19.9								
VW	1977	29.8			28.7						22.2								
VW	1978	28.0			25.7						20.0								
VW	1979	29.4			25.0						18.7								
VW	1980	31.3			40.1						19.0						31.3		
VW	1981	34.7			40.6						18.5						36.9		
VW	1982	33.9			29.8						21.7						39.2		
VW	1983	31.4			30.6						19.3						35.7		
VW	1984	31.5	22.9		26.2	22.4					20.7								
VW	1985	32.5	22.6		28.7	22.7					21.3								
VW	1986	31.6	23.0		22.7	22.9					19.2								
VW	1987	29.8	23.3		27.5	23.3					18.9								
VW	1988	30.5	23.2		31.4	23.4					19.9								
VW	1989	30.9	22.6		31.7	23.3					20.8								
VW	1990	30.2	24.1		31.7	26.8					20.8								
VW	1991	31.2	25.1			26.9					20.9								
VW	1992	30.7	25.5		22.8	27.6													
VW	1993	28.1	24.1		22.9	24.0					21.0								
VW	1994	28.2		13.6	23.5	23.9					20.1								
VW	1995	29.3	24.5		23.4	24.0							19.6						
VW	1996	28.2	28.0		24.1	30.8													
VW	1997	28.9	26.3		24.2	25.1							18.5						
VW	1998	29.4	26.2		24.5	29.2													
VW	1999	29.3	26.3	13.8	26.2	26.5					19.5	18.5							
VW	2000	29.7	25.5	22.8	25.8	25.0					19.7	18.5							
VW	2001	29.4	25.4	23.1	27.0	23.3					20.7								
VW	2002	29.9	26.9	22.8	29.8	26.4					21.0	20.0							
VW	2003	30.3	27.2	23.1	33.6	26.0					20.0	20.9							
VW	2004	29.4	27.4	22.5	31.7	25.9										19.0			
VW	2005	29.1	27.3	22.7	33.1	27.2										19.8			
VW	2006	31.3	27.1	23.0	30.7	24.8										20.0			
VW	2007	29.0	26.8	23.7	30.0	29.2										19.5			
VW	2008	29.3	27.2	23.7	29.8	28.5										20.2			
VW	2009	31.0	27.6	23.6	35.1	28.4									26.7	22.5			
VW	2010	32.6	29.2	23.8	40.3	31.4									26.7	24.4			
VW	2011	33.3	25.3	25.5	39.6	26.2									28.0	26.6			
VW	2012	33.3	32.1	26.1	40.1										30.8	26.4			

2012 FE Trends Report
Appendix N: LAB 55/45 Fuel Economy Values by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Kia	1975																		
Kia	1976																		
Kia	1977																		
Kia	1978																		
Kia	1979																		
Kia	1980																		
Kia	1981																		
Kia	1982																		
Kia	1983																		
Kia	1984																		
Kia	1985																		
Kia	1986																		
Kia	1987																		
Kia	1988																		
Kia	1989																		
Kia	1990																		
Kia	1991																		
Kia	1992																		
Kia	1993	31.7																	
Kia	1994	32.9																	
Kia	1995	31.0							25.6						24.3				
Kia	1996	28.9							24.9						23.0				
Kia	1997	30.8							23.3						24.0				
Kia	1998	30.7							24.4						24.4				
Kia	1999	30.7						24.4						24.4					
Kia	2000	29.8						23.3							23.6				
Kia	2001	31.3	25.9					22.9							22.9				
Kia	2002	30.5	25.0					23.1				20.0			23.3				
Kia	2003	30.6	27.8									20.0			19.3				
Kia	2004	31.0	29.4	22.6								21.1			19.9				
Kia	2005	31.4	30.7	23.1					26.2			21.3			20.7				
Kia	2006	38.3	31.9	23.1					26.4			23.8			21.1				
Kia	2007	38.2	33.7	25.1		27.4			25.2			23.8			23.2				
Kia	2008	38.2	33.7	25.1		27.5			25.1			23.8			23.4				
Kia	2009	39.5	34.4	25.1		29.0			26.8	23.8		23.8			24.8	23.2			
Kia	2010	37.6	33.3		35.1	29.1			28.7	23.8		24.7			25.7				
Kia	2011	N/A																	
Kia	2012	N/A																	

2012 FE Trends Report

Appendix N: LAB 55/45 Fuel Economy Values by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
BMW	1975	17.2																	
BMW	1976	18.4																	
BMW	1977	19.8																	
BMW	1978	19.2																	
BMW	1979	19.5																	
BMW	1980	25.0																	
BMW	1981	26.2	11.1																
BMW	1982	26.2	11.1																
BMW	1983	25.5	11.1																
BMW	1984	27.3	11.1																
BMW	1985	25.7	11.1	10.1															
BMW	1986	25.2	11.1	10.1															
BMW	1987	24.1	11.4	10.4															
BMW	1988	23.1	18.0	11.8															
BMW	1989	22.6	17.9																
BMW	1990	22.7	19.0																
BMW	1991	23.5	18.9																
BMW	1992	24.1	19.4		23.2														
BMW	1993	26.0	20.4	13.6	24.3														
BMW	1994	25.5	21.0	13.6	23.5														
BMW	1995	25.7	21.9	13.6	24.4														
BMW	1996	27.9	15.9	22.0															
BMW	1997	26.0	22.3	22.5															
BMW	1998	25.7	22.6	22.3															
BMW	1999	25.5	21.3	22.3	23.6														
BMW	2000	24.9	21.7	22.4	24.5											17.5			
BMW	2001	25.2	21.0	22.4	24.9											19.2			
BMW	2002	26.3	16.1	23.6	25.5											20.1			
BMW	2003	26.9		23.5	25.6											20.0			
BMW	2004	26.8	25.3	23.5	25.8										21.5				
BMW	2005	27.7	25.0	23.3	25.7										21.3	21.2			
BMW	2006	28.0	25.4	23.0	26.4	26.5									21.7	20.8			
BMW	2007	28.3	26.6	23.0	26.8	26.5										23.4			
BMW	2008	28.2	25.8	23.1	26.7	24.7										22.9			
BMW	2009	29.4	26.2	21.5	26.8	24.8										22.7			
BMW	2010	30.2	26.3	22.1	26.6	24.7										23.6			
BMW	2011	29.3	30.4	22.8	26.6											25.3			
BMW	2012	32.2	32.1	23.1	26.6											24.6			

2012 FE Trends Report

Appendix N: LAB 55/45 Fuel Economy Values by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Subaru	1975	27.1			25.5														
Subaru	1976	30.5			28.0														
Subaru	1977	30.3			29.9														
Subaru	1978	32.9			27.5												27.2		
Subaru	1979	31.7			28.1												27.5		
Subaru	1980	29.3			26.7												26.0		
Subaru	1981	32.8			29.7												28.4		
Subaru	1982	33.0			30.5												29.8		
Subaru	1983	32.5			30.2												29.5		
Subaru	1984	32.4			29.9												29.7		
Subaru	1985	31.8			29.8	28.4											29.6		
Subaru	1986	30.8			29.2												30.0		
Subaru	1987	30.9			28.1												29.8		
Subaru	1988	32.9			29.4														
Subaru	1989	32.7			29.4	29.2													
Subaru	1990	28.8			27.3														
Subaru	1991	28.9			27.5														
Subaru	1992	27.9			28.3														
Subaru	1993	29.8			28.4														
Subaru	1994	29.0			27.5														
Subaru	1995	28.9			29.1	28.0													
Subaru	1996	28.3			28.7	27.0													
Subaru	1997	28.9			29.9	27.3													
Subaru	1998	28.4			29.9	27.4								26.8					
Subaru	1999	28.0			29.4	27.2								27.0					
Subaru	2000	28.0			29.5	27.8								27.8					
Subaru	2001	27.9			29.5	27.6								27.9					
Subaru	2002	27.0			27.3	27.4								28.0					
Subaru	2003	27.2			27.1	27.3								27.5			26.3		
Subaru	2004	26.1			27.4	27.3								27.1			25.4		
Subaru	2005	26.6			28.5	27.6								28.6			25.8		
Subaru	2006	27.5			28.3	28.2								28.8	23.0		26.9		
Subaru	2007	28.1			28.6	28.6								28.7	23.0				
Subaru	2008	28.8			28.5	28.8								28.9	23.2				
Subaru	2009	29.0			28.8	28.8									28.4				
Subaru	2010	28.8	32.1		28.6										29.6				
Subaru	2011	27.8	32.5		28.5										30.4				
Subaru	2012	34.2	32.0		38.2										30.5				

2012 FE Trends Report
Appendix N: LAB 55/45 Fuel Economy Values by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Daimler	1975	19.0	13.4																
Daimler	1976	19.5	13.4																
Daimler	1977	20.2	14.3																
Daimler	1978	19.5	13.9																
Daimler	1979	21.6	13.6			24.6													
Daimler	1980	24.3	18.3			24.9													
Daimler	1981	25.7	19.5			29.2													
Daimler	1982	26.7	18.9			29.3													
Daimler	1983	27.3	25.6			29.4													
Daimler	1984	26.2	25.7			29.0													
Daimler	1985	23.9	17.1			26.9													
Daimler	1986	22.1	19.3																
Daimler	1987	23.1	19.7			26.6													
Daimler	1988	22.1	18.7			20.8													
Daimler	1989	22.2	18.5			21.0													
Daimler	1990	22.1	19.0			21.1													
Daimler	1991	23.0	19.6			21.2													
Daimler	1992	23.4		17.9		21.3													
Daimler	1993	24.8	17.6	18.8		23.5													
Daimler	1994	24.3		20.5		24.7													
Daimler	1995	25.4		21.6		25.6													
Daimler	1996	26.1	26.6	21.5															
Daimler	1997	26.3	25.3	21.5															
Daimler	1998	27.8	27.7	21.3		27.2										21.3			
Daimler	1999	26.6	27.2	21.6		26.7								20.9		19.3			
Daimler	2000	26.3	26.3	22.0		26.7										20.4			
Daimler	2001	25.5	25.8	22.4		26.1										20.8			
Daimler	2002	25.2	24.9	22.3	25.6	25.3										19.1			
Daimler	2003	24.8	24.9	21.3	25.1	25.8									16.7	18.8			
Daimler	2004	25.4	23.9	22.0	25.3	23.7										18.8			
Daimler	2005	25.3	25.4	21.7	25.3	22.7										18.7			
Daimler	2006	24.3	26.7	22.5		25.1	20.3									20.9			
Daimler	2007	24.0	24.5	20.8		22.9	21.4									20.2			
Daimler	2008	26.9	24.9	20.5		22.9	21.6									20.8			
Daimler	2009	26.6	24.8	20.4		23.0	21.4									20.8			
Daimler	2010	26.1	24.7	20.3					23.8						22.5	20.9			
Daimler	2011	25.8	25.0	22.0		24.4			23.5						23.2	20.8			
Daimler	2012	28.8	29.5	24.8		27.7			23.6						23.0	22.3			

2012 FE Trends Report

Appendix N: LAB 55/45 Fuel Economy Values by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Mazda	1975	15.8			18.2												16.8		
Mazda	1976	22.0			21.8												18.2		
Mazda	1977	29.8			27.6												19.3	31.5	
Mazda	1978	35.8			20.5													31.7	
Mazda	1979	24.9			31.4													30.2	
Mazda	1980	25.5			32.0													30.1	
Mazda	1981	30.9			33.2													31.0	
Mazda	1982	29.3			33.3													31.6	
Mazda	1983	28.8			31.2													30.6	
Mazda	1984	30.1			27.8													29.7	
Mazda	1985	29.7			27.7														
Mazda	1986	29.4			29.2													27.7	
Mazda	1987	29.0			33.6													26.2	
Mazda	1988	29.0	27.8		32.0													26.4	
Mazda	1989	31.4	28.2		31.0							22.5						26.2	
Mazda	1990	31.5	28.2									20.2						25.9	
Mazda	1991	31.8	28.6									20.3			20.5			25.6	
Mazda	1992	32.4	26.9						21.4			21.3			20.5			25.6	
Mazda	1993	31.3	28.4						21.8			21.4			20.6			25.9	
Mazda	1994	31.3	28.6						21.4			21.3			20.3			24.5	
Mazda	1995	31.2	29.6									20.9						26.8	
Mazda	1996	32.5	30.2									20.8							
Mazda	1997	31.2	30.4									20.5							
Mazda	1998	31.3	28.9									20.0						24.8	
Mazda	1999	31.5	28.5															24.0	
Mazda	2000	31.6	27.9									23.1						23.8	
Mazda	2001	30.3	27.9						24.6			23.2			23.6			23.1	
Mazda	2002	30.3	27.6						25.1			23.7			23.8			23.5	
Mazda	2003	31.2	27.9						25.2			23.8			23.6			24.9	
Mazda	2004	28.8	27.2	22.5		25.4			25.2			23.7			23.7			25.0	
Mazda	2005	30.3	28.4			26.4			26.5			23.7			24.0			25.0	
Mazda	2006	32.2	28.2			27.2			27.2			23.6			24.8			26.0	
Mazda	2007	32.1	29.9			27.2			24.2						23.7	22.5		27.1	20.0
Mazda	2008	32.8	30.0						26.6		30.7				24.7	22.9		28.5	20.0
Mazda	2009	32.5	29.8						26.9		30.3				24.4	22.6		30.0	19.0
Mazda	2010	34.3	30.8						29.4		30.7				25.6	22.7			
Mazda	2011	35.2	31.6						29.7						25.7	24.5			
Mazda	2012	36.0	33.2	32.1					29.3						25.1	24.6			

2012 FE Trends Report

Appendix N: LAB 55/45 Fuel Economy Values by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
All	1975	18.3	13.6	13.1	22.4	13.2	11.9	12.0	15.2		20.6	13.3	12.6	16.8	12.0	12.2	22.5	21.1	13.1
All	1976	19.9	15.7	14.2	23.9	16.0	13.5	10.7	16.8		19.9	14.1	13.4	17.1	13.2	12.7	23.8	22.9	13.9
All	1977	20.7	16.4	15.9	25.5	16.3	15.5	13.7	17.1		22.2	14.3	15.5	18.2	14.5	13.6	25.5	29.6	14.9
All	1978	23.2	18.6	16.8	24.3	18.6	15.9	13.0	17.0		20.0	13.8	15.0	17.8	13.8	13.2	25.6	29.3	14.7
All	1979	23.3	19.1	17.4	25.7	19.1	16.1	18.0	12.6		18.7	14.3	12.1	16.5	11.8	11.1	22.8	25.9	14.3
All	1980	26.1	21.6	19.1	28.6	21.1	19.1		17.2		19.0	16.9	16.0	18.8	14.3	14.3	24.3	25.9	17.2
All	1981	28.5	22.9	20.4	30.0	23.1	19.9		17.3		18.5	17.9	16.8	20.4	15.6	15.3	28.2	26.4	18.6
All	1982	29.1	24.0	20.7	30.6	23.7	19.2	23.6	22.0		21.7	17.9	16.1	19.6	16.3	18.9	27.3	26.7	18.6
All	1983	29.4	23.9	20.2	32.2	24.4	19.6	23.2	25.1		19.7	18.7	16.2	20.9	18.2	17.6	26.9	26.5	18.1
All	1984	29.4	24.1	20.5	31.9	25.0	19.9	22.6	22.6		25.6	19.2	16.4	21.6	18.5	16.9	26.1	25.7	17.8
All	1985	29.8	24.9	22.3	32.5	25.2	20.9		23.5		25.5	19.8	16.1	22.1	19.2	16.9	26.7	25.7	17.7
All	1986	30.0	25.9	23.9	31.0	26.0	22.0	23.5	22.3		25.7	20.8	17.6	23.7	19.4	16.8	25.9	26.1	18.2
All	1987	30.1	26.0	23.9	30.7	25.6	22.1	23.3	22.7		24.3	21.2	17.0	24.3	19.4	17.0	26.0	25.4	17.7
All	1988	30.5	26.7	24.2	31.3	26.2	22.8	23.0	22.6		24.5	21.8	16.9	24.4	19.2	16.6	25.0	25.3	18.0
All	1989	30.2	26.6	24.0	31.5	25.6	22.5	23.0	22.5		25.0	21.8	16.8	22.8	19.2	16.7	23.9	24.8	18.1
All	1990	29.8	26.2	23.7	29.6	25.3	22.7	23.4	21.8		23.9	21.8	16.5	23.4	18.9	16.7	24.8	24.7	18.0
All	1991	30.0	26.0	23.6	30.6	25.9	22.9	22.8	21.5		24.0	21.9	16.7	24.1	19.9	16.2	25.0	24.6	18.2
All	1992	30.0	25.8	23.8	30.2	26.2	22.7	23.3	21.0		27.0	21.8	16.9	23.5	19.5	15.7	24.6	23.8	18.3
All	1993	30.5	26.1	24.2	32.5	26.2	22.5	23.0	20.2		28.2	22.3	17.0	23.4	19.9	16.3	26.3	23.7	18.7
All	1994	30.4	25.9	24.1	32.9	26.0	22.9	25.0	21.2		27.0	22.0	17.0	23.7	19.4	16.4	24.9	24.0	18.4
All	1995	30.7	26.1	24.4	33.3	26.6	22.8	29.2	20.8		26.5	22.2	17.1	23.6	19.5	16.6	24.4	24.7	18.0
All	1996	30.8	26.5	24.3	31.6	26.3	23.2	29.3	21.5		26.2	22.8	17.1	28.1	19.8	17.3	24.6	24.8	18.2
All	1997	30.9	26.5	24.5	32.2	26.3		27.8	21.2			22.6	18.6	21.1	20.3	17.5	24.9	24.2	18.9
All	1998	30.9	27.1	24.6	32.1	26.2		25.5	21.7			23.3	18.3	23.2	20.5	17.4	24.5	23.9	18.6
All	1999	30.3	27.1	24.8	31.5	26.3		27.1	22.2	22.3		23.0	17.9	23.4	20.7	17.2	23.2	22.5	18.5
All	2000	30.3	27.0	25.6	29.2	27.3		23.3	21.7	21.3		23.5	18.0	22.2	20.7	17.6	26.3	22.8	19.3
All	2001	30.7	27.2	25.5	27.3	26.6		26.9	22.8	21.0		24.0	17.8	23.9	21.2	18.5	26.5	21.8	18.9
All	2002	30.7	27.7	26.0	26.1	27.4		26.9	23.2	25.6		23.7	17.9	23.9	21.3	19.0	23.2	21.1	18.7
All	2003	30.7	28.3	26.0	30.2	27.2		29.3	24.4	24.3		24.1	18.7	24.2	21.9	18.7	23.2	22.8	18.9
All	2004	30.5	28.7	26.0	31.4	26.4	22.0	29.9	24.9	23.1		24.1	19.4	23.8	22.0	18.7	22.6	21.8	19.0
All	2005	31.1	29.8	26.4	32.4	26.0	22.2	30.9	25.7	24.4		24.2	19.4	23.2	22.3	19.2	25.8	23.6	19.4
All	2006	31.1	29.6	26.0	31.4	26.4	21.9		26.4	24.3		24.7	19.4	21.5	22.9	19.7	26.9	24.1	19.6
All	2007	31.7	31.2	26.0	31.7	27.3	21.9	22.4	26.8	24.3		24.4	19.8	22.4	24.0	20.5		23.5	19.7
All	2008	31.7	31.4	27.3	32.3	26.7	21.8		27.6	24.4	30.7	24.7	20.1	22.8	24.7	20.7		24.0	20.0
All	2009	33.5	32.5	28.4	33.6	28.1	21.4		28.8	25.2	30.3	24.9	20.0	20.7	25.9	22.3		24.6	20.3
All	2010	34.1	34.1	28.3	34.1	28.6			29.8	28.1	30.7	25.0	20.1	21.8	26.8	22.4		24.9	20.5
All	2011	33.0	33.7	29.9	34.9	24.7			30.6	28.8		26.6	19.1		26.8	22.9		27.1	21.3
All	2012	36.9	34.8	30.0	35.7	56.6			30.9	30.2		26.7	19.1		27.7	23.4		27.0	21.4

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
GM	1975	33.1	34.8	34.8	33.9	33.8	33.5		31.3			30.9			28.9	28.9	30.6		29.6
GM	1976	35.4	37.8	37.0	35.0	36.6	37.6		33.5			30.6			32.3	31.2	34.5		30.9
GM	1977	36.9	38.9	36.1	38.4	37.7	38.3		36.0			32.4			34.9	33.7	34.7		32.3
GM	1978	35.7	35.7	37.2	38.1	36.6	37.1		35.2			31.1			33.2	32.8	37.4		31.5
GM	1979	35.8	35.8	37.2	39.0	36.9	36.1					33.9			29.3	29.2	36.1		34.9
GM	1980	35.3	36.9	40.4		39.1	44.7					36.4			36.9	36.8	37.8		39.1
GM	1981	37.1	39.8	44.1		41.0	47.0					39.5			41.7	39.3	42.9		40.1
GM	1982	39.0	41.6	43.1	39.1	41.0	43.4		38.3			39.8	38.5		51.1	52.7	50.5	38.8	43.9
GM	1983	40.2	40.4	41.3	40.9	40.5	44.0		44.0			43.4	39.4		45.2	48.7	50.5	41.0	42.5
GM	1984	41.1	40.3	41.9	42.4	40.9	44.9		41.2			41.3	37.5		44.2	45.3	47.5	39.5	41.7
GM	1985	42.0	42.1	43.4	42.3	42.6	47.3		41.1			40.5	38.6		43.7	44.9	45.2	40.0	40.4
GM	1986	42.6	42.2	44.7	42.0	44.1	49.6		38.9			41.4	39.8		41.1	44.5	42.6	39.6	41.0
GM	1987	43.2	43.2	44.2	43.7	45.4	50.2		40.3			41.9	46.2		40.9	46.9		40.0	40.4
GM	1988	43.8	44.7	45.6	43.9	47.4	51.5		40.4			42.7	46.9		42.4	46.0		41.9	40.8
GM	1989	43.5	43.5	44.6	43.7	46.5	50.4	39.3	40.4			42.9	46.2	38.6	43.0	47.9		41.4	40.7
GM	1990	43.8	44.9	44.7	45.4	46.5	51.2	39.7	39.7			44.3	47.2	38.9	41.4	47.8		40.7	41.0
GM	1991	43.6	43.4	46.2	45.1	45.7	51.3	38.3	41.7			44.9	47.2	39.5	42.3	47.5		41.0	41.5
GM	1992	43.2	44.9	45.1	44.2	45.6	51.1	37.4	40.9			45.1	45.0	40.0	40.6	44.7		40.2	42.3
GM	1993	43.5	45.5	46.2	43.9	46.1	50.7	37.2	44.5			45.3	45.7	40.3	43.6	46.7		39.9	43.3
GM	1994	44.4	45.3	46.6	44.4	45.9	51.6	36.5	42.8			45.5	46.0	39.8	45.7	47.0		44.1	42.4
GM	1995	45.2	45.5	46.9	46.0	45.7	51.3	37.0	43.5			44.9	44.7	39.0	45.5	46.5		46.1	42.2
GM	1996	45.9	46.6	48.1	46.1	46.8	52.2	39.7	44.1			47.8	45.9	40.2	47.0	48.4		48.1	45.1
GM	1997	45.9	47.1	46.9	46.1			40.0	43.3			47.7	47.7	40.4	46.9	49.2		47.0	47.2
GM	1998	45.8	46.9	46.5	46.7			42.4	44.0			47.9	45.8	42.1	47.4	47.3		47.5	44.8
GM	1999	46.6	46.4	47.6	47.5			42.7	43.2			48.2	45.5	44.6	45.8	47.3		45.9	47.4
GM	2000	47.2	46.8	49.4	47.6	47.6		43.1	43.3			48.6	45.3	46.5	46.8	50.1		44.1	46.6
GM	2001	47.7	48.2	50.4	47.1	51.0		45.0	46.0			50.1	45.7	39.6	45.3	50.8		43.1	47.8
GM	2002	47.3	48.5	50.8		50.3		45.4	45.9	51.3		49.2	45.9	45.8	45.1	50.7		43.8	48.1
GM	2003	48.4	49.4	50.9	52.4	50.8		42.1	48.4	42.6		50.2	52.7	43.4	47.1	51.0		44.9	48.1
GM	2004	48.4	49.7	50.9	53.0	51.8		41.4	50.2	49.1		49.7	53.0	41.5	48.2	51.8		46.7	49.8
GM	2005	48.5	50.7	52.0	53.9				51.3	49.6		51.4	52.0		49.1	52.6		46.3	50.3
GM	2006	48.7	51.2	53.2	53.3				52.3	49.5		54.8	51.8		49.8	51.4		45.7	50.9
GM	2007	49.4	52.0	53.7	53.1				53.5	49.8		54.2	51.8		49.3	57.1		42.5	53.6

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
GM	2008	50.3	51.6	54.4	56.8				53.6	50.7		54.0	52.6		54.3	56.7		45.8	55.5
GM	2009	52.0	56.3	54.2	55.7				56.6	50.5			52.8		55.4	59.3		48.2	55.7
GM	2010	52.2	56.4	56.4	56.6				55.1	62.0			53.8		56.0	62.5		52.0	57.3
GM	2011	51.1	58.7	56.4	54.1				56.8	61.4			53.7		56.9	62.7		47.3	57.7
GM	2012	55.0	62.5	56.4	57.1				63.8	63.9			53.6		47.8	63.3		50.8	55.7
Toyota	1975	29.2			30.8			24.0			35.9						29.3		
Toyota	1976	34.4			33.4			21.5						27.1	21.3		31.1		
Toyota	1977	38.3			37.2			28.2							29.3		37.8		
Toyota	1978	35.9			34.9			26.4							26.5		35.3		
Toyota	1979	32.7			32.9			27.6							29.9		27.5		
Toyota	1980	36.2			35.9									27.6			30.9		
Toyota	1981	40.0			37.7									30.3			38.7		
Toyota	1982	39.5			37.5									30.9			39.0		
Toyota	1983	43.6			43.5										31.6		38.8		
Toyota	1984	44.7			43.8						45.9				35.1		38.3		
Toyota	1985	44.8			44.3	42.9					43.6				41.2		42.2	41.8	
Toyota	1986	44.8			42.3	41.7					45.2				47.8		41.6	43.5	
Toyota	1987	46.7			47.4	41.3					41.8				43.4		41.6	43.5	
Toyota	1988	45.5			46.1						45.4				41.4		40.1	36.8	
Toyota	1989	45.2			45.1						45.9				41.1		39.9	42.9	
Toyota	1990	45.0	46.8		45.0				41.8						41.8		39.6	41.8	
Toyota	1991	44.6	46.5		45.4				42.9			45.7			43.0	37.2	40.8	41.1	
Toyota	1992	43.7	46.0		44.7	44.3			34.1			44.6			39.8	36.3	40.3	41.1	
Toyota	1993	44.5	46.6		47.1	45.3			36.3			43.8			39.8	38.9	42.3		37.4
Toyota	1994	44.8	46.5		46.6	47.8						44.3			39.1	38.9	41.6		37.8
Toyota	1995	46.8	48.2	49.6	48.4	50.8			42.7			46.3			39.7	41.8	40.8		42.9
Toyota	1996	46.5	47.5	49.1	48.6	50.0		45.2	42.0			45.5		42.6	41.9	41.8	40.8		42.9
Toyota	1997	45.5	50.3	50.0				42.2				46.0		39.6	42.0	41.8			41.7
Toyota	1998	49.2	51.2	48.7				45.5	46.6			48.4		48.6	42.2	49.2	40.6		42.7
Toyota	1999	48.9	51.6	49.1				45.8	49.0			48.2		48.7	45.3	51.3	41.2		
Toyota	2000	48.8	51.2	49.2				45.8	48.4			48.2		49.2	45.7	51.3	40.1		42.9
Toyota	2001	51.6	52.2	48.6				45.6	47.8			49.5		49.5	45.6	48.5	42.6		42.9
Toyota	2002	52.9	52.0	49.7				45.6	47.8			49.5		49.8	46.7	49.8	43.0		43.7

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Toyota	2003	52.7	52.4	49.6	52.9			45.6	47.8			49.5		50.0	47.6	50.1	43.1		44.3
Toyota	2004	52.3	58.4	51.5	52.9			46.3	50.4			57.3		49.5	50.7	49.7	42.8		46.3
Toyota	2005	52.5	63.9	56.6	53.3			46.3	50.4			55.6		49.5	51.6	52.1		47.3	48.4
Toyota	2006	53.1	65.8	58.7	51.9				53.7			55.8			57.6	52.2		48.0	48.9
Toyota	2007	53.4	65.8	59.6	54.7				52.6			58.9			55.0	52.4		48.8	54.5
Toyota	2008	53.6	72.9	58.6	55.1				53.2			58.8			57.8	60.2		48.7	55.2
Toyota	2009	58.2	66.1	59.2	55.0				55.9			58.9			59.0	58.5		50.4	55.6
Toyota	2010	59.1	84.8	59.2	55.1				59.9			58.7			61.2	59.9		50.3	57.5
Toyota	2011	60.0	72.5	60.0	55.1				58.7			59.8			60.2	59.8		51.2	53.9
Toyota	2012	63.8	79.2	58.8	55.2	102.7			59.2			60.6			60.7	59.5		50.3	54.6
Honda	1975	31.5																	
Honda	1976	33.2			33.1														
Honda	1977	38.2			36.1														
Honda	1978	36.3			35.6														
Honda	1979	33.6			33.7														
Honda	1980	34.0			36.9														
Honda	1981	36.2			38.0														
Honda	1982	39.5			41.6														
Honda	1983	42.4			41.5														
Honda	1984	42.3			40.7														
Honda	1985	41.4			40.5														
Honda	1986	43.4			41.1														
Honda	1987	43.5			41.0														
Honda	1988	44.4			44.6														
Honda	1989	44.1			44.2														
Honda	1990	44.2			47.0														
Honda	1991	44.4			46.6														
Honda	1992	47.3			47.5														
Honda	1993	48.3			48.3														
Honda	1994	49.3			50.8				40.9						40.2				
Honda	1995	49.4			50.9							44.7							
Honda	1996	48.8	49.0		50.0				40.0			49.8			42.8				
Honda	1997	48.8	49.0		47.8				38.9			43.6			46.4				

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Honda	1998	50.6	51.2						46.2			47.2			46.1				
Honda	1999	49.6	50.3						46.3			54.2			46.6				
Honda	2000	49.5	50.0						46.6			53.8			47.3				
Honda	2001	53.2	50.6						47.2			54.0			48.4				
Honda	2002	53.0	50.9						51.3			54.5			49.3				
Honda	2003	56.5	53.0						52.0			54.5			50.1				
Honda	2004	55.4	53.9						51.4			54.5			49.7				
Honda	2005	55.7	54.5						51.9			58.6			49.5				
Honda	2006	59.6	54.4						51.9			58.7			50.2				48.1
Honda	2007	59.7	54.6		54.8				52.3			55.5			53.2				48.1
Honda	2008	59.6	53.7	56.7	54.9				52.0			56.8			53.7				48.1
Honda	2009	59.6	54.0	56.5	55.1				52.0			61.1			54.8				49.4
Honda	2010	62.4	53.8	57.5	55.3				54.7			60.5			57.9	53.4			49.4
Honda	2011	62.0	54.1	61.3	56.8				54.7			62.5			57.3	54.2			49.4
Honda	2012	67.0	59.0	61.4	56.6				59.6			62.5			59.9	57.7			56.5
Ford	1975	30.0	28.8	30.0	35.4	28.1	30.3						26.4		26.5			31.6	26.3
Ford	1976	35.1	35.3	36.5	37.6	37.4	37.4						28.0		34.5			34.9	29.8
Ford	1977	36.4	36.3	35.5	35.6	36.7	35.3					38.5	32.2		36.3			44.5	33.6
Ford	1978	36.0	35.5	37.8	35.7	33.9	38.1						31.2		33.1			44.2	33.7
Ford	1979	33.8	35.0	35.7	35.9	33.8	36.2						28.6		27.5			39.9	30.6
Ford	1980	34.7	35.5	38.8	37.9	35.0	39.3						37.9		33.2			39.3	36.6
Ford	1981	36.4	34.1	37.6	37.7	35.4	37.8						38.3		35.8			39.2	38.0
Ford	1982	38.0	35.2	39.5	39.1	36.7	39.7						37.1		34.9			40.3	36.7
Ford	1983	38.1	37.4	39.6	38.4	41.1	39.6						37.1		36.2			38.1	36.4
Ford	1984	40.6	41.5	39.8	41.8	42.0	39.8						36.8	37.1	36.3			38.9	36.6
Ford	1985	42.0	41.3	41.5	42.4	41.4	41.4						36.4	38.2	37.0			39.2	37.6
Ford	1986	42.4	44.2	43.9	42.4	43.6	43.9	41.1				42.8	40.8	38.8	40.5			40.6	38.8
Ford	1987	42.7	43.4	43.7	43.8	43.2	43.7	40.8				43.6	39.8	39.7	40.3			40.9	38.8
Ford	1988	43.1	45.7	45.3	43.6	43.2	45.3	40.3				43.5	41.4	38.5	40.7			41.0	39.9
Ford	1989	42.3	47.8	45.7	42.9	43.4	45.5	40.5				43.7	40.8	43.7	40.8			42.6	40.7
Ford	1990	42.2	48.3	45.6	44.7	43.5	45.0	40.6				42.8	40.6	43.7	40.3			42.7	41.4
Ford	1991	42.6	47.9	46.4	47.1	46.0	46.9		42.6			43.3	41.3		44.5			43.7	41.2
Ford	1992	42.8	47.2	48.3	48.3	46.6			42.4			43.5	43.7		44.2			45.6	41.9

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Ford	1993	43.9	47.3	48.0	47.8	46.8			43.2			44.9	43.7		44.6			44.9	42.9
Ford	1994	44.9	47.2	47.2	49.3	46.3			42.2			44.5	43.9		44.6			44.9	43.3
Ford	1995	46.8	47.0	46.4	47.9	45.9			45.0			45.6	44.3		44.6			46.6	43.0
Ford	1996	45.6	45.8	46.3	46.7	50.3			44.7			45.7	43.3		44.6			45.8	41.8
Ford	1997	46.6	45.4	46.3	47.4	50.0			42.8			44.5	47.7		44.1	45.0		46.9	45.2
Ford	1998	46.3	45.5	45.9	46.6	49.8			42.5			46.7	48.3		43.8	46.0		43.9	45.0
Ford	1999	46.7	46.1	46.5	47.4	49.5			43.5	44.6		48.7	46.2		43.4	47.0		41.7	44.8
Ford	2000	47.3	45.6	46.7		49.8			42.1	42.6		49.6	46.9		44.2	47.5		42.4	45.5
Ford	2001	47.8	45.5	45.7		49.2			43.0	41.7		44.0	48.3		47.4	44.9		41.8	46.5
Ford	2002	46.9	46.4	47.2		48.8			43.2			50.5	48.1		43.2	44.8		42.2	46.6
Ford	2003	47.0	47.4	49.0		48.6			43.5			52.2	47.8		44.4	49.7		43.6	47.0
Ford	2004	45.5	47.9	49.0		48.9			43.9			49.7	49.3		45.0	49.9		43.2	51.2
Ford	2005	47.9	48.2	51.2		49.8			47.2			53.2	48.8		46.3	51.3		43.6	51.6
Ford	2006	47.6	51.5	50.0		50.7			49.4			52.4	48.5		48.9	52.5		44.3	51.9
Ford	2007	49.2	51.2	50.4		53.0			50.1	54.6		52.7			51.0	50.0		44.3	52.1
Ford	2008	50.4	53.4	52.7					52.5	55.3		54.0			52.7	51.2		44.8	52.6
Ford	2009	53.9	53.0	54.8					55.3	55.4		54.9			55.4	51.8		47.0	57.0
Ford	2010	53.4	61.1	55.1					53.8	58.3		53.1			55.4	54.7		48.5	57.2
Ford	2011	56.8	63.1	55.1					53.0	61.6		52.7	51.7		54.8	59.2			58.4
Ford	2012	60.9	62.0	55.7					52.8	64.0		53.5	51.2		53.5	60.7			62.9
Nissan	1975	33.4			31.5												32.5		
Nissan	1976	34.8			37.0												33.8		
Nissan	1977	35.4			36.2												34.4		
Nissan	1978	34.6			34.6												35.7		
Nissan	1979	33.7			34.3												32.4		
Nissan	1980	38.7			39.0												35.8		
Nissan	1981	38.9			39.5												40.9		
Nissan	1982	40.0			40.6												40.9		
Nissan	1983	41.6			42.7												42.0		
Nissan	1984	42.5			43.4												41.7		
Nissan	1985	40.8			39.9												40.3		
Nissan	1986	42.2			41.2	41.7											39.9		
Nissan	1987	42.4			42.7	39.8					39.1				37.4		39.9		

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Nissan	1988	42.9			42.9	40.7					40.3				37.1		40.1		
Nissan	1989	42.6	44.2		44.7						41.4				37.9		40.2		
Nissan	1990	42.6	44.3		45.1						43.9				39.0		43.1		
Nissan	1991	45.4	44.2								44.0				39.0		43.1		
Nissan	1992	46.2	44.3								44.8				39.2		43.3		
Nissan	1993	45.6	44.3									43.5			41.8		43.2		
Nissan	1994	45.8	44.1									45.4			40.4		42.7		
Nissan	1995	45.5	47.6									46.0			40.0		42.0		
Nissan	1996	47.0	47.9									45.8			39.7		42.2		
Nissan	1997	45.8	47.7									45.2			43.1		41.7		
Nissan	1998	50.3	48.2									45.4			42.9		46.1		
Nissan	1999	50.4	47.7									46.1			42.4		44.3		
Nissan	2000	48.0	46.6					40.3				45.7		43.5	42.0		45.7		41.1
Nissan	2001	47.8	45.1						40.9			45.1			43.2		46.2		41.5
Nissan	2002	50.6	48.5						41.5			45.1			43.2		45.9		42.2
Nissan	2003	46.8	49.1						43.1	50.8					44.7	49.1	46.0		43.5
Nissan	2004	48.5	52.0						46.9	50.9		55.3			47.5	49.0			45.1
Nissan	2005	50.3	52.5						48.0	51.5		55.5			46.8	50.8			47.5
Nissan	2006	50.6	52.7	46.8					47.6	51.7		56.1			46.6	51.8			47.6
Nissan	2007	48.0	56.6	47.1					48.9	51.5		55.0			47.5	53.2			48.0
Nissan	2008	54.2	56.9	47.1					53.3	51.7		55.1			54.8	53.0			49.7
Nissan	2009	54.7	57.9	51.3	56.9				55.4	52.7		55.1			55.8	55.1			50.0
Nissan	2010	55.9	58.6	51.5	54.3				54.8	53.4					54.9	55.1			50.3
Nissan	2011	57.2	58.5		59.6				56.7	53.4		61.0			58.0	56.1			49.9
Nissan	2012	57.7	59.6		57.6				57.5	53.5		61.3			58.1	56.0			50.2
Chrysler-Fiat	1975	33.2	29.0	34.6	32.1	35.0	33.9		29.5			27.4		23.2	28.5				28.5
Chrysler-Fiat	1976	34.3	32.2	33.5	33.3	36.5	32.5		33.2			30.8		24.2	29.1				30.7
Chrysler-Fiat	1977	35.1	33.1	33.2	33.0	35.2	33.1		32.9			30.5		25.6	31.0				31.5
Chrysler-Fiat	1978	35.5	35.1	32.7	32.3	36.4	30.5		33.0			29.7		25.0	30.4				30.9
Chrysler-Fiat	1979	35.1	36.2	36.7	34.0	36.1		28.5	32.2			31.0		26.5	29.6		32.9	33.0	30.7
Chrysler-Fiat	1980	35.0	35.2	34.4	35.9	36.7			35.4			34.9	32.5	29.6	30.1		34.0	34.0	34.4
Chrysler-Fiat	1981	37.6	36.9	35.8	37.5	36.8			34.5			35.6	34.9	31.6	33.8		31.6	35.4	36.0
Chrysler-Fiat	1982	40.6	39.2		40.5	39.8		29.5				36.0	33.8	30.5	35.7		35.4	37.8	37.5

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Chrysler-Fiat	1983	42.1	39.7		41.8	39.9		29.0				37.4	34.8	30.8	34.6		39.4	41.0	37.9
Chrysler-Fiat	1984	40.5	39.5			39.5		28.2	33.5		40.9	38.3	33.5	32.9	34.1		36.4	39.8	34.7
Chrysler-Fiat	1985	40.8	40.6		40.0	40.6			35.5		40.2	38.9	33.4	38.7	33.1		38.5	39.9	34.5
Chrysler-Fiat	1986	41.9	41.1		39.0	42.0			38.9		40.2	40.9	35.2	37.0	36.3			39.2	36.4
Chrysler-Fiat	1987	39.7	40.6		39.5	41.5			36.5		41.1	41.9	35.9	36.9	37.2			40.3	35.3
Chrysler-Fiat	1988	42.5	42.3	36.0	43.4	42.9			36.8		42.6	44.1	35.5	35.8	35.2			39.2	36.3
Chrysler-Fiat	1989	44.2	42.8	36.3	43.9	40.3			36.4		40.4	43.9	34.6	35.1	35.2			38.0	35.3
Chrysler-Fiat	1990	44.0	43.7	44.9	44.0				36.8		40.1	44.9	39.3	34.5	35.7			40.7	35.9
Chrysler-Fiat	1991	44.0	43.6	43.8					36.0		40.0	45.7	39.2	37.0	33.8			39.4	36.1
Chrysler-Fiat	1992	44.5	43.1	44.3					36.1		41.9	45.6	39.3	34.3	34.1			39.3	37.7
Chrysler-Fiat	1993	44.6	44.0	44.6		42.0			37.7		42.2	45.4	39.5	34.5	35.1			39.2	38.0
Chrysler-Fiat	1994	43.9	41.6	45.2					38.4		42.7	44.8	40.9	33.9	35.7			41.6	40.4
Chrysler-Fiat	1995	44.4	45.4	46.1					36.6		42.1	44.5	40.1	33.8	35.9			42.0	39.5
Chrysler-Fiat	1996	43.8	46.8	46.5					38.7		41.9	47.6	41.1		36.2			40.3	41.0
Chrysler-Fiat	1997	44.0	47.1	46.5					39.6			47.3	41.5	38.6	36.1			40.9	42.8
Chrysler-Fiat	1998	44.4	47.9	45.9					39.9			48.4	44.7	35.7	39.1	41.4		42.1	43.7
Chrysler-Fiat	1999	43.6	48.6	49.0					41.4			48.1	45.6	38.2	41.4	40.7		40.4	43.6
Chrysler-Fiat	2000	45.4	46.4	48.6					41.3			49.5	41.6	38.9	39.7	41.8		42.1	43.2
Chrysler-Fiat	2001	47.2	49.3	47.8	47.3				40.5			52.8	43.0	39.0	40.4	41.9		41.3	42.8
Chrysler-Fiat	2002	47.2	48.1	47.6	44.5				40.4			53.2	39.6	38.4	42.7	44.0		41.9	45.6
Chrysler-Fiat	2003	48.9	50.4	50.0	44.9				44.0			53.2	42.6	39.4	45.1	46.6		41.7	46.8
Chrysler-Fiat	2004	48.4	50.1	49.5	48.3		52.4		45.0			53.6		41.0	43.1	45.7		45.1	46.4
Chrysler-Fiat	2005	46.9	50.7	52.1	48.4	49.1	53.1		44.2			52.0		36.2	46.7	46.7			46.4
Chrysler-Fiat	2006	46.7	50.1	51.0	48.3	51.5	51.7		44.7			53.1		36.4	47.5	49.4			49.5
Chrysler-Fiat	2007	55.4	53.8	50.3	48.3	49.0	51.1	44.9	46.3			52.4		43.8	48.6	50.0			50.3
Chrysler-Fiat	2008	52.2	54.7	52.6	48.4	49.7	51.9					55.7		46.5	49.9	49.8			55.1
Chrysler-Fiat	2009	50.1	55.7	52.9	48.3					54.6		56.4		44.8	49.6	53.3			54.0
Chrysler-Fiat	2010	51.3	55.8	52.2	54.8					55.6		56.0		46.8	50.0	53.3			53.2
Chrysler-Fiat	2011	53.0	56.0	53.9	56.4							57.9			49.8	58.3			53.2
Chrysler-Fiat	2012	55.0	55.4	56.6	56.3							58.4			50.8	55.6			54.9
Hyundai	1975																		
Hyundai	1976																		
Hyundai	1977																		

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Hyundai	1978																		
Hyundai	1979																		
Hyundai	1980																		
Hyundai	1981																		
Hyundai	1982																		
Hyundai	1983																		
Hyundai	1984																		
Hyundai	1985																		
Hyundai	1986	43.7																	
Hyundai	1987	43.2																	
Hyundai	1988	43.0																	
Hyundai	1989	43.5	39.8																
Hyundai	1990	44.7	40.7																
Hyundai	1991	43.7	40.8																
Hyundai	1992	43.1	43.8																
Hyundai	1993	43.2	44.3																
Hyundai	1994	43.8	43.8																
Hyundai	1995	44.4	41.5																
Hyundai	1996	44.9	41.9		45.3														
Hyundai	1997	44.5	40.6		45.6														
Hyundai	1998	44.3	39.9		44.3														
Hyundai	1999	44.5	46.8		43.4														
Hyundai	2000	45.2	46.9		43.4														
Hyundai	2001	47.4	48.3						51.8						47.9				
Hyundai	2002	47.6	48.1						50.7						47.1				
Hyundai	2003	47.9	47.2						51.4						46.7				
Hyundai	2004	48.0	47.1						50.4						45.8				
Hyundai	2005	47.7	48.2						49.9						46.1				
Hyundai	2006	48.5	48.5	55.2					50.2						48.1				
Hyundai	2007	50.4	55.2	55.3					51.2	53.1					54.0	51.2			
Hyundai	2008	50.8	55.0	55.9					51.8	53.1					54.9	51.2			
Hyundai	2009	53.6	54.9	57.8	59.7				52.1	53.1					55.7	51.2			
Hyundai	2010	54.2	58.1	57.8	60.4				59.8	55.5					58.2	53.3			

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Hyundai	2011	54.1	66.5	60.8	60.4				58.6	55.6					56.3	53.3			
Hyundai	2012	60.2	65.6	61.2	60.4				57.9	55.6					54.8	53.3			
VW	1975	31.3			34.1						36.2								
VW	1976	32.4			34.9						34.9								
VW	1977	35.0			36.4						38.9								
VW	1978	34.2			32.4						35.0								
VW	1979	36.2			31.3						32.9								
VW	1980	38.8			50.5						34.4						37.6		
VW	1981	43.4			50.7						33.8						43.6		
VW	1982	43.4			41.8						42.1						46.2		
VW	1983	39.5			45.2						35.3						43.5		
VW	1984	39.8	34.9		40.9	39.3					37.5								
VW	1985	42.3	35.0		40.0	39.8					39.0								
VW	1986	40.9	35.6		34.1	40.2					36.2								
VW	1987	39.4	37.3		37.9	40.7					36.2								
VW	1988	40.6	37.3		39.6	40.9					38.6								
VW	1989	41.4	40.7		39.6	43.1					42.2								
VW	1990	41.5	42.9		39.6	47.4					41.9								
VW	1991	43.3	43.6			45.5					42.1								
VW	1992	42.7	43.6		45.5	44.6													
VW	1993	41.3	42.3		45.9	42.1						43.7							
VW	1994	43.4		44.2	46.9	41.8						42.8							
VW	1995	44.8	41.7		46.7	41.9							48.9						
VW	1996	43.7	51.4		48.3	59.9													
VW	1997	44.8	51.3		48.4	45.1							50.8						
VW	1998	46.3	48.8		47.2	51.3													
VW	1999	45.8	47.9	38.0	47.3	49.1						43.9	51.0						
VW	2000	47.2	47.7	51.2	46.8	45.3						44.4	51.0						
VW	2001	47.6	46.6	52.1	49.0	46.6						50.0							
VW	2002	50.4	48.9	51.9	55.2	50.0						47.2	55.1						
VW	2003	50.9	50.4	52.2	64.6	50.1						55.1	47.1						
VW	2004	50.6	50.7	53.4	60.4	51.1										52.4			
VW	2005	52.2	52.6	53.3	64.6	55.8										54.8			

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
VW	2006	57.3	51.3	52.7	55.8	55.7										55.7			
VW	2007	53.1	51.4	53.4	56.0	59.2										54.5			
VW	2008	53.4	51.6	53.6	54.0	57.8										56.4			
VW	2009	57.2	52.7	53.3	65.4	57.5									53.4	57.5			
VW	2010	59.9	57.1	53.5	73.6	56.9									53.3	59.8			
VW	2011	60.8	57.9	57.3	72.1	59.0									56.0	65.2			
VW	2012	61.0	59.5	58.8	72.7										62.1	64.6			
Kia	1975																		
Kia	1976																		
Kia	1977																		
Kia	1978																		
Kia	1979																		
Kia	1980																		
Kia	1981																		
Kia	1982																		
Kia	1983																		
Kia	1984																		
Kia	1985																		
Kia	1986																		
Kia	1987																		
Kia	1988																		
Kia	1989																		
Kia	1990																		
Kia	1991																		
Kia	1992																		
Kia	1993	43.6																	
Kia	1994	45.3																	
Kia	1995	42.7							44.7						42.6				
Kia	1996	39.8							43.5						40.3				
Kia	1997	42.4							40.8						42.0				
Kia	1998	42.2							42.7						42.7				
Kia	1999	42.2						42.7						42.7					
Kia	2000	40.9						40.9							41.3				

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Kia	2001	41.3	45.3					40.1							40.2				
Kia	2002	44.1	43.9					40.5				50.0			40.8				
Kia	2003	44.5	48.7									50.0			43.6				
Kia	2004	43.8	49.2	45.3								52.9			44.9				
Kia	2005	43.2	48.9	46.1					50.4			53.3			46.0				
Kia	2006	52.6	50.9	46.1					50.3			53.5			46.4				
Kia	2007	52.5	53.8	50.1		51.2			49.9			53.5			49.2				
Kia	2008	52.6	54.3	50.1		52.8			50.7			53.5			49.5				
Kia	2009	54.3	54.8	50.1		51.1			51.5	53.5		53.5			51.3	52.8			
Kia	2010	55.7	58.3		52.7	51.0			50.8	53.5		55.6			51.4				
Kia	2011	55.1	61.7		53.0	50.9			60.8	53.5		60.3			58.9				
Kia	2012	57.5	62.1		51.3	52.7			60.6			60.3			57.8				
BMW	1975	28.4																	
BMW	1976	29.2																	
BMW	1977	30.5																	
BMW	1978	29.5																	
BMW	1979	30.8																	
BMW	1980	38.8																	
BMW	1981	39.1	27.6																
BMW	1982	38.7	27.6																
BMW	1983	38.6	27.6																
BMW	1984	39.4	27.6																
BMW	1985	41.0	27.6	30.4															
BMW	1986	40.8	27.6	30.4															
BMW	1987	39.2	28.6	31.3															
BMW	1988	39.1	36.8	35.5															
BMW	1989	37.9	38.4																
BMW	1990	39.0	39.9																
BMW	1991	40.7	40.3																
BMW	1992	43.5	40.2		46.4														
BMW	1993	45.8	43.6	40.7	48.5														
BMW	1994	46.0	42.5	44.2	47.0														
BMW	1995	46.6	49.5	44.2	48.8														

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
BMW	1996	46.3	43.8	49.6															
BMW	1997	44.7	50.7	50.7															
BMW	1998	44.3	50.9	50.3															
BMW	1999	45.8	49.1	50.6	47.4														
BMW	2000	44.7	49.3	50.7	46.1											43.6			
BMW	2001	45.6	47.5	50.8	47.9											46.1			
BMW	2002	47.4	44.3	53.1	49.3											50.4			
BMW	2003	47.0		53.0	49.1											50.2			
BMW	2004	47.0	45.6	53.1	48.4										48.3				
BMW	2005	47.4	45.8	52.7	49.1										47.6	53.0			
BMW	2006	48.9	48.3	52.0	52.8	52.9									43.4	52.1			
BMW	2007	51.4	49.8	51.9	53.6	53.0										53.5			
BMW	2008	51.9	52.1	52.0	53.5	55.6										54.4			
BMW	2009	53.0	52.7	52.5	53.5	55.8										56.9			
BMW	2010	53.3	52.9	54.9	53.3	55.6										59.0			
BMW	2011	54.2	66.4	56.4	53.2											63.4			
BMW	2012	58.0	69.5	56.2	53.2											61.4			
Subaru	1975	30.6			32.0														
Subaru	1976	35.4			35.1														
Subaru	1977	34.4			37.7														
Subaru	1978	37.7			34.4												34.2		
Subaru	1979	36.5			35.2												34.5		
Subaru	1980	34.7			33.4												32.5		
Subaru	1981	38.2			37.3												35.5		
Subaru	1982	40.3			40.0												37.3		
Subaru	1983	40.1			40.1												37.2		
Subaru	1984	40.4			40.4												37.4		
Subaru	1985	40.0			40.6	40.5											37.0		
Subaru	1986	40.5			40.2												37.5		
Subaru	1987	40.6			40.2												37.2		
Subaru	1988	40.7			41.9														
Subaru	1989	41.2			41.6	42.3													
Subaru	1990	41.8			44.3														

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Subaru	1991	42.0			44.9														
Subaru	1992	43.5			46.0														
Subaru	1993	43.1			45.9														
Subaru	1994	43.0			46.2														
Subaru	1995	44.6			43.7	46.6													
Subaru	1996	44.1			43.1	46.6													
Subaru	1997	45.5			44.9	47.3													
Subaru	1998	45.6			44.8	47.5								46.9					
Subaru	1999	46.9			44.0	47.5								47.3					
Subaru	2000	46.8			44.3	48.8								48.7					
Subaru	2001	48.9			44.3	53.5								48.8					
Subaru	2002	47.8			47.8	53.1								48.9					
Subaru	2003	48.3			47.4	53.0								48.2			50.9		
Subaru	2004	46.2			48.1	53.4								47.7			51.3		
Subaru	2005	46.9			50.0	50.2								50.2			52.0		
Subaru	2006	48.6			50.1	50.5								50.4	51.8		52.9		
Subaru	2007	49.7			50.0	50.8								50.2	51.8				
Subaru	2008	51.0			50.0	51.1								50.5	52.2				
Subaru	2009	51.1			50.4	50.8									50.7				
Subaru	2010	50.4	57.1		50.1										54.9				
Subaru	2011	48.9	57.7		50.0										58.3				
Subaru	2012	56.9	57.3		63.3										57.7				
Daimler	1975	38.1	30.2																
Daimler	1976	40.1	30.2																
Daimler	1977	41.3	32.2																
Daimler	1978	40.9	31.3																
Daimler	1979	44.9	30.8			49.3													
Daimler	1980	46.7	36.6			49.8													
Daimler	1981	49.2	39.0			58.5													
Daimler	1982	53.2	37.7			58.7													
Daimler	1983	54.4	39.4			58.8													
Daimler	1984	49.9	39.3			58.0													
Daimler	1985	44.4	34.2			53.8													

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Daimler	1986	38.7	41.3																
Daimler	1987	41.2	40.5			53.2													
Daimler	1988	39.2	37.6			41.5													
Daimler	1989	41.1	37.3			41.9													
Daimler	1990	41.3	39.8			42.2													
Daimler	1991	43.6	41.4			42.4													
Daimler	1992	44.0		44.0		42.5													
Daimler	1993	47.4	44.0	47.5		47.1													
Daimler	1994	47.6		52.0		49.5													
Daimler	1995	50.3		51.3		51.2													
Daimler	1996	48.9	54.0	51.1															
Daimler	1997	49.4	50.8	51.5															
Daimler	1998	51.1	55.8	51.1		54.4										48.0			
Daimler	1999	48.8	55.0	51.2		53.4									52.2	48.1			
Daimler	2000	48.7	52.8	49.6		53.5										56.3			
Daimler	2001	46.5	51.8	50.4		52.3										57.2			
Daimler	2002	46.6	49.8	49.9	51.3	50.6										47.8			
Daimler	2003	47.2	50.3	48.1	47.9	51.7									50.1	48.3			
Daimler	2004	48.6	48.4	50.0	50.5	51.3										52.0			
Daimler	2005	47.6	52.7	49.4	50.5	50.3										47.3			
Daimler	2006	48.6	58.3	50.3		50.5	56.1									52.7			
Daimler	2007	48.9	50.2	48.4		51.6	59.5									53.9			
Daimler	2008	50.5	50.6	49.2		51.6	58.4									57.4			
Daimler	2009	50.5	50.2	49.4		51.8	59.3									56.4			
Daimler	2010	51.3	52.7	49.3					53.6						50.7	57.3			
Daimler	2011	51.4	54.1	52.8		54.9			47.0						52.2	57.2			
Daimler	2012	55.5	66.7	63.0		62.5			49.3						51.7	64.2			
Mazda	1975	22.9			25.8												25.8		
Mazda	1976	32.3			31.3												28.0		
Mazda	1977	38.2			37.6												29.1	47.3	
Mazda	1978	40.9			31.0													47.7	
Mazda	1979	33.0			39.4													45.3	
Mazda	1980	33.9			37.3													43.8	

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
Mazda	1981	38.6			40.7													44.7	
Mazda	1982	37.9			41.4													46.3	
Mazda	1983	37.6			39.3													44.6	
Mazda	1984	39.7			34.1													42.7	
Mazda	1985	39.3			34.2														
Mazda	1986	40.3			36.6													41.6	
Mazda	1987	40.2			42.1													40.3	
Mazda	1988	38.9	43.3		40.3													40.0	
Mazda	1989	40.2	43.7		38.9							45.1						40.0	
Mazda	1990	42.0	44.3									40.6						40.4	
Mazda	1991	42.7	44.3									40.8			44.3			40.6	
Mazda	1992	43.2	46.4						42.8			43.5			46.2			40.6	
Mazda	1993	43.0	44.9						43.6			43.4			46.3			40.1	
Mazda	1994	43.5	44.7						42.9			43.4			44.6			44.0	
Mazda	1995	46.4	45.2									42.7						48.4	
Mazda	1996	46.4	45.6									42.9							
Mazda	1997	44.6	45.8									42.9							
Mazda	1998	46.3	44.6									42.9						45.4	
Mazda	1999	44.2	44.3															44.6	
Mazda	2000	44.9	43.8									46.2						43.8	
Mazda	2001	45.4	43.3						43.3			46.3			41.3			42.2	
Mazda	2002	46.4	43.3						44.0			47.4			41.7			44.6	
Mazda	2003	46.4	49.1						44.1			47.5			41.4			47.0	
Mazda	2004	45.6	47.9	50.5		44.4			44.2			47.5			41.4			47.0	
Mazda	2005	46.9	49.8			46.2			46.5			47.4			47.1			46.8	
Mazda	2006	48.4	50.5			47.6			47.7			47.2			47.8			48.0	
Mazda	2007	48.7	52.7			47.6			48.4						47.5	50.8		49.2	39.3
Mazda	2008	49.3	52.7						50.2		53.7				48.6	51.5		50.1	40.0
Mazda	2009	49.5	54.1						51.9		53.0				48.9	51.0		53.0	38.1
Mazda	2010	54.2	54.7						52.4		53.7				51.3	51.0			
Mazda	2011	53.4	56.0						52.3						50.5	55.1			
Mazda	2012	55.9	57.6	56.2					58.7						50.3	55.3			
All	1975	31.9	31.9	33.9	32.1	32.1	32.7	24.0	30.7		36.1	28.8	26.4	23.2	28.6	28.9	31.1	31.6	28.3

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
All	1976	34.8	36.1	36.6	35.0	36.7	36.9	21.5	33.4		34.9	30.7	28.0	24.3	31.4	31.2	33.1	34.9	30.5
All	1977	36.4	37.1	35.7	36.2	36.1	36.9	28.2	34.4		38.9	31.4	32.2	25.6	33.8	33.7	35.4	44.7	32.7
All	1978	35.6	35.5	37.2	34.6	35.8	37.3	26.4	34.2		35.0	30.5	31.2	25.0	32.3	32.8	35.9	44.4	32.3
All	1979	34.6	35.6	36.8	35.0	36.1	36.1	28.3	25.7		32.9	32.6	28.6	26.5	28.7	29.3	32.2	39.2	32.7
All	1980	35.8	36.5	39.8	37.6	37.5	43.2		34.6		34.4	35.9	37.6	29.3	34.1	37.3	34.5	38.6	37.6
All	1981	38.2	38.5	42.6	38.2	38.1	44.7		34.5		33.8	38.2	38.2	31.4	36.8	39.3	40.5	39.0	38.8
All	1982	39.6	40.2	42.1	39.6	40.3	42.6	29.5	38.3		42.1	38.3	37.0	30.2	40.2	52.7	40.4	39.5	40.1
All	1983	40.8	39.9	40.9	41.5	41.0	43.0	29.0	44.0		35.7	41.5	37.0	30.6	41.2	48.7	40.6	40.3	39.4
All	1984	41.4	40.2	41.3	42.1	41.4	43.6	28.2	40.4		42.8	39.7	36.6	35.8	39.4	45.3	40.1	40.1	38.6
All	1985	41.8	41.5	42.9	42.2	42.4	45.6		40.8		41.9	39.7	36.3	38.0	40.2	44.9	41.6	39.7	38.4
All	1986	42.4	42.1	44.5	41.3	43.6	48.3	41.1	38.9		42.6	41.5	40.8	38.2	40.1	44.5	40.9	40.4	39.3
All	1987	42.5	42.3	44.1	43.2	44.0	48.2	40.8	39.8		40.3	42.3	39.8	38.0	39.7	46.9	40.9	40.4	39.0
All	1988	43.3	44.0	45.2	43.3	44.5	49.7	40.3	39.6		41.9	43.5	41.3	37.5	39.4	46.0	40.1	40.8	40.2
All	1989	43.3	44.2	44.7	43.7	44.1	48.8	40.4	39.5		42.5	43.6	40.7	39.2	39.7	47.9	40.0	40.9	40.3
All	1990	43.5	45.3	45.0	44.9	44.4	49.2	40.4	39.0		42.6	44.2	40.7	38.9	39.1	47.8	41.2	41.4	40.8
All	1991	43.7	44.5	46.0	46.1	45.5	50.4	37.2	41.7		40.7	44.8	41.4	38.5	41.7	45.3	41.8	41.5	41.1
All	1992	44.2	45.4	46.1	46.5	46.0	51.1	36.3	40.7		43.5	45.0	43.6	37.0	40.9	43.8	41.2	41.9	42.0
All	1993	44.6	46.0	46.4	47.1	46.0	50.7	35.8	39.9		42.9	45.1	43.7	37.0	42.3	46.2	42.7	42.0	42.6
All	1994	45.4	45.7	46.4	48.1	46.0	51.6	37.6	41.3		44.0	45.0	43.8	36.8	41.7	46.2	42.0	43.9	42.5
All	1995	46.2	46.3	46.8	47.8	46.5	51.3	38.2	40.9		42.1	45.0	44.3	36.0	41.7	46.3	41.5	45.5	42.2
All	1996	46.1	46.7	47.4	46.7	48.2	52.2	42.0	41.6		44.8	47.0	44.1	41.1	42.3	47.9	41.4	46.0	43.1
All	1997	46.2	47.2	46.9	46.8	48.1		41.9	41.9			46.8	47.6	38.9	43.6	46.9	41.7	45.8	45.4
All	1998	46.9	48.1	46.5	46.2	48.2		43.3	42.7			47.7	47.2	41.4	43.4	45.6	42.5	45.1	44.6
All	1999	46.9	48.1	47.9	46.2	48.6		43.8	43.7	44.6		48.4	45.9	42.8	44.1	45.6	41.8	42.9	45.9
All	2000	47.0	48.0	48.3	45.5	48.8		41.7	43.1	42.6		49.3	44.8	43.0	44.1	47.6	43.5	43.1	45.1
All	2001	48.2	48.7	48.1	47.4	50.5		44.3	44.3	41.9		51.3	47.3	43.6	44.9	48.1	44.5	42.1	45.5
All	2002	48.5	49.3	49.0	46.1	51.1		43.9	45.1	51.3		51.5	45.3	44.6	44.7	48.2	43.5	42.7	46.7
All	2003	49.3	50.6	49.9	50.1	51.0		44.6	46.4	49.0		52.0	48.9	44.7	46.5	50.2	44.0	44.3	47.1
All	2004	49.3	52.0	50.1	51.2	51.2	52.4	45.8	48.3	48.9		53.5	51.6	44.5	47.0	50.6	42.9	44.6	49.3
All	2005	49.8	54.1	51.9	51.8	50.1	53.1	46.3	48.7	49.8		53.3	50.7	43.6	48.3	51.6	52.0	45.1	49.5
All	2006	51.4	54.0	52.4	51.3	50.6	52.6		50.2	49.8		54.7	50.1	42.2	50.8	51.8	52.9	46.3	50.3
All	2007	52.0	57.6	52.6	52.0	51.2	52.5	44.9	51.2	51.2		54.4	51.8	45.8	52.0	54.7		46.4	52.4
All	2008	52.8	58.1	54.5	53.6	51.5	54.9		52.4	52.4	53.7	56.0	52.6	47.3	53.8	55.0		47.1	54.0

Appendix N: LAB 55/45 Ton-MPG by Manufacturer, Vehicle Type and Size

Manufacturer	Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
All	2009	55.3	58.9	55.5	55.1	51.3	59.3		54.2	53.0	53.0	57.7	52.8	44.8	54.6	56.7		49.3	55.4
All	2010	56.7	65.5	55.8	56.2	54.6			56.2	60.2	53.7	57.0	53.8	46.8	56.6	57.6		49.9	56.3
All	2011	56.8	63.2	58.4	57.2	55.2			56.9	61.0		59.5	53.3		56.5	60.2		49.9	56.4
All	2012	60.4	65.4	58.8	56.7	101.3			58.1	63.3		59.4	52.9		57.5	59.6		50.6	57.3

Appendix N: Production Fraction by Vehicle Type and Size

Model Year	Small Cars	Midsize Cars	Large Cars	Small Wagons	Midsize Wagons	Large Wagons	Small Non-Truck SUVs	Midsize Non-Truck SUVs	Large Non-Truck SUVs	Small Vans	Midsize Vans	Large Vans	Small Truck SUVs	Midsize Truck SUVs	Large Truck SUVs	Small Pickups	Midsize Pickups	Large Pickups
1975	40.0%	16.0%	15.2%	4.7%	2.8%	1.9%	0.1%	0.0%		0.0%	3.0%	1.5%	0.5%	1.2%	0.1%	1.6%	0.5%	11.0%
1976	40.9%	15.9%	13.6%	2.8%	3.9%	1.7%	0.1%	0.0%		0.0%	2.5%	1.6%	0.4%	1.3%	0.1%	1.4%	0.4%	13.3%
1977	38.8%	15.8%	16.4%	2.7%	3.9%	2.4%	0.1%	0.0%		0.0%	2.2%	1.4%	0.4%	1.3%	0.1%	1.7%	0.5%	12.2%
1978	32.0%	23.1%	14.2%	2.5%	3.5%	2.0%	0.1%	0.0%		0.0%	2.8%	1.5%	0.5%	1.8%	0.1%	1.8%	0.5%	13.3%
1979	31.7%	23.1%	15.2%	2.2%	3.5%	2.0%	0.1%	0.0%		0.1%	2.3%	1.1%	0.7%	1.3%	0.8%	2.6%	0.7%	12.6%
1980	42.7%	26.4%	8.5%	2.7%	2.3%	0.9%		0.0%		0.1%	1.1%	0.8%	0.5%	0.9%	0.2%	4.0%	0.9%	7.8%
1981	38.6%	27.5%	9.1%	4.0%	2.6%	1.0%		0.0%		0.1%	1.3%	0.9%	0.4%	0.7%	0.1%	3.5%	1.2%	8.9%
1982	41.5%	21.9%	8.5%	3.9%	2.9%	1.5%	0.1%	0.0%		0.2%	1.9%	1.2%	0.3%	1.0%	0.2%	3.6%	3.2%	8.0%
1983	36.1%	22.0%	10.5%	5.2%	2.7%	1.3%	0.1%	0.2%		0.1%	2.2%	1.3%	0.4%	1.8%	0.3%	3.0%	6.0%	6.7%
1984	40.4%	19.8%	8.8%	3.3%	2.6%	1.3%	0.0%	0.4%		0.6%	3.0%	1.2%	1.0%	2.7%	0.3%	3.0%	5.0%	6.5%
1985	38.2%	19.2%	10.5%	3.4%	2.4%	1.0%		0.6%		0.6%	4.1%	1.1%	0.8%	3.3%	0.4%	3.4%	4.3%	6.7%
1986	40.4%	17.4%	8.2%	2.3%	2.7%	0.8%	0.0%	0.4%		0.7%	5.1%	1.0%	1.2%	3.1%	0.4%	4.8%	5.1%	6.5%
1987	43.4%	15.2%	8.2%	2.4%	2.4%	0.6%	0.2%	0.5%		0.8%	5.7%	0.9%	1.6%	3.3%	0.4%	3.0%	7.1%	4.4%
1988	43.8%	13.8%	8.5%	1.7%	1.9%	0.5%	0.3%	0.5%		0.4%	6.2%	0.9%	1.6%	3.5%	0.5%	2.2%	6.9%	7.0%
1989	39.3%	17.9%	8.9%	1.1%	1.7%	0.4%	0.2%	0.5%		0.2%	7.6%	1.0%	1.3%	3.8%	0.5%	2.5%	6.1%	6.8%
1990	39.6%	18.6%	8.7%	1.3%	1.5%	0.2%	0.2%	0.3%		0.2%	8.9%	0.9%	1.3%	3.2%	0.6%	2.3%	4.8%	7.5%
1991	40.0%	16.8%	8.0%	1.7%	1.0%	0.3%	0.4%	1.4%		0.1%	7.5%	0.6%	0.7%	5.8%	0.4%	2.5%	6.9%	5.9%
1992	36.5%	17.4%	10.2%	1.2%	1.1%	0.2%	0.4%	1.6%		0.3%	8.9%	0.8%	0.7%	5.0%	0.6%	2.1%	5.9%	7.2%
1993	34.3%	17.6%	8.4%	2.3%	1.3%	0.1%	0.4%	3.2%		0.1%	10.0%	0.8%	0.7%	4.6%	1.0%	2.0%	5.6%	7.5%
1994	33.4%	14.6%	9.0%	1.5%	1.0%	0.1%	0.4%	1.9%		0.1%	9.2%	0.8%	0.9%	7.0%	1.2%	2.5%	7.4%	9.0%
1995	34.3%	16.6%	8.6%	1.3%	1.2%	0.1%	0.2%	1.3%		0.0%	10.2%	0.7%	1.1%	7.9%	1.5%	2.0%	4.6%	8.4%
1996	31.9%	17.9%	8.1%	0.7%	1.3%	0.1%	0.3%	1.9%		0.0%	9.9%	0.8%	0.6%	9.8%	1.8%	1.7%	5.3%	7.9%
1997	30.7%	16.6%	8.3%	1.0%	1.0%		1.0%	1.5%			7.8%	1.0%	2.4%	8.2%	3.9%	0.9%	4.8%	11.0%
1998	26.6%	20.5%	6.3%	0.7%	1.1%		0.6%	2.6%			9.4%	0.9%	1.6%	8.7%	4.4%	1.8%	5.7%	9.2%
1999	25.7%	20.6%	7.0%	0.5%	1.2%		0.4%	2.7%	0.0%		8.5%	1.1%	1.6%	8.8%	4.9%	1.4%	5.0%	10.3%
2000	25.7%	17.5%	10.0%	0.4%	1.4%		0.8%	2.9%	0.0%		9.2%	1.0%	1.6%	8.3%	5.3%	0.6%	4.6%	10.5%
2001	26.0%	15.9%	9.1%	1.4%	1.5%		0.9%	3.6%	0.3%		6.0%	1.9%	1.6%	8.9%	6.9%	0.5%	3.5%	12.1%
2002	23.6%	17.4%	7.8%	1.5%	1.3%		0.7%	2.8%	0.2%		7.0%	0.7%	1.5%	8.4%	12.4%	1.2%	2.9%	10.7%
2003	23.3%	15.7%	8.0%	2.1%	1.1%		0.4%	3.0%	0.2%		7.1%	0.7%	1.3%	10.4%	10.9%	1.2%	3.3%	11.1%
2004	20.8%	16.1%	7.5%	1.9%	1.0%	0.6%	0.3%	3.2%	0.6%		5.7%	0.4%	1.3%	12.7%	11.9%	1.0%	2.4%	12.5%
2005	20.0%	18.2%	7.8%	2.3%	1.5%	0.7%	0.3%	3.0%	1.9%		9.0%	0.3%	1.1%	10.1%	9.4%	0.1%	1.4%	13.1%
2006	21.2%	16.0%	10.4%	3.3%	1.5%	0.7%		3.3%	1.7%		7.3%	0.5%	0.9%	10.7%	8.3%	0.0%	1.8%	12.6%
2007	21.0%	20.2%	7.7%	2.5%	1.0%	0.5%	0.0%	4.0%	2.0%		5.3%	0.2%	0.9%	10.1%	10.7%		1.7%	12.1%
2008	20.5%	17.9%	10.1%	3.0%	1.0%	0.2%		4.8%	1.8%	0.1%	5.4%	0.2%	1.1%	11.3%	9.7%		2.0%	10.9%
2009	24.2%	20.7%	10.3%	4.6%	0.7%	0.0%		4.9%	1.6%	0.2%	3.6%	0.2%	0.6%	10.4%	7.4%		2.0%	8.6%
2010	22.6%	20.4%	7.5%	4.0%	0.1%			4.8%	3.4%	0.2%	4.7%	0.1%	0.9%	11.8%	8.1%		1.4%	10.1%
2011	15.40%	20.70%	8.70%	3.00%	0.00%			6.20%	3.90%		4.20%	0.10%		13.90%	11.60%		0.20%	12.10%
2012	25.10%	21.70%	6.20%	3.60%	0.30%			4.00%	2.90%		4.90%	0.20%		10.30%	10.60%		0.20%	9.80%

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix O MY 2012 Fuel Economy by Vehicle Type, Weight and Manufacturer

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report

Appendix O: MY2012 Fuel Economy by Vehicle Type, Weight and Manufacturer

Car or Truck	Vehicle Type	Weight	GM	Toyota	Honda	Ford	Nissan	Chrysler- Fiat	VW	BMW	Subaru	Daimler	Mazda	All
Car	Car	2000										50.3		50.3
Car	Car	2250		52.3										52.3
Car	Car	2500		43.3			40.5	44.5					41.3	43.1
Car	Car	2750		70.7		44.2	45.1	39.9		42.2			31.0	44.4
Car	Car	3000	39.4	39.0	44.9	41.6	38.3		33.3	39.4	37.7		38.6	40.9
Car	Car	3500	35.2	41.7	34.7	33.6	34.0	31.1	34.2	33.2	32.6	32.0	32.1	35.6
Car	Car	4000	28.3	31.8	30.2	28.7	28.4	29.0	29.7	30.1	26.2	27.3	26.5	28.9
Car	Car	4500	23.1	24.7	25.7	25.6	26.5	23.5	26.8	27.4		27.6		25.1
Car	Car	5000		23.7					20.4	22.3		24.7		23.4
Car	Car	5500		26.9					17.3	19.7		18.5		19.3
Car	Car	6000							16.8	17.3				16.9
Car	Car	6500										15.5		15.5
Car	Car	7000												
Car	Car	8000												
Car	Car	All	31.5	40.4	37.9	36.1	34.6	30.7	32.7	30.9	32.7	28.7	34.7	35.1

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data.

2012 FE Trends Report

Appendix O: MY2012 Fuel Economy by Vehicle Type, Weight and Manufacturer

Car or Truck	Vehicle Type	Weight	GM	Toyota	Honda	Ford	Nissan	Chrysler- Fiat	VW	BMW	Subaru	Daimler	Mazda	All
Car	Wagon	2000												
Car	Wagon	2250												
Car	Wagon	2500												
Car	Wagon	2750			40.8									40.8
Car	Wagon	3000		36.7			38.1	35.7			39.2			35.3
Car	Wagon	3500		42.5			36.4	32.3	41.6		37.4			39.1
Car	Wagon	4000	28.1		32.5		25.4		30.9	26.6				28.2
Car	Wagon	4500	25.6									27.7		26.2
Car	Wagon	5000												
Car	Wagon	5500												
Car	Wagon	6000												
Car	Wagon	6500												
Car	Wagon	7000												
Car	Wagon	8000												
Car	Wagon	All	27.1	42.1	40.3		35.9	32.6	40.1	26.6	38.2	27.7		36.7

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data.

2012 FE Trends Report

Appendix O: MY2012 Fuel Economy by Vehicle Type, Weight and Manufacturer

Car or Truck	Vehicle Type	Weight	GM	Toyota	Honda	Ford	Nissan	Chrysler- Fiat	VW	BMW	Subaru	Daimler	Mazda	All
Car	Non-Truck SUV	2000												
Car	Non-Truck SUV	2250												
Car	Non-Truck SUV	2500												
Car	Non-Truck SUV	2750												
Car	Non-Truck SUV	3000												
Car	Non-Truck SUV	3500		31.8	34.2	29.6	33.1							32.0
Car	Non-Truck SUV	4000	32.5	29.6	27.5	33.6	26.6					23.6	29.3	31.4
Car	Non-Truck SUV	4500	25.1	26.9		28.5	23.8					23.6		26.2
Car	Non-Truck SUV	5000	23.3	40.4										32.9
Car	Non-Truck SUV	5500												
Car	Non-Truck SUV	6000												
Car	Non-Truck SUV	6500												
Car	Non-Truck SUV	7000												
Car	Non-Truck SUV	8000												
Car	Non-Truck SUV	All	30.9	30.1	33.7	29.5	29.7					23.6	29.3	30.6

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data.

2012 FE Trends Report

Appendix O: MY2012 Fuel Economy by Vehicle Type, Weight and Manufacturer

Car or Truck	Vehicle Type	Weight	GM	Toyota	Honda	Ford	Nissan	Chrysler- Fiat	VW	BMW	Subaru	Daimler	Mazda	All
Car	All	2000										50.3		50.3
Car	All	2250		52.3										52.3
Car	All	2500		43.3			40.5	44.5					41.3	43.1
Car	All	2750		70.7	40.8	44.2	45.1	39.9		42.2			31.0	43.9
Car	All	3000	39.4	38.9	44.9	41.6	38.3	35.7	33.3	39.4	38.7		38.6	40.1
Car	All	3500	35.2	40.9	34.6	32.5	34.0	31.2	34.8	33.2	34.3	32.0	32.1	35.4
Car	All	4000	29.7	31.4	30.2	29.0	28.0	29.0	29.8	30.1	26.2	26.8	28.6	29.5
Car	All	4500	24.2	26.4	25.7	27.7	25.7	23.5	26.8	27.4		27.3		25.5
Car	All	5000	23.3	28.5					20.4	22.3		24.7		24.6
Car	All	5500		26.9					17.3	19.7		18.5		19.3
Car	All	6000							16.8	17.3				16.9
Car	All	6500										15.5		15.5
Car	All	7000												
Car	All	8000												
Car	All	All	31.4	39.4	37.7	35.1	34.3	30.8	33.2	30.9	35.0	28.3	34.5	34.6

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data.

2012 FE Trends Report

Appendix O: MY2012 Fuel Economy by Vehicle Type, Weight and Manufacturer

Car or Truck	Vehicle Type	Weight	GM	Toyota	Honda	Ford	Nissan	Chrysler- Fiat	VW	BMW	Subaru	Daimler	Mazda	All
Truck	Van	2000												
Truck	Van	2250												
Truck	Van	2500												
Truck	Van	2750												
Truck	Van	3000												
Truck	Van	3500				30.6								30.6
Truck	Van	4000												
Truck	Van	4500		26.8	27.8		27.2	25.9						26.6
Truck	Van	5000	21.7	24.7										22.1
Truck	Van	5500	18.7			17.9								18.5
Truck	Van	6000	18.3			17.3								17.6
Truck	Van	6500	16.1			15.9								15.9
Truck	Van	7000	15.2			14.1								14.8
Truck	Van	8000	14.5											14.5
Truck	Van	All	20.0	26.6	27.8	27.3	27.2	25.9						26.3

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data.

2012 FE Trends Report

Appendix O: MY2012 Fuel Economy by Vehicle Type, Weight and Manufacturer

Car or Truck	Vehicle Type	Weight	GM	Toyota	Honda	Ford	Nissan	Chrysler- Fiat	VW	BMW	Subaru	Daimler	Mazda	All
Truck	Truck SUV	2000												
Truck	Truck SUV	2250												
Truck	Truck SUV	2500												
Truck	Truck SUV	2750												
Truck	Truck SUV	3000												
Truck	Truck SUV	3500			33.0	29.9	31.1	30.6			30.1			30.9
Truck	Truck SUV	4000	23.9	30.0	30.4	26.7	30.1	24.2	30.9		31.2		25.1	29.0
Truck	Truck SUV	4500		25.4	26.0	26.6	24.9	23.4	27.6	27.9	23.4	23.0	24.6	24.9
Truck	Truck SUV	5000	24.3	28.4	23.5	24.3	21.2	23.8	26.1	24.0		25.1		24.4
Truck	Truck SUV	5500		22.0				19.4	23.5	22.1		26.1		20.6
Truck	Truck SUV	6000	22.2	19.5		20.5	19.3		25.1			20.1		21.4
Truck	Truck SUV	6500	18.4	18.6		19.0								18.8
Truck	Truck SUV	7000	15.4											15.4
Truck	Truck SUV	8000												
Truck	Truck SUV	All	23.0	26.7	28.4	24.6	26.7	23.8	28.0	24.6	30.5	22.5	24.6	25.4

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data.

2012 FE Trends Report

Appendix O: MY2012 Fuel Economy by Vehicle Type, Weight and Manufacturer

Car or Truck	Vehicle Type	Weight	GM	Toyota	Honda	Ford	Nissan	Chrysler- Fiat	VW	BMW	Subaru	Daimler	Mazda	All
Truck	Pickup	2000												
Truck	Pickup	2250												
Truck	Pickup	2500												
Truck	Pickup	2750												
Truck	Pickup	3000												
Truck	Pickup	3500	26.8	28.5										27.5
Truck	Pickup	4000	24.3	25.7			25.1							25.0
Truck	Pickup	4500	21.9	23.1			21.5	20.9						22.4
Truck	Pickup	5000	21.3	22.7	22.6	23.7	20.0	20.8						22.0
Truck	Pickup	5500	21.1	20.5		22.9	18.8	20.1						21.0
Truck	Pickup	6000	20.5	19.0		21.3	17.8							20.6
Truck	Pickup	6500				16.8								16.8
Truck	Pickup	7000												
Truck	Pickup	8000												
Truck	Pickup	All	21.6	21.9	22.6	21.8	20.6	20.2						21.5

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data.

2012 FE Trends Report

Appendix O: MY2012 Fuel Economy by Vehicle Type, Weight and Manufacturer

Car or Truck	Vehicle Type	Weight	GM	Toyota	Honda	Ford	Nissan	Chrysler- Fiat	VW	BMW	Subaru	Daimler	Mazda	All
Truck	All	2000												
Truck	All	2250												
Truck	All	2500												
Truck	All	2750												
Truck	All	3000												
Truck	All	3500	26.8	28.5	33.0	30.3	31.1	30.6			30.1			30.6
Truck	All	4000	24.3	28.6	30.4	26.7	29.4	24.2	30.9		31.2		25.1	28.3
Truck	All	4500	21.9	25.3	27.0	26.6	25.5	24.7	27.6	27.9	23.4	23.0	24.6	25.3
Truck	All	5000	23.4	26.7	23.2	24.0	20.8	23.5	26.1	24.0		25.1		23.7
Truck	All	5500	21.0	20.8		22.8	18.8	19.8	23.5	22.1		26.1		20.9
Truck	All	6000	22.0	19.0		21.1	18.9		25.1			20.1		20.9
Truck	All	6500	18.4	18.6		18.3								18.3
Truck	All	7000	15.4			14.1								15.3
Truck	All	8000	14.5											14.5
Truck	All	All	22.2	24.8	28.0	23.3	25.5	23.8	28.0	24.6	30.5	22.5	24.6	24.3

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data.

2012 FE Trends Report

Appendix O: MY2012 Fuel Economy by Vehicle Type, Weight and Manufacturer

Car or Truck	Vehicle Type	Weight	GM	Toyota	Honda	Ford	Nissan	Chrysler- Fiat	VW	BMW	Subaru	Daimler	Mazda	All
All	All	2000										50.3		50.3
All	All	2250		52.3										52.3
All	All	2500		43.3			40.5	44.5					41.3	43.1
All	All	2750		70.7	40.8	44.2	45.1	39.9		42.2			31.0	43.9
All	All	3000	39.4	38.9	44.9	41.6	38.3	35.7	33.3	39.4	38.7		38.6	40.1
All	All	3500	34.9	40.6	34.3	32.1	33.6	31.0	34.8	33.2	31.9	32.0	32.1	34.8
All	All	4000	29.3	29.8	30.3	28.5	28.4	27.3	30.1	30.1	30.9	26.8	28.1	29.1
All	All	4500	23.5	25.4	27.0	27.0	25.6	24.5	27.2	27.5	23.4	26.2	24.6	25.3
All	All	5000	23.4	26.9	23.2	24.0	20.8	23.5	26.0	23.4		24.9		23.8
All	All	5500	21.0	20.8		22.8	18.8	19.8	22.0	21.9		26.0		20.9
All	All	6000	22.0	19.0		21.1	18.9		23.3	17.3		20.1		20.9
All	All	6500	18.4	18.6		18.3						15.5		18.3
All	All	7000	15.4			14.1								15.3
All	All	8000	14.5											14.5
All	All	All	26.7	32.8	33.5	29.3	31.4	25.7	32.3	29.1	32.1	26.7	33.0	30.0

*Note: Two manufacturers, Hyundai and Kia, are not included in the table above due to a continuing investigation. On November 2, 2012, EPA announced that Hyundai and Kia would lower their fuel economy estimates for many vehicle models as the result of an EPA investigation of test data.

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Appendix P Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
GM	Car	Car	1975	15.1	11.9	14.4	12.9	4492		344	151	14.0	0.448	0.0334	34.1			2.6%	
GM	Car	Car	1976	16.7	13.1	15.8	14.2	4378		329	148	14.0	0.460	0.0334	36.5			2.8%	
GM	Car	Car	1977	17.8	14.1	16.7	15.2	4162	113.1	314	145	13.6	0.466	0.0346	37.2	2037	4207	2.5%	
GM	Car	Car	1978	19.1	15.0	18.3	16.3	3761	112.2	288	135	13.3	0.477	0.0356	36.2	2184	4069	2.6%	
GM	Car	Car	1979	19.3	15.3	18.0	16.4	3728	112.3	283	136	13.2	0.494	0.0361	36.2	2205	4077	4.4%	
GM	Car	Car	1980	22.0	17.1	21.2	18.7	3356	109.9	223	113	13.8	0.541	0.0337	37.0	2450	4083	28.6%	
GM	Car	Car	1981	23.3	18.0	22.8	19.9	3418	112.4	224	110	14.3	0.524	0.0322	39.9	2655	4514	26.8%	
GM	Car	Car	1982	24.5	18.6	24.6	20.9	3329	111.4	210	110	14.2	0.557	0.0329	41.0	2777	4588	38.9%	
GM	Car	Car	1983	23.5	17.9	23.8	20.1	3428	114.3	222	117	13.8	0.551	0.0338	40.6	2733	4643	37.6%	
GM	Car	Car	1984	24.4	18.5	24.7	20.9	3329	109.5	210	115	13.6	0.578	0.0344	40.9	2718	4483	42.2%	
GM	Car	Car	1985	25.6	19.2	26.2	21.9	3302	111.5	208	117	13.4	0.590	0.0351	42.4	2900	4736	60.1%	
GM	Car	Car	1986	27.1	20.3	27.8	23.1	3144	109.0	190	115	13.1	0.635	0.0362	42.9	3019	4685	72.0%	
GM	Car	Car	1987	27.4	20.3	28.1	23.3	3162	109.7	191	123	12.6	0.668	0.0383	43.5	3059	4772	77.7%	
GM	Car	Car	1988	28.2	20.7	28.9	23.9	3137	109.8	180	122	12.5	0.704	0.0384	44.4	3152	4888	89.0%	
GM	Car	Car	1989	27.5	20.0	28.3	23.3	3173	110.6	186	133	11.8	0.735	0.0415	43.8	3089	4848	89.8%	0.0%
GM	Car	Car	1990	27.3	19.7	28.3	23.0	3245	109.8	183	136	11.8	0.772	0.0417	44.4	3033	4884	94.9%	0.1%
GM	Car	Car	1991	27.2	19.4	28.1	22.9	3236	109.1	187	139	11.6	0.771	0.0423	44.1	3011	4824	88.7%	0.0%
GM	Car	Car	1992	26.7	18.9	27.8	22.4	3296	110.0	192	146	11.3	0.791	0.0437	44.1	2982	4868	91.7%	0.0%
GM	Car	Car	1993	27.3	19.3	28.0	22.9	3262	109.8	189	146	11.2	0.802	0.0443	44.7	3045	4919	93.6%	
GM	Car	Car	1994	27.5	19.3	27.9	22.9	3274	108.8	186	149	11.2	0.822	0.0446	45.1	3040	4921	89.6%	
GM	Car	Car	1995	27.3	19.0	27.9	22.7	3337	111.1	191	165	10.3	0.882	0.0488	45.7	3075	5080	90.8%	
GM	Car	Car	1996	27.9	19.3	28.3	23.1	3336	109.9	188	167	10.3	0.898	0.0494	46.5	3084	5122	92.3%	
GM	Car	Car	1997	28.1	19.4	28.3	23.2	3305	110.0	183	169	10.2	0.923	0.0501	46.5	3114	5119	96.3%	
GM	Car	Car	1998	27.5	18.8	27.6	22.7	3369	111.5	192	174	10.1	0.914	0.0509	46.4	3092	5178	95.5%	
GM	Car	Car	1999	27.4	18.7	27.3	22.5	3405	110.7	190	171	10.3	0.905	0.0496	46.7	3059	5177	95.3%	
GM	Car	Car	2000	27.6	18.6	27.6	22.6	3455	111.7	193	175	10.2	0.909	0.0500	47.6	3095	5330	92.7%	
GM	Car	Car	2001	28.1	18.9	27.8	22.9	3449	112.0	191	178	10.0	0.936	0.0511	48.5	3168	5443	94.0%	
GM	Car	Car	2002	28.5	19.1	27.8	23.1	3405	111.7	195	178	9.9	0.928	0.0517	48.6	3208	5442	95.1%	
GM	Car	Car	2003	28.4	18.8	27.8	23.0	3486	113.3	194	182	9.8	0.951	0.0520	49.5	3230	5623	94.4%	
GM	Car	Car	2004	28.9	19.0	28.4	23.4	3422	112.2	193	183	9.7	0.962	0.0529	49.5	3272	5574	94.3%	
GM	Car	Car	2005	28.8	18.8	28.1	23.2	3489	112.1	196	189	9.6	0.976	0.0537	50.3	3260	5660	91.2%	0.2%
GM	Car	Car	2006	28.3	18.5	27.5	22.7	3582	110.8	202	203	9.3	1.014	0.0561	50.7	3164	5659	89.9%	0.6%
GM	Car	Car	2007	28.6	18.7	27.7	23.0	3579	108.6	193	197	9.5	1.039	0.0546	51.4	3143	5619	90.1%	0.5%
GM	Car	Car	2008	28.3	18.5	27.5	22.7	3671	109.6	197	207	9.4	1.071	0.0560	52.1	3134	5742	88.4%	2.0%
GM	Car	Car	2009	29.7	19.4	28.5	23.8	3611	109.6	184	201	9.5	1.106	0.0551	54.0	3311	5944	88.1%	2.3%
GM	Car	Car	2010	29.5	19.2	28.8	23.7	3686	110.5	197	225	9.0	1.146	0.0601	54.7	3317	6071	77.4%	2.6%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
GM	Car	Car	1975	6.5%				2.3%									42.8%	25.4%	31.7%
GM	Car	Car	1976	6.9%				1.8%									45.8%	26.7%	27.5%
GM	Car	Car	1977	4.0%				1.3%									41.4%	25.6%	33.0%
GM	Car	Car	1978	5.9%				2.0%		0.6%							31.4%	36.4%	32.3%
GM	Car	Car	1979	6.6%	5.9%			2.2%		2.8%							28.1%	39.3%	32.6%
GM	Car	Car	1980	13.4%	18.0%			0.4%	1.0%	4.1%							32.1%	51.2%	16.7%
GM	Car	Car	1981	9.6%	57.7%				4.0%	7.4%							27.4%	53.6%	19.0%
GM	Car	Car	1982	9.1%	90.7%				22.3%	6.1%							36.0%	44.6%	19.5%
GM	Car	Car	1983	6.7%	93.1%			0.2%	28.7%	2.1%							26.0%	47.8%	26.2%
GM	Car	Car	1984	9.1%	90.7%			1.0%	33.1%	0.8%							36.6%	42.9%	20.5%
GM	Car	Car	1985	6.6%	92.5%			18.0%	36.0%	0.2%							33.4%	40.5%	26.2%
GM	Car	Car	1986	9.6%	88.3%			27.2%	38.3%	0.0%	100.0%						42.5%	35.9%	21.6%
GM	Car	Car	1987	7.9%	89.8%			38.4%	38.7%		100.0%						42.2%	31.7%	26.1%
GM	Car	Car	1988	10.2%	87.9%			50.8%	37.7%		96.7%		3.3%				50.7%	27.1%	22.1%
GM	Car	Car	1989	8.1%	90.3%			56.6%	40.0%		94.6%		5.4%				40.9%	34.2%	24.9%
GM	Car	Car	1990	7.8%	91.2%			68.3%	31.3%		87.8%	1.9%	10.3%				39.9%	37.3%	22.8%
GM	Car	Car	1991	10.1%	87.4%			56.9%	43.1%		91.3%	2.8%	5.9%				45.0%	33.3%	21.7%
GM	Car	Car	1992	9.0%	88.1%			81.6%	18.4%		89.0%	2.0%	9.0%				45.2%	28.9%	25.9%
GM	Car	Car	1993	10.1%	88.3%			85.4%	14.6%		88.3%	1.6%	10.1%				48.0%	29.6%	22.4%
GM	Car	Car	1994	10.6%	87.9%			93.0%	7.0%		87.0%		13.0%				53.0%	25.5%	21.5%
GM	Car	Car	1995	8.7%	90.1%			97.5%	2.5%		79.9%		20.1%				46.5%	32.6%	20.9%
GM	Car	Car	1996	8.7%	91.3%			100.0%			75.3%		24.7%				50.3%	31.8%	18.0%
GM	Car	Car	1997	8.2%	90.0%			97.5%	2.5%		72.0%		28.0%				48.0%	32.2%	19.8%
GM	Car	Car	1998	6.5%	92.7%			99.5%	0.5%		76.1%		23.9%				38.3%	43.7%	18.0%
GM	Car	Car	1999	5.8%	93.5%			99.7%	0.3%		71.0%		29.0%				45.9%	39.7%	14.5%
GM	Car	Car	2000	4.4%	94.6%			99.8%	0.2%		76.8%		23.2%		1.6%		41.9%	33.5%	24.5%
GM	Car	Car	2001	4.7%	94.6%			100.0%			73.1%		26.9%		2.3%		40.4%	36.9%	22.7%
GM	Car	Car	2002	5.8%	94.2%			100.0%			75.2%		24.8%		1.3%		42.8%	33.0%	24.2%
GM	Car	Car	2003	3.7%	95.8%	0.5%		100.0%			62.2%		37.8%				34.4%	36.9%	28.7%
GM	Car	Car	2004	5.3%	94.0%	0.7%		100.0%			57.1%		42.9%		3.0%		39.3%	31.7%	28.9%
GM	Car	Car	2005	4.8%	95.2%			100.0%			60.4%		39.6%		6.6%		34.9%	36.6%	28.4%
GM	Car	Car	2006	6.4%	93.6%			100.0%			58.9%		41.1%		18.1%		40.3%	30.3%	29.4%
GM	Car	Car	2007	6.2%	93.8%		0.3%	99.7%			54.0%		46.0%		46.8%	0.1%	44.2%	27.5%	28.2%
GM	Car	Car	2008	4.6%	95.4%		3.3%	96.7%			49.9%		50.1%		59.5%	0.2%	36.6%	30.3%	33.1%
GM	Car	Car	2009	5.0%	95.0%		3.4%	96.6%			36.3%		63.7%		76.0%	0.6%	38.8%	31.9%	29.3%
GM	Car	Car	2010	6.8%	93.2%		19.4%	80.6%			32.8%		67.2%		92.5%	0.1%	39.4%	36.3%	24.4%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
GM	Car	Car	2011	29.9	19.4	29.4	24.1	3773	112.4	179	214	9.6	1.240	0.0558	56.9	3426	6411	81.3%	3.2%
GM	Car	Car	2012	31.5	20.3	31.2	25.3	3711	110.3	169	223	9.3	1.348	0.0591	59.6	3589	6589	78.2%	2.1%
GM	Car	Wagon	1975	14.6	11.4	14.1	12.5	4594		327	150	14.4	0.477	0.0319	33.7				
GM	Car	Wagon	1976	15.6	12.2	14.8	13.2	4723		336	154	14.4	0.473	0.0319	36.6				
GM	Car	Wagon	1977	16.9	13.5	15.6	14.4	4490	152.6	325	150	13.9	0.469	0.0332	38.1	2606	5812		
GM	Car	Wagon	1978	17.9	14.0	17.0	15.2	4122	149.2	299	142	13.7	0.475	0.0341	37.0	2682	5514		
GM	Car	Wagon	1979	17.8	14.2	16.4	15.1	4099	148.4	292	139	13.7	0.479	0.0339	36.6	2659	5429		
GM	Car	Wagon	1980	20.2	15.7	19.5	17.2	4038	148.5	284	123	15.0	0.443	0.0306	41.4	3048	6172		
GM	Car	Wagon	1981	21.1	16.2	20.9	18.0	4125	150.8	287	123	15.2	0.441	0.0301	44.1	3226	6680		
GM	Car	Wagon	1982	21.7	16.5	21.9	18.6	3814	145.1	248	121	14.5	0.522	0.0317	41.6	3202	6056	19.4%	
GM	Car	Wagon	1983	22.8	17.3	22.9	19.5	3669	142.0	230	118	14.3	0.550	0.0319	41.8	3290	5961	31.0%	
GM	Car	Wagon	1984	24.2	18.3	24.4	20.6	3531	140.7	195	113	14.3	0.621	0.0319	42.6	3458	6015	70.3%	
GM	Car	Wagon	1985	24.4	18.3	25.1	20.9	3611	142.2	202	117	14.2	0.612	0.0324	43.9	3506	6275	70.3%	
GM	Car	Wagon	1986	25.4	19.0	26.0	21.6	3584	141.9	197	114	14.4	0.615	0.0319	45.2	3621	6454	71.8%	
GM	Car	Wagon	1987	25.7	19.1	26.2	21.9	3615	142.7	205	121	13.7	0.633	0.0337	46.2	3695	6629	68.9%	
GM	Car	Wagon	1988	26.5	19.5	27.4	22.5	3645	143.2	209	124	13.6	0.631	0.0342	48.1	3821	6921	68.2%	
GM	Car	Wagon	1989	26.0	19.0	26.6	22.0	3643	142.8	208	128	13.3	0.653	0.0353	47.1	3737	6763	69.5%	
GM	Car	Wagon	1990	26.3	18.9	27.4	22.2	3617	140.8	206	132	12.9	0.674	0.0369	47.4	3710	6695	76.3%	
GM	Car	Wagon	1991	25.5	18.2	26.5	21.5	3784	147.0	228	144	12.6	0.659	0.0380	48.0	3746	7125	55.0%	
GM	Car	Wagon	1992	25.1	17.8	26.2	21.1	3825	148.0	250	155	11.8	0.668	0.0407	47.8	3711	7144	52.5%	
GM	Car	Wagon	1993	26.7	18.9	27.5	22.4	3500	139.0	210	143	11.7	0.752	0.0411	46.4	3718	6516	70.7%	
GM	Car	Wagon	1994	27.2	19.2	27.5	22.7	3432	136.8	198	156	11.1	0.829	0.0445	46.5	3736	6423	76.0%	
GM	Car	Wagon	1995	27.6	19.1	28.4	22.9	3431	137.4	197	164	10.6	0.880	0.0467	47.1	3807	6511	76.8%	
GM	Car	Wagon	1996	28.0	19.3	28.6	23.2	3428	137.5	197	166	10.5	0.889	0.0474	47.7	3860	6606	77.5%	
GM	Car	Wagon	1997	33.5	23.3	32.6	27.4	2749	119.9	116	119	11.2	1.027	0.0433	46.1	4024	5530	100.0%	
GM	Car	Wagon	1998	33.9	23.4	32.8	27.6	2749	116.7	116	117	11.4	1.007	0.0425	46.7	3964	5448	100.0%	
GM	Car	Wagon	1999	34.5	23.6	33.3	28.0	2749	116.7	116	119	11.2	1.023	0.0432	47.5	4035	5545	100.0%	
GM	Car	Wagon	2000	29.6	20.3	28.5	24.0	3210	123.7	145	149	10.7	1.031	0.0463	47.6	3702	5891	100.0%	
GM	Car	Wagon	2001	30.4	20.7	29.0	24.5	3274	126.6	147	149	10.8	1.022	0.0455	49.8	3864	6317	100.0%	
GM	Car	Wagon	2002	28.7	19.5	27.1	23.1	3500	131.5	156	158	10.9	1.014	0.0453	50.3	3777	6610	100.0%	
GM	Car	Wagon	2003	34.2	23.7	30.0	26.9	3047	113.4	114	136	11.0	1.197	0.0447	52.3	3889	5922	85.4%	14.6%
GM	Car	Wagon	2004	35.1	24.1	30.5	27.3	3017	118.8	112	132	11.1	1.178	0.0436	53.0	4175	6296	87.3%	12.7%
GM	Car	Wagon	2005	35.3	24.0	30.7	27.4	3043	116.5	116	135	11.0	1.172	0.0443	53.9	4139	6277	100.0%	
GM	Car	Wagon	2006	31.8	21.3	28.9	25.0	3345	124.1	130	148	11.1	1.132	0.0440	53.3	3963	6607	96.9%	3.1%
GM	Car	Wagon	2007	31.4	21.1	28.5	24.8	3375	121.1	131	147	11.2	1.120	0.0434	53.1	3827	6432	100.0%	
GM	Car	Wagon	2008	33.3	22.3	30.1	26.1	3408	121.5	131	154	10.9	1.173	0.0450	56.8	4059	6898	100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
GM	Car	Car	2011	4.6%	95.4%		24.6%	75.4%			27.5%		72.5%		92.3%		16.3%	60.0%	23.7%
GM	Car	Car	2012	11.0%	89.0%		48.7%	51.3%			5.4%		94.6%		95.6%	2.4%	27.8%	57.6%	14.6%
GM	Car	Wagon	1975	12.4%				1.3%									27.1%	33.6%	39.4%
GM	Car	Wagon	1976	6.9%													22.2%	39.2%	38.6%
GM	Car	Wagon	1977	2.4%													10.0%	37.6%	52.4%
GM	Car	Wagon	1978	3.7%						1.1%							7.2%	41.0%	51.7%
GM	Car	Wagon	1979	2.1%						1.6%							3.5%	53.3%	43.2%
GM	Car	Wagon	1980	1.0%	74.5%					20.2%								59.6%	40.4%
GM	Car	Wagon	1981	0.6%	99.4%					24.5%								48.1%	51.9%
GM	Car	Wagon	1982	5.0%	95.0%				1.0%	8.3%							19.4%	40.7%	39.8%
GM	Car	Wagon	1983	6.9%	93.1%				31.0%	2.6%							31.0%	35.2%	33.8%
GM	Car	Wagon	1984	6.1%	93.9%			0.3%	38.5%	1.2%							33.7%	36.6%	29.7%
GM	Car	Wagon	1985	2.6%	97.4%			9.7%	30.1%	0.3%							22.1%	48.2%	29.7%
GM	Car	Wagon	1986	2.3%	97.7%			11.4%	34.4%		100.0%						21.9%	49.9%	28.2%
GM	Car	Wagon	1987	1.5%	98.5%			36.2%	32.7%		100.0%						20.7%	54.9%	24.4%
GM	Car	Wagon	1988	1.1%	98.9%			41.5%	26.6%		100.0%						18.6%	49.5%	31.8%
GM	Car	Wagon	1989	1.1%	98.9%			47.2%	22.3%		100.0%						19.4%	50.1%	30.5%
GM	Car	Wagon	1990	1.2%	98.8%			55.1%	21.1%		100.0%						21.0%	55.2%	23.7%
GM	Car	Wagon	1991		100.0%			26.2%	73.8%		100.0%						32.1%	22.9%	45.0%
GM	Car	Wagon	1992		100.0%			51.8%	48.2%		100.0%						29.3%	23.2%	47.5%
GM	Car	Wagon	1993	7.1%	92.9%			64.7%	35.3%		84.4%		15.6%				46.5%	24.3%	29.3%
GM	Car	Wagon	1994	8.3%	91.7%			93.1%	6.9%		81.9%		18.1%				48.9%	27.2%	24.0%
GM	Car	Wagon	1995	12.6%	87.4%			100.0%			70.8%		29.2%				40.1%	36.7%	23.2%
GM	Car	Wagon	1996	9.5%	90.5%			100.0%			69.5%		30.5%				39.7%	37.7%	22.5%
GM	Car	Wagon	1997	23.3%	76.7%			100.0%			20.5%		79.5%				100.0%		
GM	Car	Wagon	1998	22.3%	77.7%			100.0%			29.9%		70.1%				100.0%		
GM	Car	Wagon	1999	19.0%	81.0%			100.0%			22.2%		77.8%				100.0%		
GM	Car	Wagon	2000	5.6%	94.4%			100.0%			2.3%		97.7%				38.7%	61.3%	
GM	Car	Wagon	2001	5.5%	94.5%			100.0%			41.9%		58.1%				30.1%	69.9%	
GM	Car	Wagon	2002	3.2%	96.8%			100.0%					100.0%					100.0%	
GM	Car	Wagon	2003	10.9%	89.1%			100.0%					100.0%		90.6%		90.6%	9.4%	
GM	Car	Wagon	2004	8.4%	91.6%			100.0%					100.0%		96.6%		96.6%	3.4%	
GM	Car	Wagon	2005	7.8%	92.2%			100.0%			91.3%		8.7%		91.3%		100.0%		
GM	Car	Wagon	2006	5.8%	94.2%			100.0%			30.9%		69.1%		64.6%		100.0%		
GM	Car	Wagon	2007	6.1%	93.9%			100.0%			25.0%		75.0%		52.5%		100.0%		
GM	Car	Wagon	2008	5.5%	94.5%			100.0%					100.0%		41.8%		100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
GM	Car	Wagon	2009	32.5	21.8	29.4	25.6	3419	117.8	135	154	10.9	1.148	0.0450	55.7	3847	6567	93.3%	6.7%
GM	Car	Wagon	2010	32.4	21.5	29.8	25.6	3496	121.2	137	158	10.9	1.151	0.0450	56.6	3937	6864	93.8%	3.9%
GM	Car	Wagon	2011	24.3	16.0	23.5	19.5	4376	125.2	240	347	7.3	1.447	0.0790	54.1	3111	6783		42.9%
GM	Car	Wagon	2012	27.1	17.8	26.3	21.8	4200	125.0	218	308	7.4	1.411	0.0735	57.1	3407	7140		29.9%
GM	Car	Non-Truck SUV	1975	15.6	13.2	13.3	13.2	4000		250	105	16.6	0.420	0.0263	31.3				
GM	Car	Non-Truck SUV	1976	16.9	13.8	15.0	14.3	3946		261	111	16.0	0.424	0.0284	33.5				
GM	Car	Non-Truck SUV	1977	18.0	14.6	16.2	15.3	4000	125.0	269	117	15.5	0.433	0.0292	36.0	2252	4504		
GM	Car	Non-Truck SUV	1978	17.6	13.9	16.5	14.9	4000	125.0	270	126	14.5	0.466	0.0315	35.2	2197	4395		
GM	Car	Non-Truck SUV	1979																
GM	Car	Non-Truck SUV	1980																
GM	Car	Non-Truck SUV	1981																
GM	Car	Non-Truck SUV	1982	22.0	17.3	20.9	18.8	3461	125.0	207	112	14.0	0.558	0.0330	38.3	2824	4790		
GM	Car	Non-Truck SUV	1983	25.1	19.0	25.4	21.4	3500	125.0	170	109	14.5	0.640	0.0311	44.0	3142	5498		
GM	Car	Non-Truck SUV	1984	23.6	17.8	24.1	20.2	3489	125.0	172	109	14.4	0.637	0.0313	41.2	2956	5154		
GM	Car	Non-Truck SUV	1985	23.5	17.6	24.4	20.1	3500	125.0	172	109	14.5	0.634	0.0311	41.1	2939	5143		
GM	Car	Non-Truck SUV	1986	22.2	16.9	21.9	18.9	3500	125.0	171	123	13.3	0.714	0.0350	38.9	2776	4858		
GM	Car	Non-Truck SUV	1987	23.0	17.2	23.4	19.6	3500	125.0	171	123	13.3	0.714	0.0350	40.3	2879	5039		
GM	Car	Non-Truck SUV	1988	23.1	17.1	23.4	19.6	3500	125.0	204	136	12.3	0.677	0.0388	40.4	2888	5054		
GM	Car	Non-Truck SUV	1989	23.0	17.3	22.4	19.4	3500	123.1	246	145	11.6	0.599	0.0414	40.3	2835	4961		
GM	Car	Non-Truck SUV	1990	22.7	17.1	21.8	19.0	3500	118.1	230	139	12.1	0.620	0.0398	39.7	2682	4694		
GM	Car	Non-Truck SUV	1991	22.7	17.0	21.6	19.0	3628	121.3	225	135	12.7	0.622	0.0373	41.2	2775	5007		
GM	Car	Non-Truck SUV	1992	22.5	16.9	21.1	18.7	3562	118.2	198	135	12.8	0.701	0.0375	40.0	2682	4743		
GM	Car	Non-Truck SUV	1993	23.6	17.6	21.8	19.5	3628	118.3	203	160	11.5	0.796	0.0431	42.5	2797	5063		
GM	Car	Non-Truck SUV	1994	22.7	17.0	20.9	18.8	3644	118.7	198	159	11.5	0.812	0.0428	41.2	2717	4927		
GM	Car	Non-Truck SUV	1995	22.8	16.6	21.6	18.9	3727	120.5	212	159	11.7	0.765	0.0421	42.3	2762	5121		
GM	Car	Non-Truck SUV	1996	22.8	16.7	21.3	18.8	3800	120.8	218	158	11.7	0.766	0.0413	43.4	2770	5258		
GM	Car	Non-Truck SUV	1997	22.0	16.0	20.4	18.0	3902	122.9	222	181	10.8	0.833	0.0462	43.1	2718	5297		
GM	Car	Non-Truck SUV	1998	22.5	16.2	20.9	18.4	3857	114.9	221	186	10.4	0.867	0.0479	43.3	2594	4991		
GM	Car	Non-Truck SUV	1999	22.3	16.0	20.6	18.2	3865	121.6	216	174	10.9	0.847	0.0450	43.1	2723	5246		
GM	Car	Non-Truck SUV	2000	22.1	15.7	20.6	18.0	3909	122.3	228	179	10.8	0.819	0.0457	43.3	2714	5299		
GM	Car	Non-Truck SUV	2001	24.0	17.0	21.8	19.3	3795	117.1	196	168	11.1	0.896	0.0441	45.7	2822	5360	17.6%	
GM	Car	Non-Truck SUV	2002	24.1	16.7	22.5	19.4	3890	128.4	202	182	10.6	0.929	0.0468	47.2	3135	6088	49.4%	
GM	Car	Non-Truck SUV	2003	25.9	17.8	23.8	20.7	3666	122.9	175	164	11.0	0.965	0.0447	47.6	3206	5862	74.5%	
GM	Car	Non-Truck SUV	2004	24.7	16.7	23.5	19.9	3991	135.0	204	208	9.9	1.021	0.0517	49.6	3368	6699	65.6%	12.0%
GM	Car	Non-Truck SUV	2005	24.8	16.7	23.4	19.9	4011	145.1	200	192	10.4	0.959	0.0476	49.9	3618	7238	56.9%	38.9%
GM	Car	Non-Truck SUV	2006	25.1	16.8	23.7	20.1	3998	143.8	198	196	10.3	0.987	0.0487	50.2	3613	7203	73.8%	22.3%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
GM	Car	Wagon	2009	5.2%	94.8%		1.8%	98.2%					100.0%		100.0%		100.0%		
GM	Car	Wagon	2010	2.2%	97.8%		5.6%	94.4%					100.0%		100.0%		100.0%		
GM	Car	Wagon	2011	6.5%	93.5%		76.5%	23.5%			23.5%		76.5%		76.5%		100.0%		
GM	Car	Wagon	2012	2.3%	97.7%		95.3%	4.7%			4.7%		95.3%		95.3%		100.0%		
GM	Car	Non-Truck SUV	1975	16.9%														100.0%	
GM	Car	Non-Truck SUV	1976	15.9%														100.0%	
GM	Car	Non-Truck SUV	1977	16.3%														100.0%	
GM	Car	Non-Truck SUV	1978	14.8%														100.0%	
GM	Car	Non-Truck SUV	1979																
GM	Car	Non-Truck SUV	1980																
GM	Car	Non-Truck SUV	1981																
GM	Car	Non-Truck SUV	1982	33.9%	66.1%													100.0%	
GM	Car	Non-Truck SUV	1983	30.8%	69.2%													100.0%	
GM	Car	Non-Truck SUV	1984	23.1%	76.9%													100.0%	
GM	Car	Non-Truck SUV	1985	14.4%	85.6%				5.7%									100.0%	
GM	Car	Non-Truck SUV	1986	13.8%	86.2%				100.0%		100.0%							100.0%	
GM	Car	Non-Truck SUV	1987	11.9%	88.1%				100.0%		100.0%							100.0%	
GM	Car	Non-Truck SUV	1988	9.6%	90.4%				100.0%		100.0%							100.0%	
GM	Car	Non-Truck SUV	1989	16.3%	83.7%			4.9%	92.6%		100.0%						7.4%	92.6%	
GM	Car	Non-Truck SUV	1990	35.2%	64.8%			14.3%	72.5%		100.0%						27.5%	72.5%	
GM	Car	Non-Truck SUV	1991	30.1%	69.9%			6.9%	90.9%		100.0%						14.6%	85.4%	
GM	Car	Non-Truck SUV	1992	38.0%	62.0%			33.6%	62.8%		100.0%						27.2%	72.8%	
GM	Car	Non-Truck SUV	1993	31.7%	68.3%			74.1%	22.1%		100.0%						26.8%	73.2%	
GM	Car	Non-Truck SUV	1994	32.2%	67.8%			79.7%	20.3%		73.6%		26.4%				25.1%	74.9%	
GM	Car	Non-Truck SUV	1995	24.6%	75.4%			81.8%	18.2%		91.1%		8.9%				18.2%	81.8%	
GM	Car	Non-Truck SUV	1996	15.9%	84.1%			100.0%			66.7%		33.3%				16.8%	83.2%	
GM	Car	Non-Truck SUV	1997	16.3%	83.7%			100.0%			68.5%		31.5%				8.4%	91.6%	
GM	Car	Non-Truck SUV	1998	16.6%	83.4%			100.0%			59.7%		40.3%				40.3%	59.7%	
GM	Car	Non-Truck SUV	1999	14.6%	85.4%			100.0%			56.8%		43.2%				13.6%	86.4%	
GM	Car	Non-Truck SUV	2000	8.3%	91.7%			100.0%			72.2%		27.8%				10.7%	89.3%	
GM	Car	Non-Truck SUV	2001	7.0%	93.0%			100.0%			81.3%		18.7%				31.6%	68.4%	
GM	Car	Non-Truck SUV	2002	10.6%	89.0%	0.5%		100.0%			66.3%		33.7%				11.2%	64.1%	24.8%
GM	Car	Non-Truck SUV	2003	16.7%	63.8%	19.6%		100.0%			41.1%		58.9%				10.4%	87.7%	1.9%
GM	Car	Non-Truck SUV	2004	11.2%	82.2%	6.6%		100.0%			40.8%		59.2%		32.5%		1.6%	56.7%	41.6%
GM	Car	Non-Truck SUV	2005	5.1%	94.9%			100.0%			75.5%		24.5%		14.6%			19.5%	80.5%
GM	Car	Non-Truck SUV	2006	2.9%	97.1%			100.0%			23.3%		76.7%		19.9%			24.9%	75.1%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
GM	Car	Non-Truck SUV	2007	25.4	17.0	24.0	20.4	3983	142.9	197	196	10.1	0.998	0.0491	50.8	3648	7242	76.8%	20.0%
GM	Car	Non-Truck SUV	2008	25.3	16.9	23.9	20.3	4084	140.2	194	202	10.2	1.043	0.0494	51.9	3559	7251	73.0%	23.0%
GM	Car	Non-Truck SUV	2009	25.8	17.2	24.4	20.7	4072	139.7	191	197	10.3	1.037	0.0483	53.0	3632	7372	74.0%	21.9%
GM	Car	Non-Truck SUV	2010	29.4	19.6	27.5	23.4	4157	140.0	161	215	9.9	1.326	0.0514	61.9	4171	8638	66.1%	33.9%
GM	Car	Non-Truck SUV	2011	29.8	19.7	28.0	23.7	4027	145.9	154	201	10.2	1.286	0.0494	60.7	4410	8863	72.0%	28.0%
GM	Car	Non-Truck SUV	2012	30.9	20.2	28.8	24.4	4092	149.0	155	202	10.2	1.294	0.0491	63.9	4677	9526	67.5%	32.5%
GM	Truck	Van	1975	14.4	11.6	13.0	12.2	4183		306	136	14.3	0.442	0.0325	30.9				
GM	Truck	Van	1976	14.0	11.6	12.3	11.9	4225		321	136	14.3	0.424	0.0323	30.6				
GM	Truck	Van	1977	15.0	12.4	13.0	12.7	4276		325	141	14.0	0.435	0.0332	32.4				
GM	Truck	Van	1978	14.1	11.7	12.2	11.9	4313		328	153	13.2	0.468	0.0356	31.1				
GM	Truck	Van	1979	14.7	12.3	12.6	12.4	4553		319	130	15.6	0.418	0.0288	33.9				
GM	Truck	Van	1980	16.7	13.3	15.6	14.2	4338		297	145	13.8	0.491	0.0334	36.4				
GM	Truck	Van	1981	18.0	14.3	16.8	15.3	4374		285	143	14.0	0.504	0.0328	39.5				
GM	Truck	Van	1982	17.9	14.3	16.5	15.2	4447		291	151	13.8	0.515	0.0338	39.8				
GM	Truck	Van	1983	18.9	14.9	17.7	16.0	4551		306	153	13.9	0.502	0.0336	43.4				
GM	Truck	Van	1984	18.2	14.3	17.2	15.5	4523		301	148	14.1	0.491	0.0327	41.3				
GM	Truck	Van	1985	18.7	14.8	17.6	15.9	4287		286	154	13.0	0.543	0.0361	40.5				
GM	Truck	Van	1986	19.4	15.2	18.2	16.4	4241		279	150	13.2	0.541	0.0354	41.4				
GM	Truck	Van	1987	19.8	15.3	18.8	16.8	4214		284	169	11.9	0.596	0.0401	42.0				
GM	Truck	Van	1988	20.2	15.4	19.4	17.1	4210		286	168	12.0	0.590	0.0399	42.8				
GM	Truck	Van	1989	20.2	15.3	19.5	17.0	4215		290	169	12.0	0.580	0.0398	42.9				
GM	Truck	Van	1990	20.7	15.5	19.9	17.4	4265		258	155	13.2	0.606	0.0361	44.3			32.8%	3.1%
GM	Truck	Van	1991	20.8	15.5	20.1	17.4	4289		262	156	13.1	0.600	0.0362	44.9			24.9%	5.4%
GM	Truck	Van	1992	20.8	15.4	20.1	17.4	4304		266	165	12.6	0.623	0.0382	45.1			26.1%	5.1%
GM	Truck	Van	1993	20.7	15.2	20.0	17.3	4364		269	173	12.2	0.647	0.0396	45.3			22.4%	6.4%
GM	Truck	Van	1994	21.0	15.3	20.3	17.5	4316		265	174	12.0	0.662	0.0403	45.5			27.2%	8.4%
GM	Truck	Van	1995	20.6	14.9	19.8	17.1	4337		269	179	11.7	0.674	0.0414	44.9			25.4%	7.5%
GM	Truck	Van	1996	21.5	15.5	20.5	17.7	4419		257	194	11.1	0.769	0.0439	47.5			25.1%	10.1%
GM	Truck	Van	1997	21.9	15.7	20.8	18.0	4354		248	201	10.6	0.825	0.0463	47.7			40.2%	8.5%
GM	Truck	Van	1998	22.2	15.8	21.1	18.2	4291		240	199	10.6	0.844	0.0465	47.6			51.1%	7.0%
GM	Truck	Van	1999	22.0	15.5	20.9	18.0	4327		243	193	10.9	0.810	0.0447	47.7			49.3%	6.6%
GM	Truck	Van	2000	22.1	15.5	20.8	18.0	4323		241	193	10.9	0.813	0.0447	48.0			49.0%	7.5%
GM	Truck	Van	2001	22.9	15.9	21.9	18.7	4275		234	193	10.8	0.838	0.0453	49.3			59.7%	5.3%
GM	Truck	Van	2002	22.3	15.4	21.3	18.2	4307		235	193	10.9	0.834	0.0449	48.6			55.1%	10.6%
GM	Truck	Van	2003	23.2	15.8	22.1	18.8	4347		228	195	10.9	0.860	0.0449	50.5			59.4%	15.9%
GM	Truck	Van	2004	23.1	15.6	21.9	18.6	4360		232	197	10.8	0.855	0.0453	50.4			59.8%	9.5%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
GM	Car	Non-Truck SUV	2007	2.0%	98.0%			100.0%			64.0%		36.0%		23.8%	3.5%		28.4%	71.6%
GM	Car	Non-Truck SUV	2008		100.0%			100.0%			45.0%		55.0%		55.0%	1.0%		39.4%	60.6%
GM	Car	Non-Truck SUV	2009		100.0%			100.0%			46.6%		53.4%		53.4%	4.8%		41.1%	58.9%
GM	Car	Non-Truck SUV	2010		100.0%		98.1%	1.9%					100.0%		100.0%			1.1%	98.9%
GM	Car	Non-Truck SUV	2011	0.1%	99.9%		83.1%	16.9%					100.0%		100.0%			16.6%	83.4%
GM	Car	Non-Truck SUV	2012		100.0%		99.4%	0.6%					100.0%		100.0%			3.9%	96.1%
GM	Truck	Van	1975	23.6%														100.0%	
GM	Truck	Van	1976	20.2%														100.0%	
GM	Truck	Van	1977	13.6%														100.0%	
GM	Truck	Van	1978	10.2%														100.0%	
GM	Truck	Van	1979	15.4%														100.0%	
GM	Truck	Van	1980	20.6%	75.7%													100.0%	
GM	Truck	Van	1981	12.5%	87.5%													100.0%	
GM	Truck	Van	1982	5.5%	94.5%													99.9%	0.1%
GM	Truck	Van	1983	3.6%	96.4%					10.3%								99.2%	0.8%
GM	Truck	Van	1984	3.0%	94.1%					3.2%								99.1%	0.9%
GM	Truck	Van	1985	2.6%	96.9%				2.2%	1.0%								99.1%	0.9%
GM	Truck	Van	1986	2.5%	91.5%				51.4%	0.6%								99.2%	0.8%
GM	Truck	Van	1987	1.5%	76.2%				99.7%	0.3%								99.4%	0.6%
GM	Truck	Van	1988	1.1%	82.2%				99.6%	0.4%								99.3%	0.7%
GM	Truck	Van	1989	0.8%	93.8%				99.7%	0.3%								99.3%	0.7%
GM	Truck	Van	1990		96.1%				99.8%	0.2%								99.6%	0.4%
GM	Truck	Van	1991		100.0%				99.7%	0.3%								99.4%	0.6%
GM	Truck	Van	1992		100.0%			19.6%	80.2%	0.2%								99.4%	0.6%
GM	Truck	Van	1993		100.0%			25.4%	74.6%									99.2%	0.8%
GM	Truck	Van	1994		100.0%			36.4%	63.6%		100.0%							99.4%	0.6%
GM	Truck	Van	1995		100.0%			61.5%	38.5%		100.0%							98.8%	1.2%
GM	Truck	Van	1996		100.0%			100.0%			98.0%		2.0%					83.1%	16.9%
GM	Truck	Van	1997		100.0%			100.0%			99.5%		0.5%					85.2%	14.8%
GM	Truck	Van	1998		100.0%			100.0%			99.5%		0.5%					87.0%	13.0%
GM	Truck	Van	1999		100.0%			100.0%			99.8%		0.2%					82.4%	17.6%
GM	Truck	Van	2000		100.0%			100.0%			100.0%							83.9%	16.1%
GM	Truck	Van	2001		100.0%			100.0%			100.0%							83.6%	16.4%
GM	Truck	Van	2002		100.0%			100.0%			100.0%							83.3%	16.7%
GM	Truck	Van	2003		100.0%			100.0%			100.0%							85.5%	14.5%
GM	Truck	Van	2004		100.0%			100.0%			100.0%							80.3%	19.7%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
GM	Truck	Van	2005	22.6	15.3	21.2	18.2	4532		231	200	11.0	0.874	0.0442	51.5			64.0%	9.3%
GM	Truck	Van	2006	22.9	15.4	21.6	18.4	4715		231	208	11.1	0.903	0.0440	54.0			68.0%	8.9%
GM	Truck	Van	2007	22.6	15.2	21.5	18.2	4726		251	237	10.0	0.947	0.0503	53.5			69.0%	3.9%
GM	Truck	Van	2008	22.8	15.3	21.6	18.4	4704		250	238	9.9	0.959	0.0508	53.7			73.3%	3.8%
GM	Truck	Van	2009	20.0	13.9	18.1	16.0	5271		285	233	11.2	0.809	0.0438	52.8				16.4%
GM	Truck	Van	2010	20.1	13.9	18.4	16.2	5342		289	241	11.1	0.826	0.0447	53.8				20.5%
GM	Truck	Van	2011	19.7	13.6	18.1	15.8	5451		294	248	11.0	0.833	0.0451	53.7				21.2%
GM	Truck	Van	2012	20.0	13.8	18.4	16.1	5356		290	246	11.0	0.836	0.0454	53.6				14.2%
GM	Truck	Truck SUV	1975	11.7	9.9	10.0	9.9	4896		354	162	13.9	0.457	0.0331	28.9				74.9%
GM	Truck	Truck SUV	1976	13.0	10.6	11.7	11.0	4931		361	153	14.7	0.421	0.0310	32.1				79.9%
GM	Truck	Truck SUV	1977	14.6	11.9	13.1	12.4	4703		359	158	13.8	0.439	0.0335	34.7				74.4%
GM	Truck	Truck SUV	1978	14.0	11.4	12.6	11.9	4711		356	165	13.2	0.464	0.0351	33.2				81.3%
GM	Truck	Truck SUV	1979	11.3	9.5	9.6	9.5	5169		371	149	15.9	0.399	0.0286	29.2				42.6%
GM	Truck	Truck SUV	1980	14.5	11.5	13.5	12.4	5071		341	161	14.3	0.474	0.0319	36.9				61.2%
GM	Truck	Truck SUV	1981	16.2	12.8	15.0	13.7	5013		317	159	14.4	0.502	0.0317	40.7				65.5%
GM	Truck	Truck SUV	1982	19.2	14.9	18.6	16.4	5260		333	147	16.1	0.446	0.0283	51.8				63.1%
GM	Truck	Truck SUV	1983	20.2	15.5	20.0	17.3	4507		248	129	15.6	0.555	0.0286	45.9				84.8%
GM	Truck	Truck SUV	1984	20.0	15.3	19.9	17.1	4420		237	128	15.5	0.572	0.0289	44.4				85.5%
GM	Truck	Truck SUV	1985	20.1	15.3	20.2	17.2	4348		226	126	15.6	0.585	0.0287	43.9				87.2%
GM	Truck	Truck SUV	1986	19.4	14.9	19.0	16.5	4290		222	130	14.9	0.628	0.0302	41.8				86.5%
GM	Truck	Truck SUV	1987	19.3	14.6	19.0	16.3	4393		230	149	13.9	0.670	0.0334	42.2				86.6%
GM	Truck	Truck SUV	1988	19.4	14.8	18.7	16.4	4463		248	157	13.3	0.660	0.0351	43.2				86.5%
GM	Truck	Truck SUV	1989	20.0	15.1	19.1	16.8	4406		265	165	12.7	0.640	0.0373	43.8				87.5%
GM	Truck	Truck SUV	1990	19.6	14.8	18.7	16.5	4431		255	158	13.2	0.652	0.0353	43.0				81.5%
GM	Truck	Truck SUV	1991	20.5	15.4	19.7	17.2	4179		252	156	12.7	0.636	0.0373	42.8				92.1%
GM	Truck	Truck SUV	1992	19.2	14.2	18.6	16.1	4349		258	171	12.3	0.680	0.0393	41.6				90.7%
GM	Truck	Truck SUV	1993	19.4	14.3	18.6	16.2	4622		277	193	11.6	0.722	0.0424	44.6				85.8%
GM	Truck	Truck SUV	1994	19.4	14.3	18.4	16.1	4731		270	192	11.9	0.738	0.0407	45.8				87.6%
GM	Truck	Truck SUV	1995	19.4	14.2	18.4	16.1	4701		270	187	11.9	0.728	0.0401	45.5				89.6%
GM	Truck	Truck SUV	1996	19.8	14.3	18.8	16.3	4786		281	207	11.3	0.752	0.0429	47.1				83.3%
GM	Truck	Truck SUV	1997	19.4	13.9	18.5	16.0	4935		294	216	11.2	0.745	0.0435	47.7				81.0%
GM	Truck	Truck SUV	1998	20.3	14.5	19.3	16.7	4625		272	205	11.1	0.766	0.0441	46.8				90.0%
GM	Truck	Truck SUV	1999	19.8	14.2	18.4	16.2	4688		280	213	10.9	0.777	0.0451	46.2				63.6%
GM	Truck	Truck SUV	2000	19.5	13.9	18.0	15.9	4966		282	220	11.0	0.792	0.0441	48.3				87.7%
GM	Truck	Truck SUV	2001	18.8	13.5	17.0	15.2	5192		294	241	10.6	0.824	0.0461	48.5				72.2%
GM	Truck	Truck SUV	2002	19.4	13.5	18.4	15.8	5149		283	267	9.7	0.955	0.0520	49.9				70.5%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
GM	Truck	Van	2005		100.0%			100.0%			100.0%							84.3%	15.7%
GM	Truck	Van	2006		100.0%			100.0%			100.0%				3.0%			74.1%	25.9%
GM	Truck	Van	2007		100.0%			100.0%			100.0%				69.0%			69.0%	31.0%
GM	Truck	Van	2008		100.0%			100.0%			100.0%				73.3%			74.3%	25.7%
GM	Truck	Van	2009		100.0%			100.0%			100.0%								100.0%
GM	Truck	Van	2010		100.0%			100.0%			100.0%				43.6%				100.0%
GM	Truck	Van	2011		100.0%			100.0%			100.0%				49.0%				100.0%
GM	Truck	Van	2012		100.0%			100.0%			100.0%				43.7%				100.0%
GM	Truck	Truck SUV	1975	16.2%														86.1%	13.9%
GM	Truck	Truck SUV	1976	15.8%														85.7%	14.3%
GM	Truck	Truck SUV	1977	15.7%														84.8%	15.2%
GM	Truck	Truck SUV	1978	14.8%														85.2%	14.8%
GM	Truck	Truck SUV	1979	14.2%														32.9%	67.1%
GM	Truck	Truck SUV	1980	13.8%	86.2%													59.1%	40.9%
GM	Truck	Truck SUV	1981	7.7%	92.3%													60.3%	39.7%
GM	Truck	Truck SUV	1982	8.3%	91.7%					47.9%								58.0%	42.0%
GM	Truck	Truck SUV	1983	23.0%	77.0%					13.9%								78.2%	21.8%
GM	Truck	Truck SUV	1984	22.7%	77.3%					6.2%								79.2%	20.8%
GM	Truck	Truck SUV	1985	19.9%	80.1%				2.2%	3.1%								81.4%	18.6%
GM	Truck	Truck SUV	1986	32.9%	67.1%				40.5%	4.0%								79.9%	20.1%
GM	Truck	Truck SUV	1987	20.4%	79.6%				87.3%	1.3%								79.0%	21.0%
GM	Truck	Truck SUV	1988	18.1%	81.9%			20.2%	78.8%	1.0%								77.1%	22.9%
GM	Truck	Truck SUV	1989	16.9%	83.1%			11.9%	87.4%	0.7%							5.3%	72.7%	22.0%
GM	Truck	Truck SUV	1990	25.6%	74.4%			10.2%	88.9%	0.9%							17.8%	49.9%	32.3%
GM	Truck	Truck SUV	1991	15.4%	84.6%			3.6%	95.8%	0.5%							7.9%	78.6%	13.5%
GM	Truck	Truck SUV	1992	16.6%	83.4%			27.9%	72.1%								8.7%	66.0%	25.4%
GM	Truck	Truck SUV	1993	9.8%	90.2%			55.8%	44.2%								6.2%	56.5%	37.3%
GM	Truck	Truck SUV	1994	9.8%	90.2%			60.7%	39.3%		87.3%		12.7%				6.4%	59.6%	34.0%
GM	Truck	Truck SUV	1995	8.1%	91.9%			64.4%	35.6%		79.0%		21.0%				5.4%	58.9%	35.7%
GM	Truck	Truck SUV	1996	4.4%	95.6%			100.0%		0.0%	87.3%		12.7%				6.1%	55.4%	38.5%
GM	Truck	Truck SUV	1997	2.5%	97.5%			100.0%		0.0%	91.2%		8.8%				2.9%	50.7%	46.4%
GM	Truck	Truck SUV	1998	3.7%	96.3%			100.0%		0.0%	85.5%		14.5%				10.5%	64.0%	25.6%
GM	Truck	Truck SUV	1999	3.2%	96.8%			100.0%			88.3%		11.7%				6.4%	57.1%	36.4%
GM	Truck	Truck SUV	2000	1.5%	98.5%			100.0%			93.7%		6.3%				5.4%	50.6%	44.0%
GM	Truck	Truck SUV	2001	0.7%	99.3%			100.0%			93.8%		6.2%				7.0%	27.7%	65.3%
GM	Truck	Truck SUV	2002	0.4%	99.5%	0.1%		100.0%			59.1%		40.9%		36.2%		2.9%	10.5%	86.6%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
GM	Truck	Truck SUV	2003	19.1	13.3	18.0	15.5	5288		287	268	9.9	0.946	0.0507	50.5				66.6%
GM	Truck	Truck SUV	2004	19.4	13.4	18.2	15.7	5309		291	277	9.6	0.966	0.0525	51.4				67.5%
GM	Truck	Truck SUV	2005	19.5	13.3	18.2	15.7	5398		293	285	9.5	0.986	0.0531	52.5				67.7%
GM	Truck	Truck SUV	2006	20.2	13.8	18.8	16.3	5101		271	273	9.5	1.019	0.0537	51.3				74.8%
GM	Truck	Truck SUV	2007	20.4	13.8	19.4	16.5	5574		301	304	9.3	1.020	0.0547	56.9			4.7%	61.4%
GM	Truck	Truck SUV	2008	21.2	14.3	20.3	17.2	5315		275	290	9.3	1.071	0.0546	56.6			17.7%	56.8%
GM	Truck	Truck SUV	2009	22.4	15.0	21.4	18.1	5266		259	298	9.1	1.179	0.0565	59.1			35.1%	43.2%
GM	Truck	Truck SUV	2010	23.3	15.6	22.3	18.8	5355		261	298	9.1	1.177	0.0558	62.4			36.1%	47.4%
GM	Truck	Truck SUV	2011	22.7	15.2	21.5	18.3	5523		275	319	8.9	1.198	0.0579	62.6			29.1%	55.2%
GM	Truck	Truck SUV	2012	23.0	15.4	21.6	18.4	5477		275	312	8.9	1.169	0.0570	63.2			21.5%	59.1%
GM	Truck	Pickup	1975	14.3	11.4	13.4	12.2	4073		321	148	13.1	0.468	0.0362	29.6				10.4%
GM	Truck	Pickup	1976	14.6	11.7	13.3	12.4	4193		329	142	13.8	0.438	0.0338	31.1				18.6%
GM	Truck	Pickup	1977	15.2	12.5	13.4	12.9	4214		325	145	13.6	0.459	0.0345	32.5				19.7%
GM	Truck	Pickup	1978	14.7	12.2	12.8	12.5	4248		322	151	13.2	0.479	0.0355	31.9				27.4%
GM	Truck	Pickup	1979	15.2	12.6	13.4	12.9	4495		304	132	15.4	0.460	0.0294	35.0				5.9%
GM	Truck	Pickup	1980	18.5	14.7	17.1	15.7	4157		269	131	14.4	0.516	0.0314	38.9				21.4%
GM	Truck	Pickup	1981	20.0	15.9	18.5	17.0	4012		259	129	14.4	0.511	0.0318	40.5				13.8%
GM	Truck	Pickup	1982	21.9	17.2	20.7	18.6	3850		244	128	14.0	0.547	0.0334	42.3				10.5%
GM	Truck	Pickup	1983	21.3	16.6	20.5	18.2	3931		244	130	13.9	0.556	0.0332	42.2				22.4%
GM	Truck	Pickup	1984	20.7	16.1	20.0	17.6	3962		243	128	14.2	0.550	0.0323	41.3				21.9%
GM	Truck	Pickup	1985	20.4	15.9	19.6	17.4	3926		241	133	13.7	0.570	0.0337	40.4				21.8%
GM	Truck	Pickup	1986	20.8	16.3	19.7	17.7	3893		238	134	13.4	0.587	0.0345	40.8				22.2%
GM	Truck	Pickup	1987	21.3	16.4	20.5	18.1	3749		231	141	12.8	0.628	0.0370	40.2				23.6%
GM	Truck	Pickup	1988	20.4	15.5	19.6	17.2	4013		270	160	12.2	0.605	0.0393	41.2				27.7%
GM	Truck	Pickup	1989	20.5	15.6	19.7	17.3	3976		275	165	11.8	0.608	0.0409	41.0				27.0%
GM	Truck	Pickup	1990	19.2	14.5	18.4	16.1	4241		300	179	11.6	0.603	0.0419	41.0				31.4%
GM	Truck	Pickup	1991	21.4	15.9	20.6	17.9	3845		257	156	12.0	0.614	0.0400	41.2				22.7%
GM	Truck	Pickup	1992	20.3	15.0	19.6	17.0	4088		276	167	11.8	0.614	0.0406	41.6				26.2%
GM	Truck	Pickup	1993	20.2	14.8	19.4	16.8	4189		281	173	11.7	0.624	0.0413	42.2			0.0%	27.6%
GM	Truck	Pickup	1994	20.0	14.7	19.1	16.6	4256		287	179	11.5	0.643	0.0420	42.9				33.1%
GM	Truck	Pickup	1995	20.2	14.7	19.1	16.7	4270		278	173	11.9	0.655	0.0403	43.6				33.5%
GM	Truck	Pickup	1996	21.3	15.4	20.3	17.6	4304		273	197	11.0	0.740	0.0452	46.2				30.6%
GM	Truck	Pickup	1997	20.5	14.7	19.6	16.9	4597		289	213	10.8	0.751	0.0459	47.2				37.1%
GM	Truck	Pickup	1998	21.1	15.0	20.1	17.3	4311		267	201	10.9	0.770	0.0457	45.9				36.3%
GM	Truck	Pickup	1999	19.8	14.2	18.4	16.2	4763		293	228	10.5	0.785	0.0477	47.1				56.9%
GM	Truck	Pickup	2000	20.8	14.9	19.2	16.9	4401		272	219	10.4	0.808	0.0489	45.9				41.2%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
GM	Truck	Truck SUV	2003	0.2%	98.4%	1.3%		100.0%			58.8%		41.2%		36.7%		2.5%	8.2%	89.2%
GM	Truck	Truck SUV	2004	0.0%	99.5%	0.5%		100.0%			56.7%		43.3%		39.0%		0.8%	7.2%	92.0%
GM	Truck	Truck SUV	2005	0.0%	99.8%	0.2%		100.0%			55.7%		44.3%		44.1%			2.6%	97.4%
GM	Truck	Truck SUV	2006	0.5%	99.5%			100.0%			38.4%		61.6%		62.5%			4.0%	96.0%
GM	Truck	Truck SUV	2007	0.2%	99.8%			100.0%			72.4%		27.6%		43.5%			1.9%	98.1%
GM	Truck	Truck SUV	2008	0.2%	98.6%	1.2%		100.0%			50.2%		49.8%		62.3%	1.2%		4.8%	95.2%
GM	Truck	Truck SUV	2009	0.1%	97.9%	2.0%	22.8%	77.2%			36.2%		63.8%		72.9%	2.0%		4.1%	95.9%
GM	Truck	Truck SUV	2010	0.0%	99.6%	0.4%	62.7%	37.3%			35.6%		64.4%		99.8%	0.4%		1.1%	98.9%
GM	Truck	Truck SUV	2011	0.0%	99.6%	0.4%	52.1%	47.9%			47.4%		52.6%		100.0%	0.4%		0.5%	99.5%
GM	Truck	Truck SUV	2012		95.6%	4.4%	54.3%	45.7%			45.7%		54.3%		100.0%	4.4%		0.7%	99.3%
GM	Truck	Pickup	1975	35.7%													6.8%		93.2%
GM	Truck	Pickup	1976	31.1%													4.8%		95.2%
GM	Truck	Pickup	1977	26.5%													7.0%		93.0%
GM	Truck	Pickup	1978	27.2%						2.4%							6.4%		93.6%
GM	Truck	Pickup	1979	32.4%						5.4%							10.4%		89.6%
GM	Truck	Pickup	1980	39.4%	54.7%					9.1%							17.2%		82.8%
GM	Truck	Pickup	1981	38.6%	60.3%					8.6%							14.9%		85.1%
GM	Truck	Pickup	1982	35.6%	64.3%					14.7%							3.5%	36.4%	60.1%
GM	Truck	Pickup	1983	34.0%	65.8%					7.5%							3.3%	37.9%	58.8%
GM	Truck	Pickup	1984	31.4%	68.0%					5.7%							5.8%	35.3%	58.9%
GM	Truck	Pickup	1985	31.0%	64.7%				12.5%	2.6%							4.2%	38.8%	57.0%
GM	Truck	Pickup	1986	34.5%	59.2%				31.0%	2.1%							12.1%	30.3%	57.6%
GM	Truck	Pickup	1987	36.3%	54.5%				88.4%	1.0%								54.8%	45.2%
GM	Truck	Pickup	1988	29.1%	61.7%			1.4%	95.8%	0.5%								36.7%	63.3%
GM	Truck	Pickup	1989	33.2%	64.2%			1.9%	94.8%	0.4%								39.4%	60.6%
GM	Truck	Pickup	1990	29.4%	63.8%			2.6%	92.1%	0.5%								21.3%	78.7%
GM	Truck	Pickup	1991	45.2%	54.8%			0.7%	95.9%	0.3%								52.4%	47.6%
GM	Truck	Pickup	1992	39.1%	60.9%			1.2%	94.2%	0.3%								35.8%	64.2%
GM	Truck	Pickup	1993	29.0%	71.0%			1.5%	95.9%									31.3%	68.7%
GM	Truck	Pickup	1994	21.8%	78.2%			17.1%	80.8%		100.0%							30.3%	69.7%
GM	Truck	Pickup	1995	32.3%	67.7%			25.4%	74.6%		100.0%							35.6%	64.4%
GM	Truck	Pickup	1996	23.3%	76.7%			99.5%		0.5%	100.0%							36.9%	63.1%
GM	Truck	Pickup	1997	18.5%	81.5%			99.8%		0.2%	100.0%							30.0%	70.0%
GM	Truck	Pickup	1998	21.2%	78.8%			99.9%		0.1%	100.0%							39.2%	60.8%
GM	Truck	Pickup	1999	9.3%	90.7%			100.0%		0.0%	100.0%							22.3%	77.7%
GM	Truck	Pickup	2000	9.5%	90.5%			100.0%			99.6%		0.4%					30.0%	70.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
GM	Truck	Pickup	2001	20.4	14.5	18.7	16.5	4592		279	227	10.3	0.815	0.0488	46.7				38.8%
GM	Truck	Pickup	2002	19.1	13.5	17.5	15.4	4988		302	257	9.8	0.846	0.0515	47.5				51.4%
GM	Truck	Pickup	2003	20.1	14.0	18.4	16.2	4712		277	235	10.3	0.848	0.0492	47.2				42.5%
GM	Truck	Pickup	2004	20.0	14.0	18.1	16.1	4951		302	262	9.6	0.872	0.0530	49.5				50.3%
GM	Truck	Pickup	2005	20.4	14.1	18.8	16.4	4891		289	263	9.5	0.917	0.0537	49.9				48.7%
GM	Truck	Pickup	2006	20.7	14.3	19.0	16.6	4878		287	260	9.6	0.912	0.0531	50.4				44.7%
GM	Truck	Pickup	2007	20.3	14.0	18.8	16.4	5213		298	276	9.6	0.926	0.0528	53.0				45.3%
GM	Truck	Pickup	2008	20.9	14.3	19.4	16.8	5257		298	277	9.7	0.925	0.0524	54.8				50.6%
GM	Truck	Pickup	2009	20.8	14.2	19.5	16.8	5325		305	291	9.4	0.953	0.0545	55.4				50.9%
GM	Truck	Pickup	2010	21.5	14.5	20.3	17.3	5318		303	288	9.4	0.951	0.0540	57.2				60.5%
GM	Truck	Pickup	2011	21.4	14.5	20.3	17.3	5365		309	300	9.2	0.970	0.0558	57.6				62.5%
GM	Truck	Pickup	2012	21.6	14.6	20.3	17.4	5152		301	294	9.1	0.976	0.0571	55.6				46.2%
GM	Car	All	1975	15.1	11.8	14.4	12.8	4500		343	151	14.1	0.450	0.0333	34.0			2.4%	
GM	Car	All	1976	16.6	13.0	15.7	14.1	4401		330	148	14.1	0.461	0.0333	36.5			2.6%	
GM	Car	All	1977	17.7	14.0	16.6	15.1	4186	116.1	315	145	13.6	0.467	0.0345	37.2	2080	4328	2.4%	
GM	Car	All	1978	19.0	14.9	18.1	16.2	3789	115.0	289	136	13.4	0.477	0.0355	36.2	2223	4180	2.4%	
GM	Car	All	1979	19.1	15.2	17.9	16.3	3761	115.6	284	136	13.2	0.493	0.0359	36.3	2246	4199	4.0%	
GM	Car	All	1980	21.9	17.0	21.1	18.7	3384	111.4	225	114	13.9	0.537	0.0336	37.1	2474	4168	27.4%	
GM	Car	All	1981	23.2	17.9	22.7	19.8	3445	113.9	227	111	14.4	0.521	0.0321	40.0	2677	4598	25.7%	
GM	Car	All	1982	24.2	18.4	24.3	20.7	3370	114.2	213	111	14.2	0.554	0.0328	41.0	2813	4712	37.2%	
GM	Car	All	1983	23.5	17.8	23.7	20.1	3449	116.7	222	117	13.8	0.552	0.0336	40.7	2781	4757	36.8%	
GM	Car	All	1984	24.4	18.5	24.7	20.8	3349	112.5	209	115	13.7	0.583	0.0341	41.1	2787	4627	44.3%	
GM	Car	All	1985	25.5	19.1	26.1	21.8	3328	114.0	207	117	13.5	0.592	0.0348	42.5	2946	4856	59.8%	
GM	Car	All	1986	27.0	20.2	27.6	23.0	3177	111.4	190	115	13.2	0.635	0.0359	43.0	3057	4804	71.3%	
GM	Car	All	1987	27.2	20.1	27.9	23.1	3197	112.1	192	123	12.7	0.666	0.0380	43.6	3097	4896	75.9%	
GM	Car	All	1988	28.1	20.6	28.8	23.8	3163	111.4	181	122	12.6	0.700	0.0382	44.5	3176	4975	86.9%	
GM	Car	All	1989	27.4	19.9	28.1	23.1	3196	112.1	188	133	11.9	0.729	0.0412	43.9	3109	4923	87.4%	0.0%
GM	Car	All	1990	27.2	19.6	28.2	23.0	3258	110.8	184	136	11.8	0.768	0.0415	44.5	3050	4934	93.6%	0.1%
GM	Car	All	1991	27.0	19.3	27.8	22.7	3258	110.2	189	139	11.7	0.765	0.0421	44.1	3019	4875	85.6%	0.0%
GM	Car	All	1992	26.6	18.8	27.5	22.3	3313	110.9	193	146	11.3	0.787	0.0435	44.1	2988	4906	88.5%	0.0%
GM	Car	All	1993	27.2	19.2	27.8	22.7	3278	110.7	190	146	11.2	0.801	0.0442	44.7	3053	4959	90.3%	
GM	Car	All	1994	27.3	19.2	27.6	22.7	3291	109.8	186	149	11.2	0.822	0.0446	45.0	3044	4954	86.2%	
GM	Car	All	1995	27.2	18.9	27.7	22.6	3350	111.7	192	165	10.4	0.878	0.0486	45.6	3075	5101	87.9%	
GM	Car	All	1996	27.6	19.1	28.0	22.9	3356	110.8	190	167	10.3	0.892	0.0490	46.4	3083	5150	88.3%	
GM	Car	All	1997	27.9	19.3	28.0	23.0	3320	110.6	184	169	10.2	0.921	0.0499	46.3	3110	5129	93.1%	
GM	Car	All	1998	27.3	18.7	27.3	22.4	3386	111.7	192	174	10.1	0.913	0.0507	46.2	3078	5172	91.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
GM	Truck	Pickup	2001	6.5%	93.5%			100.0%			100.0%							21.9%	78.1%
GM	Truck	Pickup	2002	2.3%	97.7%			100.0%			100.0%							15.4%	84.6%
GM	Truck	Pickup	2003	6.3%	93.7%			100.0%			100.0%							28.4%	71.6%
GM	Truck	Pickup	2004	2.8%	97.2%			100.0%			86.7%		13.3%		13.3%	0.0%		9.5%	90.5%
GM	Truck	Pickup	2005	4.3%	95.7%			100.0%			78.4%		21.6%		21.6%	0.1%		10.9%	89.1%
GM	Truck	Pickup	2006	4.3%	95.7%			100.0%			80.9%		19.1%		19.1%	0.4%		9.7%	90.3%
GM	Truck	Pickup	2007	1.8%	98.2%			100.0%			94.7%		5.3%		11.4%	0.1%		5.7%	94.3%
GM	Truck	Pickup	2008	1.0%	99.0%			100.0%			94.7%		5.3%		14.7%			7.3%	92.7%
GM	Truck	Pickup	2009	0.8%	98.6%	0.5%		100.0%			91.2%		8.8%		9.9%	0.5%		4.7%	95.3%
GM	Truck	Pickup	2010	0.4%	99.1%	0.4%		100.0%			89.9%		10.1%		92.3%	0.4%		1.9%	98.1%
GM	Truck	Pickup	2011	0.2%	99.5%	0.3%		100.0%			94.4%		5.6%		92.4%	0.3%		1.4%	98.6%
GM	Truck	Pickup	2012	2.8%	96.6%	0.6%		100.0%			87.1%		12.9%		90.0%	0.6%		3.3%	96.7%
GM	Car	All	1975	7.0%				2.2%									41.6%	26.1%	32.3%
GM	Car	All	1976	6.9%				1.7%									44.2%	27.6%	28.2%
GM	Car	All	1977	3.9%				1.2%									39.0%	26.5%	34.5%
GM	Car	All	1978	5.8%				1.8%		0.7%							29.5%	36.7%	33.8%
GM	Car	All	1979	6.2%	5.3%			2.0%		2.7%							25.9%	40.5%	33.6%
GM	Car	All	1980	12.9%	20.3%			0.3%	1.0%	4.7%							30.8%	51.5%	17.7%
GM	Car	All	1981	9.2%	59.3%				3.9%	8.0%							26.4%	53.4%	20.2%
GM	Car	All	1982	8.8%	91.0%				20.5%	6.3%							34.5%	44.3%	21.2%
GM	Car	All	1983	6.9%	92.9%			0.2%	28.7%	2.1%							26.3%	47.1%	26.6%
GM	Car	All	1984	9.0%	90.8%			0.9%	33.3%	0.9%							36.0%	42.9%	21.1%
GM	Car	All	1985	6.4%	92.8%			17.1%	35.0%	0.2%							31.9%	42.1%	26.0%
GM	Car	All	1986	9.1%	88.9%			25.9%	38.6%	0.0%	100.0%						40.8%	37.4%	21.8%
GM	Car	All	1987	7.6%	90.3%			37.7%	39.3%		100.0%						40.1%	34.3%	25.6%
GM	Car	All	1988	9.8%	88.4%			49.7%	38.1%		96.9%		3.1%				48.7%	29.1%	22.2%
GM	Car	All	1989	7.9%	90.5%			55.4%	40.3%		94.9%		5.1%				39.5%	35.8%	24.7%
GM	Car	All	1990	7.8%	91.2%			67.5%	31.4%		88.2%	1.8%	9.9%				39.3%	38.1%	22.6%
GM	Car	All	1991	10.5%	87.2%			54.9%	45.0%		91.7%	2.6%	5.6%				43.9%	34.5%	21.6%
GM	Car	All	1992	9.6%	87.6%			79.8%	20.1%		89.5%	1.9%	8.6%				44.4%	29.9%	25.6%
GM	Car	All	1993	10.7%	87.8%			84.6%	15.2%		88.5%	1.5%	9.9%				47.4%	30.8%	21.9%
GM	Car	All	1994	11.3%	87.3%			92.6%	7.4%		86.4%		13.6%				52.0%	27.2%	20.8%
GM	Car	All	1995	9.2%	89.6%			97.1%	2.9%		80.1%		19.9%				45.6%	34.1%	20.3%
GM	Car	All	1996	9.0%	91.0%			100.0%			74.9%		25.1%				48.7%	33.9%	17.3%
GM	Car	All	1997	8.6%	89.6%			97.6%	2.4%		71.3%		28.7%				47.2%	33.8%	19.0%
GM	Car	All	1998	7.2%	92.1%			99.6%	0.4%		74.8%		25.2%				39.0%	44.0%	16.9%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
GM	Car	All	1999	27.2	18.6	26.9	22.3	3422	111.3	191	171	10.3	0.903	0.0493	46.5	3049	5183	90.9%	
GM	Car	All	2000	27.2	18.4	27.1	22.3	3476	112.3	194	175	10.3	0.906	0.0498	47.4	3081	5333	88.1%	
GM	Car	All	2001	27.7	18.7	27.2	22.6	3477	112.5	192	177	10.1	0.933	0.0505	48.3	3143	5441	87.7%	
GM	Car	All	2002	28.2	18.9	27.4	22.8	3438	112.9	195	178	9.9	0.929	0.0514	48.5	3206	5492	92.0%	
GM	Car	All	2003	28.4	18.9	27.6	22.9	3481	113.9	190	180	9.9	0.961	0.0513	49.5	3253	5650	92.7%	0.6%
GM	Car	All	2004	28.7	18.9	28.0	23.1	3458	114.4	191	184	9.7	0.973	0.0525	49.6	3308	5693	91.7%	1.4%
GM	Car	All	2005	28.3	18.6	27.4	22.8	3549	117.2	193	188	9.8	0.981	0.0524	50.4	3347	5917	86.4%	5.9%
GM	Car	All	2006	28.0	18.4	27.0	22.5	3622	116.7	196	197	9.6	1.020	0.0540	50.9	3296	5963	88.1%	4.0%
GM	Car	All	2007	28.4	18.7	27.3	22.8	3612	113.6	189	193	9.7	1.040	0.0532	51.4	3252	5869	89.2%	2.8%
GM	Car	All	2008	28.1	18.5	27.1	22.6	3707	114.4	192	203	9.6	1.074	0.0544	52.3	3251	6014	87.2%	4.6%
GM	Car	All	2009	29.7	19.5	28.3	23.7	3620	112.7	179	196	9.7	1.106	0.0534	54.1	3397	6116	87.8%	4.2%
GM	Car	All	2010	29.7	19.5	28.6	23.8	3776	117.8	185	218	9.3	1.186	0.0571	56.4	3550	6694	76.1%	9.6%
GM	Car	All	2011	29.8	19.5	29.0	24.0	3849	122.4	172	210	9.8	1.254	0.0540	58.0	3719	7141	78.4%	10.7%
GM	Car	All	2012	31.4	20.2	30.6	25.1	3803	119.5	166	219	9.5	1.336	0.0568	60.6	3844	7284	75.3%	9.4%
GM	Truck	All	1975	14.1	11.3	12.9	12.0	4159		321	147	13.4	0.464	0.0354	29.7				14.6%
GM	Truck	All	1976	14.3	11.6	13.0	12.2	4266		331	142	13.9	0.435	0.0334	31.1				22.1%
GM	Truck	All	1977	15.1	12.5	13.3	12.8	4267		328	146	13.7	0.454	0.0343	32.7				22.6%
GM	Truck	All	1978	14.5	12.0	12.7	12.3	4302		326	152	13.2	0.476	0.0355	31.9				28.1%
GM	Truck	All	1979	14.5	12.0	12.6	12.3	4585		314	134	15.5	0.447	0.0292	34.1				9.7%
GM	Truck	All	1980	17.9	14.2	16.6	15.2	4252		278	135	14.4	0.509	0.0317	38.4				21.9%
GM	Truck	All	1981	19.4	15.5	18.0	16.5	4118		266	132	14.3	0.510	0.0320	40.4				14.7%
GM	Truck	All	1982	21.0	16.6	19.8	17.9	4030		257	132	14.1	0.535	0.0331	42.6				12.5%
GM	Truck	All	1983	20.6	16.1	19.8	17.6	4144		257	134	14.2	0.546	0.0325	43.0				28.6%
GM	Truck	All	1984	20.1	15.6	19.4	17.1	4158		252	132	14.4	0.544	0.0317	41.9				31.4%
GM	Truck	All	1985	20.0	15.5	19.3	17.0	4098		246	136	14.0	0.568	0.0330	41.3				32.5%
GM	Truck	All	1986	20.1	15.7	19.1	17.1	4068		245	137	13.7	0.585	0.0338	41.1				30.8%
GM	Truck	All	1987	20.4	15.6	19.6	17.3	4029		245	151	12.8	0.629	0.0370	41.1				32.1%
GM	Truck	All	1988	20.2	15.4	19.4	17.0	4140		269	161	12.4	0.612	0.0386	41.9				33.0%
GM	Truck	All	1989	20.3	15.4	19.5	17.1	4120		276	166	12.1	0.609	0.0399	42.0				34.1%
GM	Truck	All	1990	19.7	14.8	18.9	16.6	4281		280	168	12.4	0.612	0.0390	42.4			10.2%	31.0%
GM	Truck	All	1991	21.1	15.7	20.3	17.7	4006		257	156	12.4	0.616	0.0386	42.3			5.0%	34.2%
GM	Truck	All	1992	20.2	15.0	19.5	16.9	4195		270	167	12.1	0.629	0.0397	42.5			6.9%	33.1%
GM	Truck	All	1993	20.1	14.8	19.4	16.8	4329		277	178	11.8	0.652	0.0411	43.5			5.4%	35.6%
GM	Truck	All	1994	20.1	14.7	19.1	16.7	4388		278	181	11.7	0.671	0.0413	44.2			5.5%	41.9%
GM	Truck	All	1995	20.0	14.6	19.0	16.6	4420		273	179	11.9	0.682	0.0405	44.5			6.0%	44.8%
GM	Truck	All	1996	20.7	15.0	19.7	17.1	4503		274	200	11.1	0.748	0.0442	46.7			3.3%	48.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
GM	Car	All	1999	6.3%	93.1%			99.7%	0.3%		70.1%		29.9%				44.7%	41.6%	13.7%
GM	Car	All	2000	4.6%	94.5%			99.8%	0.2%		75.9%		24.1%		1.5%		40.3%	36.7%	23.1%
GM	Car	All	2001	4.9%	94.4%			100.0%			73.6%		26.4%		2.1%		39.6%	39.7%	20.7%
GM	Car	All	2002	6.1%	93.9%	0.0%		100.0%			74.2%		25.8%		1.2%		40.4%	35.5%	24.1%
GM	Car	All	2003	4.9%	93.5%	1.7%		100.0%			58.4%		41.6%		3.5%		35.0%	39.1%	25.9%
GM	Car	All	2004	5.9%	92.9%	1.2%		100.0%			53.9%		46.1%		8.4%		37.9%	33.0%	29.1%
GM	Car	All	2005	4.9%	95.1%			100.0%			63.8%		36.2%		11.0%		32.3%	32.7%	35.0%
GM	Car	All	2006	5.9%	94.1%			100.0%			51.4%		48.6%		22.2%		39.5%	27.0%	33.6%
GM	Car	All	2007	5.7%	94.3%		0.3%	99.7%			53.1%		46.9%		44.5%	0.5%	43.0%	25.7%	31.3%
GM	Car	All	2008	4.1%	95.9%		2.6%	97.4%			46.0%		54.0%		57.7%	0.3%	36.1%	29.4%	34.4%
GM	Car	All	2009	4.7%	95.3%		3.0%	97.0%			32.7%		67.3%		77.3%	0.8%	43.4%	28.8%	27.8%
GM	Car	All	2010	5.0%	95.0%		35.7%	64.3%			23.2%		76.8%		94.7%	0.0%	35.1%	25.9%	39.0%
GM	Car	All	2011	3.3%	96.7%		42.0%	58.0%			19.3%		80.7%		94.5%		11.5%	47.0%	41.5%
GM	Car	All	2012	8.3%	91.7%		60.9%	39.1%			4.1%		95.9%		96.7%	1.8%	21.6%	44.7%	33.8%
GM	Truck	All	1975	32.3%													5.2%	21.4%	73.3%
GM	Truck	All	1976	28.4%													3.8%	20.3%	75.9%
GM	Truck	All	1977	24.0%													5.5%	19.2%	75.2%
GM	Truck	All	1978	23.3%						1.8%							4.8%	24.1%	71.2%
GM	Truck	All	1979	27.9%						4.0%							7.8%	17.2%	75.0%
GM	Truck	All	1980	35.0%	59.8%					7.3%							13.7%	17.1%	69.2%
GM	Truck	All	1981	33.2%	65.9%					6.9%							12.0%	17.3%	70.7%
GM	Truck	All	1982	29.5%	70.4%					14.9%							2.8%	46.9%	50.4%
GM	Truck	All	1983	26.5%	73.5%					9.1%							2.1%	56.2%	41.7%
GM	Truck	All	1984	24.6%	74.6%					5.3%							3.5%	55.8%	40.6%
GM	Truck	All	1985	22.6%	74.9%				8.0%	2.4%							2.3%	61.1%	36.5%
GM	Truck	All	1986	26.1%	69.1%				38.2%	2.1%							6.4%	58.6%	35.0%
GM	Truck	All	1987	23.0%	66.4%				91.3%	0.8%								72.8%	27.2%
GM	Truck	All	1988	21.2%	69.8%			4.7%	93.4%	0.6%								57.5%	42.5%
GM	Truck	All	1989	22.7%	74.7%			3.6%	94.3%	0.4%							1.1%	59.5%	39.4%
GM	Truck	All	1990	19.6%	75.7%			3.1%	94.0%	0.5%							3.0%	50.5%	46.5%
GM	Truck	All	1991	29.7%	70.3%			1.2%	96.7%	0.4%							1.7%	67.4%	30.9%
GM	Truck	All	1992	24.5%	75.5%			11.1%	86.3%	0.2%							1.7%	58.3%	40.0%
GM	Truck	All	1993	17.6%	82.4%			19.6%	79.1%								1.4%	53.5%	45.1%
GM	Truck	All	1994	14.4%	85.6%			32.0%	66.9%		96.8%		3.2%				1.6%	51.6%	46.8%
GM	Truck	All	1995	17.1%	82.9%			46.0%	54.0%		93.5%		6.5%				1.7%	57.7%	40.6%
GM	Truck	All	1996	13.0%	87.0%			99.8%		0.2%	94.9%		5.1%				2.3%	50.1%	47.6%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
GM	Truck	All	1997	20.4	14.6	19.4	16.8	4662		282	211	10.9	0.764	0.0452	47.5			8.3%	46.2%
GM	Truck	All	1998	21.1	15.0	20.0	17.3	4394		263	201	10.9	0.785	0.0454	46.5			11.1%	44.9%
GM	Truck	All	1999	20.2	14.4	18.8	16.5	4656		280	217	10.7	0.788	0.0464	47.0			9.9%	48.6%
GM	Truck	All	2000	20.6	14.7	19.1	16.8	4559		269	214	10.7	0.804	0.0466	47.0			9.7%	48.8%
GM	Truck	All	2001	20.0	14.3	18.4	16.2	4786		278	227	10.5	0.823	0.0471	47.9			9.7%	47.1%
GM	Truck	All	2002	19.6	13.7	18.3	15.9	4993		284	255	9.9	0.902	0.0510	48.9			6.5%	56.7%
GM	Truck	All	2003	20.0	13.9	18.7	16.2	4933		275	245	10.2	0.896	0.0493	49.2			8.3%	50.2%
GM	Truck	All	2004	19.9	13.8	18.4	16.1	5085		290	264	9.7	0.919	0.0521	50.6			5.2%	55.7%
GM	Truck	All	2005	20.2	13.9	18.8	16.3	5075		284	266	9.7	0.942	0.0523	51.2			7.5%	52.6%
GM	Truck	All	2006	20.7	14.2	19.1	16.6	4954		275	260	9.7	0.955	0.0525	51.1			6.5%	53.6%
GM	Truck	All	2007	20.5	13.9	19.3	16.5	5365		297	288	9.5	0.974	0.0536	55.0			6.2%	51.0%
GM	Truck	All	2008	21.2	14.3	20.0	17.1	5244		284	280	9.5	0.997	0.0533	55.5			13.8%	50.1%
GM	Truck	All	2009	21.4	14.5	20.2	17.3	5299		285	293	9.3	1.047	0.0551	56.9			15.0%	46.9%
GM	Truck	All	2010	22.3	15.0	21.2	18.0	5336		282	292	9.3	1.057	0.0547	59.6			17.4%	53.2%
GM	Truck	All	2011	22.0	14.8	20.9	17.8	5446		292	309	9.1	1.083	0.0567	60.1			14.6%	58.3%
GM	Truck	All	2012	22.2	14.9	20.8	17.8	5303		289	301	9.1	1.060	0.0568	59.0			9.7%	51.3%
GM	All	All	1975	14.9	11.7	14.0	12.7	4432		338	150	13.9	0.453	0.0337	33.2			1.9%	2.9%
GM	All	All	1976	16.1	12.7	15.1	13.7	4373		330	147	14.0	0.455	0.0333	35.4			2.0%	4.6%
GM	All	All	1977	17.2	13.7	15.9	14.6	4201		317	145	13.6	0.464	0.0345	36.4			1.9%	4.2%
GM	All	All	1978	17.8	14.2	16.6	15.2	3898		297	139	13.3	0.477	0.0355	35.3			1.9%	6.0%
GM	All	All	1979	18.0	14.4	16.5	15.3	3928		290	135	13.7	0.483	0.0345	35.8			3.2%	2.0%
GM	All	All	1980	21.3	16.6	20.4	18.1	3495		232	116	13.9	0.533	0.0333	37.3			23.9%	2.8%
GM	All	All	1981	22.6	17.5	21.9	19.3	3538		232	114	14.4	0.519	0.0321	40.1			22.2%	2.0%
GM	All	All	1982	23.5	18.0	23.4	20.1	3490		221	115	14.2	0.551	0.0328	41.3			30.4%	2.3%
GM	All	All	1983	22.9	17.5	22.9	19.5	3582		229	120	13.9	0.551	0.0334	41.1			29.7%	5.5%
GM	All	All	1984	23.5	17.9	23.5	20.0	3498		217	118	13.8	0.576	0.0337	41.2			36.2%	5.8%
GM	All	All	1985	24.0	18.2	24.2	20.5	3497		215	121	13.6	0.587	0.0344	42.2			46.6%	7.1%
GM	All	All	1986	25.1	19.0	25.2	21.4	3366		202	120	13.3	0.624	0.0354	42.6			56.2%	6.5%
GM	All	All	1987	25.3	18.9	25.5	21.4	3386		204	129	12.7	0.658	0.0377	43.0			58.7%	7.3%
GM	All	All	1988	25.2	18.8	25.3	21.3	3444		206	133	12.5	0.675	0.0384	43.8			61.9%	9.5%
GM	All	All	1989	24.8	18.3	24.8	20.9	3477		215	143	11.9	0.693	0.0408	43.3			60.9%	10.4%
GM	All	All	1990	24.5	17.9	24.6	20.6	3560		212	146	12.0	0.722	0.0408	43.8			68.9%	9.2%
GM	All	All	1991	24.8	18.0	24.9	20.8	3500		211	144	11.9	0.716	0.0410	43.5			59.6%	11.1%
GM	All	All	1992	24.2	17.4	24.5	20.3	3585		217	152	11.6	0.738	0.0423	43.6			63.3%	10.2%
GM	All	All	1993	24.3	17.5	24.3	20.3	3631		219	157	11.4	0.751	0.0432	44.3			61.8%	11.9%
GM	All	All	1994	24.1	17.3	23.7	20.0	3700		221	161	11.4	0.765	0.0434	44.7			56.1%	15.6%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
GM	Truck	All	1997	9.2%	90.8%			99.9%		0.1%	96.9%		3.1%				1.0%	48.5%	50.5%
GM	Truck	All	1998	11.7%	88.3%			99.9%		0.1%	95.9%		4.1%				2.9%	56.4%	40.7%
GM	Truck	All	1999	5.9%	94.1%			100.0%		0.0%	96.9%		3.1%				1.7%	43.4%	54.9%
GM	Truck	All	2000	5.2%	94.8%			100.0%			97.9%		2.1%				1.7%	47.1%	51.3%
GM	Truck	All	2001	3.1%	96.9%			100.0%			97.4%		2.6%				2.9%	34.3%	62.8%
GM	Truck	All	2002	1.0%	98.9%	0.1%		100.0%			78.3%		21.7%		19.2%		1.5%	20.8%	77.7%
GM	Truck	All	2003	2.6%	96.8%	0.6%		100.0%			80.5%		19.5%		17.4%		1.2%	26.9%	71.9%
GM	Truck	All	2004	1.1%	98.6%	0.3%		100.0%			72.3%		27.7%		25.4%	0.0%	0.4%	14.4%	85.1%
GM	Truck	All	2005	1.9%	98.0%	0.1%		100.0%			70.8%		29.2%		29.1%	0.1%		15.8%	84.2%
GM	Truck	All	2006	2.3%	97.7%			100.0%			65.3%		34.7%		35.3%	0.2%		13.5%	86.5%
GM	Truck	All	2007	0.9%	99.1%			100.0%			83.9%		16.1%		30.6%	0.0%		7.3%	92.7%
GM	Truck	All	2008	0.5%	98.9%	0.6%		100.0%			74.1%		25.9%		41.5%	0.6%		11.0%	89.0%
GM	Truck	All	2009	0.5%	98.3%	1.1%	9.8%	90.2%			67.8%		32.2%		36.7%	1.1%		4.4%	95.6%
GM	Truck	All	2010	0.2%	99.4%	0.4%	30.2%	69.8%			63.9%		36.1%		94.8%	0.4%		1.5%	98.5%
GM	Truck	All	2011	0.1%	99.6%	0.3%	26.3%	73.7%			70.8%		29.2%		95.7%	0.3%		0.9%	99.1%
GM	Truck	All	2012	1.4%	96.2%	2.3%	24.5%	75.5%			68.7%		31.3%		93.6%	2.3%		2.0%	98.0%
GM	All	All	1975	12.0%				1.8%									34.3%	25.2%	40.5%
GM	All	All	1976	11.4%				1.3%									35.8%	26.1%	38.2%
GM	All	All	1977	7.6%				1.0%									32.8%	25.2%	42.0%
GM	All	All	1978	9.5%				1.4%		0.9%							24.2%	34.0%	41.8%
GM	All	All	1979	10.6%	4.2%			1.6%		2.9%							22.2%	35.8%	42.0%
GM	All	All	1980	15.7%	25.3%			0.3%	0.9%	5.1%							28.6%	47.1%	24.3%
GM	All	All	1981	12.5%	60.2%				3.3%	7.9%							24.4%	48.4%	27.2%
GM	All	All	1982	12.6%	87.3%				16.8%	7.8%							28.7%	44.7%	26.5%
GM	All	All	1983	10.6%	89.2%			0.2%	23.2%	3.4%							21.6%	48.8%	29.5%
GM	All	All	1984	11.8%	87.8%			0.8%	27.2%	1.7%							30.0%	45.3%	24.7%
GM	All	All	1985	10.0%	88.8%			13.3%	29.1%	0.7%							25.4%	46.3%	28.3%
GM	All	All	1986	12.7%	84.7%			20.4%	38.6%	0.4%	78.8%						33.5%	41.9%	24.6%
GM	All	All	1987	11.1%	84.9%			29.1%	51.1%	0.2%	77.3%						31.0%	43.0%	25.9%
GM	All	All	1988	13.1%	83.1%			36.7%	54.0%	0.2%	69.0%		2.2%				34.7%	37.2%	28.1%
GM	All	All	1989	12.4%	85.7%			39.7%	56.7%	0.1%	66.1%		3.5%				27.9%	43.0%	29.1%
GM	All	All	1990	11.3%	86.6%			48.4%	49.9%	0.1%	62.1%	1.3%	7.0%				28.6%	41.8%	29.7%
GM	All	All	1991	16.7%	81.7%			37.6%	61.7%	0.1%	62.1%	1.8%	3.8%				30.3%	45.1%	24.6%
GM	All	All	1992	14.2%	83.9%			58.6%	40.5%	0.1%	61.9%	1.3%	5.9%				31.3%	38.7%	30.1%
GM	All	All	1993	13.0%	86.0%			62.8%	36.6%		58.9%	1.0%	6.6%				32.0%	38.4%	29.7%
GM	All	All	1994	12.4%	86.6%			70.0%	29.6%		90.3%		9.7%				33.2%	36.3%	30.5%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
GM	All	All	1995	23.9	17.0	23.6	19.8	3760		223	170	10.9	0.803	0.0455	45.2			56.5%	17.2%
GM	All	All	1996	24.7	17.4	24.3	20.4	3766		220	179	10.6	0.841	0.0473	46.5			57.9%	17.2%
GM	All	All	1997	24.4	17.1	23.9	20.1	3841		222	185	10.5	0.860	0.0481	46.8			60.2%	17.9%
GM	All	All	1998	24.5	17.1	23.9	20.1	3781		220	185	10.4	0.863	0.0486	46.4			59.7%	17.6%
GM	All	All	1999	23.7	16.6	22.9	19.4	3935		228	190	10.5	0.855	0.0481	46.7			57.2%	20.2%
GM	All	All	2000	23.8	16.5	22.8	19.4	3962		228	193	10.5	0.860	0.0483	47.2			52.9%	21.9%
GM	All	All	2001	23.8	16.5	22.6	19.4	4032		228	198	10.3	0.886	0.0491	48.1			54.6%	19.9%
GM	All	All	2002	23.2	15.9	22.0	18.8	4210		239	216	9.9	0.916	0.0512	48.7			49.5%	28.1%
GM	All	All	2003	23.1	15.8	21.9	18.7	4272		236	215	10.1	0.926	0.0502	49.3			46.8%	27.6%
GM	All	All	2004	23.4	15.9	22.1	18.9	4287		242	225	9.7	0.946	0.0523	50.1			47.6%	29.1%
GM	All	All	2005	23.8	16.0	22.5	19.1	4276		236	225	9.7	0.963	0.0524	50.8			48.8%	28.1%
GM	All	All	2006	24.4	16.4	23.0	19.6	4183		229	224	9.6	0.993	0.0534	51.0			53.8%	24.9%
GM	All	All	2007	23.8	15.9	22.6	19.1	4492		243	241	9.6	1.007	0.0534	53.2			47.6%	27.0%
GM	All	All	2008	24.4	16.3	23.3	19.6	4421		235	239	9.6	1.038	0.0539	53.8			53.1%	25.8%
GM	All	All	2009	25.6	17.1	24.3	20.6	4305		222	235	9.5	1.082	0.0541	55.3			58.1%	21.6%
GM	All	All	2010	26.5	17.5	25.3	21.3	4349		221	245	9.3	1.139	0.0562	57.6			54.5%	25.6%
GM	All	All	2011	25.7	17.1	24.7	20.7	4567		225	255	9.5	1.177	0.0552	58.9			49.8%	32.1%
GM	All	All	2012	26.7	17.6	25.6	21.4	4433		218	253	9.3	1.220	0.0568	59.9			47.8%	27.0%
Toyota	Car	Car	1975	21.2	16.0	21.6	18.1	2746		129	94	13.3	0.727	0.0341	29.2				
Toyota	Car	Car	1976	25.0	19.1	25.1	21.4	2742		116	85	14.4	0.741	0.0309	34.4				
Toyota	Car	Car	1977	28.8	22.3	28.0	24.6	2623	84.5	108	79	14.7	0.743	0.0301	38.3	2514	3244		
Toyota	Car	Car	1978	27.0	21.1	25.9	23.0	2611	88.2	112	82	14.4	0.741	0.0313	35.9	2444	3157		
Toyota	Car	Car	1979	23.9	18.6	23.0	20.4	2708	86.3	113	81	14.9	0.729	0.0299	32.7	2116	2821		
Toyota	Car	Car	1980	27.4	21.6	25.8	23.3	2622	89.3	115	78	14.9	0.682	0.0298	36.2	2516	3234	19.6%	
Toyota	Car	Car	1981	31.1	24.7	28.9	26.4	2555	88.8	114	76	15.1	0.668	0.0294	40.0	2821	3548	22.2%	
Toyota	Car	Car	1982	30.5	24.0	28.9	26.0	2576	89.9	118	81	14.6	0.684	0.0309	39.5	2798	3549	26.8%	
Toyota	Car	Car	1983	31.7	25.0	29.9	26.9	2744	95.3	124	92	14.1	0.732	0.0327	43.6	3123	4160	42.2%	
Toyota	Car	Car	1984	32.8	25.8	30.9	27.9	2712	97.5	118	89	14.3	0.744	0.0323	44.7	3287	4364	56.1%	
Toyota	Car	Car	1985	32.1	25.2	30.4	27.3	2778	95.7	122	101	13.3	0.819	0.0356	44.8	3156	4303	47.8%	
Toyota	Car	Car	1986	32.3	25.2	30.5	27.4	2769	97.1	116	99	13.5	0.839	0.0349	44.8	3198	4354	81.5%	
Toyota	Car	Car	1987	33.0	25.4	31.3	27.8	2822	95.3	115	107	12.8	0.919	0.0371	46.7	3225	4450	80.0%	
Toyota	Car	Car	1988	32.7	25.2	30.7	27.5	2778	94.8	111	105	12.7	0.932	0.0371	45.5	3151	4321	94.1%	0.3%
Toyota	Car	Car	1989	31.9	24.4	29.8	26.7	2829	94.7	115	110	12.4	0.952	0.0384	45.2	3072	4290	90.8%	0.4%
Toyota	Car	Car	1990	30.4	23.1	28.6	25.4	2959	95.9	122	122	12.0	0.992	0.0403	45.1	2956	4330	91.2%	0.1%
Toyota	Car	Car	1991	30.6	23.0	28.5	25.4	2920	96.3	121	121	11.9	0.998	0.0406	44.7	2988	4311	83.9%	
Toyota	Car	Car	1992	28.9	21.5	27.2	24.0	3096	101.2	129	131	11.7	1.017	0.0416	44.6	2969	4525	60.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
GM	All	All	1995	12.3%	87.0%			77.5%	22.5%		85.2%		14.8%				28.8%	43.2%	28.0%
GM	All	All	1996	10.4%	89.6%			99.9%		0.1%	82.0%		18.0%				32.1%	39.7%	28.2%
GM	All	All	1997	8.8%	90.1%			98.5%	1.5%	0.0%	81.3%		18.7%				29.3%	39.5%	31.2%
GM	All	All	1998	9.0%	90.6%			99.7%	0.3%	0.0%	83.1%		16.9%				24.9%	48.9%	26.2%
GM	All	All	1999	6.1%	93.5%			99.8%	0.2%	0.0%	81.2%		18.8%				26.8%	42.3%	30.8%
GM	All	All	2000	4.8%	94.6%			99.9%	0.1%		85.8%		14.2%		0.8%		22.9%	41.3%	35.7%
GM	All	All	2001	4.1%	95.5%			100.0%			83.7%		16.3%		1.2%		24.1%	37.4%	38.5%
GM	All	All	2002	3.6%	96.4%	0.1%		100.0%			76.2%		23.8%		10.1%		21.1%	28.2%	50.7%
GM	All	All	2003	3.6%	95.3%	1.1%		100.0%			70.4%		29.6%		11.0%		16.6%	32.5%	51.0%
GM	All	All	2004	3.5%	95.8%	0.7%		100.0%			63.3%		36.7%		17.1%	0.0%	18.8%	23.6%	57.7%
GM	All	All	2005	3.5%	96.5%	0.0%		100.0%			67.2%		32.8%		19.6%	0.0%	16.9%	24.6%	58.5%
GM	All	All	2006	4.4%	95.6%			100.0%			57.2%		42.8%		27.8%	0.1%	22.9%	21.3%	55.9%
GM	All	All	2007	3.3%	96.7%		0.1%	99.9%			68.6%		31.4%		37.5%	0.2%	21.4%	16.5%	62.1%
GM	All	All	2008	2.4%	97.3%	0.3%	1.4%	98.6%			59.0%		41.0%		50.2%	0.4%	19.3%	20.9%	59.8%
GM	All	All	2009	3.0%	96.6%	0.5%	5.8%	94.2%			47.0%		53.0%		60.8%	1.0%	25.7%	18.8%	55.5%
GM	All	All	2010	3.2%	96.6%	0.1%	33.7%	66.3%			38.2%		61.8%		94.8%	0.2%	22.2%	16.9%	60.9%
GM	All	All	2011	1.9%	98.0%	0.1%	35.0%	65.0%			42.4%		57.6%		95.1%	0.1%	6.3%	26.3%	67.4%
GM	All	All	2012	5.4%	93.6%	1.0%	45.6%	54.4%			31.2%		68.8%		95.4%	2.0%	12.5%	26.8%	60.7%
Toyota	Car	Car	1975	78.5%													100.0%		
Toyota	Car	Car	1976	65.7%													100.0%		
Toyota	Car	Car	1977	77.3%													100.0%		
Toyota	Car	Car	1978	70.6%													100.0%		
Toyota	Car	Car	1979	65.6%				6.4%									100.0%		
Toyota	Car	Car	1980	64.8%				5.3%									100.0%		
Toyota	Car	Car	1981	59.9%				6.4%									100.0%		
Toyota	Car	Car	1982	57.4%	4.5%			12.9%									100.0%		
Toyota	Car	Car	1983	56.9%	16.7%			56.8%									100.0%		
Toyota	Car	Car	1984	46.4%	42.3%			48.8%		2.0%							100.0%		
Toyota	Car	Car	1985	46.4%	40.7%			69.3%		0.7%							100.0%		
Toyota	Car	Car	1986	40.6%	55.8%			62.4%		0.2%	84.4%		15.6%				100.0%		
Toyota	Car	Car	1987	40.6%	59.4%			57.0%			32.2%	16.3%	51.6%				100.0%		
Toyota	Car	Car	1988	34.0%	66.0%			51.2%			10.8%	17.8%	71.4%				100.0%		
Toyota	Car	Car	1989	29.0%	71.0%			54.4%				18.4%	81.6%				100.0%		
Toyota	Car	Car	1990	23.2%	76.8%			88.6%				12.6%	87.4%		6.0%		94.0%	6.0%	
Toyota	Car	Car	1991	27.1%	72.9%			100.0%				15.9%	84.1%		5.9%		94.1%	5.9%	
Toyota	Car	Car	1992	21.5%	78.5%			100.0%				12.7%	87.3%		7.9%		60.2%	39.8%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Toyota	Car	Car	1993	28.9	21.2	27.5	24.0	3144	103.8	132	138	11.4	1.039	0.0430	45.4	3062	4729	91.0%	
Toyota	Car	Car	1994	29.0	21.1	27.6	24.0	3144	104.2	131	131	11.8	1.002	0.0412	45.6	3074	4758	94.0%	
Toyota	Car	Car	1995	30.0	21.6	28.6	24.7	3175	105.3	135	139	11.4	1.029	0.0431	47.6	3201	5020	61.7%	
Toyota	Car	Car	1996	29.5	21.1	27.9	24.2	3204	106.7	134	134	11.8	0.997	0.0415	47.2	3183	5045	96.0%	
Toyota	Car	Car	1997	29.8	21.1	28.3	24.3	3232	106.2	137	142	11.5	1.030	0.0432	48.2	3190	5135	96.9%	
Toyota	Car	Car	1998	30.2	21.2	28.6	24.6	3313	108.3	143	152	11.0	1.057	0.0456	50.3	3317	5449	93.1%	
Toyota	Car	Car	1999	30.4	21.2	28.5	24.6	3304	107.8	142	153	11.0	1.070	0.0459	50.3	3310	5425	94.5%	
Toyota	Car	Car	2000	30.5	21.1	28.8	24.7	3260	107.6	141	155	10.6	1.107	0.0475	49.9	3331	5382	95.3%	
Toyota	Car	Car	2001	31.3	21.4	29.3	25.1	3242	106.9	141	156	10.7	1.106	0.0477	51.5	3441	5501	88.9%	
Toyota	Car	Car	2002	30.7	20.9	28.8	24.6	3352	111.1	154	170	10.2	1.107	0.0503	52.1	3494	5794	89.3%	
Toyota	Car	Car	2003	32.2	21.7	30.0	25.7	3217	111.0	143	161	10.1	1.134	0.0497	52.3	3645	5800	93.4%	
Toyota	Car	Car	2004	32.4	21.6	30.1	25.7	3330	111.4	147	166	10.0	1.125	0.0490	55.3	3772	6166	93.0%	
Toyota	Car	Car	2005	34.5	22.9	31.5	27.1	3263	110.2	141	157	10.2	1.106	0.0474	58.5	4031	6466	96.0%	
Toyota	Car	Car	2006	34.2	22.8	31.1	26.9	3288	108.1	144	164	10.0	1.127	0.0488	58.1	3909	6306	88.2%	3.1%
Toyota	Car	Car	2007	34.9	23.3	31.5	27.3	3370	109.6	146	170	9.9	1.138	0.0492	60.9	4047	6699	92.7%	1.6%
Toyota	Car	Car	2008	36.3	24.3	32.2	28.3	3319	108.0	142	165	9.8	1.127	0.0480	63.5	4263	6905	89.6%	2.6%
Toyota	Car	Car	2009	36.6	24.4	32.7	28.6	3313	109.3	134	154	10.4	1.141	0.0458	62.4	4171	6836	95.8%	1.5%
Toyota	Car	Car	2010	39.6	26.6	34.5	30.6	3336	109.0	131	152	10.2	1.141	0.0450	71.9	4735	7924	95.2%	1.4%
Toyota	Car	Car	2011	36.8	24.3	33.2	28.7	3471	112.0	145	171	9.8	1.160	0.0486	68.1	4422	7646	95.6%	1.4%
Toyota	Car	Car	2012	40.4	27.1	35.1	31.1	3343	110.2	137	158	10.0	1.135	0.0465	71.9	4783	7966	95.7%	1.4%
Toyota	Car	Wagon	1975	22.8	18.0	21.5	19.4	2693		113	84	14.4	0.748	0.0311	30.8				
Toyota	Car	Wagon	1976	24.6	19.1	23.8	21.0	2703		114	84	14.5	0.744	0.0310	33.4				
Toyota	Car	Wagon	1977	27.8	21.8	26.5	23.7	2661	109.2	109	80	14.8	0.740	0.0300	37.2	3068	4063		
Toyota	Car	Wagon	1978	25.5	20.3	23.6	21.7	2701	108.8	114	84	14.5	0.742	0.0309	34.9	2830	3786		
Toyota	Car	Wagon	1979	24.9	19.6	23.7	21.2	2622	108.5	107	79	14.8	0.743	0.0301	32.9	2729	3560		
Toyota	Car	Wagon	1980	27.4	22.0	25.2	23.3	2605	111.8	114	79	14.8	0.689	0.0301	35.9	3094	4010		
Toyota	Car	Wagon	1981	29.1	23.4	26.6	24.7	2584	110.0	116	76	15.3	0.653	0.0291	37.7	3208	4146		
Toyota	Car	Wagon	1982	29.3	23.5	26.8	24.9	2562	111.2	115	75	15.3	0.653	0.0292	37.5	3260	4174		
Toyota	Car	Wagon	1983	34.8	28.1	31.5	29.5	2498	98.0	97	70	15.7	0.720	0.0279	43.5	3421	4268		95.5%
Toyota	Car	Wagon	1984	33.9	27.2	31.0	28.8	2573	119.8	95	68	16.8	0.708	0.0260	43.8	4104	5243	40.3%	52.4%
Toyota	Car	Wagon	1985	35.1	27.8	33.0	29.9	2515	117.9	98	64	16.8	0.648	0.0253	44.2	4156	5217	1.6%	96.4%
Toyota	Car	Wagon	1986	32.1	25.5	29.4	27.2	2618	121.4	98	73	16.4	0.724	0.0271	42.2	3957	5132	88.2%	
Toyota	Car	Wagon	1987	32.6	25.3	30.6	27.5	2902	123.5	116	104	13.3	0.890	0.0356	47.3	4028	5845	90.2%	8.2%
Toyota	Car	Wagon	1988	31.5	24.4	29.4	26.5	2919	121.2	113	107	12.9	0.939	0.0363	46.1	3857	5599	89.2%	10.8%
Toyota	Car	Wagon	1989	30.6	23.4	28.7	25.6	2941	120.5	115	110	12.6	0.959	0.0372	45.1	3741	5445	86.2%	13.8%
Toyota	Car	Wagon	1990	29.9	22.7	27.9	25.0	2995	120.7	115	117	12.2	1.017	0.0388	45.0	3660	5433	92.2%	7.8%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Toyota	Car	Car	1993	19.1%	80.9%			100.0%				13.5%	86.5%		8.6%		55.5%	44.5%	
Toyota	Car	Car	1994	17.2%	82.8%			100.0%				13.8%	86.2%		5.5%		53.2%	46.8%	
Toyota	Car	Car	1995	10.8%	89.2%			100.0%					100.0%		6.2%		49.1%	43.2%	7.8%
Toyota	Car	Car	1996	8.2%	91.8%			100.0%					100.0%		4.0%		43.3%	48.0%	8.7%
Toyota	Car	Car	1997	5.7%	94.3%			100.0%					100.0%		3.0%		43.6%	47.3%	9.1%
Toyota	Car	Car	1998	4.0%	96.0%			100.0%					100.0%		6.8%		35.7%	55.1%	9.2%
Toyota	Car	Car	1999	4.9%	95.1%			100.0%					100.0%		10.5%		40.9%	52.4%	6.7%
Toyota	Car	Car	2000	7.7%	92.3%			100.0%					100.0%		52.7%		43.2%	45.5%	11.3%
Toyota	Car	Car	2001	6.4%	91.9%	1.8%		100.0%					100.0%		60.8%		49.8%	38.0%	12.2%
Toyota	Car	Car	2002	5.4%	92.2%	2.4%		100.0%					100.0%		87.8%	2.4%	34.4%	58.4%	7.2%
Toyota	Car	Car	2003	4.9%	93.7%	1.4%		100.0%					100.0%		97.3%	1.4%	44.4%	46.5%	9.0%
Toyota	Car	Car	2004	4.0%	90.7%	5.3%		100.0%					100.0%		100.0%	5.3%	41.3%	49.6%	9.1%
Toyota	Car	Car	2005	6.2%	83.9%	9.9%		100.0%					100.0%		100.0%	9.9%	43.0%	50.0%	7.1%
Toyota	Car	Car	2006	6.6%	85.2%	8.2%		100.0%					100.0%		100.0%	8.2%	54.7%	34.5%	10.8%
Toyota	Car	Car	2007	4.9%	81.9%	13.2%		100.0%					100.0%		100.0%	13.4%	37.7%	57.7%	4.6%
Toyota	Car	Car	2008	5.4%	75.4%	19.2%	0.9%	99.1%					100.0%		100.0%	19.5%	44.4%	49.7%	5.8%
Toyota	Car	Car	2009	3.5%	84.9%	11.6%	3.3%	96.7%					100.0%		100.0%	11.7%	45.7%	52.3%	2.0%
Toyota	Car	Car	2010	2.3%	75.9%	21.8%	2.7%	97.3%					100.0%		100.0%	21.8%	49.2%	49.6%	1.1%
Toyota	Car	Car	2011	1.3%	83.2%	15.5%	4.4%	95.6%					100.0%		100.0%	15.5%	30.1%	64.5%	5.4%
Toyota	Car	Car	2012	3.7%	74.0%	22.3%	4.3%	95.7%					100.0%		100.0%	20.6%	44.7%	53.1%	2.1%
Toyota	Car	Wagon	1975	59.1%													100.0%		
Toyota	Car	Wagon	1976	45.5%													100.0%		
Toyota	Car	Wagon	1977	60.1%													100.0%		
Toyota	Car	Wagon	1978	51.4%													100.0%		
Toyota	Car	Wagon	1979	49.8%													100.0%		
Toyota	Car	Wagon	1980	46.5%				3.8%									100.0%		
Toyota	Car	Wagon	1981	44.4%				6.3%									100.0%		
Toyota	Car	Wagon	1982	43.4%				10.0%									100.0%		
Toyota	Car	Wagon	1983	56.3%	2.0%			2.0%									100.0%		
Toyota	Car	Wagon	1984	58.8%	7.3%			7.3%									100.0%		
Toyota	Car	Wagon	1985	42.0%	56.1%			2.0%									98.0%	2.0%	
Toyota	Car	Wagon	1986	51.5%	11.8%			11.8%			100.0%						88.2%	11.8%	
Toyota	Car	Wagon	1987	17.6%	73.7%			78.8%			22.7%		77.3%				98.4%	1.6%	
Toyota	Car	Wagon	1988	26.9%	71.8%			62.3%				4.2%	95.8%				100.0%		
Toyota	Car	Wagon	1989	27.0%	73.0%			63.3%					100.0%				100.0%		
Toyota	Car	Wagon	1990	20.2%	79.8%			100.0%					100.0%				100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Toyota	Car	Wagon	1991	30.8	23.3	28.4	25.6	2937	120.4	111	112	12.4	1.014	0.0381	45.4	3748	5472	100.0%	
Toyota	Car	Wagon	1992	28.9	21.5	27.1	24.0	3073	127.1	122	126	12.0	1.036	0.0404	44.5	3694	5656	84.5%	
Toyota	Car	Wagon	1993	29.7	21.7	28.4	24.6	3096	130.9	130	136	11.2	1.052	0.0436	46.3	3940	6048	100.0%	
Toyota	Car	Wagon	1994	29.5	21.3	28.2	24.3	3205	131.0	130	131	11.7	1.018	0.0410	47.2	3906	6182	100.0%	
Toyota	Car	Wagon	1995	30.8	22.1	29.4	25.3	3230	131.4	131	135	11.5	1.035	0.0417	49.6	4079	6527	74.2%	
Toyota	Car	Wagon	1996	30.6	21.8	29.1	25.1	3227	131.4	131	132	11.7	1.016	0.0409	49.3	4062	6484	100.0%	
Toyota	Car	Wagon	1997																
Toyota	Car	Wagon	1998																
Toyota	Car	Wagon	1999																
Toyota	Car	Wagon	2000																
Toyota	Car	Wagon	2001																
Toyota	Car	Wagon	2002																
Toyota	Car	Wagon	2003	35.2	24.5	30.4	27.5	3000	111.3	110	135	10.9	1.227	0.0450	52.9	3927	5891	90.1%	9.9%
Toyota	Car	Wagon	2004	36.1	25.0	30.9	28.0	2927	115.9	104	125	11.4	1.193	0.0425	52.9	4187	6127	91.5%	8.5%
Toyota	Car	Wagon	2005	37.0	25.5	31.2	28.4	2880	113.8	101	119	11.6	1.184	0.0414	53.3	4214	6064	92.7%	7.3%
Toyota	Car	Wagon	2006	36.5	25.1	30.8	28.1	2848	113.2	98	112	12.1	1.134	0.0391	51.9	4130	5882	92.8%	7.2%
Toyota	Car	Wagon	2007	36.5	24.9	31.4	28.2	3000	116.0	110	126	11.4	1.145	0.0420	54.7	4231	6347	100.0%	
Toyota	Car	Wagon	2008	32.8	22.4	28.6	25.6	3359	120.6	134	149	11.0	1.111	0.0443	55.1	3968	6646	100.0%	
Toyota	Car	Wagon	2009	33.0	22.6	28.7	25.7	3334	115.8	133	149	10.9	1.131	0.0448	55.0	3839	6375	91.3%	8.7%
Toyota	Car	Wagon	2010	33.3	22.8	28.8	25.9	3304	117.9	131	148	10.9	1.137	0.0447	55.1	3945	6492	92.2%	7.8%
Toyota	Car	Wagon	2011	32.1	22.0	28.1	25.1	3428	120.8	139	154	10.8	1.112	0.0450	55.1	3890	6657	97.4%	2.6%
Toyota	Car	Wagon	2012	42.1	29.6	33.4	31.7	3468	126.3	124	125	10.5	0.996	0.0361	80.0	5890	10240	98.9%	1.1%
Toyota	Car	Non-Truck SUV	1975	12.0	9.0	12.2	10.2	4000		257	110	15.7	0.428	0.0275	24.0				
Toyota	Car	Non-Truck SUV	1976	10.7	8.0	11.3	9.2	4000		258	125	14.2	0.484	0.0313	21.5				
Toyota	Car	Non-Truck SUV	1977	13.7	10.7	13.1	11.7	4000	100.0	258	125	14.2	0.484	0.0313	28.2	1410	2821		
Toyota	Car	Non-Truck SUV	1978	13.0	9.8	13.1	11.1	4000	100.0	258	125	14.2	0.484	0.0313	26.4	1321	2642		
Toyota	Car	Non-Truck SUV	1979	13.8	11.0	12.8	11.7	4000	100.0	258	125	14.2	0.484	0.0313	27.6	1380	2761		
Toyota	Car	Non-Truck SUV	1980																
Toyota	Car	Non-Truck SUV	1981																
Toyota	Car	Non-Truck SUV	1982																
Toyota	Car	Non-Truck SUV	1983																
Toyota	Car	Non-Truck SUV	1984																
Toyota	Car	Non-Truck SUV	1985																
Toyota	Car	Non-Truck SUV	1986																
Toyota	Car	Non-Truck SUV	1987																
Toyota	Car	Non-Truck SUV	1988																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Toyota	Car	Wagon	1991	24.8%	75.2%			100.0%					100.0%				100.0%		
Toyota	Car	Wagon	1992	24.1%	75.9%			100.0%					100.0%				61.0%	39.0%	
Toyota	Car	Wagon	1993	15.2%	84.8%			100.0%					100.0%				53.8%	46.2%	
Toyota	Car	Wagon	1994	18.8%	81.2%			100.0%					100.0%				53.7%	46.3%	
Toyota	Car	Wagon	1995	16.3%	83.7%			100.0%					100.0%				51.3%	48.7%	
Toyota	Car	Wagon	1996	12.6%	87.4%			100.0%					100.0%				51.3%	48.7%	
Toyota	Car	Wagon	1997																
Toyota	Car	Wagon	1998																
Toyota	Car	Wagon	1999																
Toyota	Car	Wagon	2000																
Toyota	Car	Wagon	2001																
Toyota	Car	Wagon	2002																
Toyota	Car	Wagon	2003	18.8%	81.2%			100.0%					100.0%		100.0%		100.0%		
Toyota	Car	Wagon	2004	20.7%	79.3%			100.0%					100.0%		100.0%		100.0%		
Toyota	Car	Wagon	2005	20.5%	79.5%			100.0%					100.0%		100.0%		100.0%		
Toyota	Car	Wagon	2006	19.0%	81.0%			100.0%					100.0%		100.0%		100.0%		
Toyota	Car	Wagon	2007	12.9%	87.1%			100.0%					100.0%		100.0%		100.0%		
Toyota	Car	Wagon	2008	16.0%	84.0%			100.0%					100.0%		100.0%		100.0%		
Toyota	Car	Wagon	2009	11.0%	89.0%			100.0%					100.0%		100.0%		100.0%		
Toyota	Car	Wagon	2010	8.7%	91.3%			100.0%					100.0%		100.0%		100.0%		
Toyota	Car	Wagon	2011	7.7%	92.3%			100.0%					100.0%		100.0%		100.0%		
Toyota	Car	Wagon	2012	5.3%	42.3%	52.3%		100.0%					100.0%		100.0%	52.3%	47.7%	52.3%	
Toyota	Car	Non-Truck SUV	1975	100.0%													100.0%		
Toyota	Car	Non-Truck SUV	1976	100.0%													100.0%		
Toyota	Car	Non-Truck SUV	1977	100.0%													100.0%		
Toyota	Car	Non-Truck SUV	1978	100.0%													100.0%		
Toyota	Car	Non-Truck SUV	1979	100.0%													100.0%		
Toyota	Car	Non-Truck SUV	1980																
Toyota	Car	Non-Truck SUV	1981																
Toyota	Car	Non-Truck SUV	1982																
Toyota	Car	Non-Truck SUV	1983																
Toyota	Car	Non-Truck SUV	1984																
Toyota	Car	Non-Truck SUV	1985																
Toyota	Car	Non-Truck SUV	1986																
Toyota	Car	Non-Truck SUV	1987																
Toyota	Car	Non-Truck SUV	1988																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Toyota	Car	Non-Truck SUV	1989																
Toyota	Car	Non-Truck SUV	1990	20.9	16.1	19.1	17.4	4000	125.0	173	143	13.1	0.828	0.0359	41.8	2613	5226		
Toyota	Car	Non-Truck SUV	1991	21.4	16.3	20.0	17.9	4000	125.0	178	147	12.8	0.830	0.0369	42.9	2682	5363		
Toyota	Car	Non-Truck SUV	1992	17.1	13.0	15.7	14.2	4000	125.0	180	150	12.5	0.833	0.0375	34.1	2134	4268		
Toyota	Car	Non-Truck SUV	1993	18.2	13.7	16.7	15.1	4000	125.0	180	150	12.5	0.833	0.0375	36.3	2270	4540		
Toyota	Car	Non-Truck SUV	1994																
Toyota	Car	Non-Truck SUV	1995	21.4	15.8	19.8	17.6	4000	125.0	180	150	12.5	0.833	0.0375	42.7	2669	5338		
Toyota	Car	Non-Truck SUV	1996	25.9	19.0	23.5	21.1	3333	114.3	164	151	10.9	0.933	0.0451	43.4	2973	4936	42.9%	
Toyota	Car	Non-Truck SUV	1997	27.9	20.4	25.0	22.6	3019	100.0	135	131	11.2	0.970	0.0433	42.2	2796	4217	58.2%	
Toyota	Car	Non-Truck SUV	1998	29.8	21.6	26.8	24.1	3053	101.3	124	126	11.5	1.019	0.0414	45.5	3025	4614	94.7%	
Toyota	Car	Non-Truck SUV	1999	27.5	19.7	24.9	22.2	3449	111.2	149	169	10.4	1.113	0.0480	47.2	3056	5271	100.0%	
Toyota	Car	Non-Truck SUV	2000	26.4	18.8	24.0	21.3	3591	114.8	158	182	10.1	1.136	0.0498	47.3	3036	5449	100.0%	
Toyota	Car	Non-Truck SUV	2001	27.1	19.1	24.4	21.7	3454	111.3	150	181	9.7	1.208	0.0519	46.6	3017	5204	100.0%	
Toyota	Car	Non-Truck SUV	2002	27.7	19.5	24.8	22.1	3359	108.9	144	174	9.8	1.209	0.0513	46.4	3021	5069	100.0%	
Toyota	Car	Non-Truck SUV	2003	28.4	19.8	25.3	22.5	3256	106.4	138	166	9.8	1.210	0.0508	46.2	3025	4921	100.0%	
Toyota	Car	Non-Truck SUV	2004	27.2	18.8	24.4	21.6	3600	115.0	179	202	9.1	1.130	0.0560	48.8	3126	5636	100.0%	
Toyota	Car	Non-Truck SUV	2005	27.8	19.1	24.7	22.0	3485	112.1	172	194	9.2	1.128	0.0555	48.3	3118	5441	100.0%	
Toyota	Car	Non-Truck SUV	2006	29.0	19.8	25.9	22.9	3693	125.0	168	194	9.7	1.156	0.0521	53.7	3653	6711	100.0%	
Toyota	Car	Non-Truck SUV	2007	27.8	19.1	24.8	22.0	3765	125.0	184	216	9.1	1.177	0.0569	52.6	3512	6577	85.9%	
Toyota	Car	Non-Truck SUV	2008	28.2	19.3	25.1	22.2	3759	125.0	181	217	9.1	1.197	0.0572	53.2	3560	6654	92.9%	
Toyota	Car	Non-Truck SUV	2009	29.2	19.7	26.4	23.0	3818	125.0	182	223	9.0	1.216	0.0580	55.9	3673	6986	99.5%	
Toyota	Car	Non-Truck SUV	2010	29.6	20.1	26.7	23.4	4025	125.0	184	227	9.1	1.224	0.0560	59.9	3738	7493	98.5%	
Toyota	Car	Non-Truck SUV	2011	30.0	20.3	27.1	23.7	3906	125.0	177	214	9.3	1.204	0.0546	58.7	3776	7338	99.1%	
Toyota	Car	Non-Truck SUV	2012	30.1	20.4	26.9	23.6	3919	125.0	178	217	9.2	1.212	0.0551	59.2	3794	7405	98.9%	
Toyota	Truck	Van	1975	20.5	16.2	19.3	17.5	3500		133	96	16.1	0.722	0.0274	35.9				
Toyota	Truck	Van	1976																
Toyota	Truck	Van	1977																
Toyota	Truck	Van	1978																
Toyota	Truck	Van	1979																
Toyota	Truck	Van	1980																
Toyota	Truck	Van	1981																
Toyota	Truck	Van	1982																
Toyota	Truck	Van	1983																
Toyota	Truck	Van	1984	27.0	22.1	24.0	22.9	3396		122	90	16.5	0.738	0.0266	45.9				
Toyota	Truck	Van	1985	26.6	21.7	23.9	22.6	3274		122	90	16.0	0.738	0.0276	43.6				
Toyota	Truck	Van	1986	26.3	21.4	23.4	22.2	3435		137	101	15.2	0.737	0.0295	45.2				

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Toyota	Car	Non-Truck SUV	1989																
Toyota	Car	Non-Truck SUV	1990		80.6%			100.0%			100.0%							100.0%	
Toyota	Car	Non-Truck SUV	1991		93.3%			100.0%			100.0%							100.0%	
Toyota	Car	Non-Truck SUV	1992		100.0%			100.0%			100.0%							100.0%	
Toyota	Car	Non-Truck SUV	1993		100.0%			100.0%			100.0%							100.0%	
Toyota	Car	Non-Truck SUV	1994																
Toyota	Car	Non-Truck SUV	1995		100.0%			100.0%					100.0%					100.0%	
Toyota	Car	Non-Truck SUV	1996	15.0%	85.0%			100.0%					100.0%				42.9%	57.1%	
Toyota	Car	Non-Truck SUV	1997	38.8%	43.7%			100.0%					100.0%				100.0%		
Toyota	Car	Non-Truck SUV	1998	20.9%	79.1%			100.0%					100.0%				94.7%	5.3%	
Toyota	Car	Non-Truck SUV	1999	8.8%	91.2%			100.0%					100.0%		44.9%		55.1%	44.9%	
Toyota	Car	Non-Truck SUV	2000	4.7%	95.3%			100.0%					100.0%		59.1%		40.9%	59.1%	
Toyota	Car	Non-Truck SUV	2001	5.1%	94.9%			100.0%					100.0%		100.0%		54.6%	45.4%	
Toyota	Car	Non-Truck SUV	2002	4.5%	95.0%	0.4%		100.0%			0.4%		99.6%		99.6%		64.3%	35.7%	
Toyota	Car	Non-Truck SUV	2003	5.2%	94.6%	0.1%		100.0%			0.1%		99.9%		99.9%		74.5%	25.5%	
Toyota	Car	Non-Truck SUV	2004	2.2%	97.8%			100.0%					100.0%		100.0%		40.0%	60.0%	
Toyota	Car	Non-Truck SUV	2005	2.8%	97.2%			100.0%					100.0%		100.0%		51.5%	48.5%	
Toyota	Car	Non-Truck SUV	2006		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Car	Non-Truck SUV	2007		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Car	Non-Truck SUV	2008		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Car	Non-Truck SUV	2009		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Car	Non-Truck SUV	2010		96.2%	3.8%		100.0%					100.0%		100.0%	3.8%		100.0%	
Toyota	Car	Non-Truck SUV	2011		98.0%	2.0%		100.0%					100.0%		100.0%	2.0%		100.0%	
Toyota	Car	Non-Truck SUV	2012		96.4%	3.6%		100.0%					100.0%		100.0%	3.6%		100.0%	
Toyota	Truck	Van	1975														100.0%		
Toyota	Truck	Van	1976																
Toyota	Truck	Van	1977																
Toyota	Truck	Van	1978																
Toyota	Truck	Van	1979																
Toyota	Truck	Van	1980																
Toyota	Truck	Van	1981																
Toyota	Truck	Van	1982																
Toyota	Truck	Van	1983																
Toyota	Truck	Van	1984	26.6%	73.4%			100.0%									100.0%		
Toyota	Truck	Van	1985	28.1%	71.9%			100.0%									100.0%		
Toyota	Truck	Van	1986	16.7%	83.3%			100.0%									100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Toyota	Truck	Van	1987	25.5	20.6	22.5	21.5	3285		137	101	14.6	0.737	0.0310	41.8				16.2%
Toyota	Truck	Van	1988	25.8	20.7	22.7	21.6	3515		137	101	15.5	0.737	0.0288	45.4				12.9%
Toyota	Truck	Van	1989	25.9	20.7	22.6	21.6	3552		137	101	15.6	0.737	0.0285	45.9				14.7%
Toyota	Truck	Van	1990																
Toyota	Truck	Van	1991	22.9	17.3	21.5	19.1	4000		149	138	13.4	0.926	0.0345	45.7				14.8%
Toyota	Truck	Van	1992	22.3	16.7	21.0	18.6	4000		149	138	13.4	0.926	0.0345	44.6				15.6%
Toyota	Truck	Van	1993	21.9	16.5	20.0	18.1	4000		148	138	13.4	0.931	0.0345	43.8				11.3%
Toyota	Truck	Van	1994	22.0	16.3	20.6	18.2	4025		149	141	13.3	0.945	0.0350	44.3				17.3%
Toyota	Truck	Van	1995	22.6	16.7	20.8	18.6	4104		149	158	12.3	1.059	0.0385	46.3				23.2%
Toyota	Truck	Van	1996	22.4	16.5	20.5	18.4	4065		149	161	12.0	1.081	0.0397	45.5				13.1%
Toyota	Truck	Van	1997	22.3	16.3	20.3	18.2	4137		149	161	12.2	1.081	0.0390	46.0				27.4%
Toyota	Truck	Van	1998	24.2	17.0	23.2	19.8	4000		183	194	10.2	1.060	0.0485	48.4			100.0%	
Toyota	Truck	Van	1999	24.1	16.9	23.0	19.7	4000		183	190	10.4	1.038	0.0475	48.2			100.0%	
Toyota	Truck	Van	2000	24.1	16.8	22.9	19.6	4000		183	190	10.4	1.038	0.0475	48.2			100.0%	
Toyota	Truck	Van	2001	24.7	17.3	22.9	20.0	4000		183	210	9.6	1.148	0.0525	49.5			100.0%	
Toyota	Truck	Van	2002	24.7	17.2	22.8	19.9	4000		183	210	9.6	1.148	0.0525	49.5			100.0%	
Toyota	Truck	Van	2003	24.7	17.1	22.8	19.9	4000		183	210	9.6	1.148	0.0525	49.5			100.0%	
Toyota	Truck	Van	2004	25.4	17.1	24.3	20.5	4500		202	230	9.8	1.139	0.0511	57.3			88.2%	11.8%
Toyota	Truck	Van	2005	24.7	16.5	23.6	19.9	4500		202	230	9.8	1.139	0.0511	55.6			86.0%	14.0%
Toyota	Truck	Van	2006	24.8	16.5	23.7	20.0	4500		202	215	10.3	1.064	0.0478	55.8			89.2%	10.8%
Toyota	Truck	Van	2007	26.1	17.7	24.1	20.8	4500		211	266	8.7	1.261	0.0591	58.9			91.7%	8.3%
Toyota	Truck	Van	2008	26.1	17.6	24.0	20.8	4500		211	266	8.7	1.261	0.0591	58.8			89.9%	10.1%
Toyota	Truck	Van	2009	26.1	17.7	24.1	20.8	4500		211	266	8.7	1.261	0.0591	58.9			91.3%	8.7%
Toyota	Truck	Van	2010	26.1	17.6	24.0	20.8	4500		211	266	8.7	1.261	0.0591	58.7			89.6%	10.4%
Toyota	Truck	Van	2011	26.3	17.8	24.0	20.8	4552		209	263	8.9	1.256	0.0578	59.8			86.0%	14.0%
Toyota	Truck	Van	2012	26.6	17.9	24.6	21.1	4556		209	263	8.9	1.256	0.0578	60.6			83.2%	16.8%
Toyota	Truck	Truck SUV	1975																
Toyota	Truck	Truck SUV	1976	11.6	8.7	12.1	10.0	4500		258	125	15.5	0.484	0.0278	26.4				
Toyota	Truck	Truck SUV	1977	12.7	10.0	11.9	10.8	4500		258	125	15.5	0.484	0.0278	29.3				
Toyota	Truck	Truck SUV	1978	11.5	8.9	11.3	9.8	4500		258	125	15.5	0.484	0.0278	26.5				
Toyota	Truck	Truck SUV	1979	13.3	10.4	12.7	11.3	4500		258	125	15.5	0.484	0.0278	29.9				14.5%
Toyota	Truck	Truck SUV	1980	13.8	11.0	12.8	11.7	4001		258	125	14.2	0.484	0.0312	27.6				100.0%
Toyota	Truck	Truck SUV	1981	14.3	11.3	13.4	12.2	4239		258	125	14.8	0.484	0.0296	30.3				100.0%
Toyota	Truck	Truck SUV	1982	14.2	11.2	13.4	12.1	4342		258	125	15.1	0.484	0.0289	30.9				100.0%
Toyota	Truck	Truck SUV	1983	14.1	11.2	13.3	12.0	4463		258	125	15.4	0.484	0.0280	31.6				100.0%
Toyota	Truck	Truck SUV	1984	17.3	13.6	16.3	14.7	3939		194	109	15.6	0.587	0.0276	35.1				100.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Toyota	Truck	Van	1987	15.6%	84.4%			100.0%									100.0%		
Toyota	Truck	Van	1988	14.5%	85.5%			100.0%									100.0%		
Toyota	Truck	Van	1989	7.8%	92.2%			100.0%									100.0%		
Toyota	Truck	Van	1990																
Toyota	Truck	Van	1991	3.6%	96.4%			100.0%										100.0%	
Toyota	Truck	Van	1992	4.2%	95.8%			100.0%										100.0%	
Toyota	Truck	Van	1993	4.1%	95.9%			100.0%										100.0%	
Toyota	Truck	Van	1994		100.0%			100.0%					100.0%					100.0%	
Toyota	Truck	Van	1995		100.0%			100.0%					100.0%					100.0%	
Toyota	Truck	Van	1996		100.0%			100.0%					100.0%					100.0%	
Toyota	Truck	Van	1997		100.0%			100.0%					100.0%					100.0%	
Toyota	Truck	Van	1998		100.0%			100.0%					100.0%					100.0%	
Toyota	Truck	Van	1999		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Van	2000		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Van	2001		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Van	2002		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Van	2003		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Van	2004		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Van	2005		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Van	2006		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Van	2007		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Van	2008		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Van	2009		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Van	2010		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Van	2011		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Van	2012		100.0%			100.0%					100.0%		100.0%			100.0%	
Toyota	Truck	Truck SUV	1975																
Toyota	Truck	Truck SUV	1976	100.0%													87.2%	12.8%	
Toyota	Truck	Truck SUV	1977	100.0%														100.0%	
Toyota	Truck	Truck SUV	1978	100.0%														100.0%	
Toyota	Truck	Truck SUV	1979	100.0%														100.0%	
Toyota	Truck	Truck SUV	1980	100.0%													100.0%		
Toyota	Truck	Truck SUV	1981	100.0%													100.0%		
Toyota	Truck	Truck SUV	1982	100.0%													100.0%		
Toyota	Truck	Truck SUV	1983	100.0%														100.0%	
Toyota	Truck	Truck SUV	1984	100.0%														100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Toyota	Truck	Truck SUV	1985	21.1	16.8	19.7	18.0	3727		170	118	14.0	0.733	0.0319	41.2				100.0%
Toyota	Truck	Truck SUV	1986	23.3	18.6	21.3	19.8	4029		151	117	15.1	0.793	0.0292	47.8				100.0%
Toyota	Truck	Truck SUV	1987	22.7	18.0	20.6	19.1	3730		157	118	14.1	0.775	0.0317	43.4				100.0%
Toyota	Truck	Truck SUV	1988	20.3	15.9	18.6	17.1	4018		175	134	13.7	0.777	0.0334	41.4				100.0%
Toyota	Truck	Truck SUV	1989	19.7	15.3	18.1	16.5	4103		180	140	13.5	0.785	0.0340	41.1				100.0%
Toyota	Truck	Truck SUV	1990	19.4	14.8	18.2	16.3	4301		178	147	13.5	0.825	0.0342	41.8				100.0%
Toyota	Truck	Truck SUV	1991	18.2	13.8	17.1	15.2	4537		191	149	13.9	0.790	0.0329	41.7				100.0%
Toyota	Truck	Truck SUV	1992	17.0	13.0	15.6	14.2	4573		179	150	13.9	0.837	0.0327	39.2				100.0%
Toyota	Truck	Truck SUV	1993	17.2	13.1	15.7	14.3	4582		198	161	13.3	0.820	0.0350	39.6				100.0%
Toyota	Truck	Truck SUV	1994	17.4	13.1	15.8	14.4	4484		196	161	13.1	0.822	0.0357	39.0				100.0%
Toyota	Truck	Truck SUV	1995	17.5	13.2	15.8	14.4	4544		190	156	13.5	0.825	0.0342	39.9				100.0%
Toyota	Truck	Truck SUV	1996	21.4	16.1	19.0	17.5	3929		196	171	11.2	0.895	0.0433	42.0				100.0%
Toyota	Truck	Truck SUV	1997	20.7	15.3	18.5	16.8	4002		204	182	10.7	0.897	0.0455	41.3				76.5%
Toyota	Truck	Truck SUV	1998	22.1	16.3	19.6	17.9	3999		190	176	11.1	0.939	0.0440	44.2				69.1%
Toyota	Truck	Truck SUV	1999	22.0	16.0	19.6	17.8	4238		195	192	10.9	0.999	0.0456	46.5				78.1%
Toyota	Truck	Truck SUV	2000	21.7	15.7	19.3	17.5	4296		200	192	11.0	0.976	0.0452	46.4				75.7%
Toyota	Truck	Truck SUV	2001	21.7	15.6	19.5	17.5	4368		199	203	10.6	1.053	0.0470	47.4			10.8%	71.6%
Toyota	Truck	Truck SUV	2002	21.7	15.5	19.4	17.4	4399		205	206	10.5	1.040	0.0472	47.8			16.0%	62.9%
Toyota	Truck	Truck SUV	2003	21.7	15.3	19.5	17.4	4447		223	219	10.1	1.022	0.0496	48.4			18.2%	61.8%
Toyota	Truck	Truck SUV	2004	22.2	15.5	19.9	17.7	4536		228	225	10.1	1.013	0.0500	50.5			13.5%	70.1%
Toyota	Truck	Truck SUV	2005	22.8	15.8	20.3	18.1	4510		223	233	9.8	1.058	0.0516	51.5			16.5%	67.5%
Toyota	Truck	Truck SUV	2006	24.4	17.2	21.1	19.2	4533		220	224	9.6	1.034	0.0494	57.0			16.4%	69.6%
Toyota	Truck	Truck SUV	2007	24.2	16.9	21.2	19.1	4461		219	230	9.6	1.063	0.0515	54.8			9.4%	79.9%
Toyota	Truck	Truck SUV	2008	24.7	17.1	21.9	19.5	4637		226	256	9.0	1.147	0.0551	58.1			12.3%	79.7%
Toyota	Truck	Truck SUV	2009	26.5	18.1	23.8	21.0	4409		204	244	9.2	1.205	0.0553	59.0			11.8%	86.5%
Toyota	Truck	Truck SUV	2010	26.6	18.2	23.9	21.0	4544		211	253	9.1	1.203	0.0556	61.1			9.1%	86.2%
Toyota	Truck	Truck SUV	2011	26.4	18.0	23.8	20.9	4531		210	250	9.3	1.196	0.0550	60.2			9.4%	84.5%
Toyota	Truck	Truck SUV	2012	26.7	18.3	24.0	21.1	4481		207	250	9.1	1.209	0.0556	60.6			12.4%	82.9%
Toyota	Truck	Pickup	1975	21.3	16.5	20.7	18.2	2750		133	96	13.1	0.722	0.0349	29.3				
Toyota	Truck	Pickup	1976	22.1	16.6	22.6	18.9	2819		133	94	13.6	0.703	0.0333	31.1				
Toyota	Truck	Pickup	1977	27.2	21.3	25.9	23.1	2780		134	94	13.4	0.700	0.0338	37.8				
Toyota	Truck	Pickup	1978	24.6	19.6	22.7	20.9	2866		134	93	13.8	0.695	0.0326	35.3				
Toyota	Truck	Pickup	1979	19.5	15.2	18.9	16.6	2814		134	90	13.9	0.674	0.0321	27.5				7.0%
Toyota	Truck	Pickup	1980	21.5	17.1	20.1	18.3	2865		134	93	13.7	0.697	0.0327	30.9				32.8%
Toyota	Truck	Pickup	1981	26.5	21.2	24.5	22.5	2888		143	94	14.0	0.657	0.0327	38.7				33.4%
Toyota	Truck	Pickup	1982	25.6	20.5	23.6	21.8	3013		143	95	14.3	0.661	0.0317	39.0				38.1%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Toyota	Truck	Truck SUV	1985	87.2%	12.8%			77.3%										100.0%	
Toyota	Truck	Truck SUV	1986	70.8%	29.2%			94.0%										100.0%	
Toyota	Truck	Truck SUV	1987	80.3%	19.7%			88.8%										100.0%	
Toyota	Truck	Truck SUV	1988	58.2%	41.8%			100.0%										100.0%	
Toyota	Truck	Truck SUV	1989	50.7%	49.3%			100.0%										100.0%	
Toyota	Truck	Truck SUV	1990	38.2%	61.8%			100.0%										100.0%	
Toyota	Truck	Truck SUV	1991	33.0%	67.0%			100.0%										78.2%	21.8%
Toyota	Truck	Truck SUV	1992	31.2%	68.8%			100.0%										81.0%	19.0%
Toyota	Truck	Truck SUV	1993	31.6%	68.4%			100.0%										80.0%	20.0%
Toyota	Truck	Truck SUV	1994	22.4%	77.6%			100.0%			2.4%	79.1%	18.5%					81.5%	18.5%
Toyota	Truck	Truck SUV	1995	26.6%	73.4%			100.0%			2.7%		97.3%					88.5%	11.5%
Toyota	Truck	Truck SUV	1996	18.4%	81.6%			100.0%					100.0%				28.5%	50.1%	21.4%
Toyota	Truck	Truck SUV	1997	26.1%	73.9%			100.0%					100.0%				26.9%	61.4%	11.7%
Toyota	Truck	Truck SUV	1998	12.1%	87.9%			100.0%					100.0%				21.2%	69.7%	9.1%
Toyota	Truck	Truck SUV	1999	6.2%	93.8%			100.0%					100.0%		26.3%		12.8%	74.8%	12.4%
Toyota	Truck	Truck SUV	2000	5.0%	95.0%			100.0%					100.0%		23.3%		9.2%	83.9%	6.9%
Toyota	Truck	Truck SUV	2001	1.9%	98.1%			100.0%					100.0%		51.9%		14.3%	41.7%	44.0%
Toyota	Truck	Truck SUV	2002	1.3%	98.7%			100.0%					100.0%		52.5%		11.7%	63.3%	25.1%
Toyota	Truck	Truck SUV	2003	0.9%	99.1%			100.0%					100.0%		60.7%		9.3%	69.4%	21.3%
Toyota	Truck	Truck SUV	2004	0.6%	99.4%			100.0%					100.0%		68.2%		7.7%	76.1%	16.2%
Toyota	Truck	Truck SUV	2005	0.6%	99.4%			100.0%					100.0%		92.0%		9.7%	75.5%	14.8%
Toyota	Truck	Truck SUV	2006		82.6%	17.4%		100.0%					100.0%		100.0%	17.4%		88.0%	12.0%
Toyota	Truck	Truck SUV	2007	2.5%	89.8%	7.7%		100.0%					100.0%		100.0%	7.7%		92.8%	7.2%
Toyota	Truck	Truck SUV	2008	0.6%	89.6%	9.8%		100.0%					100.0%		88.5%	9.8%		90.0%	10.0%
Toyota	Truck	Truck SUV	2009	0.1%	95.3%	4.6%		100.0%					100.0%		100.0%	4.6%		96.6%	3.4%
Toyota	Truck	Truck SUV	2010	0.2%	93.6%	6.2%		100.0%					100.0%		100.0%	6.2%		94.2%	5.8%
Toyota	Truck	Truck SUV	2011	0.1%	97.0%	2.8%		100.0%					100.0%		100.0%	2.8%		93.8%	6.2%
Toyota	Truck	Truck SUV	2012	0.2%	94.8%	5.0%		100.0%					100.0%		100.0%	5.0%		96.4%	3.6%
Toyota	Truck	Pickup	1975	69.0%													100.0%		
Toyota	Truck	Pickup	1976	75.4%													100.0%		
Toyota	Truck	Pickup	1977	90.4%													100.0%		
Toyota	Truck	Pickup	1978	92.6%													100.0%		
Toyota	Truck	Pickup	1979	93.6%													100.0%		
Toyota	Truck	Pickup	1980	95.9%													100.0%		
Toyota	Truck	Pickup	1981	94.3%						12.5%							100.0%		
Toyota	Truck	Pickup	1982	92.7%						11.4%							100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Toyota	Truck	Pickup	1983	25.5	20.6	23.1	21.7	3033		144	97	14.0	0.677	0.0325	38.8				38.8%
Toyota	Truck	Pickup	1984	25.1	20.3	22.9	21.4	3036		144	99	13.8	0.686	0.0330	38.3				34.8%
Toyota	Truck	Pickup	1985	27.0	21.7	24.8	23.0	3107		144	107	13.3	0.740	0.0346	42.2				35.4%
Toyota	Truck	Pickup	1986	26.4	21.1	24.0	22.4	3129		144	107	13.3	0.743	0.0346	41.6				37.2%
Toyota	Truck	Pickup	1987	26.6	21.1	24.2	22.4	3114		144	105	13.4	0.732	0.0343	41.6				38.5%
Toyota	Truck	Pickup	1988	25.1	19.8	22.7	21.1	3181		147	113	12.9	0.767	0.0357	40.1				44.6%
Toyota	Truck	Pickup	1989	23.5	18.5	21.1	19.7	3377		154	123	12.7	0.793	0.0366	40.0				44.5%
Toyota	Truck	Pickup	1990	23.1	18.0	20.9	19.3	3396		156	125	12.6	0.794	0.0369	39.6				42.3%
Toyota	Truck	Pickup	1991	23.8	18.3	21.5	19.7	3413		154	124	12.7	0.801	0.0364	40.8				44.9%
Toyota	Truck	Pickup	1992	23.7	18.1	21.4	19.6	3366		154	122	12.7	0.792	0.0365	40.3				43.6%
Toyota	Truck	Pickup	1993	23.8	17.9	21.7	19.6	3394		155	124	12.7	0.795	0.0365	40.8				41.3%
Toyota	Truck	Pickup	1994	24.3	18.2	22.0	20.0	3382		152	121	12.9	0.791	0.0359	41.4				44.2%
Toyota	Truck	Pickup	1995	23.3	17.5	20.9	19.1	3533		171	140	11.9	0.828	0.0400	41.2				52.4%
Toyota	Truck	Pickup	1996	23.6	17.6	21.0	19.2	3508		174	161	10.6	0.929	0.0461	41.3				48.2%
Toyota	Truck	Pickup	1997	20.4	15.3	18.0	16.6	4086		203	187	10.7	0.922	0.0458	41.7				54.7%
Toyota	Truck	Pickup	1998	23.7	17.5	21.1	19.2	3432		170	158	10.6	0.933	0.0461	40.8				48.2%
Toyota	Truck	Pickup	1999	23.2	17.0	20.5	18.7	3549		175	162	10.7	0.929	0.0457	41.2				47.0%
Toyota	Truck	Pickup	2000	20.8	15.2	18.4	16.8	4110		219	197	10.4	0.905	0.0476	42.5				49.6%
Toyota	Truck	Pickup	2001	21.2	15.4	18.6	17.0	4046		210	191	10.5	0.913	0.0469	42.9				42.8%
Toyota	Truck	Pickup	2002	20.9	15.1	18.3	16.7	4140		218	193	10.6	0.897	0.0465	43.3				40.5%
Toyota	Truck	Pickup	2003	21.0	15.0	18.6	16.8	4148		219	194	10.6	0.898	0.0467	43.6				39.2%
Toyota	Truck	Pickup	2004	20.6	14.6	18.2	16.5	4296		221	196	10.7	0.898	0.0456	44.2				42.0%
Toyota	Truck	Pickup	2005	21.6	15.2	19.0	17.2	4476		246	247	9.3	1.003	0.0551	48.3				42.1%
Toyota	Truck	Pickup	2006	21.7	15.2	19.1	17.2	4485		245	237	9.6	0.967	0.0528	48.6				39.5%
Toyota	Truck	Pickup	2007	21.3	14.8	19.2	17.0	4929		274	283	9.1	1.020	0.0567	52.2				44.4%
Toyota	Truck	Pickup	2008	21.1	14.6	19.0	16.9	4978		277	289	9.1	1.028	0.0571	52.2				48.9%
Toyota	Truck	Pickup	2009	23.5	16.3	21.0	18.7	4360		229	228	9.8	0.988	0.0516	51.2				50.8%
Toyota	Truck	Pickup	2010	21.6	14.9	19.6	17.3	5030		274	288	9.2	1.039	0.0564	54.0				55.6%
Toyota	Truck	Pickup	2011	21.9	15.1	19.8	17.5	4917		265	277	9.3	1.031	0.0553	53.7				58.9%
Toyota	Truck	Pickup	2012	21.9	15.1	19.6	17.4	4990		271	287	9.2	1.044	0.0565	54.4				53.2%
Toyota	Car	All	1975	21.6	16.7	21.2	18.4	2746		124	89	14.0	0.731	0.0324	29.9				
Toyota	Car	All	1976	24.3	18.5	24.3	20.8	2761		118	86	14.5	0.736	0.0309	34.0				
Toyota	Car	All	1977	27.8	21.6	26.9	23.7	2668	88.4	113	81	14.7	0.735	0.0301	37.9	2558	3345		
Toyota	Car	All	1978	26.1	20.4	24.9	22.2	2658	91.0	116	84	14.4	0.734	0.0313	35.5	2461	3218		
Toyota	Car	All	1979	23.8	18.6	22.9	20.3	2712	88.2	114	82	14.9	0.728	0.0299	32.7	2159	2881		
Toyota	Car	All	1980	27.4	21.7	25.7	23.3	2620	91.0	115	78	14.9	0.682	0.0298	36.2	2561	3295	18.1%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Toyota	Truck	Pickup	1983	93.9%						3.7%							100.0%		
Toyota	Truck	Pickup	1984	87.9%				8.8%		1.9%							100.0%		
Toyota	Truck	Pickup	1985	83.3%	3.0%			28.3%		1.0%							96.2%	3.8%	
Toyota	Truck	Pickup	1986	81.2%	5.0%			26.1%									96.7%	3.3%	
Toyota	Truck	Pickup	1987	82.2%	3.1%			16.1%									98.6%	1.4%	
Toyota	Truck	Pickup	1988	84.8%	3.0%			59.3%									99.1%	0.9%	
Toyota	Truck	Pickup	1989	79.7%	11.1%			78.7%									99.0%	1.0%	
Toyota	Truck	Pickup	1990	79.4%	12.9%			78.9%									99.6%	0.4%	
Toyota	Truck	Pickup	1991	80.4%	10.1%			100.0%									99.5%	0.5%	
Toyota	Truck	Pickup	1992	81.8%	9.5%			100.0%									99.6%	0.4%	
Toyota	Truck	Pickup	1993	80.6%	11.9%			100.0%									71.1%		28.9%
Toyota	Truck	Pickup	1994	81.6%	8.2%			100.0%			76.3%	23.0%	0.7%				94.6%		5.4%
Toyota	Truck	Pickup	1995	61.9%	25.5%			100.0%			21.9%		78.1%				77.9%		22.1%
Toyota	Truck	Pickup	1996	57.4%	27.0%			100.0%					100.0%				77.7%		22.3%
Toyota	Truck	Pickup	1997	26.4%	73.6%			100.0%					100.0%						100.0%
Toyota	Truck	Pickup	1998	54.9%	24.8%			100.0%					100.0%				94.1%		5.9%
Toyota	Truck	Pickup	1999	45.9%	39.9%			100.0%					100.0%				100.0%		
Toyota	Truck	Pickup	2000	23.9%	68.4%			100.0%					100.0%				15.4%		84.6%
Toyota	Truck	Pickup	2001	21.2%	70.3%			100.0%					100.0%				15.3%		84.7%
Toyota	Truck	Pickup	2002	17.3%	75.2%			100.0%					100.0%				58.9%		41.1%
Toyota	Truck	Pickup	2003	17.0%	74.9%			100.0%					100.0%				58.0%		42.0%
Toyota	Truck	Pickup	2004	15.9%	75.3%			100.0%					100.0%				59.5%		40.5%
Toyota	Truck	Pickup	2005	15.7%	84.3%			100.0%					100.0%		100.0%			6.6%	93.4%
Toyota	Truck	Pickup	2006	12.5%	87.5%			100.0%					100.0%		100.0%			33.0%	67.0%
Toyota	Truck	Pickup	2007	9.0%	91.0%			100.0%					100.0%		71.7%			39.7%	60.3%
Toyota	Truck	Pickup	2008	8.9%	91.1%			100.0%					100.0%		64.0%			46.5%	53.5%
Toyota	Truck	Pickup	2009	19.2%	80.8%			100.0%					100.0%		41.9%			86.0%	14.0%
Toyota	Truck	Pickup	2010	8.5%	91.5%			100.0%					100.0%		100.0%			47.9%	52.1%
Toyota	Truck	Pickup	2011	6.3%	93.7%			100.0%					100.0%		100.0%			6.4%	93.6%
Toyota	Truck	Pickup	2012	6.6%	93.4%			100.0%					100.0%		100.0%			5.2%	94.8%
Toyota	Car	All	1975	69.0%													100.0%		
Toyota	Car	All	1976	62.8%													100.0%		
Toyota	Car	All	1977	75.6%													100.0%		
Toyota	Car	All	1978	69.1%													100.0%		
Toyota	Car	All	1979	64.6%				5.8%									100.0%		
Toyota	Car	All	1980	63.4%				5.2%									100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Toyota	Car	All	1981	30.9	24.6	28.7	26.3	2557	90.5	114	76	15.1	0.667	0.0294	39.8	2851	3595	20.4%	
Toyota	Car	All	1982	30.4	24.0	28.7	25.9	2575	91.4	118	81	14.7	0.682	0.0308	39.3	2829	3591	25.0%	
Toyota	Car	All	1983	32.6	25.9	30.4	27.7	2663	96.2	115	85	14.6	0.728	0.0311	43.6	3221	4196	28.3%	31.5%
Toyota	Car	All	1984	32.9	26.0	30.9	28.0	2697	99.8	116	87	14.5	0.740	0.0316	44.6	3372	4455	54.4%	5.5%
Toyota	Car	All	1985	32.8	25.9	31.1	28.0	2708	101.6	116	91	14.2	0.774	0.0329	44.6	3420	4544	35.6%	25.5%
Toyota	Car	All	1986	32.3	25.2	30.5	27.3	2761	98.4	115	97	13.6	0.833	0.0345	44.7	3240	4397	81.9%	
Toyota	Car	All	1987	32.9	25.4	31.2	27.8	2831	98.7	115	107	12.9	0.916	0.0369	46.7	3320	4616	81.3%	1.0%
Toyota	Car	All	1988	32.7	25.2	30.6	27.5	2786	96.3	111	105	12.7	0.932	0.0371	45.6	3192	4396	93.9%	0.9%
Toyota	Car	All	1989	31.8	24.3	29.8	26.7	2836	96.3	115	110	12.4	0.952	0.0383	45.2	3113	4359	90.5%	1.2%
Toyota	Car	All	1990	30.3	23.0	28.4	25.3	2970	97.4	122	122	12.0	0.992	0.0401	45.1	2989	4394	90.5%	0.5%
Toyota	Car	All	1991	30.5	23.0	28.5	25.4	2928	97.5	121	121	11.9	0.998	0.0404	44.7	3020	4370	84.1%	
Toyota	Car	All	1992	28.8	21.4	27.1	23.9	3101	102.0	129	131	11.8	1.016	0.0415	44.5	2984	4556	60.3%	
Toyota	Car	All	1993	28.8	21.1	27.4	23.8	3150	104.9	132	138	11.4	1.037	0.0429	45.4	3084	4772	90.4%	
Toyota	Car	All	1994	29.1	21.1	27.6	24.0	3145	104.8	131	131	11.8	1.002	0.0412	45.6	3094	4792	94.2%	
Toyota	Car	All	1995	29.5	21.3	28.1	24.3	3210	106.7	137	139	11.4	1.022	0.0429	47.5	3199	5067	59.5%	
Toyota	Car	All	1996	29.3	21.0	27.7	24.0	3211	107.4	136	135	11.7	0.994	0.0416	47.1	3184	5060	93.3%	
Toyota	Car	All	1997	29.5	21.0	27.8	24.1	3203	105.4	136	140	11.4	1.022	0.0432	47.4	3137	5011	91.7%	
Toyota	Car	All	1998	30.2	21.2	28.6	24.6	3304	108.1	142	151	11.0	1.056	0.0454	50.1	3307	5420	93.2%	
Toyota	Car	All	1999	30.2	21.1	28.3	24.5	3311	107.9	142	154	11.0	1.072	0.0460	50.2	3297	5417	94.8%	
Toyota	Car	All	2000	30.3	21.0	28.5	24.5	3277	108.0	141	157	10.6	1.108	0.0476	49.8	3316	5385	95.6%	
Toyota	Car	All	2001	30.9	21.2	28.9	24.8	3258	107.3	141	158	10.6	1.114	0.0480	51.1	3409	5478	89.8%	
Toyota	Car	All	2002	30.4	20.7	28.4	24.4	3352	110.9	153	171	10.1	1.115	0.0504	51.7	3456	5736	90.2%	
Toyota	Car	All	2003	32.2	21.8	29.8	25.6	3203	110.8	140	159	10.1	1.145	0.0494	52.0	3637	5765	93.4%	0.8%
Toyota	Car	All	2004	32.1	21.6	29.6	25.4	3323	112.1	147	166	10.0	1.131	0.0492	54.5	3746	6114	93.5%	0.7%
Toyota	Car	All	2005	34.2	22.8	31.0	26.9	3238	110.6	139	156	10.2	1.115	0.0473	57.4	3999	6371	95.9%	0.7%
Toyota	Car	All	2006	34.1	22.8	30.8	26.8	3260	109.5	140	160	10.2	1.129	0.0479	57.1	3920	6280	89.3%	3.4%
Toyota	Car	All	2007	34.3	22.9	30.9	26.9	3389	110.8	148	173	9.9	1.141	0.0496	60.2	4015	6683	92.4%	1.4%
Toyota	Car	All	2008	35.2	23.7	31.2	27.4	3360	110.3	145	169	9.8	1.132	0.0486	62.0	4181	6866	90.6%	2.2%
Toyota	Car	All	2009	35.6	23.8	31.8	27.8	3357	111.1	138	160	10.3	1.147	0.0467	61.3	4106	6815	95.8%	1.9%
Toyota	Car	All	2010	38.1	25.6	33.3	29.5	3406	111.0	137	160	10.1	1.149	0.0462	70.1	4606	7834	95.4%	1.4%
Toyota	Car	All	2011	35.9	23.8	32.4	28.1	3513	113.5	148	175	9.8	1.164	0.0491	66.9	4348	7596	96.0%	1.3%
Toyota	Car	All	2012	39.4	26.4	34.2	30.4	3396	112.1	140	161	9.9	1.135	0.0467	71.2	4753	8026	96.1%	1.3%
Toyota	Truck	All	1975	21.3	16.5	20.7	18.1	2765		133	96	13.2	0.722	0.0348	29.4				
Toyota	Truck	All	1976	21.5	16.2	22.0	18.3	2874		137	95	13.7	0.696	0.0331	31.0				
Toyota	Truck	All	1977	26.8	21.0	25.5	22.8	2804		136	94	13.4	0.697	0.0337	37.7				
Toyota	Truck	All	1978	23.8	18.9	22.0	20.2	2915		138	94	13.8	0.689	0.0325	35.1				

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Toyota	Car	All	1981	58.7%				6.4%									100.0%		
Toyota	Car	All	1982	56.5%	4.2%			12.8%									100.0%		
Toyota	Car	All	1983	56.7%	11.9%			38.7%									100.0%		
Toyota	Car	All	1984	47.7%	38.7%			44.4%		1.8%							100.0%		
Toyota	Car	All	1985	45.2%	44.8%			51.5%		0.5%							99.5%	0.5%	
Toyota	Car	All	1986	41.2%	53.4%			59.6%		0.2%	85.2%		14.8%				99.3%	0.7%	
Toyota	Car	All	1987	37.9%	61.1%			59.6%			31.0%	14.3%	54.6%				99.8%	0.2%	
Toyota	Car	All	1988	33.6%	66.4%			51.8%			10.2%	17.0%	72.8%				100.0%		
Toyota	Car	All	1989	28.9%	71.1%			55.0%				17.3%	82.7%				100.0%		
Toyota	Car	All	1990	22.9%	76.9%			89.2%			0.8%	11.8%	87.3%		5.6%		93.5%	6.5%	
Toyota	Car	All	1991	26.8%	73.2%			100.0%			0.7%	15.1%	84.3%		5.6%		93.7%	6.3%	
Toyota	Car	All	1992	21.5%	78.5%			100.0%			0.6%	12.3%	87.1%		7.6%		59.8%	40.2%	
Toyota	Car	All	1993	18.8%	81.2%			100.0%			0.9%	12.9%	86.2%		8.2%		54.9%	45.1%	
Toyota	Car	All	1994	17.2%	82.8%			100.0%				13.5%	86.5%		5.4%		53.3%	46.7%	
Toyota	Car	All	1995	10.5%	89.5%			100.0%					100.0%		5.8%		47.1%	45.6%	7.3%
Toyota	Car	All	1996	8.6%	91.4%			100.0%					100.0%		3.7%		43.4%	48.5%	8.1%
Toyota	Car	All	1997	10.1%	87.5%			100.0%					100.0%		2.6%		51.2%	40.9%	7.9%
Toyota	Car	All	1998	4.6%	95.4%			100.0%					100.0%		6.6%		37.7%	53.4%	8.9%
Toyota	Car	All	1999	5.1%	94.9%			100.0%					100.0%		12.3%		41.6%	52.0%	6.4%
Toyota	Car	All	2000	7.5%	92.5%			100.0%					100.0%		53.1%		43.0%	46.2%	10.7%
Toyota	Car	All	2001	6.3%	92.1%	1.6%		100.0%					100.0%		63.8%		50.2%	38.6%	11.3%
Toyota	Car	All	2002	5.3%	92.4%	2.3%		100.0%			0.0%		100.0%		88.8%	2.2%	36.8%	56.6%	6.6%
Toyota	Car	All	2003	6.0%	92.8%	1.2%		100.0%			0.0%		100.0%		97.6%	1.2%	50.1%	42.0%	7.9%
Toyota	Car	All	2004	5.2%	90.4%	4.4%		100.0%					100.0%		100.0%	4.4%	45.8%	46.7%	7.6%
Toyota	Car	All	2005	7.4%	84.2%	8.4%		100.0%					100.0%		100.0%	8.4%	49.0%	45.0%	6.0%
Toyota	Car	All	2006	7.7%	85.5%	6.9%		100.0%					100.0%		100.0%	6.9%	56.9%	34.1%	9.0%
Toyota	Car	All	2007	4.7%	83.2%	12.0%		100.0%					100.0%		100.0%	12.2%	36.5%	59.3%	4.2%
Toyota	Car	All	2008	5.6%	78.1%	16.3%	0.7%	99.3%					100.0%		100.0%	16.5%	44.3%	50.8%	4.9%
Toyota	Car	All	2009	3.8%	86.4%	9.8%	2.8%	97.2%					100.0%		100.0%	9.9%	45.8%	52.5%	1.7%
Toyota	Car	All	2010	2.3%	78.5%	19.2%	2.3%	97.7%					100.0%		100.0%	19.2%	45.7%	53.3%	1.0%
Toyota	Car	All	2011	1.3%	84.8%	13.8%	3.9%	96.1%					100.0%		100.0%	13.8%	28.6%	66.7%	4.7%
Toyota	Car	All	2012	3.5%	74.4%	22.2%	3.7%	96.3%					100.0%		100.0%	20.7%	41.2%	56.9%	1.9%
Toyota	Truck	All	1975	67.6%													100.0%		
Toyota	Truck	All	1976	76.2%													99.6%	0.4%	
Toyota	Truck	All	1977	90.5%													98.6%	1.4%	
Toyota	Truck	All	1978	92.8%													97.0%	3.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Toyota	Truck	All	1979	19.5	15.1	18.9	16.6	2820		134	90	13.9	0.673	0.0321	27.5				7.0%
Toyota	Truck	All	1980	21.4	16.9	20.0	18.2	2880		136	94	13.8	0.694	0.0327	30.9				33.7%
Toyota	Truck	All	1981	26.2	20.9	24.2	22.3	2906		144	94	14.0	0.655	0.0327	38.6				34.3%
Toyota	Truck	All	1982	25.2	20.1	23.2	21.4	3042		145	95	14.4	0.657	0.0317	38.8				39.5%
Toyota	Truck	All	1983	25.0	20.2	22.7	21.2	3069		147	98	14.0	0.672	0.0323	38.7				40.4%
Toyota	Truck	All	1984	24.9	20.1	22.6	21.2	3133		143	98	14.3	0.690	0.0317	39.4				32.0%
Toyota	Truck	All	1985	26.5	21.2	24.2	22.5	3175		143	105	13.7	0.739	0.0334	42.4				34.6%
Toyota	Truck	All	1986	26.1	20.9	23.7	22.1	3248		144	107	13.7	0.747	0.0334	42.6				37.9%
Toyota	Truck	All	1987	25.9	20.6	23.5	21.9	3208		145	106	13.6	0.738	0.0336	41.8				43.0%
Toyota	Truck	All	1988	24.4	19.3	22.1	20.5	3303		150	115	13.1	0.767	0.0351	40.5				50.2%
Toyota	Truck	All	1989	23.2	18.2	20.8	19.4	3457		156	123	12.9	0.790	0.0360	40.4				48.4%
Toyota	Truck	All	1990	21.9	16.9	20.0	18.3	3666		163	131	12.9	0.804	0.0361	40.3				59.5%
Toyota	Truck	All	1991	22.4	17.1	20.6	18.6	3756		159	132	13.1	0.831	0.0353	42.2				46.4%
Toyota	Truck	All	1992	22.0	16.8	20.1	18.3	3679		157	129	13.0	0.823	0.0355	40.8				48.3%
Toyota	Truck	All	1993	22.3	16.8	20.3	18.4	3648		161	131	12.9	0.816	0.0360	41.0				46.3%
Toyota	Truck	All	1994	22.0	16.5	20.0	18.1	3686		163	132	12.9	0.806	0.0358	40.9				56.7%
Toyota	Truck	All	1995	21.2	15.9	19.1	17.4	3881		175	146	12.4	0.846	0.0382	41.3				64.3%
Toyota	Truck	All	1996	22.8	17.0	20.3	18.6	3663		180	165	10.8	0.922	0.0450	41.7				64.1%
Toyota	Truck	All	1997	20.7	15.4	18.5	16.8	4015		203	182	10.7	0.904	0.0454	41.5				72.8%
Toyota	Truck	All	1998	23.1	16.9	20.8	18.8	3758		180	172	10.7	0.958	0.0457	43.5			17.2%	48.3%
Toyota	Truck	All	1999	22.6	16.5	20.3	18.3	3973		186	182	10.7	0.981	0.0459	44.9			13.9%	56.7%
Toyota	Truck	All	2000	21.7	15.7	19.5	17.6	4160		204	194	10.6	0.960	0.0466	45.2			20.2%	49.6%
Toyota	Truck	All	2001	21.8	15.7	19.5	17.6	4198		201	199	10.4	1.012	0.0477	45.9			18.2%	51.4%
Toyota	Truck	All	2002	21.7	15.5	19.3	17.4	4256		207	202	10.4	1.000	0.0476	46.3			19.7%	47.3%
Toyota	Truck	All	2003	21.6	15.3	19.3	17.3	4306		219	209	10.3	0.982	0.0487	46.6			16.2%	49.4%
Toyota	Truck	All	2004	22.4	15.6	20.2	17.9	4463		220	218	10.2	1.010	0.0491	50.3			26.6%	49.4%
Toyota	Truck	All	2005	22.7	15.7	20.4	18.1	4498		226	237	9.6	1.057	0.0526	51.3			25.2%	49.0%
Toyota	Truck	All	2006	23.4	16.3	20.8	18.6	4510		225	227	9.7	1.016	0.0503	53.8			24.6%	47.7%
Toyota	Truck	All	2007	23.2	16.1	20.7	18.4	4634		238	253	9.4	1.068	0.0541	54.3			14.4%	59.8%
Toyota	Truck	All	2008	23.5	16.3	21.1	18.7	4731		241	268	9.0	1.123	0.0563	56.2			18.7%	60.2%
Toyota	Truck	All	2009	25.4	17.4	22.9	20.2	4407		213	242	9.3	1.145	0.0547	56.5			19.9%	63.6%
Toyota	Truck	All	2010	24.7	16.9	22.3	19.6	4701		232	266	9.1	1.154	0.0561	58.6			12.3%	70.2%
Toyota	Truck	All	2011	24.9	17.0	22.6	19.8	4644		225	261	9.2	1.165	0.0558	58.3			25.2%	60.4%
Toyota	Truck	All	2012	24.8	17.0	22.3	19.6	4673		231	265	9.1	1.156	0.0562	58.4			17.1%	63.8%
Toyota	All	All	1975	21.6	16.7	21.1	18.4	2748		125	90	13.9	0.730	0.0326	29.8				
Toyota	All	All	1976	24.0	18.3	24.0	20.5	2773		120	87	14.4	0.732	0.0312	33.7				

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Toyota	Truck	All	1979	93.6%													99.7%	0.3%	
Toyota	Truck	All	1980	95.9%													100.0%		
Toyota	Truck	All	1981	94.4%						12.3%							100.0%		
Toyota	Truck	All	1982	92.9%						11.1%							100.0%		
Toyota	Truck	All	1983	94.0%						3.6%							97.4%	2.6%	
Toyota	Truck	All	1984	78.5%	11.9%			23.2%		1.5%							95.7%	4.3%	
Toyota	Truck	All	1985	75.2%	14.1%			42.5%		0.8%							90.0%	10.0%	
Toyota	Truck	All	1986	71.9%	17.2%			41.6%									88.6%	11.4%	
Toyota	Truck	All	1987	73.7%	15.2%			35.2%									87.1%	12.9%	
Toyota	Truck	All	1988	78.2%	11.7%			66.4%									86.5%	13.5%	
Toyota	Truck	All	1989	73.3%	18.9%			81.8%									89.4%	10.6%	
Toyota	Truck	All	1990	67.2%	27.5%			85.2%									69.9%	30.1%	
Toyota	Truck	All	1991	52.5%	42.1%			100.0%									56.8%	39.5%	3.7%
Toyota	Truck	All	1992	59.9%	34.4%			100.0%									65.6%	31.2%	3.2%
Toyota	Truck	All	1993	63.6%	31.0%			100.0%									51.5%	24.6%	23.9%
Toyota	Truck	All	1994	63.0%	29.8%			100.0%			54.4%	35.8%	9.9%				66.7%	25.0%	8.4%
Toyota	Truck	All	1995	46.3%	45.9%			100.0%			14.4%		85.6%				48.3%	34.5%	17.1%
Toyota	Truck	All	1996	42.9%	47.1%			100.0%					100.0%				59.2%	19.5%	21.3%
Toyota	Truck	All	1997	25.6%	74.4%			100.0%					100.0%				23.0%	54.5%	22.5%
Toyota	Truck	All	1998	28.2%	63.2%			100.0%					100.0%				48.5%	45.3%	6.2%
Toyota	Truck	All	1999	18.7%	76.5%			100.0%					100.0%		27.7%		40.3%	53.2%	6.5%
Toyota	Truck	All	2000	11.8%	85.0%			100.0%					100.0%		29.2%		9.9%	52.6%	37.5%
Toyota	Truck	All	2001	9.0%	87.8%			100.0%					100.0%		38.4%		12.8%	33.3%	53.8%
Toyota	Truck	All	2002	7.1%	90.1%			100.0%					100.0%		38.4%		27.9%	43.9%	28.1%
Toyota	Truck	All	2003	7.0%	89.9%			100.0%					100.0%		39.8%		27.4%	44.7%	27.9%
Toyota	Truck	All	2004	4.6%	93.0%			100.0%					100.0%		56.8%		20.1%	60.7%	19.2%
Toyota	Truck	All	2005	5.1%	94.9%			100.0%					100.0%		96.1%		4.8%	59.1%	36.1%
Toyota	Truck	All	2006	4.4%	87.6%	7.9%		100.0%					100.0%		100.0%	7.9%		71.0%	29.0%
Toyota	Truck	All	2007	4.6%	91.3%	4.1%		100.0%					100.0%		89.8%	4.1%		74.4%	25.6%
Toyota	Truck	All	2008	3.3%	91.5%	5.3%		100.0%					100.0%		82.0%	5.3%		77.0%	23.0%
Toyota	Truck	All	2009	6.1%	91.4%	2.5%		100.0%					100.0%		81.6%	2.5%		93.8%	6.2%
Toyota	Truck	All	2010	3.0%	93.4%	3.6%		100.0%					100.0%		100.0%	3.6%		79.4%	20.6%
Toyota	Truck	All	2011	1.8%	96.8%	1.4%		100.0%					100.0%		100.0%	1.4%		70.9%	29.1%
Toyota	Truck	All	2012	2.5%	95.0%	2.6%		100.0%					100.0%		100.0%	2.6%		64.2%	35.8%
Toyota	All	All	1975	68.8%													100.0%		
Toyota	All	All	1976	64.2%													100.0%	0.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Toyota	All	All	1977	27.7	21.5	26.7	23.6	2685		115	82	14.6	0.730	0.0306	37.9				
Toyota	All	All	1978	25.7	20.2	24.5	21.9	2694		119	85	14.3	0.728	0.0314	35.4				
Toyota	All	All	1979	22.9	17.8	22.0	19.5	2733		118	83	14.7	0.718	0.0303	31.7				1.3%
Toyota	All	All	1980	25.9	20.5	24.3	22.1	2672		119	81	14.7	0.685	0.0304	35.1			14.5%	6.7%
Toyota	All	All	1981	29.9	23.8	27.8	25.4	2621		119	79	14.9	0.664	0.0300	39.6			16.7%	6.4%
Toyota	All	All	1982	29.1	23.0	27.3	24.8	2677		124	84	14.6	0.676	0.0310	39.2			19.6%	8.6%
Toyota	All	All	1983	30.5	24.4	28.2	26.0	2754		122	88	14.5	0.716	0.0314	42.5			22.0%	33.5%
Toyota	All	All	1984	29.7	23.6	27.5	25.2	2845		125	91	14.4	0.723	0.0316	42.8			36.0%	14.5%
Toyota	All	All	1985	30.0	23.9	28.0	25.6	2889		126	96	14.0	0.760	0.0331	43.8			21.9%	29.0%
Toyota	All	All	1986	29.4	23.3	27.3	24.9	2959		127	101	13.7	0.798	0.0340	43.8			48.5%	15.5%
Toyota	All	All	1987	30.0	23.4	28.0	25.3	2966		125	107	13.1	0.852	0.0357	45.0			52.2%	16.0%
Toyota	All	All	1988	29.6	23.0	27.4	24.9	2942		123	108	12.8	0.882	0.0365	44.0			65.6%	15.8%
Toyota	All	All	1989	28.9	22.3	26.7	24.2	3004		126	114	12.6	0.908	0.0377	43.9			66.0%	14.0%
Toyota	All	All	1990	27.8	21.2	25.9	23.2	3132		132	124	12.2	0.948	0.0392	44.0			69.4%	14.3%
Toyota	All	All	1991	27.5	20.9	25.6	22.9	3173		132	124	12.3	0.949	0.0389	44.0			59.2%	13.8%
Toyota	All	All	1992	26.8	20.0	25.0	22.2	3242		136	131	12.1	0.969	0.0400	43.6			45.7%	11.8%
Toyota	All	All	1993	26.7	19.8	25.0	22.1	3285		140	136	11.8	0.977	0.0411	44.2			66.0%	12.5%
Toyota	All	All	1994	26.4	19.4	24.6	21.8	3317		141	131	12.2	0.940	0.0395	44.1			64.3%	18.0%
Toyota	All	All	1995	27.0	19.7	25.2	22.2	3369		146	141	11.7	0.980	0.0418	46.0			45.4%	15.2%
Toyota	All	All	1996	27.4	19.9	25.4	22.4	3322		147	142	11.5	0.976	0.0425	45.7			70.4%	15.8%
Toyota	All	All	1997	27.1	19.5	25.1	22.1	3371		150	149	11.3	0.997	0.0437	46.2			72.7%	15.1%
Toyota	All	All	1998	27.4	19.6	25.4	22.3	3455		155	158	10.9	1.023	0.0455	47.9			68.0%	16.0%
Toyota	All	All	1999	27.1	19.3	25.0	22.0	3536		157	163	10.9	1.041	0.0460	48.4			67.4%	19.2%
Toyota	All	All	2000	26.2	18.5	24.1	21.2	3623		166	171	10.6	1.050	0.0472	48.0			66.0%	19.5%
Toyota	All	All	2001	26.5	18.6	24.2	21.3	3639		165	175	10.5	1.073	0.0479	49.0			60.8%	20.8%
Toyota	All	All	2002	26.0	18.2	23.7	20.9	3732		176	184	10.3	1.066	0.0492	49.4			60.6%	19.9%
Toyota	All	All	2003	27.1	18.7	24.7	21.7	3624		170	178	10.2	1.083	0.0491	50.0			63.9%	19.3%
Toyota	All	All	2004	26.6	18.2	24.3	21.2	3862		181	191	10.1	1.074	0.0491	52.5			61.8%	23.7%
Toyota	All	All	2005	28.8	19.5	26.0	22.7	3711		172	186	10.0	1.093	0.0493	55.1			69.4%	18.9%
Toyota	All	All	2006	28.4	19.4	25.4	22.4	3811		177	189	10.0	1.079	0.0489	55.7			60.8%	23.0%
Toyota	All	All	2007	29.6	20.1	26.5	23.3	3808		178	200	9.7	1.116	0.0511	58.2			66.2%	21.0%
Toyota	All	All	2008	29.0	19.8	25.8	22.8	3953		186	212	9.5	1.128	0.0519	59.5			59.5%	27.3%
Toyota	All	All	2009	32.4	21.9	29.0	25.4	3612		156	180	10.1	1.146	0.0487	60.1			77.3%	16.9%
Toyota	All	All	2010	32.4	22.0	28.7	25.4	3821		167	194	9.8	1.151	0.0493	66.4			68.8%	23.5%
Toyota	All	All	2011	30.6	20.6	27.6	24.1	3960		179	209	9.5	1.164	0.0517	63.5			68.0%	24.7%
Toyota	All	All	2012	32.8	22.2	29.0	25.6	3827		170	196	9.7	1.142	0.0499	66.9			69.4%	22.4%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Toyota	All	All	1977	77.3%													99.8%	0.2%	
Toyota	All	All	1978	72.4%													99.6%	0.4%	
Toyota	All	All	1979	70.1%				4.7%									99.9%	0.1%	
Toyota	All	All	1980	69.9%				4.1%									100.0%		
Toyota	All	All	1981	65.3%				5.2%		2.3%							100.0%		
Toyota	All	All	1982	64.4%	3.3%			10.0%		2.4%							100.0%		
Toyota	All	All	1983	65.0%	9.2%			30.1%		0.8%							99.4%	0.6%	
Toyota	All	All	1984	58.2%	29.6%			37.2%		1.7%							98.5%	1.5%	
Toyota	All	All	1985	56.8%	32.9%			48.1%		0.6%							95.8%	4.2%	
Toyota	All	All	1986	53.7%	38.6%			52.3%		0.1%	50.5%		8.7%				95.0%	5.0%	
Toyota	All	All	1987	50.7%	44.7%			50.8%			19.9%	9.2%	35.1%				95.3%	4.7%	
Toyota	All	All	1988	47.0%	49.9%			56.2%			7.1%	11.9%	50.9%				95.9%	4.1%	
Toyota	All	All	1989	40.9%	57.0%			62.3%				12.6%	60.3%				97.1%	2.9%	
Toyota	All	All	1990	33.2%	65.4%			88.3%			0.6%	9.1%	66.9%		4.3%		88.0%	12.0%	
Toyota	All	All	1991	34.4%	64.0%			100.0%			0.5%	10.6%	59.3%		3.9%		82.8%	16.1%	1.1%
Toyota	All	All	1992	30.8%	67.8%			100.0%			0.5%	9.3%	65.9%		5.8%		61.3%	38.0%	0.8%
Toyota	All	All	1993	30.9%	67.6%			100.0%			0.7%	9.4%	62.9%		6.0%		54.0%	39.6%	6.5%
Toyota	All	All	1994	31.7%	66.0%			100.0%			17.3%	20.6%	62.2%		3.7%		57.5%	39.8%	2.7%
Toyota	All	All	1995	19.0%	79.2%			100.0%			3.4%		96.6%		4.4%		47.4%	43.0%	9.6%
Toyota	All	All	1996	17.0%	80.5%			100.0%					100.0%		2.8%		47.3%	41.4%	11.4%
Toyota	All	All	1997	13.3%	84.8%			100.0%					100.0%		2.0%		45.4%	43.7%	10.9%
Toyota	All	All	1998	12.4%	84.7%			100.0%					100.0%		4.4%		41.3%	50.7%	8.0%
Toyota	All	All	1999	9.7%	88.7%			100.0%					100.0%		17.5%		41.2%	52.4%	6.4%
Toyota	All	All	2000	9.2%	89.6%			100.0%					100.0%		43.7%		30.0%	48.7%	21.2%
Toyota	All	All	2001	7.4%	90.3%	1.0%		100.0%					100.0%		53.5%		35.0%	36.4%	28.5%
Toyota	All	All	2002	6.1%	91.4%	1.3%		100.0%			0.0%		100.0%		67.6%	1.3%	33.0%	51.3%	15.7%
Toyota	All	All	2003	6.4%	91.7%	0.8%		100.0%			0.0%		100.0%		75.5%	0.7%	41.4%	43.0%	15.6%
Toyota	All	All	2004	4.9%	91.6%	2.3%		100.0%					100.0%		79.5%	2.3%	33.6%	53.3%	13.1%
Toyota	All	All	2005	6.5%	88.2%	5.2%		100.0%					100.0%		98.5%	5.2%	32.4%	50.3%	17.3%
Toyota	All	All	2006	6.2%	86.4%	7.3%		100.0%					100.0%		100.0%	7.3%	31.8%	50.3%	17.8%
Toyota	All	All	2007	4.7%	85.9%	9.4%		100.0%					100.0%		96.6%	9.5%	24.2%	64.4%	11.4%
Toyota	All	All	2008	4.6%	83.9%	11.5%	0.4%	99.6%					100.0%		92.2%	11.6%	25.1%	62.2%	12.7%
Toyota	All	All	2009	4.3%	87.6%	8.0%	2.1%	97.9%					100.0%		95.5%	8.1%	34.7%	62.5%	2.8%
Toyota	All	All	2010	2.5%	83.3%	14.2%	1.6%	98.4%					100.0%		100.0%	14.2%	31.1%	61.7%	7.3%
Toyota	All	All	2011	1.5%	89.6%	8.9%	2.3%	97.7%					100.0%		100.0%	8.9%	17.3%	68.3%	14.4%
Toyota	All	All	2012	3.1%	81.3%	15.6%	2.5%	97.5%					100.0%		100.0%	14.6%	27.3%	59.4%	13.3%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Honda	Car	Car	1975	31.4	24.5	30.0	26.7	2000		83	54	15.9	0.653	0.0271	31.5			100.0%	
Honda	Car	Car	1976	32.9	25.9	31.2	28.0	2001		83	56	15.6	0.672	0.0279	33.2			100.0%	
Honda	Car	Car	1977	36.2	28.6	34.0	30.8	2058	78.3	88	63	14.5	0.726	0.0306	38.2	2905	3007	100.0%	
Honda	Car	Car	1978	34.0	27.5	30.6	28.8	2113	82.9	90	63	14.7	0.701	0.0299	36.3	2854	3044	100.0%	
Honda	Car	Car	1979	29.0	23.3	26.5	24.6	2313	83.0	98	64	15.5	0.664	0.0279	33.6	2411	2803	100.0%	
Honda	Car	Car	1980	28.9	23.1	26.6	24.6	2337	86.8	100	68	15.1	0.680	0.0292	34.0	2543	2951	100.0%	
Honda	Car	Car	1981	30.6	24.7	27.7	26.0	2351	86.9	100	72	14.6	0.714	0.0305	36.2	2693	3143	100.0%	
Honda	Car	Car	1982	33.2	26.8	30.1	28.2	2363	91.3	101	72	14.6	0.713	0.0305	39.5	3066	3605	100.0%	
Honda	Car	Car	1983	35.2	28.1	32.4	29.9	2389	91.1	102	74	14.5	0.728	0.0310	42.4	3242	3862	100.0%	
Honda	Car	Car	1984	35.1	27.6	33.3	29.9	2387	89.2	105	85	13.0	0.807	0.0355	42.3	3146	3760	100.0%	
Honda	Car	Car	1985	33.7	26.5	32.0	28.7	2440	88.0	105	85	13.2	0.812	0.0349	41.4	2981	3637	100.0%	
Honda	Car	Car	1986	33.5	26.1	31.8	28.4	2576	92.3	108	92	13.3	0.839	0.0353	43.4	3101	4008	100.0%	
Honda	Car	Car	1987	32.8	25.3	31.1	27.7	2639	93.8	110	94	13.5	0.845	0.0350	43.5	3094	4077	100.0%	
Honda	Car	Car	1988	31.8	24.3	30.0	26.7	2772	97.0	115	106	12.6	0.912	0.0376	44.4	3132	4299	100.0%	
Honda	Car	Car	1989	31.2	23.8	29.4	26.2	2805	96.8	113	111	12.1	0.985	0.0393	44.1	3068	4267	96.1%	3.9%
Honda	Car	Car	1990	30.3	23.0	28.3	25.3	2889	99.5	120	122	11.5	1.020	0.0419	44.2	3057	4381	100.0%	
Honda	Car	Car	1991	30.4	23.0	28.2	25.3	2899	99.2	123	130	11.1	1.056	0.0442	44.4	3062	4394	99.6%	
Honda	Car	Car	1992	31.0	22.9	29.5	25.8	3004	100.5	125	135	10.9	1.087	0.0447	47.3	3212	4736	99.8%	
Honda	Car	Car	1993	32.2	23.7	30.3	26.6	2969	97.1	119	125	11.5	1.063	0.0419	48.3	3195	4675	99.9%	
Honda	Car	Car	1994	32.1	23.4	30.2	26.4	3047	98.0	121	133	11.2	1.115	0.0436	49.3	3197	4828	99.9%	
Honda	Car	Car	1995	32.9	23.8	30.6	26.9	2986	97.1	117	130	11.2	1.128	0.0435	49.4	3246	4793	99.9%	
Honda	Car	Car	1996	31.9	22.9	29.8	26.0	3041	101.8	124	134	11.0	1.095	0.0440	48.8	3304	4959	99.9%	
Honda	Car	Car	1997	32.2	23.0	29.9	26.2	3013	100.9	122	133	11.1	1.101	0.0439	48.9	3309	4923	100.0%	
Honda	Car	Car	1998	32.0	22.6	29.8	25.9	3173	104.0	128	144	10.9	1.136	0.0451	50.9	3373	5299	100.0%	
Honda	Car	Car	1999	30.9	21.6	29.0	25.0	3221	105.0	135	153	10.6	1.142	0.0470	50.0	3288	5254	100.0%	
Honda	Car	Car	2000	31.0	21.5	29.0	25.0	3195	104.4	134	153	10.5	1.157	0.0476	49.8	3279	5201	99.0%	
Honda	Car	Car	2001	32.2	22.1	30.1	25.9	3189	104.6	134	154	10.5	1.150	0.0478	51.9	3448	5425	98.8%	
Honda	Car	Car	2002	32.0	21.8	29.7	25.5	3218	105.4	136	157	10.4	1.160	0.0483	51.8	3434	5460	98.8%	
Honda	Car	Car	2003	32.7	21.8	31.0	26.1	3283	105.8	141	170	10.0	1.193	0.0510	54.4	3539	5755	99.1%	
Honda	Car	Car	2004	32.7	21.8	30.6	26.0	3296	105.5	139	171	10.0	1.212	0.0511	54.6	3531	5759	99.1%	
Honda	Car	Car	2005	32.8	21.7	30.7	26.0	3308	105.7	141	174	9.9	1.215	0.0515	55.0	3556	5819	96.3%	2.6%
Honda	Car	Car	2006	33.5	22.0	31.3	26.5	3336	104.8	139	178	9.6	1.275	0.0527	56.9	3605	5956	97.8%	1.5%
Honda	Car	Car	2007	33.4	22.0	31.3	26.5	3333	105.4	139	176	9.7	1.263	0.0523	56.8	3615	5978	98.8%	0.6%
Honda	Car	Car	2008	33.8	22.1	31.9	26.8	3386	108.8	142	181	9.6	1.282	0.0528	58.0	3753	6302	99.1%	0.6%
Honda	Car	Car	2009	34.1	22.3	32.0	27.0	3373	109.2	140	179	9.7	1.280	0.0525	58.0	3775	6321	98.5%	1.4%
Honda	Car	Car	2010	35.2	23.1	32.7	27.7	3354	108.6	138	180	9.5	1.296	0.0527	60.1	3913	6499	98.1%	1.9%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Honda	Car	Car	1975	87.8%	12.2%												100.0%		
Honda	Car	Car	1976	88.5%													100.0%		
Honda	Car	Car	1977	82.4%													100.0%		
Honda	Car	Car	1978	82.1%	17.9%												100.0%		
Honda	Car	Car	1979	75.1%	24.9%												100.0%		
Honda	Car	Car	1980	56.8%	7.0%												100.0%		
Honda	Car	Car	1981	73.5%													100.0%		
Honda	Car	Car	1982	71.5%													100.0%		
Honda	Car	Car	1983	64.0%	25.0%												100.0%		
Honda	Car	Car	1984	64.4%	35.6%												100.0%		
Honda	Car	Car	1985	62.3%	37.7%			8.8%									100.0%		
Honda	Car	Car	1986	62.4%	37.6%			39.1%			26.0%	67.6%	6.4%				100.0%		
Honda	Car	Car	1987	48.6%	51.4%			39.0%			2.3%	83.5%	14.3%				100.0%		
Honda	Car	Car	1988	47.5%	52.5%			42.9%	22.0%		1.5%	52.3%	46.3%				100.0%		
Honda	Car	Car	1989	46.3%	53.7%			48.7%	24.9%		1.3%	49.5%	49.2%				100.0%		
Honda	Car	Car	1990	41.0%	59.0%			76.3%	23.1%		0.9%	0.6%	98.5%				100.0%		
Honda	Car	Car	1991	39.1%	60.9%			74.2%	25.8%		1.0%		99.0%		0.4%		100.0%		
Honda	Car	Car	1992	35.6%	64.4%			100.0%			2.6%		97.4%		3.8%		100.0%		
Honda	Car	Car	1993	35.7%	64.3%			100.0%			0.4%		99.6%		14.6%		100.0%		
Honda	Car	Car	1994	35.9%	64.1%			100.0%			1.4%		98.6%		36.5%		100.0%		
Honda	Car	Car	1995	35.9%	64.1%			100.0%			1.1%		98.9%		35.1%		100.0%		
Honda	Car	Car	1996	27.6%	72.3%	0.2%		100.0%					100.0%		28.6%		97.9%	2.1%	
Honda	Car	Car	1997	26.8%	72.4%	0.8%		100.0%					100.0%		31.3%		98.1%	1.9%	
Honda	Car	Car	1998	22.2%	77.2%	0.6%		100.0%					100.0%		66.2%		52.7%	47.3%	
Honda	Car	Car	1999	18.8%	81.0%	0.3%		100.0%					100.0%		73.9%		43.7%	56.3%	
Honda	Car	Car	2000	17.9%	82.0%	0.2%		100.0%					100.0%		74.5%	0.6%	43.2%	56.8%	
Honda	Car	Car	2001	16.6%	83.0%	0.3%		100.0%					100.0%		94.3%	0.4%	50.0%	50.0%	
Honda	Car	Car	2002	16.3%	83.4%	0.2%		100.0%					100.0%		95.6%	0.2%	44.0%	56.0%	
Honda	Car	Car	2003	13.8%	83.1%	3.1%		100.0%			3.7%		96.3%		99.7%	3.8%	40.1%	59.9%	
Honda	Car	Car	2004	13.7%	84.0%	2.3%		100.0%			2.8%		97.2%		99.0%	2.8%	44.1%	55.9%	
Honda	Car	Car	2005	11.8%	85.4%	2.8%		100.0%			3.3%		96.7%		100.0%	5.7%	42.6%	57.4%	
Honda	Car	Car	2006	11.8%	84.4%	3.9%		100.0%			3.8%		96.2%		100.0%	4.4%	48.7%	51.3%	
Honda	Car	Car	2007	10.7%	85.4%	3.9%		100.0%			3.9%		96.1%		100.0%	4.4%	43.0%	57.0%	
Honda	Car	Car	2008	8.9%	87.2%	3.9%		100.0%			3.9%		96.1%		100.0%	3.9%	51.8%	7.5%	40.7%
Honda	Car	Car	2009	5.4%	91.7%	2.9%		100.0%			2.9%		97.1%		100.0%	2.9%	53.2%	5.5%	41.4%
Honda	Car	Car	2010	2.6%	89.8%	7.7%		100.0%			7.7%		92.3%		100.0%	7.7%	57.0%	6.0%	37.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Honda	Car	Car	2011	36.1	23.5	33.9	28.5	3374	108.4	140	175	9.7	1.253	0.0512	61.4	3939	6631	99.0%	1.0%
Honda	Car	Car	2012	37.9	24.7	35.1	29.7	3343	108.6	138	174	9.7	1.258	0.0511	64.4	4207	6961	97.7%	2.3%
Honda	Car	Wagon	1975																
Honda	Car	Wagon	1976	29.4	22.9	28.3	25.1	2250		91	60	16.1	0.659	0.0267	33.1			100.0%	
Honda	Car	Wagon	1977	31.9	25.6	29.1	27.1	2250	87.0	91	60	16.2	0.659	0.0267	36.1	2790	3138	100.0%	
Honda	Car	Wagon	1978	31.5	26.5	26.9	26.7	2250	88.0	91	63	15.5	0.692	0.0280	35.6	2786	3134	100.0%	
Honda	Car	Wagon	1979	29.9	24.3	26.7	25.3	2250	87.4	91	63	15.5	0.692	0.0280	33.7	2620	2948	100.0%	
Honda	Car	Wagon	1980	32.5	26.5	29.1	27.6	2250	110.7	91	67	14.7	0.736	0.0298	36.9	3629	4083	100.0%	
Honda	Car	Wagon	1981	33.7	27.5	30.1	28.6	2250	101.9	91	67	14.8	0.736	0.0298	38.0	3443	3873	100.0%	
Honda	Car	Wagon	1982	36.7	29.9	32.9	31.2	2250	101.9	91	67	14.8	0.736	0.0298	41.6	3764	4235	100.0%	
Honda	Car	Wagon	1983	36.7	29.8	33.0	31.2	2250	101.8	91	67	14.8	0.736	0.0298	41.5	3756	4225	100.0%	
Honda	Car	Wagon	1984	36.1	29.4	32.4	30.7	2250	111.4	91	76	13.5	0.835	0.0338	40.7	4033	4537	100.0%	
Honda	Car	Wagon	1985	34.8	28.0	31.6	29.5	2317	111.4	91	75	13.8	0.829	0.0327	40.5	3907	4514	73.1%	26.9%
Honda	Car	Wagon	1986	34.6	27.5	31.6	29.2	2374	111.4	91	58	17.3	0.637	0.0245	41.1	3878	4583	66.7%	33.3%
Honda	Car	Wagon	1987	34.2	27.0	31.2	28.8	2390	111.4	91	58	17.4	0.637	0.0243	41.0	3833	4563	66.1%	33.9%
Honda	Car	Wagon	1988	34.2	27.2	30.3	28.6	2599	116.8	93	84	14.3	0.893	0.0320	44.6	4029	5214	60.4%	39.6%
Honda	Car	Wagon	1989	34.7	27.0	31.4	28.9	2536	116.8	92	94	12.5	1.026	0.0372	44.2	4081	5164	85.6%	14.4%
Honda	Car	Wagon	1990	35.2	27.5	31.1	29.1	2666	116.8	92	94	13.0	1.026	0.0354	47.0	4139	5489	85.6%	14.4%
Honda	Car	Wagon	1991	28.7	21.7	26.7	23.9	3238	122.9	119	126	12.2	1.054	0.0386	46.6	3578	5722	100.0%	
Honda	Car	Wagon	1992	27.1	20.1	25.9	22.6	3500	125.9	132	140	11.9	1.061	0.0400	47.5	3417	5979	100.0%	
Honda	Car	Wagon	1993	27.6	20.3	26.1	22.9	3500	125.9	132	125	13.0	0.947	0.0357	48.3	3478	6086	100.0%	
Honda	Car	Wagon	1994	29.0	21.1	27.4	23.9	3500	119.9	132	136	12.2	1.033	0.0390	50.8	3481	6092	100.0%	
Honda	Car	Wagon	1995	29.0	21.0	27.4	23.9	3500	119.9	132	137	12.1	1.038	0.0392	50.9	3487	6102	100.0%	
Honda	Car	Wagon	1996	28.5	20.6	26.5	23.3	3500	119.9	132	137	12.1	1.036	0.0391	50.0	3425	5993	100.0%	
Honda	Car	Wagon	1997	27.2	19.8	24.6	22.1	3500	119.9	132	137	12.1	1.035	0.0390	47.8	3279	5738	100.0%	
Honda	Car	Wagon	1998																
Honda	Car	Wagon	1999																
Honda	Car	Wagon	2000																
Honda	Car	Wagon	2001																
Honda	Car	Wagon	2002																
Honda	Car	Wagon	2003																
Honda	Car	Wagon	2004																
Honda	Car	Wagon	2005																
Honda	Car	Wagon	2006																
Honda	Car	Wagon	2007	39.8	27.0	34.1	30.6	2750	111.3	91	109	11.8	1.198	0.0396	54.8	4436	6099	100.0%	
Honda	Car	Wagon	2008	39.9	27.1	34.1	30.7	2750	111.3	91	109	11.9	1.198	0.0396	54.9	4450	6118	100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Honda	Car	Car	2011	4.4%	89.6%	6.0%		100.0%			3.4%		96.6%		100.0%	7.4%	50.2%	3.3%	46.5%
Honda	Car	Car	2012	6.2%	85.2%	8.7%		100.0%			7.6%		92.4%		100.0%	9.2%	56.6%	6.8%	36.6%
Honda	Car	Wagon	1975																
Honda	Car	Wagon	1976	93.3%													100.0%		
Honda	Car	Wagon	1977	75.0%													100.0%		
Honda	Car	Wagon	1978	80.9%	19.1%												100.0%		
Honda	Car	Wagon	1979	70.5%	29.5%												100.0%		
Honda	Car	Wagon	1980	71.1%	28.9%												100.0%		
Honda	Car	Wagon	1981	74.7%													100.0%		
Honda	Car	Wagon	1982	74.9%													100.0%		
Honda	Car	Wagon	1983	71.1%													100.0%		
Honda	Car	Wagon	1984	67.2%	32.8%												100.0%		
Honda	Car	Wagon	1985	72.2%	27.8%												100.0%		
Honda	Car	Wagon	1986	75.0%	25.0%						100.0%						100.0%		
Honda	Car	Wagon	1987	67.3%	32.7%							100.0%					100.0%		
Honda	Car	Wagon	1988	70.4%	29.6%			39.6%	60.4%				100.0%				100.0%		
Honda	Car	Wagon	1989	49.2%	50.8%			14.4%	85.6%				100.0%				100.0%		
Honda	Car	Wagon	1990	52.0%	48.0%			14.4%	85.6%				100.0%				100.0%		
Honda	Car	Wagon	1991	27.4%	72.6%			76.5%	23.5%				100.0%				100.0%		
Honda	Car	Wagon	1992	15.7%	84.3%			100.0%					100.0%				100.0%		
Honda	Car	Wagon	1993	19.3%	80.7%			100.0%					100.0%				100.0%		
Honda	Car	Wagon	1994	12.0%	88.0%			100.0%					100.0%		42.3%		100.0%		
Honda	Car	Wagon	1995	9.1%	90.9%			100.0%					100.0%		46.9%		100.0%		
Honda	Car	Wagon	1996	7.4%	92.6%			100.0%					100.0%		45.4%		100.0%		
Honda	Car	Wagon	1997	9.5%	90.5%			100.0%					100.0%		44.4%		100.0%		
Honda	Car	Wagon	1998																
Honda	Car	Wagon	1999																
Honda	Car	Wagon	2000																
Honda	Car	Wagon	2001																
Honda	Car	Wagon	2002																
Honda	Car	Wagon	2003																
Honda	Car	Wagon	2004																
Honda	Car	Wagon	2005																
Honda	Car	Wagon	2006																
Honda	Car	Wagon	2007	21.9%	78.1%			100.0%					100.0%		100.0%		100.0%		
Honda	Car	Wagon	2008	28.8%	71.2%			100.0%					100.0%		100.0%		100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Honda	Car	Wagon	2009	40.1	27.4	33.7	30.6	2750	111.5	91	117	11.3	1.286	0.0425	55.1	4467	6143	100.0%	
Honda	Car	Wagon	2010	40.2	27.5	33.8	30.7	2750	112.0	92	117	11.3	1.272	0.0425	55.3	4503	6192	100.0%	
Honda	Car	Wagon	2011	40.2	27.3	34.0	30.8	2833	112.4	96	123	11.2	1.279	0.0431	56.8	4527	6394	100.0%	
Honda	Car	Wagon	2012	40.3	26.9	33.3	30.2	2814	111.9	95	121	11.2	1.277	0.0429	56.6	4518	6337	100.0%	
Honda	Car	Non-Truck SUV	1975																
Honda	Car	Non-Truck SUV	1976																
Honda	Car	Non-Truck SUV	1977																
Honda	Car	Non-Truck SUV	1978																
Honda	Car	Non-Truck SUV	1979																
Honda	Car	Non-Truck SUV	1980																
Honda	Car	Non-Truck SUV	1981																
Honda	Car	Non-Truck SUV	1982																
Honda	Car	Non-Truck SUV	1983																
Honda	Car	Non-Truck SUV	1984																
Honda	Car	Non-Truck SUV	1985																
Honda	Car	Non-Truck SUV	1986																
Honda	Car	Non-Truck SUV	1987																
Honda	Car	Non-Truck SUV	1988																
Honda	Car	Non-Truck SUV	1989																
Honda	Car	Non-Truck SUV	1990																
Honda	Car	Non-Truck SUV	1991																
Honda	Car	Non-Truck SUV	1992																
Honda	Car	Non-Truck SUV	1993																
Honda	Car	Non-Truck SUV	1994	20.4	15.5	18.4	16.8	4000	125.0	183	161	12.0	0.871	0.0401	40.9	2554	5108	100.0%	
Honda	Car	Non-Truck SUV	1995																
Honda	Car	Non-Truck SUV	1996	19.9	14.8	18.1	16.3	4000	125.0	188	181	10.9	0.958	0.0454	40.0	2501	5001		
Honda	Car	Non-Truck SUV	1997	19.4	14.3	17.8	15.9	4000	125.0	193	190	10.4	0.984	0.0475	38.9	2429	4857		
Honda	Car	Non-Truck SUV	1998	25.1	18.4	22.3	20.3	3656	125.0	143	151	12.0	1.054	0.0408	46.2	3181	5772	68.7%	
Honda	Car	Non-Truck SUV	1999	25.1	18.4	22.1	20.2	3655	125.0	143	164	11.0	1.169	0.0447	46.3	3191	5790	68.9%	
Honda	Car	Non-Truck SUV	2000	25.5	18.6	22.3	20.4	3633	125.0	139	162	11.0	1.176	0.0443	46.6	3230	5829	73.4%	
Honda	Car	Non-Truck SUV	2001	26.1	18.9	22.6	20.8	3605	125.0	135	158	11.1	1.184	0.0437	47.2	3288	5897	79.0%	
Honda	Car	Non-Truck SUV	2002	28.8	20.3	25.6	22.9	3543	125.0	148	164	10.6	1.107	0.0462	51.3	3629	6408	91.4%	
Honda	Car	Non-Truck SUV	2003	29.7	20.7	26.3	23.5	3500	125.0	144	160	10.7	1.111	0.0457	52.0	3714	6499	100.0%	
Honda	Car	Non-Truck SUV	2004	29.4	20.1	26.5	23.2	3500	125.0	144	160	10.7	1.111	0.0457	51.4	3671	6424	100.0%	
Honda	Car	Non-Truck SUV	2005	29.7	20.3	26.3	23.3	3500	125.0	144	160	10.7	1.111	0.0457	51.9	3708	6489	100.0%	
Honda	Car	Non-Truck SUV	2006	29.7	20.3	26.3	23.3	3500	125.0	144	156	10.9	1.083	0.0446	51.9	3708	6489	100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Honda	Car	Wagon	2009	19.5%	80.5%			100.0%					100.0%		100.0%		100.0%		
Honda	Car	Wagon	2010	15.2%	84.8%			100.0%					100.0%		100.0%		100.0%		
Honda	Car	Wagon	2011	11.8%	88.2%			100.0%					100.0%		100.0%		100.0%		
Honda	Car	Wagon	2012	15.6%	84.4%			100.0%					100.0%		100.0%		100.0%		
Honda	Car	Non-Truck SUV	1975																
Honda	Car	Non-Truck SUV	1976																
Honda	Car	Non-Truck SUV	1977																
Honda	Car	Non-Truck SUV	1978																
Honda	Car	Non-Truck SUV	1979																
Honda	Car	Non-Truck SUV	1980																
Honda	Car	Non-Truck SUV	1981																
Honda	Car	Non-Truck SUV	1982																
Honda	Car	Non-Truck SUV	1983																
Honda	Car	Non-Truck SUV	1984																
Honda	Car	Non-Truck SUV	1985																
Honda	Car	Non-Truck SUV	1986																
Honda	Car	Non-Truck SUV	1987																
Honda	Car	Non-Truck SUV	1988																
Honda	Car	Non-Truck SUV	1989																
Honda	Car	Non-Truck SUV	1990																
Honda	Car	Non-Truck SUV	1991																
Honda	Car	Non-Truck SUV	1992																
Honda	Car	Non-Truck SUV	1993																
Honda	Car	Non-Truck SUV	1994	54.8%	45.2%			100.0%			26.2%		73.8%					100.0%	
Honda	Car	Non-Truck SUV	1995																
Honda	Car	Non-Truck SUV	1996	17.2%	82.8%			100.0%			12.2%		87.8%					100.0%	
Honda	Car	Non-Truck SUV	1997	5.3%	94.7%			100.0%					100.0%					100.0%	
Honda	Car	Non-Truck SUV	1998	1.4%	98.6%			100.0%					100.0%					100.0%	
Honda	Car	Non-Truck SUV	1999	1.1%	98.9%			100.0%					100.0%					100.0%	
Honda	Car	Non-Truck SUV	2000	0.8%	99.2%			100.0%					100.0%					100.0%	
Honda	Car	Non-Truck SUV	2001	0.5%	99.5%			100.0%					100.0%					100.0%	
Honda	Car	Non-Truck SUV	2002	0.2%	99.8%			100.0%					100.0%		91.4%			100.0%	
Honda	Car	Non-Truck SUV	2003		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Car	Non-Truck SUV	2004		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Car	Non-Truck SUV	2005		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Car	Non-Truck SUV	2006		100.0%			100.0%					100.0%		100.0%			100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Honda	Car	Non-Truck SUV	2007	29.9	20.1	27.1	23.6	3500	125.0	144	166	10.4	1.153	0.0474	52.3	3734	6534	100.0%	
Honda	Car	Non-Truck SUV	2008	29.7	20.0	27.0	23.5	3500	125.0	144	166	10.4	1.153	0.0474	52.0	3715	6502	100.0%	
Honda	Car	Non-Truck SUV	2009	29.7	20.0	27.0	23.5	3500	125.0	144	166	10.4	1.153	0.0474	52.0	3715	6502	100.0%	
Honda	Car	Non-Truck SUV	2010	31.0	21.0	27.7	24.4	3534	125.0	146	184	9.6	1.266	0.0520	54.7	3874	6838	100.0%	
Honda	Car	Non-Truck SUV	2011	30.9	20.9	27.7	24.3	3538	125.0	146	185	9.6	1.269	0.0521	54.7	3870	6838	100.0%	
Honda	Car	Non-Truck SUV	2012	33.7	22.6	30.4	26.5	3526	125.0	146	188	9.5	1.290	0.0532	59.6	4229	7445	100.0%	
Honda	Truck	Van	1975																
Honda	Truck	Van	1976																
Honda	Truck	Van	1977																
Honda	Truck	Van	1978																
Honda	Truck	Van	1979																
Honda	Truck	Van	1980																
Honda	Truck	Van	1981																
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Honda	Truck	Van	1990																
Honda	Truck	Van	1991																
Honda	Truck	Van	1992																
Honda	Truck	Van	1993																
Honda	Truck	Van	1994																
Honda	Truck	Van	1995	25.5	19.1	23.0	20.9	3500		132	140	11.9	1.061	0.0400	44.7			100.0%	
Honda	Truck	Van	1996	28.5	20.5	26.6	23.3	3500		132	145	11.6	1.098	0.0414	49.8			100.0%	
Honda	Truck	Van	1997	24.9	18.5	22.2	20.2	3500		132	130	12.6	0.985	0.0371	43.6			100.0%	
Honda	Truck	Van	1998	27.0	19.3	24.9	21.9	3500		138	150	11.3	1.087	0.0429	47.2			100.0%	
Honda	Truck	Van	1999	24.1	16.5	24.1	19.8	4500		212	205	10.7	0.967	0.0456	54.2			100.0%	
Honda	Truck	Van	2000	23.9	16.3	23.7	19.6	4500		212	205	10.7	0.967	0.0456	53.8			100.0%	
Honda	Truck	Van	2001	24.0	16.4	23.5	19.6	4500		212	205	10.7	0.967	0.0456	54.0			100.0%	
Honda	Truck	Van	2002	24.2	16.5	23.5	19.7	4500		212	240	9.4	1.132	0.0533	54.5			100.0%	
Honda	Truck	Van	2003	24.2	16.4	23.4	19.7	4500		212	240	9.4	1.132	0.0533	54.5			100.0%	
Honda	Truck	Van	2004	24.2	16.3	23.3	19.6	4500		212	240	9.4	1.132	0.0533	54.5			100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Honda	Car	Non-Truck SUV	2007		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Car	Non-Truck SUV	2008		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Car	Non-Truck SUV	2009		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Car	Non-Truck SUV	2010		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Car	Non-Truck SUV	2011		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Car	Non-Truck SUV	2012		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Van	1975																
Honda	Truck	Van	1976																
Honda	Truck	Van	1977																
Honda	Truck	Van	1978																
Honda	Truck	Van	1979																
Honda	Truck	Van	1980																
Honda	Truck	Van	1981																
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Honda	Truck	Van	1990																
Honda	Truck	Van	1991																
Honda	Truck	Van	1992																
Honda	Truck	Van	1993																
Honda	Truck	Van	1994																
Honda	Truck	Van	1995		100.0%			100.0%					100.0%					100.0%	
Honda	Truck	Van	1996		100.0%			100.0%					100.0%					100.0%	
Honda	Truck	Van	1997		100.0%			100.0%					100.0%					100.0%	
Honda	Truck	Van	1998		100.0%			100.0%					100.0%					100.0%	
Honda	Truck	Van	1999		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Van	2000		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Van	2001		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Van	2002		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Van	2003		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Van	2004		100.0%			100.0%					100.0%		100.0%			100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Honda	Truck	Van	2005	26.0	17.2	25.1	21.0	4500		212	255	9.0	1.203	0.0567	58.6			100.0%	
Honda	Truck	Van	2006	26.1	17.2	25.1	21.0	4500		212	244	9.3	1.151	0.0542	58.7			100.0%	
Honda	Truck	Van	2007	24.7	16.3	24.0	19.9	4500		212	244	9.3	1.151	0.0542	55.5			100.0%	
Honda	Truck	Van	2008	25.2	16.6	24.7	20.4	4500		212	242	9.4	1.141	0.0538	56.8			100.0%	
Honda	Truck	Van	2009	25.2	16.6	24.7	20.4	4835		212	242	9.9	1.141	0.0502	61.1			100.0%	
Honda	Truck	Van	2010	24.9	16.4	24.4	20.2	4840		214	244	9.9	1.140	0.0505	60.5			100.0%	
Honda	Truck	Van	2011	27.8	18.0	27.4	22.4	4500		214	248	9.2	1.159	0.0551	62.5			100.0%	
Honda	Truck	Van	2012	27.8	18.1	27.4	22.4	4500		214	248	9.2	1.159	0.0551	62.5			100.0%	
Honda	Truck	Truck SUV	1975																
Honda	Truck	Truck SUV	1976																
Honda	Truck	Truck SUV	1977																
Honda	Truck	Truck SUV	1978																
Honda	Truck	Truck SUV	1979																
Honda	Truck	Truck SUV	1980																
Honda	Truck	Truck SUV	1981																
Honda	Truck	Truck SUV	1982																
Honda	Truck	Truck SUV	1983																
Honda	Truck	Truck SUV	1984																
Honda	Truck	Truck SUV	1985																
Honda	Truck	Truck SUV	1986																
Honda	Truck	Truck SUV	1987																
Honda	Truck	Truck SUV	1988																
Honda	Truck	Truck SUV	1989																
Honda	Truck	Truck SUV	1990																
Honda	Truck	Truck SUV	1991																
Honda	Truck	Truck SUV	1992																
Honda	Truck	Truck SUV	1993																
Honda	Truck	Truck SUV	1994	20.1	15.3	18.0	16.5	4000		193	175	11.0	0.907	0.0438	40.2				100.0%
Honda	Truck	Truck SUV	1995																
Honda	Truck	Truck SUV	1996	19.0	14.0	17.5	15.7	4500		193	190	11.4	0.984	0.0422	42.8				
Honda	Truck	Truck SUV	1997	25.1	18.8	22.0	20.4	3673		133	137	12.7	1.039	0.0371	46.4				82.7%
Honda	Truck	Truck SUV	1998	25.5	18.8	22.4	20.6	3606		134	141	12.3	1.051	0.0389	46.1				100.0%
Honda	Truck	Truck SUV	1999	25.9	19.0	22.5	20.8	3587		132	156	11.2	1.191	0.0433	46.6				100.0%
Honda	Truck	Truck SUV	2000	26.2	19.2	22.6	20.9	3611		128	153	11.4	1.200	0.0421	47.3				100.0%
Honda	Truck	Truck SUV	2001	25.1	18.0	22.3	20.1	3865		152	178	10.8	1.181	0.0454	48.4				100.0%
Honda	Truck	Truck SUV	2002	25.8	18.1	23.3	20.7	3824		166	185	10.3	1.116	0.0480	49.3				100.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Honda	Truck	Van	2005		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Van	2006		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Van	2007		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Van	2008		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Van	2009		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Van	2010		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Van	2011		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Van	2012		100.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Truck SUV	1975																
Honda	Truck	Truck SUV	1976																
Honda	Truck	Truck SUV	1977																
Honda	Truck	Truck SUV	1978																
Honda	Truck	Truck SUV	1979																
Honda	Truck	Truck SUV	1980																
Honda	Truck	Truck SUV	1981																
Honda	Truck	Truck SUV	1982																
Honda	Truck	Truck SUV	1983																
Honda	Truck	Truck SUV	1984																
Honda	Truck	Truck SUV	1985																
Honda	Truck	Truck SUV	1986																
Honda	Truck	Truck SUV	1987																
Honda	Truck	Truck SUV	1988																
Honda	Truck	Truck SUV	1989																
Honda	Truck	Truck SUV	1990																
Honda	Truck	Truck SUV	1991																
Honda	Truck	Truck SUV	1992																
Honda	Truck	Truck SUV	1993																
Honda	Truck	Truck SUV	1994	65.5%	34.5%			100.0%					100.0%					100.0%	
Honda	Truck	Truck SUV	1995																
Honda	Truck	Truck SUV	1996	9.5%	90.5%			100.0%					100.0%					100.0%	
Honda	Truck	Truck SUV	1997	1.9%	98.1%			100.0%					100.0%					100.0%	
Honda	Truck	Truck SUV	1998	15.4%	84.6%			100.0%					100.0%					100.0%	
Honda	Truck	Truck SUV	1999	13.8%	86.2%			100.0%					100.0%					100.0%	
Honda	Truck	Truck SUV	2000	11.8%	88.2%			100.0%					100.0%					100.0%	
Honda	Truck	Truck SUV	2001	7.0%	93.0%			100.0%					100.0%		29.8%			100.0%	
Honda	Truck	Truck SUV	2002	5.7%	94.3%			100.0%					100.0%		98.0%			100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Honda	Truck	Truck SUV	2003	24.7	17.2	22.4	19.8	4061		177	202	10.2	1.136	0.0493	50.1			6.0%	94.0%
Honda	Truck	Truck SUV	2004	24.4	16.8	22.2	19.5	4082		180	206	10.0	1.138	0.0499	49.7			4.4%	95.6%
Honda	Truck	Truck SUV	2005	24.1	16.5	22.0	19.2	4095		181	214	9.8	1.169	0.0516	49.5			4.9%	95.1%
Honda	Truck	Truck SUV	2006	24.5	16.7	22.4	19.5	4101		182	207	10.1	1.127	0.0498	50.2			19.5%	80.5%
Honda	Truck	Truck SUV	2007	25.0	17.0	22.7	19.9	4231		177	215	10.1	1.216	0.0504	53.2			17.2%	82.8%
Honda	Truck	Truck SUV	2008	25.3	17.3	22.8	20.1	4212		175	213	10.2	1.218	0.0501	53.7			14.2%	85.8%
Honda	Truck	Truck SUV	2009	25.7	17.6	23.2	20.4	4244		179	217	10.1	1.209	0.0506	54.8			13.6%	86.4%
Honda	Truck	Truck SUV	2010	27.0	18.3	24.5	21.4	4237		179	223	9.8	1.245	0.0524	57.4			16.1%	83.9%
Honda	Truck	Truck SUV	2011	26.3	17.9	23.9	20.9	4321		185	226	9.8	1.227	0.0519	57.2			15.9%	84.1%
Honda	Truck	Truck SUV	2012	28.4	19.0	26.2	22.5	4172		184	229	9.3	1.254	0.0548	59.5			21.2%	78.8%
Honda	Truck	Pickup	1975																
Honda	Truck	Pickup	1976																
Honda	Truck	Pickup	1977																
Honda	Truck	Pickup	1978																
Honda	Truck	Pickup	1979																
Honda	Truck	Pickup	1980																
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Honda	Truck	Pickup	1997																
Honda	Truck	Pickup	1998																
Honda	Truck	Pickup	1999																
Honda	Truck	Pickup	2000																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Honda	Truck	Truck SUV	2003	4.4%	95.6%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Truck SUV	2004	4.2%	95.8%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Truck SUV	2005	3.0%	97.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Truck SUV	2006	2.6%	97.4%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Truck SUV	2007	1.0%	99.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Truck SUV	2008	0.6%	99.4%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Truck SUV	2009	0.1%	99.9%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	Truck SUV	2010	0.0%	100.0%			100.0%					100.0%		100.0%			88.1%	11.9%
Honda	Truck	Truck SUV	2011		100.0%			100.0%					100.0%		100.0%			97.0%	3.0%
Honda	Truck	Truck SUV	2012		100.0%			100.0%					100.0%		100.0%			81.3%	18.7%
Honda	Truck	Pickup	1975																
Honda	Truck	Pickup	1976																
Honda	Truck	Pickup	1977																
Honda	Truck	Pickup	1978																
Honda	Truck	Pickup	1979																
Honda	Truck	Pickup	1980																
Honda	Truck	Pickup	1981																
Honda	Truck	Pickup	1982																
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Honda	Truck	Pickup	1985																
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Honda	Truck	Pickup	1987																
Honda	Truck	Pickup	1988																
Honda	Truck	Pickup	1989																
Honda	Truck	Pickup	1990																
Honda	Truck	Pickup	1991																
Honda	Truck	Pickup	1992																
Honda	Truck	Pickup	1993																
Honda	Truck	Pickup	1994																
Honda	Truck	Pickup	1995																
Honda	Truck	Pickup	1996																
Honda	Truck	Pickup	1997																
Honda	Truck	Pickup	1998																
Honda	Truck	Pickup	1999																
Honda	Truck	Pickup	2000																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Honda	Truck	Pickup	2001																
Honda	Truck	Pickup	2002																
Honda	Truck	Pickup	2003																
Honda	Truck	Pickup	2004																
Honda	Truck	Pickup	2005																
Honda	Truck	Pickup	2006	21.4	14.6	19.9	17.2	4500		212	247	9.2	1.165	0.0549	48.1				100.0%
Honda	Truck	Pickup	2007	21.4	14.6	19.9	17.2	4500		212	247	9.2	1.165	0.0549	48.1				100.0%
Honda	Truck	Pickup	2008	21.4	14.6	19.9	17.2	4500		212	247	9.2	1.165	0.0549	48.1				100.0%
Honda	Truck	Pickup	2009	22.0	15.0	20.4	17.6	4500		212	250	9.1	1.179	0.0556	49.4				100.0%
Honda	Truck	Pickup	2010	22.0	15.0	20.4	17.6	4500		214	250	9.1	1.168	0.0556	49.4				100.0%
Honda	Truck	Pickup	2011	22.0	15.0	20.4	17.6	4500		214	250	9.1	1.168	0.0556	49.4				100.0%
Honda	Truck	Pickup	2012	22.6	15.4	20.8	18.1	5000		214	250	9.9	1.168	0.0500	56.5				100.0%
Honda	Car	All	1975	31.4	24.5	30.0	26.7	2000		83	54	15.9	0.653	0.0271	31.5			100.0%	
Honda	Car	All	1976	32.6	25.6	31.0	27.8	2021		84	56	15.6	0.671	0.0278	33.2			100.0%	
Honda	Car	All	1977	35.5	28.2	33.2	30.2	2085	79.6	88	62	14.8	0.716	0.0300	37.9	2889	3025	100.0%	
Honda	Car	All	1978	33.7	27.4	30.3	28.6	2126	83.3	90	63	14.8	0.701	0.0297	36.3	2848	3052	100.0%	
Honda	Car	All	1979	29.0	23.4	26.5	24.7	2308	83.4	97	64	15.5	0.666	0.0279	33.6	2427	2814	100.0%	
Honda	Car	All	1980	29.2	23.4	26.8	24.8	2330	88.9	100	68	15.1	0.685	0.0293	34.2	2635	3047	100.0%	
Honda	Car	All	1981	30.8	24.9	27.9	26.2	2343	88.0	100	71	14.6	0.716	0.0305	36.3	2752	3201	100.0%	
Honda	Car	All	1982	33.4	27.0	30.3	28.4	2354	92.2	100	71	14.6	0.715	0.0304	39.7	3123	3657	100.0%	
Honda	Car	All	1983	35.3	28.2	32.5	30.0	2380	91.8	101	74	14.5	0.728	0.0309	42.3	3277	3887	100.0%	
Honda	Car	All	1984	35.2	27.7	33.3	29.9	2380	90.4	104	84	13.0	0.809	0.0354	42.2	3194	3802	100.0%	
Honda	Car	All	1985	33.8	26.6	32.0	28.8	2432	89.5	104	84	13.2	0.813	0.0347	41.4	3040	3693	98.3%	1.7%
Honda	Car	All	1986	33.6	26.2	31.8	28.5	2565	93.4	107	90	13.6	0.828	0.0347	43.3	3144	4040	98.1%	1.9%
Honda	Car	All	1987	32.8	25.4	31.1	27.7	2633	94.2	109	93	13.6	0.840	0.0348	43.4	3111	4088	99.2%	0.8%
Honda	Car	All	1988	31.8	24.4	30.0	26.7	2770	97.3	115	105	12.6	0.912	0.0375	44.4	3144	4311	99.5%	0.5%
Honda	Car	All	1989	31.3	23.9	29.4	26.2	2800	97.2	112	110	12.1	0.986	0.0392	44.1	3087	4284	95.9%	4.1%
Honda	Car	All	1990	30.4	23.1	28.3	25.4	2884	99.8	119	121	11.5	1.021	0.0418	44.2	3078	4403	99.7%	0.3%
Honda	Car	All	1991	30.3	22.9	28.2	25.2	2913	100.2	122	130	11.1	1.056	0.0440	44.5	3083	4449	99.6%	
Honda	Car	All	1992	30.9	22.8	29.4	25.7	3015	101.0	125	135	11.0	1.087	0.0446	47.3	3217	4764	99.8%	
Honda	Car	All	1993	32.2	23.6	30.2	26.5	2977	97.5	119	125	11.5	1.061	0.0418	48.3	3199	4696	99.9%	
Honda	Car	All	1994	31.9	23.3	29.9	26.2	3065	98.7	121	134	11.2	1.111	0.0434	49.2	3195	4852	99.9%	
Honda	Car	All	1995	32.8	23.7	30.6	26.8	2995	97.5	117	130	11.2	1.126	0.0434	49.5	3251	4818	99.9%	
Honda	Car	All	1996	31.6	22.7	29.5	25.8	3057	102.2	125	135	11.0	1.093	0.0440	48.7	3296	4972	98.8%	
Honda	Car	All	1997	32.0	22.8	29.6	26.0	3027	101.3	123	133	11.1	1.099	0.0439	48.8	3301	4932	99.1%	
Honda	Car	All	1998	31.7	22.4	29.5	25.7	3188	104.7	129	145	10.9	1.133	0.0450	50.8	3367	5313	99.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Honda	Truck	Pickup	2001																
Honda	Truck	Pickup	2002																
Honda	Truck	Pickup	2003																
Honda	Truck	Pickup	2004																
Honda	Truck	Pickup	2005																
Honda	Truck	Pickup	2006		100.0%			100.0%					100.0%		100.0%				100.0%
Honda	Truck	Pickup	2007		100.0%			100.0%					100.0%		100.0%				100.0%
Honda	Truck	Pickup	2008		100.0%			100.0%					100.0%		100.0%				100.0%
Honda	Truck	Pickup	2009		100.0%			100.0%					100.0%		100.0%				100.0%
Honda	Truck	Pickup	2010		100.0%			100.0%					100.0%		100.0%				100.0%
Honda	Truck	Pickup	2011		100.0%			100.0%					100.0%		100.0%				100.0%
Honda	Truck	Pickup	2012		100.0%			100.0%					100.0%		100.0%				100.0%
Honda	Car	All	1975	87.8%	12.2%												100.0%		
Honda	Car	All	1976	88.9%													100.0%		
Honda	Car	All	1977	81.3%													100.0%		
Honda	Car	All	1978	82.0%	18.0%												100.0%		
Honda	Car	All	1979	74.8%	25.2%												100.0%		
Honda	Car	All	1980	58.0%	8.9%												100.0%		
Honda	Car	All	1981	73.6%													100.0%		
Honda	Car	All	1982	71.8%													100.0%		
Honda	Car	All	1983	64.5%	23.3%												100.0%		
Honda	Car	All	1984	64.5%	35.5%												100.0%		
Honda	Car	All	1985	62.9%	37.1%			8.2%									100.0%		
Honda	Car	All	1986	63.1%	36.9%			37.0%			30.1%	63.8%	6.0%				100.0%		
Honda	Car	All	1987	49.0%	51.0%			38.1%			2.2%	83.9%	13.9%				100.0%		
Honda	Car	All	1988	47.8%	52.2%			42.9%	22.5%		1.4%	51.6%	47.0%				100.0%		
Honda	Car	All	1989	46.3%	53.7%			48.0%	26.0%		1.2%	48.6%	50.2%				100.0%		
Honda	Car	All	1990	41.2%	58.8%			75.1%	24.3%		0.8%	0.6%	98.5%				100.0%		
Honda	Car	All	1991	38.6%	61.4%			74.3%	25.7%		1.0%		99.0%		0.4%		100.0%		
Honda	Car	All	1992	35.2%	64.8%			100.0%			2.5%		97.5%		3.8%		100.0%		
Honda	Car	All	1993	35.5%	64.5%			100.0%			0.4%		99.6%		14.4%		100.0%		
Honda	Car	All	1994	35.7%	64.3%			100.0%			1.6%		98.4%		36.2%		98.9%	1.1%	
Honda	Car	All	1995	35.4%	64.6%			100.0%			1.1%		98.9%		35.3%		100.0%		
Honda	Car	All	1996	27.2%	72.6%	0.1%		100.0%			0.1%		99.9%		28.4%		96.8%	3.2%	
Honda	Car	All	1997	26.4%	72.8%	0.8%		100.0%					100.0%		31.1%		97.3%	2.7%	
Honda	Car	All	1998	21.6%	77.8%	0.6%		100.0%					100.0%		64.2%		51.1%	48.9%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Honda	Car	All	1999	30.6	21.4	28.6	24.8	3241	106.0	135	153	10.6	1.143	0.0469	49.8	3283	5279	98.5%	
Honda	Car	All	2000	30.8	21.4	28.7	24.8	3212	105.2	134	154	10.6	1.157	0.0474	49.7	3277	5225	98.0%	
Honda	Car	All	2001	31.9	22.0	29.6	25.6	3207	105.5	134	154	10.5	1.152	0.0476	51.7	3441	5445	97.9%	
Honda	Car	All	2002	31.8	21.7	29.5	25.4	3230	106.1	136	157	10.4	1.158	0.0482	51.8	3441	5493	98.6%	
Honda	Car	All	2003	32.6	21.7	30.8	26.0	3290	106.4	141	169	10.0	1.191	0.0508	54.3	3545	5778	99.1%	
Honda	Car	All	2004	32.6	21.7	30.4	25.9	3304	106.3	140	171	10.0	1.208	0.0509	54.4	3536	5786	99.1%	
Honda	Car	All	2005	32.7	21.6	30.5	25.9	3315	106.4	141	173	9.9	1.211	0.0513	54.9	3561	5843	96.4%	2.5%
Honda	Car	All	2006	33.3	21.9	31.0	26.3	3343	105.7	139	177	9.7	1.266	0.0523	56.7	3610	5980	97.9%	1.5%
Honda	Car	All	2007	33.5	22.1	31.1	26.4	3307	107.5	136	170	9.9	1.249	0.0510	56.2	3682	6035	99.0%	0.5%
Honda	Car	All	2008	33.8	22.2	31.5	26.7	3349	110.5	138	175	9.8	1.264	0.0513	57.2	3802	6306	99.2%	0.5%
Honda	Car	All	2009	34.2	22.5	31.7	27.0	3319	110.8	135	172	9.9	1.270	0.0510	57.2	3841	6318	98.8%	1.2%
Honda	Car	All	2010	35.1	23.2	32.3	27.6	3321	110.5	135	175	9.7	1.291	0.0518	59.1	3959	6506	98.4%	1.6%
Honda	Car	All	2011	35.4	23.3	32.7	27.9	3359	111.5	137	173	9.8	1.258	0.0507	59.9	3975	6647	99.2%	0.8%
Honda	Car	All	2012	37.7	24.7	34.4	29.4	3309	110.4	135	170	9.8	1.263	0.0505	63.2	4239	6947	98.2%	1.8%
Honda	Truck	All	1975																
Honda	Truck	All	1976																
Honda	Truck	All	1977																
Honda	Truck	All	1978																
Honda	Truck	All	1979																
Honda	Truck	All	1980																
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Honda	Truck	All	1990																
Honda	Truck	All	1991																
Honda	Truck	All	1992																
Honda	Truck	All	1993																
Honda	Truck	All	1994	20.1	15.3	18.0	16.5	4000		193	175	11.0	0.907	0.0438	40.2				100.0%
Honda	Truck	All	1995	25.5	19.1	23.0	20.9	3500		132	140	11.9	1.061	0.0400	44.7			100.0%	
Honda	Truck	All	1996	22.7	16.6	21.0	18.6	4010		163	168	11.5	1.040	0.0418	46.2			49.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Honda	Car	All	1999	17.9%	81.8%	0.3%		100.0%					100.0%		70.5%		41.7%	58.3%	
Honda	Car	All	2000	17.2%	82.6%	0.2%		100.0%					100.0%		71.6%	0.6%	41.6%	58.4%	
Honda	Car	All	2001	15.9%	83.7%	0.3%		100.0%					100.0%		90.2%	0.4%	47.9%	52.1%	
Honda	Car	All	2002	15.8%	84.0%	0.2%		100.0%					100.0%		95.5%	0.2%	42.5%	57.5%	
Honda	Car	All	2003	13.3%	83.6%	3.0%		100.0%			3.6%		96.4%		99.7%	3.7%	38.9%	61.1%	
Honda	Car	All	2004	13.2%	84.6%	2.2%		100.0%			2.7%		97.3%		99.0%	2.7%	42.4%	57.6%	
Honda	Car	All	2005	11.4%	85.9%	2.7%		100.0%			3.1%		96.9%		100.0%	5.5%	41.1%	58.9%	
Honda	Car	All	2006	11.2%	85.1%	3.7%		100.0%			3.6%		96.4%		100.0%	4.2%	46.4%	53.6%	
Honda	Car	All	2007	10.6%	86.1%	3.3%		100.0%			3.3%		96.7%		100.0%	3.7%	43.3%	56.7%	
Honda	Car	All	2008	9.6%	87.2%	3.2%		100.0%			3.2%		96.8%		100.0%	3.2%	50.8%	15.3%	33.9%
Honda	Car	All	2009	6.4%	91.2%	2.3%		100.0%			2.3%		97.7%		100.0%	2.3%	53.6%	12.7%	33.7%
Honda	Car	All	2010	3.4%	90.3%	6.3%		100.0%			6.3%		93.7%		100.0%	6.3%	55.1%	14.6%	30.3%
Honda	Car	All	2011	4.2%	91.3%	4.5%		100.0%			2.6%		97.4%		100.0%	5.5%	45.7%	19.4%	34.9%
Honda	Car	All	2012	6.5%	86.5%	7.0%		100.0%			6.1%		93.9%		100.0%	7.5%	55.5%	14.9%	29.6%
Honda	Truck	All	1975																
Honda	Truck	All	1976																
Honda	Truck	All	1977																
Honda	Truck	All	1978																
Honda	Truck	All	1979																
Honda	Truck	All	1980																
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Honda	Truck	All	1990																
Honda	Truck	All	1991																
Honda	Truck	All	1992																
Honda	Truck	All	1993																
Honda	Truck	All	1994	65.5%	34.5%			100.0%					100.0%					100.0%	
Honda	Truck	All	1995		100.0%			100.0%					100.0%					100.0%	
Honda	Truck	All	1996	4.8%	95.2%			100.0%					100.0%					100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Honda	Truck	All	1997	25.1	18.7	22.1	20.3	3638		132	136	12.7	1.028	0.0371	45.8			19.9%	66.2%
Honda	Truck	All	1998	25.7	18.9	22.7	20.7	3592		135	143	12.2	1.056	0.0394	46.2			13.2%	86.8%
Honda	Truck	All	1999	25.3	18.1	23.0	20.5	3888		159	172	11.0	1.117	0.0440	49.1			33.0%	67.0%
Honda	Truck	All	2000	24.9	17.5	23.2	20.2	4102		174	181	11.0	1.071	0.0440	50.9			55.2%	44.8%
Honda	Truck	All	2001	24.6	17.2	22.8	19.9	4165		181	191	10.8	1.080	0.0455	51.0			47.3%	52.7%
Honda	Truck	All	2002	25.0	17.3	23.4	20.2	4148		188	212	9.9	1.124	0.0506	51.8			48.0%	52.0%
Honda	Truck	All	2003	24.6	16.9	22.7	19.7	4198		188	214	9.9	1.135	0.0505	51.5			35.2%	64.8%
Honda	Truck	All	2004	24.3	16.7	22.4	19.5	4192		188	215	9.9	1.136	0.0508	51.0			29.5%	70.5%
Honda	Truck	All	2005	24.7	16.7	22.8	19.7	4218		191	226	9.6	1.179	0.0531	52.3			33.9%	66.1%
Honda	Truck	All	2006	24.5	16.6	22.8	19.6	4273		195	223	9.7	1.139	0.0518	52.5			41.9%	58.1%
Honda	Truck	All	2007	24.5	16.6	22.8	19.6	4341		191	227	9.8	1.191	0.0520	53.5			42.7%	57.3%
Honda	Truck	All	2008	24.9	16.9	23.0	19.9	4310		187	223	9.9	1.194	0.0515	54.0			35.3%	64.7%
Honda	Truck	All	2009	25.4	17.2	23.4	20.3	4387		188	224	10.0	1.192	0.0507	56.0			32.4%	67.6%
Honda	Truck	All	2010	26.2	17.6	24.3	20.9	4410		190	230	9.8	1.214	0.0520	58.0			38.6%	61.4%
Honda	Truck	All	2011	26.4	17.8	24.4	21.1	4361		191	231	9.6	1.212	0.0526	58.0			31.7%	68.3%
Honda	Truck	All	2012	28.0	18.6	26.3	22.3	4287		193	235	9.3	1.226	0.0547	60.2			41.5%	58.5%
Honda	All	All	1975	31.4	24.5	30.0	26.7	2000		83	54	15.9	0.653	0.0271	31.5			100.0%	
Honda	All	All	1976	32.6	25.6	31.0	27.8	2021		84	56	15.6	0.671	0.0278	33.2			100.0%	
Honda	All	All	1977	35.5	28.2	33.2	30.2	2085	79.6	88	62	14.8	0.716	0.0300	37.9	2889	3025	100.0%	
Honda	All	All	1978	33.7	27.4	30.3	28.6	2126	83.3	90	63	14.8	0.701	0.0297	36.3	2848	3052	100.0%	
Honda	All	All	1979	29.0	23.4	26.5	24.7	2308	83.4	97	64	15.5	0.666	0.0279	33.6	2427	2814	100.0%	
Honda	All	All	1980	29.2	23.4	26.8	24.8	2330	88.9	100	68	15.1	0.685	0.0293	34.2	2635	3047	100.0%	
Honda	All	All	1981	30.8	24.9	27.9	26.2	2343	88.0	100	71	14.6	0.716	0.0305	36.3	2752	3201	100.0%	
Honda	All	All	1982	33.4	27.0	30.3	28.4	2354	92.2	100	71	14.6	0.715	0.0304	39.7	3123	3657	100.0%	
Honda	All	All	1983	35.3	28.2	32.5	30.0	2380	91.8	101	74	14.5	0.728	0.0309	42.3	3277	3887	100.0%	
Honda	All	All	1984	35.2	27.7	33.3	29.9	2380	90.4	104	84	13.0	0.809	0.0354	42.2	3194	3802	100.0%	
Honda	All	All	1985	33.8	26.6	32.0	28.8	2432	89.5	104	84	13.2	0.813	0.0347	41.4	3040	3693	98.3%	1.7%
Honda	All	All	1986	33.6	26.2	31.8	28.5	2565	93.4	107	90	13.6	0.828	0.0347	43.3	3144	4040	98.1%	1.9%
Honda	All	All	1987	32.8	25.4	31.1	27.7	2633	94.2	109	93	13.6	0.840	0.0348	43.4	3111	4088	99.2%	0.8%
Honda	All	All	1988	31.8	24.4	30.0	26.7	2770	97.3	115	105	12.6	0.912	0.0375	44.4	3144	4311	99.5%	0.5%
Honda	All	All	1989	31.3	23.9	29.4	26.2	2800	97.2	112	110	12.1	0.986	0.0392	44.1	3087	4284	95.9%	4.1%
Honda	All	All	1990	30.4	23.1	28.3	25.4	2884	99.8	119	121	11.5	1.021	0.0418	44.2	3078	4403	99.7%	0.3%
Honda	All	All	1991	30.3	22.9	28.2	25.2	2913	100.2	122	130	11.1	1.056	0.0440	44.5	3083	4449	99.6%	
Honda	All	All	1992	30.9	22.8	29.4	25.7	3015	101.0	125	135	11.0	1.087	0.0446	47.3	3217	4764	99.8%	
Honda	All	All	1993	32.2	23.6	30.2	26.5	2977	97.5	119	125	11.5	1.061	0.0418	48.3	3199	4696	99.9%	
Honda	All	All	1994	31.5	23.0	29.5	25.9	3084		123	134	11.2	1.107	0.0434	49.0			97.9%	2.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Honda	Truck	All	1997	1.5%	98.5%			100.0%					100.0%					100.0%	
Honda	Truck	All	1998	13.4%	86.6%			100.0%					100.0%					100.0%	
Honda	Truck	All	1999	9.2%	90.8%			100.0%					100.0%		33.0%			100.0%	
Honda	Truck	All	2000	5.3%	94.7%			100.0%					100.0%		55.2%			100.0%	
Honda	Truck	All	2001	3.7%	96.3%			100.0%					100.0%		63.0%			100.0%	
Honda	Truck	All	2002	3.0%	97.0%			100.0%					100.0%		98.9%			100.0%	
Honda	Truck	All	2003	3.0%	97.0%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	All	2004	3.1%	96.9%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	All	2005	2.1%	97.9%			100.0%					100.0%		100.0%			100.0%	
Honda	Truck	All	2006	1.5%	98.5%			100.0%					100.0%		100.0%			87.8%	12.2%
Honda	Truck	All	2007	0.6%	99.4%			100.0%					100.0%		100.0%			91.8%	8.2%
Honda	Truck	All	2008	0.4%	99.6%			100.0%					100.0%		100.0%			91.8%	8.2%
Honda	Truck	All	2009	0.1%	99.9%			100.0%					100.0%		100.0%			95.9%	4.1%
Honda	Truck	All	2010	0.0%	100.0%			100.0%					100.0%		100.0%			88.6%	11.4%
Honda	Truck	All	2011		100.0%			100.0%					100.0%		100.0%			94.9%	5.1%
Honda	Truck	All	2012		100.0%			100.0%					100.0%		100.0%			83.6%	16.4%
Honda	All	All	1975	87.8%	12.2%												100.0%		
Honda	All	All	1976	88.9%													100.0%		
Honda	All	All	1977	81.3%													100.0%		
Honda	All	All	1978	82.0%	18.0%												100.0%		
Honda	All	All	1979	74.8%	25.2%												100.0%		
Honda	All	All	1980	58.0%	8.9%												100.0%		
Honda	All	All	1981	73.6%													100.0%		
Honda	All	All	1982	71.8%													100.0%		
Honda	All	All	1983	64.5%	23.3%												100.0%		
Honda	All	All	1984	64.5%	35.5%												100.0%		
Honda	All	All	1985	62.9%	37.1%			8.2%									100.0%		
Honda	All	All	1986	63.1%	36.9%			37.0%			30.1%	63.8%	6.0%				100.0%		
Honda	All	All	1987	49.0%	51.0%			38.1%			2.2%	83.9%	13.9%				100.0%		
Honda	All	All	1988	47.8%	52.2%			42.9%	22.5%		1.4%	51.6%	47.0%				100.0%		
Honda	All	All	1989	46.3%	53.7%			48.0%	26.0%		1.2%	48.6%	50.2%				100.0%		
Honda	All	All	1990	41.2%	58.8%			75.1%	24.3%		0.8%	0.6%	98.5%				100.0%		
Honda	All	All	1991	38.6%	61.4%			74.3%	25.7%		1.0%		99.0%		0.4%		100.0%		
Honda	All	All	1992	35.2%	64.8%			100.0%			2.5%		97.5%		3.8%		100.0%		
Honda	All	All	1993	35.5%	64.5%			100.0%			0.4%		99.6%		14.4%		100.0%		
Honda	All	All	1994	36.3%	63.7%			100.0%			1.6%		98.4%		35.5%		96.9%	3.1%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Honda	All	All	1995	32.4	23.5	30.2	26.5	3016		118	131	11.2	1.124	0.0432	49.3			99.9%	
Honda	All	All	1996	31.0	22.3	28.9	25.3	3106		127	137	11.1	1.090	0.0439	48.6			96.2%	
Honda	All	All	1997	31.0	22.3	28.5	25.2	3097		124	134	11.3	1.091	0.0431	48.4			90.0%	7.6%
Honda	All	All	1998	30.9	22.0	28.6	25.0	3231		129	144	11.1	1.125	0.0444	50.3			89.7%	9.4%
Honda	All	All	1999	29.6	20.8	27.5	23.9	3345		139	156	10.7	1.139	0.0465	49.7			87.9%	10.8%
Honda	All	All	2000	29.4	20.5	27.5	23.8	3381		142	159	10.7	1.141	0.0468	49.9			89.8%	8.5%
Honda	All	All	2001	29.9	20.6	27.7	24.0	3428		145	162	10.6	1.135	0.0471	51.5			86.3%	12.1%
Honda	All	All	2002	29.8	20.4	27.7	23.9	3462		149	171	10.3	1.149	0.0488	51.8			85.8%	13.1%
Honda	All	All	2003	29.1	19.7	27.2	23.3	3626		159	186	10.0	1.170	0.0507	53.3			75.5%	24.0%
Honda	All	All	2004	28.9	19.5	26.9	23.1	3633		158	187	10.0	1.182	0.0508	53.1			73.3%	26.2%
Honda	All	All	2005	29.1	19.4	27.0	23.1	3659		160	193	9.8	1.199	0.0520	53.9			72.6%	26.8%
Honda	All	All	2006	28.9	19.3	26.9	23.0	3735		163	196	9.7	1.213	0.0521	54.9			74.3%	25.3%
Honda	All	All	2007	29.3	19.5	27.2	23.3	3713		158	193	9.9	1.226	0.0514	55.2			76.9%	22.8%
Honda	All	All	2008	30.1	20.0	27.9	23.9	3681		155	191	9.9	1.240	0.0514	56.1			77.1%	22.7%
Honda	All	All	2009	31.1	20.7	28.8	24.6	3626		150	187	9.9	1.248	0.0510	56.9			79.7%	20.3%
Honda	All	All	2010	31.5	21.0	29.1	24.9	3686		154	193	9.7	1.265	0.0518	58.8			78.4%	21.6%
Honda	All	All	2011	30.4	20.3	28.0	24.1	3849		164	201	9.7	1.236	0.0517	59.0			66.2%	33.8%
Honda	All	All	2012	33.5	22.1	31.0	26.4	3661		155	193	9.7	1.250	0.0520	62.1			77.8%	22.2%
Ford	Car	Car	1975	14.0	10.8	13.5	11.9	4183		307	140	14.4	0.466	0.0328	29.7				
Ford	Car	Car	1976	16.7	13.2	15.7	14.2	4222		304	130	15.3	0.439	0.0303	35.4				
Ford	Car	Car	1977	16.6	13.0	15.6	14.1	4346	109.0	322	143	14.1	0.455	0.0328	36.2	1833	3941		
Ford	Car	Car	1978	18.6	14.3	18.1	15.8	3891	109.0	282	131	13.8	0.488	0.0334	36.1	2090	3943	5.3%	
Ford	Car	Car	1979	19.2	14.9	18.5	16.3	3623	109.4	250	120	13.9	0.513	0.0332	34.6	2137	3799	3.5%	
Ford	Car	Car	1980	22.5	17.4	21.9	19.1	3178	104.9	206	106	13.8	0.546	0.0331	35.6	2366	3755	6.8%	
Ford	Car	Car	1981	23.0	17.8	22.2	19.6	3100	110.5	194	102	13.9	0.580	0.0330	35.7	2590	3950	21.8%	
Ford	Car	Car	1982	24.4	18.6	24.3	20.8	3056	104.2	181	97	14.5	0.586	0.0313	37.5	2583	3902	40.2%	
Ford	Car	Car	1983	23.6	18.0	23.5	20.1	3233	109.7	208	108	13.9	0.563	0.0332	38.2	2636	4202	26.8%	
Ford	Car	Car	1984	25.2	19.4	24.8	21.5	3194	109.0	199	106	13.9	0.577	0.0331	40.6	2823	4423	43.6%	
Ford	Car	Car	1985	25.9	19.9	25.5	22.1	3210	109.6	200	120	12.8	0.641	0.0368	41.8	2910	4579	42.0%	
Ford	Car	Car	1986	26.6	20.3	26.3	22.6	3222	108.6	192	118	12.9	0.653	0.0363	43.0	2936	4678	50.8%	
Ford	Car	Car	1987	26.6	19.9	26.7	22.6	3227	109.7	188	114	13.4	0.640	0.0349	43.0	2954	4720	60.1%	
Ford	Car	Car	1988	27.1	20.2	26.9	22.9	3246	110.4	191	125	12.6	0.696	0.0381	44.0	3046	4872	59.3%	
Ford	Car	Car	1989	27.1	20.1	26.9	22.8	3283	110.9	186	119	13.0	0.685	0.0360	44.5	3048	4956	64.1%	0.7%
Ford	Car	Car	1990	26.4	19.4	26.2	22.2	3398	112.4	196	125	12.9	0.676	0.0366	44.9	3005	5066	62.5%	
Ford	Car	Car	1991	27.1	19.9	26.8	22.7	3290	111.8	183	133	12.2	0.749	0.0397	44.8	3092	5034	69.6%	
Ford	Car	Car	1992	26.6	19.2	26.6	22.2	3444	115.6	203	147	11.8	0.734	0.0420	45.8	3100	5328	61.4%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Honda	All	All	1995	34.0%	66.0%			100.0%			1.1%		98.9%		33.9%		96.0%	4.0%	
Honda	All	All	1996	26.1%	73.8%	0.1%		100.0%			0.1%		99.9%		27.0%		91.9%	8.1%	
Honda	All	All	1997	23.6%	75.7%	0.7%		100.0%					100.0%		27.6%		86.1%	13.9%	
Honda	All	All	1998	20.7%	78.8%	0.5%		100.0%					100.0%		57.2%		45.5%	54.5%	
Honda	All	All	1999	16.5%	83.2%	0.2%		100.0%					100.0%		64.4%		35.0%	65.0%	
Honda	All	All	2000	14.9%	84.9%	0.2%		100.0%					100.0%		68.5%	0.5%	33.7%	66.3%	
Honda	All	All	2001	13.1%	86.6%	0.3%		100.0%					100.0%		84.0%	0.3%	36.9%	63.1%	
Honda	All	All	2002	12.5%	87.3%	0.2%		100.0%					100.0%		96.4%	0.2%	31.7%	68.3%	
Honda	All	All	2003	9.5%	88.6%	1.9%		100.0%			2.3%		97.7%		99.8%	2.3%	24.5%	75.5%	
Honda	All	All	2004	9.4%	89.2%	1.4%		100.0%			1.7%		98.3%		99.4%	1.7%	26.7%	73.3%	
Honda	All	All	2005	7.8%	90.5%	1.6%		100.0%			1.9%		98.1%		100.0%	3.4%	25.4%	74.6%	
Honda	All	All	2006	7.1%	90.8%	2.1%		100.0%			2.1%		97.9%		100.0%	2.4%	26.9%	68.0%	5.2%
Honda	All	All	2007	6.7%	91.4%	2.0%		100.0%			2.0%		98.0%		100.0%	2.2%	26.3%	70.5%	3.2%
Honda	All	All	2008	6.4%	91.5%	2.1%		100.0%			2.1%		97.9%		100.0%	2.1%	33.2%	41.7%	25.0%
Honda	All	All	2009	4.6%	93.7%	1.7%		100.0%			1.7%		98.3%		100.0%	1.7%	38.2%	36.6%	25.2%
Honda	All	All	2010	2.3%	93.6%	4.2%		100.0%			4.2%		95.8%		100.0%	4.2%	36.7%	39.4%	24.0%
Honda	All	All	2011	2.2%	95.5%	2.3%		100.0%			1.3%		98.7%		100.0%	2.8%	23.4%	56.3%	20.3%
Honda	All	All	2012	4.2%	91.3%	4.5%		100.0%			3.9%		96.1%		100.0%	4.8%	35.5%	39.6%	24.9%
Ford	Car	Car	1975	13.9%													58.8%	24.0%	17.2%
Ford	Car	Car	1976	11.2%													60.3%	21.8%	17.9%
Ford	Car	Car	1977	6.5%													57.7%	21.7%	20.6%
Ford	Car	Car	1978	13.4%													32.5%	49.3%	18.2%
Ford	Car	Car	1979	16.5%													40.9%	39.2%	19.9%
Ford	Car	Car	1980	27.6%	15.3%				1.4%								49.9%	35.0%	15.1%
Ford	Car	Car	1981	24.0%	24.5%				6.0%								40.9%	40.4%	18.6%
Ford	Car	Car	1982	32.1%	43.3%				5.0%								53.2%	28.2%	18.6%
Ford	Car	Car	1983	21.7%	58.7%			2.7%	28.0%								55.2%	23.7%	21.1%
Ford	Car	Car	1984	21.2%	50.3%			20.2%	29.8%	1.5%							66.9%	15.4%	17.7%
Ford	Car	Car	1985	21.8%	48.8%			2.6%	68.5%	0.5%							64.7%	14.6%	20.7%
Ford	Car	Car	1986	24.2%	48.2%			37.8%	35.8%	0.3%	100.0%						66.2%	18.6%	15.2%
Ford	Car	Car	1987	22.4%	48.0%			49.2%	50.6%	0.2%	100.0%						61.8%	22.2%	16.0%
Ford	Car	Car	1988	21.9%	51.4%			75.7%	19.7%		100.0%						61.2%	19.2%	19.6%
Ford	Car	Car	1989	20.6%	53.8%			85.0%	12.8%		90.0%	9.3%	0.7%				53.8%	28.1%	18.0%
Ford	Car	Car	1990	13.6%	60.5%			90.1%	9.9%		94.0%	4.6%	1.5%				47.5%	32.1%	20.4%
Ford	Car	Car	1991	16.2%	67.8%			100.0%			89.7%	3.3%	7.0%				53.8%	27.7%	18.4%
Ford	Car	Car	1992	8.9%	72.4%			100.0%			94.7%	2.8%	2.5%				38.7%	33.6%	27.7%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Ford	Car	Car	1993	27.4	19.7	27.2	22.8	3342	112.6	190	139	12.1	0.748	0.0409	45.8	3122	5182	66.2%	
Ford	Car	Car	1994	26.7	19.0	26.8	22.3	3452	113.5	203	146	11.8	0.736	0.0417	46.2	3082	5266	60.7%	
Ford	Car	Car	1995	27.3	19.1	27.6	22.7	3412	112.1	195	151	11.5	0.798	0.0434	46.8	3119	5249	64.2%	
Ford	Car	Car	1996	26.2	18.3	26.3	21.7	3494	113.8	198	159	11.2	0.823	0.0448	45.8	3006	5213	63.2%	
Ford	Car	Car	1997	26.7	18.5	26.7	22.1	3440	113.7	196	157	11.1	0.817	0.0447	46.0	3070	5231	64.4%	
Ford	Car	Car	1998	27.4	18.8	27.2	22.5	3353	109.5	184	154	11.0	0.863	0.0452	46.0	3024	5035	72.4%	
Ford	Car	Car	1999	27.2	18.6	27.0	22.3	3410	111.4	187	164	10.5	0.901	0.0475	46.5	3051	5176	73.0%	
Ford	Car	Car	2000	27.1	18.6	26.4	22.1	3443	112.7	191	175	10.3	0.922	0.0499	46.8	3086	5279	65.2%	
Ford	Car	Car	2001	26.7	18.1	26.1	21.8	3467	113.7	194	168	10.5	0.885	0.0479	46.6	3075	5292	66.2%	
Ford	Car	Car	2002	27.0	18.4	25.9	21.9	3465	112.1	189	170	10.4	0.917	0.0486	46.9	3074	5273	69.0%	
Ford	Car	Car	2003	26.6	18.0	25.4	21.5	3616	115.3	201	184	10.2	0.928	0.0502	48.1	3103	5570	61.0%	
Ford	Car	Car	2004	25.7	17.1	24.7	20.7	3720	115.0	216	193	9.8	0.914	0.0519	47.7	2978	5516	48.3%	
Ford	Car	Car	2005	27.1	18.2	25.4	21.7	3652	116.2	196	186	10.0	0.976	0.0505	49.6	3200	5798	61.4%	3.6%
Ford	Car	Car	2006	26.8	17.8	25.5	21.5	3684	116.1	196	195	9.7	1.015	0.0527	49.6	3162	5778	65.6%	2.8%
Ford	Car	Car	2007	27.7	18.4	26.2	22.2	3589	114.2	187	189	9.8	1.034	0.0523	50.1	3243	5741	67.0%	5.0%
Ford	Car	Car	2008	28.1	18.5	26.9	22.5	3667	115.2	194	207	9.3	1.094	0.0557	52.0	3327	6006	65.6%	4.7%
Ford	Car	Car	2009	30.0	19.6	27.9	23.4	3557	113.8	176	194	9.6	1.119	0.0536	53.8	3499	6127	76.9%	4.8%
Ford	Car	Car	2010	31.1	20.6	29.1	24.7	3596	113.6	177	198	9.4	1.130	0.0545	57.4	3661	6534	79.2%	5.0%
Ford	Car	Car	2011	32.1	21.1	30.2	25.5	3602	112.1	176	207	9.3	1.179	0.0565	58.9	3721	6600	77.9%	4.8%
Ford	Car	Car	2012	36.1	23.7	33.4	28.4	3322	109.7	152	192	9.2	1.258	0.0568	61.0	4090	6703	87.2%	4.1%
Ford	Car	Wagon	1975	13.2	10.1	13.1	11.3	4518		326	141	14.8	0.466	0.0310	30.8				
Ford	Car	Wagon	1976	16.2	12.7	15.4	13.8	4611		315	142	14.8	0.477	0.0305	37.5				
Ford	Car	Wagon	1977	15.8	12.3	15.3	13.5	4514	145.5	326	151	13.9	0.493	0.0331	35.8	2349	5210		
Ford	Car	Wagon	1978	18.5	14.4	17.8	15.8	3838	141.2	261	123	14.5	0.493	0.0317	35.5	2637	5021		
Ford	Car	Wagon	1979	19.4	15.2	18.7	16.6	3604	140.7	233	112	14.7	0.506	0.0310	35.0	2741	4934		
Ford	Car	Wagon	1980	22.4	17.5	21.6	19.1	3255	136.2	205	103	14.4	0.526	0.0315	36.5	3061	4975		
Ford	Car	Wagon	1981	25.3	19.5	24.8	21.6	2906	127.8	148	95	13.9	0.732	0.0330	37.1	3302	4729	62.3%	
Ford	Car	Wagon	1982	25.2	19.4	24.7	21.5	3042	129.2	167	93	15.0	0.608	0.0300	38.4	3311	4966	53.7%	
Ford	Car	Wagon	1983	25.7	19.6	25.6	21.9	3081	130.8	172	95	14.9	0.601	0.0303	39.5	3380	5175	50.7%	
Ford	Car	Wagon	1984	26.1	20.1	25.7	22.3	3151	133.1	185	98	14.8	0.582	0.0307	41.4	3535	5504	46.3%	
Ford	Car	Wagon	1985	26.8	20.7	26.3	22.9	3104	132.1	182	109	13.4	0.655	0.0347	41.9	3605	5523	51.2%	
Ford	Car	Wagon	1986	27.4	20.7	27.4	23.3	3142	134.4	172	116	12.9	0.701	0.0364	43.1	3715	5807	78.7%	
Ford	Car	Wagon	1987	26.5	19.9	26.6	22.5	3273	138.0	172	121	12.9	0.722	0.0365	43.5	3680	5995	87.5%	
Ford	Car	Wagon	1988	26.6	19.7	26.8	22.5	3274	137.5	177	126	12.5	0.739	0.0380	43.6	3674	5995	88.5%	
Ford	Car	Wagon	1989	25.9	19.1	26.3	21.9	3360	140.8	189	128	12.6	0.706	0.0377	43.6	3661	6143	88.1%	
Ford	Car	Wagon	1990	25.4	18.4	25.9	21.4	3446	143.6	193	135	12.2	0.720	0.0390	43.8	3648	6280	91.6%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Ford	Car	Car	1993	14.3%	71.0%			100.0%			89.2%		10.8%				46.2%	37.8%	16.0%
Ford	Car	Car	1994	12.9%	75.6%			100.0%			91.2%		8.8%				41.5%	37.7%	20.8%
Ford	Car	Car	1995	13.9%	86.1%			100.0%			78.6%		21.4%		10.0%		46.9%	36.0%	17.1%
Ford	Car	Car	1996	10.0%	90.0%			100.0%			71.4%		28.6%		13.6%		37.0%	43.4%	19.6%
Ford	Car	Car	1997	8.7%	91.3%			100.0%			84.2%		15.8%		6.1%		38.2%	39.3%	22.5%
Ford	Car	Car	1998	11.2%	88.8%			100.0%			68.1%		31.9%		21.9%		54.3%	28.3%	17.4%
Ford	Car	Car	1999	9.8%	90.2%			100.0%			61.7%		38.3%		15.6%		46.4%	33.4%	20.3%
Ford	Car	Car	2000	11.2%	88.8%			100.0%			66.8%		33.2%		8.4%		45.1%	15.3%	39.6%
Ford	Car	Car	2001	9.1%	90.9%			100.0%			72.1%		27.9%		11.9%		41.8%	11.2%	47.0%
Ford	Car	Car	2002	9.2%	90.8%			100.0%			68.0%		32.0%		12.0%		45.0%	14.0%	41.1%
Ford	Car	Car	2003	9.9%	90.1%			100.0%			70.5%		29.5%		14.7%		39.6%	8.1%	52.4%
Ford	Car	Car	2004	8.9%	91.1%			100.0%			68.8%		31.2%		12.3%		35.9%	10.0%	54.1%
Ford	Car	Car	2005	9.2%	86.4%	4.4%		100.0%			48.5%	5.7%	45.7%		30.9%		42.5%	6.4%	51.2%
Ford	Car	Car	2006	9.1%	85.3%	5.6%		100.0%			40.5%	8.5%	51.0%		46.1%		33.4%	23.7%	42.8%
Ford	Car	Car	2007	11.0%	87.6%	1.4%		100.0%			33.0%	8.2%	58.8%		18.7%		43.7%	24.6%	31.7%
Ford	Car	Car	2008	9.5%	90.5%			100.0%			22.4%	6.0%	71.6%		7.2%		40.0%	29.1%	30.9%
Ford	Car	Car	2009	7.2%	92.8%			100.0%			14.0%	4.2%	81.8%		20.4%		45.2%	32.9%	21.9%
Ford	Car	Car	2010	5.0%	90.2%	4.8%	1.5%	98.5%			12.1%	3.2%	84.7%		62.7%	4.8%	34.9%	48.7%	16.4%
Ford	Car	Car	2011	6.7%	90.3%	3.1%	1.3%	98.7%			7.2%	3.8%	89.1%		77.0%	3.1%	38.0%	40.0%	22.0%
Ford	Car	Car	2012	7.3%	58.5%	2.4%	47.0%	53.0%				3.6%	96.4%		100.0%	2.4%	61.2%	34.0%	4.8%
Ford	Car	Wagon	1975	10.4%													29.0%	46.0%	25.0%
Ford	Car	Wagon	1976	8.7%													27.6%	47.5%	25.0%
Ford	Car	Wagon	1977	9.1%													27.2%	30.3%	42.5%
Ford	Car	Wagon	1978	11.1%													20.1%	51.4%	28.6%
Ford	Car	Wagon	1979	14.2%													23.8%	45.9%	30.4%
Ford	Car	Wagon	1980	23.1%	7.8%												26.7%	56.0%	17.3%
Ford	Car	Wagon	1981	39.2%	10.8%				0.1%								62.3%	26.9%	10.8%
Ford	Car	Wagon	1982	29.2%	46.3%												53.7%	30.7%	15.6%
Ford	Car	Wagon	1983	24.5%	37.6%			0.0%	17.6%								50.7%	31.8%	17.6%
Ford	Car	Wagon	1984	20.3%	53.7%			1.1%	46.4%	3.1%							46.3%	32.2%	21.5%
Ford	Car	Wagon	1985	20.6%	48.8%			0.6%	48.8%	1.4%							51.2%	26.4%	22.4%
Ford	Car	Wagon	1986	17.1%	55.7%			47.8%	9.0%	1.2%	100.0%						43.2%	43.4%	13.4%
Ford	Car	Wagon	1987	10.7%	65.6%			65.6%	34.4%		100.0%						32.7%	54.8%	12.5%
Ford	Car	Wagon	1988	7.2%	67.1%			54.4%	45.6%		100.0%						32.9%	55.6%	11.5%
Ford	Car	Wagon	1989	4.7%	76.5%			82.3%	17.7%		100.0%						23.5%	64.7%	11.9%
Ford	Car	Wagon	1990	1.9%	87.8%			87.8%	12.2%		100.0%						12.2%	79.4%	8.4%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Ford	Car	Wagon	1991	29.1	21.1	29.4	24.4	3183	136.5	162	119	12.9	0.741	0.0367	46.6	4015	6351	95.8%	
Ford	Car	Wagon	1992	28.8	20.5	29.6	24.1	3264	138.7	173	124	12.6	0.729	0.0375	47.2	4027	6535	100.0%	
Ford	Car	Wagon	1993	31.5	22.6	31.1	26.1	3002	128.2	144	105	13.4	0.750	0.0347	47.4	4085	6082	100.0%	
Ford	Car	Wagon	1994	31.7	22.4	31.8	26.3	3020	128.6	146	109	13.2	0.754	0.0356	48.2	4143	6190	100.0%	
Ford	Car	Wagon	1995	31.5	22.3	31.0	26.0	2981	127.8	140	104	13.5	0.752	0.0345	47.3	4087	6038	100.0%	
Ford	Car	Wagon	1996	27.9	19.6	27.5	23.0	3512	132.1	156	127	13.2	0.809	0.0357	48.9	3717	6483	100.0%	
Ford	Car	Wagon	1997	29.8	20.8	29.1	24.4	3266	129.6	146	124	12.4	0.850	0.0379	48.4	3905	6291	100.0%	
Ford	Car	Wagon	1998	29.2	20.2	28.6	23.9	3299	130.2	148	131	12.2	0.881	0.0394	48.0	3845	6264	100.0%	
Ford	Car	Wagon	1999	27.8	19.0	27.3	22.7	3526	135.2	162	147	11.7	0.903	0.0413	48.8	3788	6607	100.0%	
Ford	Car	Wagon	2000	28.4	19.6	27.0	23.0	3505	137.5	152	138	12.4	0.899	0.0387	49.8	3965	6843	100.0%	
Ford	Car	Wagon	2001	28.8	19.9	26.9	23.2	3414	136.5	146	146	11.4	1.011	0.0428	49.2	3995	6718	100.0%	
Ford	Car	Wagon	2002	28.9	20.0	26.4	23.1	3392	136.3	145	147	11.2	1.023	0.0432	48.8	3960	6654	100.0%	
Ford	Car	Wagon	2003	28.5	19.5	26.2	22.8	3415	136.5	147	150	11.1	1.027	0.0439	48.6	3929	6637	100.0%	
Ford	Car	Wagon	2004	27.8	18.9	25.4	22.1	3530	137.8	159	158	10.9	1.000	0.0448	48.9	3858	6744	100.0%	
Ford	Car	Wagon	2005	31.1	21.1	27.9	24.5	3196	134.1	133	142	10.9	1.084	0.0447	49.8	4214	6671	100.0%	
Ford	Car	Wagon	2006	33.8	22.8	29.9	26.4	3000	131.9	121	136	10.8	1.124	0.0453	50.7	4459	6689	100.0%	
Ford	Car	Wagon	2007	35.4	23.6	31.9	27.7	3000	131.9	121	136	10.8	1.124	0.0453	53.0	4664	6997	100.0%	
Ford	Car	Wagon	2008																
Ford	Car	Wagon	2009																
Ford	Car	Wagon	2010																
Ford	Car	Wagon	2011																
Ford	Car	Wagon	2012																
Ford	Car	Non-Truck SUV	1975																
Ford	Car	Non-Truck SUV	1976																
Ford	Car	Non-Truck SUV	1977																
Ford	Car	Non-Truck SUV	1978																
Ford	Car	Non-Truck SUV	1979																
Ford	Car	Non-Truck SUV	1980																
Ford	Car	Non-Truck SUV	1981																
Ford	Car	Non-Truck SUV	1982																
Ford	Car	Non-Truck SUV	1983																
Ford	Car	Non-Truck SUV	1984																
Ford	Car	Non-Truck SUV	1985																
Ford	Car	Non-Truck SUV	1986	23.5	18.0	23.0	20.0	3500	100.0	179	139	11.9	0.777	0.0397	41.1	2350	4112		
Ford	Car	Non-Truck SUV	1987	23.3	17.5	23.3	19.8	3500	100.0	179	139	11.9	0.777	0.0397	40.8	2331	4079		
Ford	Car	Non-Truck SUV	1988	23.0	17.5	22.1	19.4	3500	100.0	179	139	11.9	0.777	0.0397	40.3	2305	4033		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Ford	Car	Wagon	1991	8.5%	91.5%			100.0%			100.0%						45.2%	50.6%	4.2%
Ford	Car	Wagon	1992	9.2%	90.8%			100.0%			100.0%						31.5%	68.5%	
Ford	Car	Wagon	1993	20.2%	79.8%			100.0%			100.0%						66.4%	33.6%	
Ford	Car	Wagon	1994	18.8%	81.2%			100.0%			100.0%						63.9%	36.1%	
Ford	Car	Wagon	1995	16.4%	83.6%			100.0%			100.0%						69.2%	30.8%	
Ford	Car	Wagon	1996	8.5%	91.5%			100.0%			83.2%		16.8%				39.0%	61.0%	
Ford	Car	Wagon	1997	9.8%	90.2%			100.0%			92.7%		7.3%				58.8%	41.2%	
Ford	Car	Wagon	1998	6.2%	93.8%			100.0%			83.8%		16.2%				56.1%	43.9%	
Ford	Car	Wagon	1999	3.1%	96.9%			100.0%			71.6%		28.4%				32.6%	67.4%	
Ford	Car	Wagon	2000	0.0%	100.0%			100.0%			76.3%		23.7%					100.0%	
Ford	Car	Wagon	2001	2.5%	97.5%			100.0%			26.1%		73.9%		56.1%			100.0%	
Ford	Car	Wagon	2002	3.2%	96.8%			100.0%			25.8%		74.2%		57.6%			100.0%	
Ford	Car	Wagon	2003	3.0%	97.0%			100.0%			22.2%		77.8%		58.5%			100.0%	
Ford	Car	Wagon	2004	2.1%	97.9%			100.0%			30.0%		70.0%		47.0%			100.0%	
Ford	Car	Wagon	2005	4.6%	95.4%			100.0%			14.1%		85.9%		80.4%			100.0%	
Ford	Car	Wagon	2006	6.2%	93.8%			100.0%					100.0%					100.0%	
Ford	Car	Wagon	2007	6.0%	94.0%			100.0%					100.0%					100.0%	
Ford	Car	Wagon	2008																
Ford	Car	Wagon	2009																
Ford	Car	Wagon	2010																
Ford	Car	Wagon	2011																
Ford	Car	Wagon	2012																
Ford	Car	Non-Truck SUV	1975																
Ford	Car	Non-Truck SUV	1976																
Ford	Car	Non-Truck SUV	1977																
Ford	Car	Non-Truck SUV	1978																
Ford	Car	Non-Truck SUV	1979																
Ford	Car	Non-Truck SUV	1980																
Ford	Car	Non-Truck SUV	1981																
Ford	Car	Non-Truck SUV	1982																
Ford	Car	Non-Truck SUV	1983																
Ford	Car	Non-Truck SUV	1984																
Ford	Car	Non-Truck SUV	1985																
Ford	Car	Non-Truck SUV	1986	60.0%	40.0%			100.0%			100.0%						100.0%		
Ford	Car	Non-Truck SUV	1987	14.8%	85.2%			100.0%			100.0%						100.0%		
Ford	Car	Non-Truck SUV	1988	48.3%	51.7%			100.0%			100.0%						100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Ford	Car	Non-Truck SUV	1989	23.1	17.5	22.3	19.5	3500	100.0	179	139	11.9	0.777	0.0397	40.5	2316	4052		
Ford	Car	Non-Truck SUV	1990	23.2	17.4	22.3	19.5	3500	100.0	179	140	11.8	0.782	0.0400	40.6	2321	4061		
Ford	Car	Non-Truck SUV	1991	21.2	15.7	20.8	17.8	4000	125.0	231	170	11.3	0.736	0.0425	42.6	2660	5319		
Ford	Car	Non-Truck SUV	1992	21.2	15.6	20.5	17.7	4000	125.0	231	170	11.3	0.736	0.0425	42.4	2650	5300		
Ford	Car	Non-Truck SUV	1993	21.6	15.8	20.9	18.0	4000	125.0	231	170	11.3	0.736	0.0425	43.2	2699	5399		
Ford	Car	Non-Truck SUV	1994	21.1	15.4	20.3	17.5	4000	125.0	231	170	11.3	0.736	0.0425	42.2	2637	5274		
Ford	Car	Non-Truck SUV	1995	22.5	16.2	21.6	18.6	4000	125.0	244	160	11.8	0.656	0.0400	45.0	2813	5627		
Ford	Car	Non-Truck SUV	1996	22.3	16.0	21.7	18.5	4000	125.0	244	160	11.8	0.656	0.0400	44.7	2794	5588		
Ford	Car	Non-Truck SUV	1997	21.4	15.3	20.4	17.6	4000	125.0	244	160	11.9	0.656	0.0400	42.8	2674	5348		
Ford	Car	Non-Truck SUV	1998	21.2	15.2	20.0	17.4	4000	125.0	244	160	11.9	0.656	0.0400	42.5	2658	5316		
Ford	Car	Non-Truck SUV	1999	21.7	15.5	20.3	17.7	4000	125.7	244	160	11.9	0.656	0.0400	43.5	2734	5468		
Ford	Car	Non-Truck SUV	2000	21.0	14.8	19.8	17.2	4000	125.7	244	163	11.8	0.666	0.0406	42.1	2646	5292		
Ford	Car	Non-Truck SUV	2001	22.3	15.6	20.8	18.1	3826	129.9	219	202	9.5	0.942	0.0530	42.8	2911	5552	43.3%	
Ford	Car	Non-Truck SUV	2002	23.6	16.4	21.9	19.0	3647	125.0	198	200	9.3	1.027	0.0550	43.2	2974	5395	70.5%	
Ford	Car	Non-Truck SUV	2003	24.1	16.5	22.5	19.4	3613	125.0	194	200	9.2	1.044	0.0555	43.5	3026	5443	77.5%	
Ford	Car	Non-Truck SUV	2004	25.1	17.0	23.5	20.2	3500	125.0	180	198	9.0	1.098	0.0565	43.9	3138	5491	100.0%	
Ford	Car	Non-Truck SUV	2005	26.6	18.4	23.3	20.9	3517	125.0	166	181	9.8	1.092	0.0516	47.2	3349	5903	100.0%	
Ford	Car	Non-Truck SUV	2006	27.3	19.1	23.5	21.4	3545	125.0	162	176	9.8	1.084	0.0500	49.4	3464	6173	100.0%	
Ford	Car	Non-Truck SUV	2007	25.7	17.5	23.5	20.4	4064	138.6	189	215	9.9	1.114	0.0522	52.5	3579	7306	100.0%	
Ford	Car	Non-Truck SUV	2008	27.0	18.3	24.5	21.4	3905	134.2	180	207	9.5	1.140	0.0527	53.5	3668	7196	100.0%	
Ford	Car	Non-Truck SUV	2009	28.6	19.3	26.1	22.7	3791	131.2	176	213	9.0	1.200	0.0563	55.3	3815	7255	100.0%	
Ford	Car	Non-Truck SUV	2010	28.3	19.1	25.8	22.4	3919	135.2	184	224	9.0	1.209	0.0570	55.6	3844	7554	100.0%	
Ford	Car	Non-Truck SUV	2011	29.0	19.4	26.6	23.0	3927	136.5	188	239	8.6	1.257	0.0606	57.0	3961	7836	100.0%	
Ford	Car	Non-Truck SUV	2012	29.5	19.8	27.0	23.4	3831	133.9	176	225	8.9	1.282	0.0585	56.8	3972	7671	100.0%	
Ford	Truck	Van	1975	12.6	10.0	11.7	10.7	4135		334	148	13.7	0.434	0.0356	26.4				
Ford	Truck	Van	1976	13.4	10.6	12.7	11.4	4081		336	151	13.3	0.444	0.0370	28.0				
Ford	Truck	Van	1977	15.5	12.5	14.1	13.2	4110		343	158	12.6	0.459	0.0385	32.2				
Ford	Truck	Van	1978	15.0	12.2	13.6	12.8	4088		335	145	13.3	0.430	0.0354	31.2				
Ford	Truck	Van	1979	12.1	9.7	11.1	10.3	4665		336	163	13.5	0.480	0.0348	28.6				
Ford	Truck	Van	1980	16.2	13.0	14.9	13.8	4625		314	132	15.6	0.419	0.0286	37.9				
Ford	Truck	Van	1981	16.8	13.6	15.3	14.3	4509		310	128	15.6	0.413	0.0284	38.3				
Ford	Truck	Van	1982	16.2	13.0	14.7	13.8	4544		314	130	15.5	0.416	0.0288	37.1				
Ford	Truck	Van	1983	16.3	12.9	15.1	13.8	4516		313	134	15.1	0.429	0.0297	37.1				
Ford	Truck	Van	1984	16.6	13.1	15.6	14.1	4389		313	142	14.3	0.452	0.0324	36.8				
Ford	Truck	Van	1985	16.2	12.8	15.2	13.8	4464		311	145	14.3	0.464	0.0325	36.4				
Ford	Truck	Van	1986	19.7	15.3	18.9	16.7	4218		242	131	14.8	0.570	0.0311	41.8				

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Ford	Car	Non-Truck SUV	1989	56.4%	43.6%			100.0%			100.0%						100.0%		
Ford	Car	Non-Truck SUV	1990	55.6%	44.4%			100.0%			100.0%						100.0%		
Ford	Car	Non-Truck SUV	1991	21.4%	78.6%			100.0%			100.0%							100.0%	
Ford	Car	Non-Truck SUV	1992	16.5%	83.5%			100.0%			100.0%							100.0%	
Ford	Car	Non-Truck SUV	1993	14.0%	86.0%			100.0%			100.0%							100.0%	
Ford	Car	Non-Truck SUV	1994	15.6%	84.4%			100.0%			100.0%							100.0%	
Ford	Car	Non-Truck SUV	1995	41.2%	58.8%			100.0%			100.0%							100.0%	
Ford	Car	Non-Truck SUV	1996	29.8%	70.2%			100.0%			100.0%							100.0%	
Ford	Car	Non-Truck SUV	1997	25.4%	74.6%			100.0%			100.0%							100.0%	
Ford	Car	Non-Truck SUV	1998	8.9%	91.1%			100.0%			100.0%							100.0%	
Ford	Car	Non-Truck SUV	1999	6.4%	93.6%			100.0%			100.0%							97.1%	2.9%
Ford	Car	Non-Truck SUV	2000	3.5%	96.5%			100.0%			100.0%							97.4%	2.6%
Ford	Car	Non-Truck SUV	2001	5.5%	94.5%			100.0%			65.2%		34.8%					80.3%	19.7%
Ford	Car	Non-Truck SUV	2002	6.7%	93.3%			100.0%			29.5%		70.5%					100.0%	
Ford	Car	Non-Truck SUV	2003	4.3%	95.7%			100.0%			22.5%		77.5%					100.0%	
Ford	Car	Non-Truck SUV	2004	3.1%	96.9%			100.0%					100.0%					100.0%	
Ford	Car	Non-Truck SUV	2005	2.7%	93.8%	3.5%		100.0%					100.0%			3.5%		100.0%	
Ford	Car	Non-Truck SUV	2006	3.1%	87.9%	9.1%		100.0%					100.0%			9.1%		100.0%	
Ford	Car	Non-Truck SUV	2007	1.2%	94.4%	4.5%		100.0%					100.0%		17.4%	4.5%		45.8%	54.2%
Ford	Car	Non-Truck SUV	2008	1.1%	91.6%	7.3%		100.0%					100.0%			7.3%		63.2%	36.8%
Ford	Car	Non-Truck SUV	2009	0.8%	90.2%	9.0%		100.0%					100.0%		42.9%	9.0%		75.4%	24.6%
Ford	Car	Non-Truck SUV	2010	0.4%	96.8%	2.9%		100.0%					100.0%		100.0%	2.9%		59.6%	40.4%
Ford	Car	Non-Truck SUV	2011	0.3%	97.6%	2.0%		100.0%					100.0%		100.0%	2.0%		53.9%	46.1%
Ford	Car	Non-Truck SUV	2012	0.5%	97.8%	1.8%	7.0%	93.0%					100.0%		100.0%	1.8%		64.3%	35.7%
Ford	Truck	Van	1975	31.4%															100.0%
Ford	Truck	Van	1976	24.8%															100.0%
Ford	Truck	Van	1977	17.4%														0.0%	100.0%
Ford	Truck	Van	1978	16.5%															100.0%
Ford	Truck	Van	1979	13.9%															100.0%
Ford	Truck	Van	1980	23.7%															100.0%
Ford	Truck	Van	1981	24.3%	0.1%														100.0%
Ford	Truck	Van	1982	14.9%															100.0%
Ford	Truck	Van	1983	10.6%	36.0%														100.0%
Ford	Truck	Van	1984	11.8%	36.6%														100.0%
Ford	Truck	Van	1985	6.8%	50.4%														100.0%
Ford	Truck	Van	1986	8.4%	70.3%			55.0%										49.0%	51.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Ford	Truck	Van	1987	19.6	15.0	19.0	16.6	4247		236	149	13.3	0.671	0.0352	42.0				
Ford	Truck	Van	1988	19.4	14.8	18.8	16.4	4358		240	150	13.5	0.661	0.0346	42.5				
Ford	Truck	Van	1989	19.8	15.0	19.2	16.7	4274		229	149	13.3	0.685	0.0351	42.6				
Ford	Truck	Van	1990	19.3	14.5	18.7	16.3	4317		240	155	13.0	0.678	0.0362	42.0				7.9%
Ford	Truck	Van	1991	19.8	14.7	19.2	16.6	4283		236	156	12.9	0.689	0.0368	42.6				10.4%
Ford	Truck	Van	1992	19.7	14.6	18.9	16.4	4427		239	156	13.2	0.685	0.0357	43.6				7.3%
Ford	Truck	Van	1993	20.8	15.2	20.2	17.4	4280		220	158	12.8	0.740	0.0370	44.7			21.2%	5.5%
Ford	Truck	Van	1994	19.9	14.5	19.3	16.6	4437		237	161	12.9	0.705	0.0365	44.3			18.6%	5.1%
Ford	Truck	Van	1995	21.7	15.5	21.3	18.0	4182		239	149	13.1	0.640	0.0357	45.4			68.2%	14.4%
Ford	Truck	Van	1996	21.4	15.3	20.8	17.7	4214		235	178	11.6	0.772	0.0426	45.3			68.4%	1.9%
Ford	Truck	Van	1997	20.7	14.7	20.2	17.1	4408		229	177	12.0	0.781	0.0401	45.6			42.0%	3.5%
Ford	Truck	Van	1998	22.4	15.7	21.7	18.4	4205		227	186	11.0	0.823	0.0445	47.0			82.8%	
Ford	Truck	Van	1999	21.0	14.7	20.2	17.2	4578		238	198	11.2	0.837	0.0433	48.1			73.5%	
Ford	Truck	Van	2000	21.6	15.1	20.7	17.7	4543		236	200	11.0	0.849	0.0440	49.2			83.4%	
Ford	Truck	Van	2001	18.0	12.5	17.3	14.7	5337		296	241	10.8	0.816	0.0451	48.0			7.9%	32.8%
Ford	Truck	Van	2002	21.9	15.2	20.4	17.7	4570		238	202	11.0	0.851	0.0443	50.1			80.2%	
Ford	Truck	Van	2003	22.2	15.2	20.9	17.9	4613		241	205	10.9	0.852	0.0445	51.3			80.2%	
Ford	Truck	Van	2004	21.5	14.6	20.4	17.4	4620		253	203	11.1	0.803	0.0439	49.7			82.4%	
Ford	Truck	Van	2005	23.5	16.1	21.6	18.8	4464		223	204	10.7	0.937	0.0457	52.6			67.4%	20.6%
Ford	Truck	Van	2006	22.6	15.4	20.9	18.1	4530		232	208	10.7	0.924	0.0461	51.5			62.2%	13.7%
Ford	Truck	Van	2007	24.6	16.7	22.8	19.7	4283		205	201	10.5	1.005	0.0471	52.7			78.0%	22.0%
Ford	Truck	Van	2008	24.0	16.0	22.9	19.3	4500		213	265	8.7	1.244	0.0589	54.0			64.8%	35.2%
Ford	Truck	Van	2009	24.4	16.3	23.2	19.6	4500		213	265	8.7	1.244	0.0589	54.9			77.3%	22.7%
Ford	Truck	Van	2010	30.3	21.7	24.9	23.4	3500		122	140	11.9	1.148	0.0400	53.1			100.0%	
Ford	Truck	Van	2011	27.9	19.4	24.1	21.9	3768		141	150	11.9	1.110	0.0400	52.6			89.4%	
Ford	Truck	Van	2012	27.3	18.8	24.2	21.5	3874		152	153	12.1	1.064	0.0393	53.1			85.0%	
Ford	Truck	Truck SUV	1975	10.6	8.5	9.7	9.0	5000		302	130	16.7	0.430	0.0260	26.5				100.0%
Ford	Truck	Truck SUV	1976	13.7	11.0	12.5	11.6	5000		302	127	17.0	0.420	0.0253	34.5				100.0%
Ford	Truck	Truck SUV	1977	14.5	11.9	12.8	12.3	5000		302	141	15.7	0.467	0.0282	36.3				100.0%
Ford	Truck	Truck SUV	1978	13.2	10.6	12.2	11.2	5000		362	165	13.9	0.455	0.0330	33.1				100.0%
Ford	Truck	Truck SUV	1979	11.0	9.0	9.7	9.3	5000		351	177	13.1	0.504	0.0354	27.5				100.0%
Ford	Truck	Truck SUV	1980	14.0	11.3	12.6	11.8	4738		321	142	15.0	0.442	0.0300	33.2				100.0%
Ford	Truck	Truck SUV	1981	15.1	12.2	13.7	12.8	4686		321	137	15.2	0.428	0.0292	35.8				100.0%
Ford	Truck	Truck SUV	1982	14.8	12.0	13.2	12.5	4677		319	138	15.2	0.433	0.0295	34.9				100.0%
Ford	Truck	Truck SUV	1983	15.3	12.2	14.0	13.0	4673		318	137	15.2	0.431	0.0293	36.2				100.0%
Ford	Truck	Truck SUV	1984	18.3	14.6	17.0	15.6	3989		226	119	15.2	0.544	0.0296	36.8				100.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Ford	Truck	Van	1987	5.3%	74.1%			94.2%										55.5%	44.5%
Ford	Truck	Van	1988	4.4%	75.3%			100.0%										54.7%	45.3%
Ford	Truck	Van	1989	3.4%	79.2%			100.0%										63.0%	37.0%
Ford	Truck	Van	1990	1.5%	89.1%			100.0%										62.5%	37.5%
Ford	Truck	Van	1991	1.3%	91.3%			100.0%										67.7%	32.3%
Ford	Truck	Van	1992	1.1%	92.8%			100.0%										63.9%	36.1%
Ford	Truck	Van	1993	0.9%	94.6%			100.0%										77.0%	23.0%
Ford	Truck	Van	1994	0.6%	93.2%			100.0%			100.0%							64.1%	35.9%
Ford	Truck	Van	1995		96.7%			100.0%			100.0%							84.2%	15.8%
Ford	Truck	Van	1996		96.1%			100.0%			100.0%							82.5%	17.5%
Ford	Truck	Van	1997		100.0%			100.0%			100.0%							64.8%	35.2%
Ford	Truck	Van	1998		100.0%			100.0%			100.0%							82.8%	17.2%
Ford	Truck	Van	1999		100.0%			100.0%			100.0%							73.5%	26.5%
Ford	Truck	Van	2000		100.0%			100.0%			100.0%							83.4%	16.6%
Ford	Truck	Van	2001		100.0%			100.0%			100.0%							7.9%	92.1%
Ford	Truck	Van	2002		100.0%			100.0%			100.0%							80.2%	19.8%
Ford	Truck	Van	2003		100.0%			100.0%			100.0%							80.2%	19.8%
Ford	Truck	Van	2004		100.0%			100.0%			100.0%							82.4%	17.6%
Ford	Truck	Van	2005		57.1%	42.9%		100.0%			57.1%		42.9%					88.0%	12.0%
Ford	Truck	Van	2006		62.1%	37.9%		100.0%			62.1%		37.9%					75.9%	24.1%
Ford	Truck	Van	2007		34.6%	65.4%		100.0%			34.6%		65.4%					100.0%	
Ford	Truck	Van	2008		100.0%			100.0%					100.0%					100.0%	
Ford	Truck	Van	2009		100.0%			100.0%					100.0%		100.0%			100.0%	
Ford	Truck	Van	2010		100.0%			100.0%					100.0%					100.0%	
Ford	Truck	Van	2011		100.0%			100.0%			10.6%		89.4%					89.4%	10.6%
Ford	Truck	Van	2012		100.0%			100.0%			15.0%		85.0%					85.0%	15.0%
Ford	Truck	Truck SUV	1975	36.1%														100.0%	
Ford	Truck	Truck SUV	1976	33.6%														100.0%	
Ford	Truck	Truck SUV	1977	25.9%														100.0%	
Ford	Truck	Truck SUV	1978	21.1%														100.0%	
Ford	Truck	Truck SUV	1979	18.6%														100.0%	
Ford	Truck	Truck SUV	1980	28.2%														100.0%	
Ford	Truck	Truck SUV	1981	33.6%														100.0%	
Ford	Truck	Truck SUV	1982	28.8%														100.0%	
Ford	Truck	Truck SUV	1983	24.3%														100.0%	
Ford	Truck	Truck SUV	1984	22.6%													62.9%	37.1%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Ford	Truck	Truck SUV	1985	18.8	14.8	17.8	16.0	3978		226	127	14.6	0.568	0.0312	37.8				100.0%
Ford	Truck	Truck SUV	1986	19.8	15.4	19.0	16.8	3975		226	146	12.7	0.680	0.0372	39.4				100.0%
Ford	Truck	Truck SUV	1987	20.0	15.4	19.3	17.0	3972		221	145	12.7	0.690	0.0372	39.9				100.0%
Ford	Truck	Truck SUV	1988	19.6	15.0	18.8	16.6	4004		226	149	12.5	0.692	0.0377	39.2				100.0%
Ford	Truck	Truck SUV	1989	18.6	14.1	17.8	15.7	4494		248	153	13.6	0.651	0.0342	42.2				100.0%
Ford	Truck	Truck SUV	1990	18.0	13.4	17.7	15.2	4584		265	160	13.4	0.635	0.0350	41.7				100.0%
Ford	Truck	Truck SUV	1991	19.8	14.7	19.2	16.6	4491		240	172	12.3	0.723	0.0384	44.5				100.0%
Ford	Truck	Truck SUV	1992	19.6	14.6	18.8	16.4	4502		241	171	12.4	0.716	0.0380	44.2				100.0%
Ford	Truck	Truck SUV	1993	19.7	14.5	19.0	16.4	4514		244	173	12.3	0.718	0.0384	44.6				100.0%
Ford	Truck	Truck SUV	1994	19.7	14.5	18.9	16.4	4511		242	173	12.3	0.720	0.0384	44.6				100.0%
Ford	Truck	Truck SUV	1995	19.6	14.3	18.7	16.2	4557		256	171	12.5	0.675	0.0376	44.6				78.4%
Ford	Truck	Truck SUV	1996	19.6	14.0	19.1	16.2	4539		261	167	12.7	0.643	0.0369	44.6				70.4%
Ford	Truck	Truck SUV	1997	18.7	13.4	17.9	15.4	4762		280	191	12.0	0.680	0.0400	44.5				71.6%
Ford	Truck	Truck SUV	1998	18.2	13.0	17.5	15.0	4947		287	199	12.0	0.690	0.0401	45.0				78.4%
Ford	Truck	Truck SUV	1999	18.1	12.8	17.5	14.9	5041		288	218	11.2	0.762	0.0436	45.5				75.2%
Ford	Truck	Truck SUV	2000	18.4	12.9	17.7	15.1	5010		288	221	11.1	0.768	0.0441	46.1				71.4%
Ford	Truck	Truck SUV	2001	20.9	14.6	19.8	17.0	4429		238	210	10.4	0.893	0.0477	46.4			30.7%	54.7%
Ford	Truck	Truck SUV	2002	19.6	13.6	18.5	15.9	4552		252	220	10.2	0.881	0.0485	44.5				63.3%
Ford	Truck	Truck SUV	2003	19.0	13.1	18.1	15.5	4958		267	232	10.5	0.878	0.0473	46.9				60.4%
Ford	Truck	Truck SUV	2004	19.2	13.3	18.0	15.6	4916		266	230	10.5	0.873	0.0472	47.1			3.2%	59.8%
Ford	Truck	Truck SUV	2005	20.2	13.9	18.6	16.2	4760		247	233	10.2	0.958	0.0487	48.1				71.9%
Ford	Truck	Truck SUV	2006	20.2	13.8	18.8	16.3	4947		253	236	10.3	0.943	0.0476	50.1				67.7%
Ford	Truck	Truck SUV	2007	21.1	14.4	19.8	17.0	4736		236	236	10.0	1.016	0.0499	50.2				72.5%
Ford	Truck	Truck SUV	2008	22.5	15.3	20.7	18.0	4582		220	225	10.1	1.039	0.0491	51.8				79.7%
Ford	Truck	Truck SUV	2009	24.1	16.3	22.4	19.3	4468		206	238	9.5	1.170	0.0535	54.2			17.7%	73.6%
Ford	Truck	Truck SUV	2010	23.1	15.8	21.3	18.5	4717		224	244	9.7	1.116	0.0521	54.9			8.6%	75.9%
Ford	Truck	Truck SUV	2011	24.5	16.7	22.6	19.6	4725		221	269	9.0	1.239	0.0573	57.9			19.5%	73.7%
Ford	Truck	Truck SUV	2012	24.6	16.7	22.7	19.7	4781		224	271	9.0	1.251	0.0572	58.8			24.0%	65.7%
Ford	Truck	Pickup	1975	12.6	9.9	11.8	10.7	4181		325	138	14.4	0.437	0.0328	26.9				15.5%
Ford	Truck	Pickup	1976	13.9	11.2	12.5	11.8	4229		332	139	14.4	0.425	0.0326	30.2				20.4%
Ford	Truck	Pickup	1977	15.9	12.7	14.9	13.6	4189		335	155	13.0	0.470	0.0367	34.6				20.6%
Ford	Truck	Pickup	1978	15.9	12.7	14.7	13.5	4216		327	147	13.6	0.455	0.0346	34.6				26.1%
Ford	Truck	Pickup	1979	14.8	12.1	13.4	12.6	4144		318	156	12.9	0.491	0.0370	31.5				17.5%
Ford	Truck	Pickup	1980	18.0	14.4	16.6	15.3	4032		287	127	14.5	0.453	0.0312	37.0				19.5%
Ford	Truck	Pickup	1981	19.3	15.3	18.1	16.4	3890		281	121	14.5	0.445	0.0309	38.1				12.5%
Ford	Truck	Pickup	1982	18.3	14.6	16.8	15.5	3972		292	126	14.3	0.441	0.0318	36.9				17.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Ford	Truck	Truck SUV	1985	38.1%	38.4%			5.9%		0.0%							65.2%	34.8%	
Ford	Truck	Truck SUV	1986	30.2%	59.9%			87.7%									64.8%	35.2%	
Ford	Truck	Truck SUV	1987	37.4%	50.3%			92.9%									68.4%	31.6%	
Ford	Truck	Truck SUV	1988	33.7%	51.6%			100.0%									66.3%	33.7%	
Ford	Truck	Truck SUV	1989	28.0%	55.6%			100.0%									50.2%	49.8%	
Ford	Truck	Truck SUV	1990	21.6%	78.3%			100.0%									40.7%	59.3%	
Ford	Truck	Truck SUV	1991	15.4%	84.6%			100.0%										100.0%	
Ford	Truck	Truck SUV	1992	12.7%	87.3%			100.0%										100.0%	
Ford	Truck	Truck SUV	1993	10.8%	89.2%			100.0%										100.0%	
Ford	Truck	Truck SUV	1994	6.4%	93.6%			100.0%			100.0%							100.0%	
Ford	Truck	Truck SUV	1995	3.8%	96.2%			100.0%			100.0%							100.0%	
Ford	Truck	Truck SUV	1996	3.1%	96.9%			100.0%			100.0%							100.0%	
Ford	Truck	Truck SUV	1997	1.1%	98.9%			100.0%			100.0%							58.8%	41.2%
Ford	Truck	Truck SUV	1998	0.9%	99.1%			100.0%			100.0%							45.3%	54.7%
Ford	Truck	Truck SUV	1999	0.5%	99.5%			100.0%			95.4%		4.6%					42.7%	57.3%
Ford	Truck	Truck SUV	2000	0.4%	99.6%			100.0%			100.0%							42.9%	57.1%
Ford	Truck	Truck SUV	2001	1.0%	99.0%			100.0%			77.9%		22.1%					61.8%	38.2%
Ford	Truck	Truck SUV	2002	0.9%	99.1%			100.0%			87.2%		12.8%					17.7%	82.3%
Ford	Truck	Truck SUV	2003	0.0%	100.0%			100.0%			82.4%		17.6%					53.6%	46.4%
Ford	Truck	Truck SUV	2004		100.0%			100.0%			83.7%		16.3%					57.3%	42.7%
Ford	Truck	Truck SUV	2005	0.3%	98.3%	1.4%		100.0%			37.9%	25.0%	37.1%		25.0%	1.4%		64.2%	35.8%
Ford	Truck	Truck SUV	2006	0.2%	96.7%	3.1%		100.0%			40.5%	36.6%	22.9%		36.6%	3.1%		66.6%	33.4%
Ford	Truck	Truck SUV	2007	0.2%	97.3%	2.5%		100.0%			35.7%	20.8%	43.5%		15.2%	2.5%		19.5%	80.5%
Ford	Truck	Truck SUV	2008		95.7%	4.3%		100.0%			25.5%	14.8%	59.7%		10.2%	4.3%		39.6%	60.4%
Ford	Truck	Truck SUV	2009		95.3%	4.7%		100.0%			14.9%	5.6%	79.6%		43.9%	4.7%		66.4%	33.6%
Ford	Truck	Truck SUV	2010		98.0%	2.0%	2.5%	97.5%			23.5%	14.8%	61.6%		64.0%	2.0%		31.5%	68.5%
Ford	Truck	Truck SUV	2011		98.8%	1.2%	1.8%	98.2%				16.0%	84.0%		100.0%	1.2%		29.3%	70.7%
Ford	Truck	Truck SUV	2012		98.6%	1.4%	5.9%	94.1%				20.3%	79.7%		100.0%	1.4%		26.7%	73.3%
Ford	Truck	Pickup	1975	39.6%														11.6%	88.4%
Ford	Truck	Pickup	1976	42.8%														8.6%	91.4%
Ford	Truck	Pickup	1977	38.8%														9.2%	90.8%
Ford	Truck	Pickup	1978	39.1%														8.5%	91.5%
Ford	Truck	Pickup	1979	33.5%														10.0%	90.0%
Ford	Truck	Pickup	1980	54.8%														14.8%	85.2%
Ford	Truck	Pickup	1981	53.7%	10.3%													14.7%	85.3%
Ford	Truck	Pickup	1982	45.3%														6.9%	93.1%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Ford	Truck	Pickup	1983	20.3	16.1	19.0	17.3	3579		233	110	14.7	0.499	0.0304	37.2				19.7%
Ford	Truck	Pickup	1984	19.5	15.4	18.3	16.6	3768		251	119	14.6	0.492	0.0313	37.5				28.5%
Ford	Truck	Pickup	1985	20.3	16.1	19.0	17.3	3688		251	125	13.7	0.520	0.0337	38.2				25.8%
Ford	Truck	Pickup	1986	20.6	16.2	19.2	17.5	3793		249	130	13.6	0.552	0.0343	39.4				27.1%
Ford	Truck	Pickup	1987	20.9	16.4	19.5	17.7	3761		235	134	13.1	0.600	0.0358	39.8				29.5%
Ford	Truck	Pickup	1988	21.2	16.3	20.0	17.8	3791		233	134	13.3	0.602	0.0351	40.4				28.5%
Ford	Truck	Pickup	1989	20.4	15.7	19.2	17.2	4023		248	141	13.1	0.603	0.0352	41.4				30.9%
Ford	Truck	Pickup	1990	20.8	15.7	20.0	17.5	3994		245	142	13.0	0.614	0.0358	42.0				25.7%
Ford	Truck	Pickup	1991	21.0	15.7	20.1	17.6	3986		245	147	12.7	0.632	0.0370	42.3				24.2%
Ford	Truck	Pickup	1992	20.6	15.2	19.8	17.2	4178		251	145	13.3	0.609	0.0349	43.4				23.6%
Ford	Truck	Pickup	1993	21.2	15.5	20.4	17.6	4109		246	154	12.6	0.651	0.0375	43.8				25.1%
Ford	Truck	Pickup	1994	21.4	15.6	20.4	17.7	4097		240	153	12.7	0.661	0.0373	44.1				24.6%
Ford	Truck	Pickup	1995	20.3	14.7	19.5	16.8	4322		264	162	12.6	0.638	0.0373	44.2				30.3%
Ford	Truck	Pickup	1996	21.4	15.5	20.3	17.6	4065		230	147	12.9	0.675	0.0361	44.0				21.2%
Ford	Truck	Pickup	1997	21.2	15.3	19.9	17.4	4293		246	186	11.4	0.761	0.0428	45.7				29.9%
Ford	Truck	Pickup	1998	20.8	14.9	19.6	17.1	4277		244	184	11.3	0.761	0.0428	44.6				30.0%
Ford	Truck	Pickup	1999	20.3	14.5	19.1	16.6	4280		246	187	11.3	0.764	0.0433	43.5				33.9%
Ford	Truck	Pickup	2000	20.5	14.6	19.0	16.7	4309		247	190	11.2	0.773	0.0436	44.1				32.9%
Ford	Truck	Pickup	2001	19.8	14.0	18.2	16.0	4561		268	219	10.5	0.818	0.0476	45.0				37.0%
Ford	Truck	Pickup	2002	20.0	14.1	18.5	16.2	4519		262	217	10.5	0.830	0.0475	45.2				37.4%
Ford	Truck	Pickup	2003	20.0	14.1	18.3	16.1	4592		262	217	10.6	0.830	0.0469	46.0				35.9%
Ford	Truck	Pickup	2004	19.4	13.5	17.7	15.6	5140		281	245	10.5	0.868	0.0474	49.6				47.0%
Ford	Truck	Pickup	2005	19.1	13.2	17.5	15.4	5288		286	250	10.5	0.870	0.0471	50.4				46.7%
Ford	Truck	Pickup	2006	19.0	13.2	17.4	15.3	5369		292	256	10.5	0.875	0.0473	50.8				46.1%
Ford	Truck	Pickup	2007	19.4	13.4	17.9	15.6	5259		284	250	10.5	0.878	0.0471	51.0				43.1%
Ford	Truck	Pickup	2008	19.9	13.7	18.4	16.0	5175		277	244	10.6	0.882	0.0468	51.2				41.4%
Ford	Truck	Pickup	2009	21.0	14.5	19.2	16.8	5278		282	267	10.0	0.953	0.0502	55.2				47.7%
Ford	Truck	Pickup	2010	20.7	14.2	19.1	16.6	5486		294	280	9.9	0.954	0.0508	56.6				55.6%
Ford	Truck	Pickup	2011	21.7	14.9	19.9	17.4	5373		253	313	9.0	1.249	0.0573	58.4				57.7%
Ford	Truck	Pickup	2012	21.8	14.8	20.3	17.5	5757		264	350	8.5	1.362	0.0608	62.9				62.2%
Ford	Car	All	1975	13.9	10.7	13.5	11.8	4223		310	140	14.5	0.466	0.0326	29.8				
Ford	Car	All	1976	16.6	13.1	15.6	14.1	4268		306	132	15.3	0.443	0.0304	35.7				
Ford	Car	All	1977	16.5	13.0	15.6	14.0	4360	111.9	323	144	14.0	0.458	0.0328	36.1	1874	4043		
Ford	Car	All	1978	18.6	14.4	18.1	15.8	3885	112.5	279	130	13.9	0.488	0.0332	36.0	2150	4060	4.7%	
Ford	Car	All	1979	19.2	14.9	18.5	16.3	3621	112.5	248	119	13.9	0.512	0.0330	34.7	2198	3912	3.1%	
Ford	Car	All	1980	22.5	17.4	21.9	19.1	3186	108.3	206	105	13.9	0.543	0.0329	35.7	2440	3885	6.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Ford	Truck	Pickup	1983	53.0%	13.6%					1.3%								45.2%	54.8%
Ford	Truck	Pickup	1984	49.2%	15.8%					0.6%								37.6%	62.4%
Ford	Truck	Pickup	1985	53.2%	25.9%			25.2%		0.2%								37.1%	62.9%
Ford	Truck	Pickup	1986	49.3%	33.4%			60.9%		0.3%								38.0%	62.0%
Ford	Truck	Pickup	1987	59.8%	20.8%			88.0%		0.2%								47.7%	52.3%
Ford	Truck	Pickup	1988	61.3%	27.0%			90.9%										49.0%	51.0%
Ford	Truck	Pickup	1989	62.6%	28.4%			100.0%										39.4%	60.6%
Ford	Truck	Pickup	1990	45.4%	54.4%			100.0%										43.7%	56.3%
Ford	Truck	Pickup	1991	49.2%	50.8%			100.0%										45.6%	54.4%
Ford	Truck	Pickup	1992	45.6%	54.4%			100.0%										40.5%	59.5%
Ford	Truck	Pickup	1993	46.2%	53.8%			100.0%										46.3%	53.7%
Ford	Truck	Pickup	1994	46.5%	53.5%			100.0%			100.0%							50.9%	49.1%
Ford	Truck	Pickup	1995	42.0%	58.0%			100.0%			100.0%							31.5%	68.5%
Ford	Truck	Pickup	1996	49.1%	50.9%			100.0%			100.0%							54.6%	45.4%
Ford	Truck	Pickup	1997	29.1%	70.9%			100.0%			100.0%							30.7%	69.3%
Ford	Truck	Pickup	1998	27.7%	72.3%			100.0%			100.0%							37.4%	62.6%
Ford	Truck	Pickup	1999	21.0%	79.0%			100.0%			100.0%							41.0%	59.0%
Ford	Truck	Pickup	2000	21.9%	78.1%			100.0%			100.0%							43.4%	56.6%
Ford	Truck	Pickup	2001	12.2%	87.8%			100.0%			97.4%		2.6%					31.4%	68.6%
Ford	Truck	Pickup	2002	12.2%	87.8%			100.0%			93.5%		6.5%					30.9%	69.1%
Ford	Truck	Pickup	2003	12.1%	87.9%			100.0%			94.7%		5.3%					29.0%	71.0%
Ford	Truck	Pickup	2004	6.5%	93.5%			100.0%			54.7%	42.0%	3.3%		42.0%			20.2%	79.8%
Ford	Truck	Pickup	2005	4.5%	95.5%			100.0%			49.9%	47.0%	3.1%		47.0%			15.1%	84.9%
Ford	Truck	Pickup	2006	4.7%	95.3%			100.0%			43.0%	53.2%	3.8%		53.2%			13.7%	86.3%
Ford	Truck	Pickup	2007	4.8%	95.2%			100.0%			46.9%	47.5%	5.6%		61.4%			13.9%	86.1%
Ford	Truck	Pickup	2008	4.9%	95.1%			100.0%			48.6%	42.5%	9.0%		49.4%			17.6%	82.4%
Ford	Truck	Pickup	2009	3.0%	97.0%			100.0%			25.7%	62.3%	12.0%		54.7%			18.4%	81.6%
Ford	Truck	Pickup	2010	1.2%	98.8%			100.0%			19.3%	73.8%	6.9%		21.7%			6.9%	93.1%
Ford	Truck	Pickup	2011	2.6%	97.4%		23.7%	76.3%			14.9%		85.1%		79.2%				100.0%
Ford	Truck	Pickup	2012		100.0%		36.0%	64.0%			5.0%		95.0%		100.0%				100.0%
Ford	Car	All	1975	13.4%													55.2%	26.6%	18.1%
Ford	Car	All	1976	10.9%													56.4%	24.9%	18.8%
Ford	Car	All	1977	6.7%													55.3%	22.4%	22.3%
Ford	Car	All	1978	13.1%													31.1%	49.5%	19.3%
Ford	Car	All	1979	16.3%													39.2%	39.9%	20.9%
Ford	Car	All	1980	27.2%	14.5%				1.3%								47.4%	37.2%	15.3%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Ford	Car	All	1981	23.4	18.1	22.7	19.9	3065	113.7	185	101	13.9	0.608	0.0330	35.9	2721	4093	29.2%	
Ford	Car	All	1982	24.5	18.7	24.3	20.9	3054	107.7	179	96	14.6	0.589	0.0312	37.6	2685	4051	42.1%	
Ford	Car	All	1983	23.9	18.2	23.8	20.4	3212	112.6	203	106	14.1	0.568	0.0328	38.4	2739	4337	30.1%	
Ford	Car	All	1984	25.3	19.5	24.9	21.6	3189	111.5	198	106	14.0	0.578	0.0329	40.7	2896	4533	43.8%	
Ford	Car	All	1985	25.9	20.0	25.5	22.1	3201	111.6	198	119	12.9	0.642	0.0366	41.8	2973	4665	42.8%	
Ford	Car	All	1986	26.7	20.3	26.4	22.7	3213	111.3	190	118	12.9	0.658	0.0363	43.0	3017	4795	53.7%	
Ford	Car	All	1987	26.5	19.9	26.6	22.5	3235	112.7	186	115	13.3	0.651	0.0351	43.0	3028	4855	62.4%	
Ford	Car	All	1988	26.9	20.1	26.8	22.8	3253	112.5	189	126	12.6	0.701	0.0381	43.9	3086	4952	60.8%	
Ford	Car	All	1989	27.0	20.0	26.8	22.7	3291	113.0	186	120	13.0	0.688	0.0362	44.3	3084	5032	65.1%	0.7%
Ford	Car	All	1990	26.3	19.3	26.2	22.1	3403	114.5	196	126	12.9	0.681	0.0368	44.8	3043	5141	63.9%	
Ford	Car	All	1991	27.0	19.7	26.7	22.6	3314	114.6	184	134	12.3	0.748	0.0396	44.8	3152	5162	68.7%	
Ford	Car	All	1992	26.4	19.1	26.3	22.1	3461	117.9	202	147	11.8	0.734	0.0416	45.7	3147	5420	61.0%	
Ford	Car	All	1993	27.5	19.8	27.3	22.9	3327	115.1	186	136	12.2	0.747	0.0402	45.9	3229	5308	67.7%	
Ford	Car	All	1994	26.8	19.0	26.7	22.3	3440	115.7	199	144	11.9	0.738	0.0411	46.2	3165	5361	61.2%	
Ford	Car	All	1995	27.7	19.4	27.9	23.0	3370	113.8	190	147	11.7	0.792	0.0424	46.8	3217	5333	67.5%	
Ford	Car	All	1996	26.2	18.3	26.3	21.7	3502	115.1	196	157	11.3	0.820	0.0441	46.0	3049	5301	64.7%	
Ford	Car	All	1997	26.9	18.6	26.8	22.1	3434	115.1	192	154	11.3	0.818	0.0441	46.2	3133	5320	66.4%	
Ford	Car	All	1998	26.7	18.5	26.4	21.9	3414	111.9	188	153	11.1	0.844	0.0444	45.7	3023	5115	66.5%	
Ford	Car	All	1999	26.6	18.3	26.2	21.8	3468	113.7	191	163	10.7	0.879	0.0466	46.3	3056	5266	67.7%	
Ford	Car	All	2000	26.5	18.2	25.7	21.6	3492	114.9	194	173	10.5	0.900	0.0486	46.5	3087	5348	61.3%	
Ford	Car	All	2001	26.1	17.8	25.3	21.2	3513	116.7	195	172	10.4	0.897	0.0483	46.2	3090	5383	64.5%	
Ford	Car	All	2002	26.8	18.3	25.5	21.7	3476	114.3	188	172	10.3	0.931	0.0489	46.7	3107	5347	70.6%	
Ford	Car	All	2003	26.5	17.9	25.2	21.3	3608	116.9	198	184	10.1	0.941	0.0504	47.7	3129	5601	63.8%	
Ford	Car	All	2004	25.7	17.2	24.6	20.7	3700	116.4	212	193	9.8	0.928	0.0520	47.5	3015	5552	53.1%	
Ford	Car	All	2005	27.2	18.3	25.2	21.6	3625	117.7	191	184	10.0	0.992	0.0505	49.3	3243	5832	66.9%	3.1%
Ford	Car	All	2006	26.9	18.0	25.3	21.5	3663	117.1	192	193	9.8	1.023	0.0523	49.6	3205	5826	69.3%	2.5%
Ford	Car	All	2007	27.4	18.3	25.8	21.9	3656	118.1	187	193	9.8	1.047	0.0522	50.5	3307	5992	72.3%	4.2%
Ford	Car	All	2008	27.8	18.5	26.2	22.2	3731	120.4	190	207	9.3	1.107	0.0549	52.4	3419	6329	75.0%	3.4%
Ford	Car	All	2009	29.6	19.5	27.5	23.2	3615	118.1	176	199	9.5	1.139	0.0543	54.2	3578	6407	82.7%	3.6%
Ford	Car	All	2010	30.4	20.2	28.2	24.1	3674	118.8	179	204	9.3	1.149	0.0551	57.0	3705	6780	84.2%	3.8%
Ford	Car	All	2011	31.2	20.7	29.1	24.8	3690	118.7	179	216	9.1	1.200	0.0576	58.4	3786	6934	83.9%	3.5%
Ford	Car	All	2012	35.1	23.1	32.3	27.6	3389	112.9	155	196	9.1	1.261	0.0571	60.5	4074	6831	88.9%	3.5%
Ford	Truck	All	1975	12.5	9.9	11.8	10.7	4182		327	140	14.2	0.437	0.0334	26.8				13.0%
Ford	Truck	All	1976	13.8	11.1	12.6	11.7	4208		332	141	14.2	0.429	0.0335	29.8				17.0%
Ford	Truck	All	1977	15.8	12.6	14.6	13.4	4198		336	155	13.0	0.467	0.0368	34.1				18.7%
Ford	Truck	All	1978	15.5	12.4	14.3	13.2	4239		331	147	13.6	0.450	0.0346	33.8				25.5%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Ford	Car	All	1981	26.8%	22.0%				4.9%								44.9%	37.9%	17.2%
Ford	Car	All	1982	31.7%	43.7%				4.3%								53.3%	28.5%	18.2%
Ford	Car	All	1983	22.1%	55.8%			2.3%	26.6%								54.6%	24.8%	20.6%
Ford	Car	All	1984	21.1%	50.6%			18.2%	31.5%	1.7%							64.8%	17.1%	18.1%
Ford	Car	All	1985	21.7%	48.8%			2.4%	66.7%	0.6%							63.4%	15.7%	20.9%
Ford	Car	All	1986	23.4%	49.0%			38.8%	33.0%	0.4%	100.0%						63.8%	21.1%	15.0%
Ford	Car	All	1987	21.0%	50.4%			51.6%	48.2%	0.2%	100.0%						59.0%	25.6%	15.4%
Ford	Car	All	1988	21.1%	52.7%			74.3%	21.6%		100.0%						59.4%	21.9%	18.7%
Ford	Car	All	1989	19.9%	55.4%			85.0%	13.0%		90.9%	8.5%	0.7%				52.2%	30.5%	17.4%
Ford	Car	All	1990	13.2%	62.2%			90.1%	9.9%		94.4%	4.2%	1.4%				45.6%	35.1%	19.3%
Ford	Car	All	1991	15.7%	70.4%			100.0%			91.1%	2.9%	6.0%				50.6%	33.1%	16.3%
Ford	Car	All	1992	9.4%	74.5%			100.0%			95.4%	2.4%	2.1%				36.0%	40.0%	24.0%
Ford	Car	All	1993	15.0%	72.8%			100.0%			91.1%		8.9%				46.8%	40.0%	13.2%
Ford	Car	All	1994	13.6%	76.7%			100.0%			92.6%		7.4%				41.4%	41.1%	17.4%
Ford	Car	All	1995	14.3%	85.7%			100.0%			81.0%		19.0%		8.9%		48.9%	35.8%	15.2%
Ford	Car	All	1996	10.1%	89.9%			100.0%			72.5%		27.5%		12.6%		36.6%	45.3%	18.1%
Ford	Car	All	1997	9.0%	91.0%			100.0%			85.1%		14.9%		5.5%		39.4%	40.3%	20.3%
Ford	Car	All	1998	10.8%	89.2%			100.0%			71.9%		28.1%		18.8%		49.1%	35.9%	15.0%
Ford	Car	All	1999	9.2%	90.8%			100.0%			65.5%		34.5%		13.5%		41.6%	40.6%	17.8%
Ford	Car	All	2000	10.1%	89.9%			100.0%			70.0%		30.0%		7.4%		39.4%	25.8%	34.8%
Ford	Car	All	2001	8.3%	91.7%			100.0%			69.4%		30.6%		12.1%		34.6%	23.8%	41.5%
Ford	Car	All	2002	8.7%	91.3%			100.0%			62.9%		37.1%		13.2%		39.2%	25.0%	35.8%
Ford	Car	All	2003	9.2%	90.8%			100.0%			64.8%		35.2%		15.2%		34.9%	18.9%	46.2%
Ford	Car	All	2004	8.4%	91.6%			100.0%			63.3%		36.7%		12.6%		32.6%	18.4%	49.0%
Ford	Car	All	2005	8.3%	87.5%	4.2%		100.0%			42.0%	4.9%	53.1%		28.6%	0.4%	36.4%	19.6%	43.9%
Ford	Car	All	2006	8.5%	85.7%	5.8%		100.0%			36.2%	7.6%	56.2%		41.2%	0.9%	29.9%	31.8%	38.3%
Ford	Car	All	2007	9.5%	88.7%	1.9%		100.0%			27.6%	6.9%	65.5%		18.4%	0.7%	36.6%	28.5%	34.9%
Ford	Car	All	2008	7.2%	90.8%	2.0%		100.0%			16.3%	4.4%	79.3%		5.3%	2.0%	29.2%	38.3%	32.5%
Ford	Car	All	2009	5.6%	92.1%	2.2%		100.0%			10.5%	3.1%	86.4%		26.0%	2.2%	34.0%	43.4%	22.6%
Ford	Car	All	2010	3.9%	91.8%	4.3%	1.1%	98.9%			9.2%	2.4%	88.4%		71.7%	4.3%	26.5%	51.3%	22.2%
Ford	Car	All	2011	4.9%	92.3%	2.8%	0.9%	99.1%			5.2%	2.7%	92.0%		83.2%	2.8%	27.7%	43.8%	28.5%
Ford	Car	All	2012	6.4%	63.7%	2.3%	41.7%	58.3%				3.1%	96.9%		100.0%	2.3%	53.1%	38.0%	8.9%
Ford	Truck	All	1975	37.6%														10.1%	89.9%
Ford	Truck	All	1976	38.5%														8.1%	91.9%
Ford	Truck	All	1977	33.9%														10.0%	90.0%
Ford	Truck	All	1978	33.4%														12.6%	87.4%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Ford	Truck	All	1979	14.0	11.4	12.6	11.9	4283		323	158	13.0	0.490	0.0366	30.8				20.4%
Ford	Truck	All	1980	17.4	13.9	16.0	14.8	4172		294	129	14.7	0.447	0.0307	36.9				21.9%
Ford	Truck	All	1981	18.6	14.8	17.3	15.8	4023		287	123	14.7	0.440	0.0305	38.0				15.5%
Ford	Truck	All	1982	17.5	14.0	16.0	14.8	4151		299	128	14.6	0.435	0.0310	36.8				19.6%
Ford	Truck	All	1983	19.1	15.2	17.8	16.3	3809		253	116	14.8	0.483	0.0303	37.1				20.4%
Ford	Truck	All	1984	18.8	14.9	17.6	16.0	3909		258	123	14.6	0.493	0.0312	37.2				34.7%
Ford	Truck	All	1985	19.3	15.2	18.1	16.4	3863		257	129	13.9	0.518	0.0331	37.9				33.6%
Ford	Truck	All	1986	20.3	15.9	19.1	17.2	3923		244	132	13.8	0.575	0.0339	40.0				30.7%
Ford	Truck	All	1987	20.4	15.8	19.3	17.3	3931		234	140	13.1	0.633	0.0358	40.4				29.8%
Ford	Truck	All	1988	20.5	15.7	19.5	17.3	3954		233	139	13.2	0.628	0.0354	40.8				31.6%
Ford	Truck	All	1989	20.0	15.2	19.0	16.8	4160		242	145	13.2	0.635	0.0350	41.9				29.2%
Ford	Truck	All	1990	20.1	15.1	19.4	16.9	4137		246	147	13.1	0.634	0.0358	41.9				27.6%
Ford	Truck	All	1991	20.4	15.2	19.7	17.1	4181		242	156	12.6	0.668	0.0373	43.0				40.7%
Ford	Truck	All	1992	20.1	14.9	19.4	16.8	4304		246	153	13.1	0.649	0.0357	43.6				36.7%
Ford	Truck	All	1993	20.8	15.2	20.1	17.3	4232		238	159	12.6	0.690	0.0375	44.2			6.7%	31.7%
Ford	Truck	All	1994	20.7	15.2	19.9	17.2	4246		240	159	12.7	0.681	0.0373	44.2			3.7%	35.5%
Ford	Truck	All	1995	20.6	14.9	20.0	17.1	4312		253	159	12.8	0.645	0.0368	44.7			25.8%	33.0%
Ford	Truck	All	1996	20.8	15.0	20.1	17.2	4249		241	162	12.5	0.694	0.0382	44.5			19.8%	30.3%
Ford	Truck	All	1997	20.2	14.5	19.2	16.7	4461		255	186	11.7	0.737	0.0416	45.3			5.0%	40.5%
Ford	Truck	All	1998	20.2	14.3	19.3	16.6	4485		255	190	11.5	0.752	0.0423	45.3			19.7%	39.1%
Ford	Truck	All	1999	19.7	13.9	18.8	16.2	4578		258	199	11.2	0.777	0.0434	45.0			14.4%	40.3%
Ford	Truck	All	2000	19.9	14.1	18.8	16.3	4589		259	202	11.1	0.785	0.0438	45.7			15.7%	39.7%
Ford	Truck	All	2001	19.8	14.0	18.5	16.2	4628		262	219	10.5	0.842	0.0473	45.9			11.3%	42.3%
Ford	Truck	All	2002	20.0	14.0	18.7	16.2	4540		255	216	10.4	0.856	0.0476	45.4			9.1%	45.0%
Ford	Truck	All	2003	19.8	13.7	18.4	16.0	4752		262	222	10.6	0.853	0.0468	47.0			8.7%	42.5%
Ford	Truck	All	2004	19.5	13.5	18.0	15.7	5010		273	236	10.5	0.865	0.0470	48.6			7.7%	48.4%
Ford	Truck	All	2005	20.0	13.8	18.4	16.1	4993		264	238	10.4	0.910	0.0475	49.9			8.9%	52.1%
Ford	Truck	All	2006	19.8	13.6	18.3	15.9	5117		271	243	10.5	0.905	0.0473	50.7			7.8%	49.6%
Ford	Truck	All	2007	20.2	13.9	18.7	16.3	5028		263	242	10.4	0.931	0.0480	50.9			5.0%	51.2%
Ford	Truck	All	2008	21.0	14.4	19.5	16.9	4900		251	237	10.3	0.963	0.0483	51.6			3.2%	56.7%
Ford	Truck	All	2009	22.1	15.1	20.4	17.7	4955		252	256	9.8	1.040	0.0516	54.8			7.8%	57.5%
Ford	Truck	All	2010	21.8	15.0	20.0	17.5	5127		262	261	9.9	1.020	0.0508	55.9			7.4%	60.4%
Ford	Truck	All	2011	23.0	15.7	21.0	18.4	5060		236	289	9.1	1.240	0.0566	58.0			11.0%	61.8%
Ford	Truck	All	2012	23.3	15.8	21.5	18.6	5213		239	302	9.0	1.293	0.0576	60.5			16.6%	58.4%
Ford	All	All	1975	13.5	10.5	13.0	11.5	4212		314	140	14.4	0.459	0.0328	29.0				3.3%
Ford	All	All	1976	15.7	12.5	14.6	13.4	4251		313	134	15.0	0.439	0.0312	34.0				4.8%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Ford	Truck	All	1979	29.4%														14.6%	85.4%
Ford	Truck	All	1980	48.2%														18.2%	81.8%
Ford	Truck	All	1981	48.3%	8.3%													17.3%	82.7%
Ford	Truck	All	1982	37.4%														12.5%	87.5%
Ford	Truck	All	1983	43.7%	17.0%					1.0%								39.9%	60.1%
Ford	Truck	All	1984	38.6%	16.9%					0.4%							9.8%	31.1%	59.1%
Ford	Truck	All	1985	43.1%	32.0%			17.9%		0.1%							10.6%	30.6%	58.8%
Ford	Truck	All	1986	36.6%	46.2%			63.2%		0.2%							9.2%	40.3%	50.5%
Ford	Truck	All	1987	40.9%	40.3%			90.5%		0.1%							8.8%	47.9%	43.3%
Ford	Truck	All	1988	44.1%	41.8%			94.3%									9.1%	48.2%	42.7%
Ford	Truck	All	1989	39.4%	48.0%			100.0%									6.0%	48.2%	45.8%
Ford	Truck	All	1990	31.1%	66.2%			100.0%									3.7%	50.3%	46.0%
Ford	Truck	All	1991	30.0%	68.4%			100.0%										64.4%	35.6%
Ford	Truck	All	1992	28.6%	70.1%			100.0%										58.7%	41.3%
Ford	Truck	All	1993	25.8%	72.8%			100.0%										65.2%	34.8%
Ford	Truck	All	1994	29.5%	69.2%			100.0%			100.0%							63.2%	36.8%
Ford	Truck	All	1995	19.2%	79.5%			100.0%			100.0%							63.8%	36.2%
Ford	Truck	All	1996	21.2%	77.7%			100.0%			100.0%							76.2%	23.8%
Ford	Truck	All	1997	16.4%	83.6%			100.0%			100.0%							44.1%	55.9%
Ford	Truck	All	1998	12.1%	87.9%			100.0%			100.0%							50.8%	49.2%
Ford	Truck	All	1999	10.4%	89.6%			100.0%			98.6%		1.4%					47.9%	52.1%
Ford	Truck	All	2000	10.5%	89.5%			100.0%			100.0%							50.7%	49.3%
Ford	Truck	All	2001	6.8%	93.2%			100.0%			91.3%		8.7%					38.1%	61.9%
Ford	Truck	All	2002	5.6%	94.4%			100.0%			91.4%		8.6%					30.4%	69.6%
Ford	Truck	All	2003	5.6%	94.4%			100.0%			90.0%		10.0%					45.2%	54.8%
Ford	Truck	All	2004	3.4%	96.6%			100.0%			69.9%	21.9%	8.2%		21.9%			39.9%	60.1%
Ford	Truck	All	2005	2.4%	91.4%	6.2%		100.0%			46.6%	33.0%	20.3%		33.0%	0.5%		42.1%	57.9%
Ford	Truck	All	2006	2.5%	91.6%	5.8%		100.0%			44.5%	40.8%	14.7%		40.8%	1.1%		39.9%	60.1%
Ford	Truck	All	2007	3.0%	92.0%	5.0%		100.0%			42.5%	35.9%	21.6%		42.6%	0.8%		21.2%	78.8%
Ford	Truck	All	2008	2.7%	95.6%	1.7%		100.0%			36.8%	29.1%	34.1%		31.0%	1.7%		30.6%	69.4%
Ford	Truck	All	2009	1.8%	96.3%	1.8%		100.0%			21.2%	39.5%	39.2%		51.1%	1.8%		38.0%	62.0%
Ford	Truck	All	2010	0.7%	98.6%	0.7%	0.9%	99.1%			20.0%	49.6%	30.4%		35.8%	0.7%		19.7%	80.3%
Ford	Truck	All	2011	1.5%	98.0%	0.5%	14.3%	85.7%			8.9%	6.2%	84.8%		84.3%	0.5%		14.8%	85.2%
Ford	Truck	All	2012		99.5%	0.5%	21.0%	79.0%			3.8%	8.1%	88.1%		91.7%	0.5%		17.6%	82.4%
Ford	All	All	1975	19.7%													41.0%	22.4%	36.6%
Ford	All	All	1976	18.7%													40.5%	20.1%	39.4%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Ford	All	All	1977	16.3	12.9	15.3	13.9	4312		326	147	13.7	0.461	0.0340	35.6				5.5%
Ford	All	All	1978	17.5	13.7	16.8	14.9	3990		295	135	13.8	0.477	0.0336	35.4			3.3%	7.6%
Ford	All	All	1979	17.3	13.7	16.3	14.8	3812		270	131	13.7	0.506	0.0340	33.5			2.2%	5.9%
Ford	All	All	1980	20.8	16.3	19.8	17.7	3459		230	112	14.1	0.517	0.0323	36.0			4.4%	6.0%
Ford	All	All	1981	21.6	16.9	20.6	18.4	3371		218	108	14.2	0.554	0.0322	36.6			19.9%	5.0%
Ford	All	All	1982	22.1	17.2	21.3	18.8	3350		211	105	14.6	0.547	0.0311	37.4			30.8%	5.3%
Ford	All	All	1983	21.9	17.0	21.2	18.7	3428		221	110	14.3	0.537	0.0319	37.9			19.2%	7.4%
Ford	All	All	1984	22.8	17.7	22.0	19.4	3419		217	111	14.2	0.551	0.0324	39.6			29.9%	11.1%
Ford	All	All	1985	23.4	18.2	22.6	20.0	3406		216	122	13.2	0.603	0.0355	40.6			29.5%	10.4%
Ford	All	All	1986	23.9	18.4	23.2	20.3	3475		210	123	13.2	0.627	0.0354	41.9			33.9%	11.3%
Ford	All	All	1987	24.0	18.3	23.5	20.4	3476		203	124	13.2	0.645	0.0354	42.1			40.8%	10.3%
Ford	All	All	1988	24.4	18.4	23.8	20.6	3488		204	130	12.8	0.676	0.0372	42.9			40.3%	10.6%
Ford	All	All	1989	24.2	18.2	23.7	20.4	3571		204	128	13.1	0.671	0.0358	43.6			44.1%	9.8%
Ford	All	All	1990	23.7	17.6	23.2	19.9	3669		214	134	12.9	0.664	0.0365	43.7			40.7%	10.0%
Ford	All	All	1991	24.2	17.8	23.6	20.2	3626		205	142	12.4	0.719	0.0388	44.2			43.9%	14.7%
Ford	All	All	1992	23.5	17.2	23.1	19.7	3793		219	149	12.3	0.700	0.0393	44.9			36.9%	14.4%
Ford	All	All	1993	24.5	17.7	23.9	20.4	3678		206	145	12.4	0.725	0.0391	45.3			44.1%	12.3%
Ford	All	All	1994	23.7	17.1	23.2	19.7	3792		217	150	12.3	0.713	0.0394	45.3			36.0%	15.5%
Ford	All	All	1995	24.0	17.1	23.7	19.9	3791		218	152	12.2	0.727	0.0399	45.9			48.9%	14.7%
Ford	All	All	1996	23.3	16.5	22.8	19.2	3871		218	159	11.9	0.757	0.0412	45.3			42.5%	15.0%
Ford	All	All	1997	22.8	16.2	22.1	18.8	3992		226	172	11.5	0.774	0.0427	45.7			33.1%	22.0%
Ford	All	All	1998	22.8	16.0	22.1	18.7	3982		223	173	11.3	0.795	0.0433	45.5			41.7%	20.8%
Ford	All	All	1999	22.6	15.8	21.8	18.5	4034		225	181	11.0	0.827	0.0449	45.7			40.5%	20.5%
Ford	All	All	2000	22.8	15.9	21.8	18.6	4030		226	187	10.8	0.844	0.0463	46.2			38.9%	19.4%
Ford	All	All	2001	22.4	15.6	21.2	18.2	4102		231	197	10.5	0.868	0.0478	46.0			36.4%	22.3%
Ford	All	All	2002	22.3	15.5	21.0	18.1	4107		227	198	10.4	0.887	0.0481	46.0			34.1%	26.7%
Ford	All	All	2003	22.1	15.2	20.7	17.8	4284		236	206	10.4	0.889	0.0483	47.3			31.3%	25.1%
Ford	All	All	2004	21.1	14.5	19.7	17.0	4595		253	222	10.3	0.885	0.0486	48.2			22.1%	33.1%
Ford	All	All	2005	22.6	15.5	20.8	18.1	4391		232	214	10.3	0.946	0.0488	49.6			34.4%	30.6%
Ford	All	All	2006	22.5	15.3	20.9	18.0	4467		236	221	10.1	0.957	0.0495	50.2			35.3%	28.5%
Ford	All	All	2007	23.5	15.9	21.9	18.9	4295		223	216	10.1	0.993	0.0502	50.7			41.0%	26.1%
Ford	All	All	2008	24.1	16.3	22.5	19.3	4283		219	221	9.8	1.039	0.0518	52.0			41.1%	28.5%
Ford	All	All	2009	25.8	17.3	23.8	20.5	4200		209	224	9.6	1.096	0.0531	54.4			50.0%	27.1%
Ford	All	All	2010	25.6	17.3	23.6	20.4	4367		218	231	9.6	1.088	0.0530	56.4			47.6%	30.8%
Ford	All	All	2011	26.5	17.9	24.4	21.1	4375		208	253	9.1	1.220	0.0571	58.2			47.4%	32.6%
Ford	All	All	2012	29.3	19.6	27.0	23.2	4100		188	237	9.1	1.273	0.0573	60.5			60.7%	24.9%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Ford	All	All	1977	14.7%													39.0%	18.8%	42.2%
Ford	All	All	1978	19.1%													21.9%	38.6%	39.5%
Ford	All	All	1979	20.1%													27.9%	32.6%	39.5%
Ford	All	All	1980	33.0%	10.5%				0.9%								34.3%	32.0%	33.7%
Ford	All	All	1981	33.6%	17.6%				3.4%								30.5%	31.4%	38.1%
Ford	All	All	1982	33.2%	31.9%				3.2%								38.9%	24.2%	36.9%
Ford	All	All	1983	29.9%	41.8%			1.5%	17.0%	0.4%							34.9%	30.2%	34.9%
Ford	All	All	1984	26.7%	39.9%			12.4%	21.5%	1.3%							47.3%	21.5%	31.1%
Ford	All	All	1985	28.3%	43.6%			7.2%	46.0%	0.4%							47.0%	20.3%	32.7%
Ford	All	All	1986	28.3%	48.0%			47.8%	20.9%	0.3%	63.2%						43.7%	28.2%	28.1%
Ford	All	All	1987	27.9%	46.9%			65.1%	31.5%	0.2%	65.3%						41.6%	33.3%	25.1%
Ford	All	All	1988	28.8%	49.0%			81.0%	14.3%		66.4%						42.5%	30.7%	26.7%
Ford	All	All	1989	26.2%	53.0%			89.8%	8.8%		61.6%	5.7%	0.4%				37.3%	36.2%	26.5%
Ford	All	All	1990	19.7%	63.6%			93.7%	6.3%		60.2%	2.7%	0.9%				30.4%	40.6%	29.0%
Ford	All	All	1991	20.9%	69.7%			100.0%			58.3%	1.8%	3.9%				32.3%	44.4%	23.3%
Ford	All	All	1992	16.9%	72.8%			100.0%			57.8%	1.5%	1.3%				21.8%	47.4%	30.8%
Ford	All	All	1993	19.2%	72.8%			100.0%			55.8%		5.5%				28.7%	49.8%	21.6%
Ford	All	All	1994	20.6%	73.4%			100.0%			95.8%		4.2%				23.3%	50.8%	25.9%
Ford	All	All	1995	16.5%	83.0%			100.0%			89.5%		10.5%		4.9%		27.1%	48.3%	24.6%
Ford	All	All	1996	15.6%	83.9%			100.0%			86.1%		13.9%		6.3%		18.5%	60.6%	20.9%
Ford	All	All	1997	13.0%	87.0%			100.0%			93.2%		6.8%		2.5%		18.0%	42.3%	39.7%
Ford	All	All	1998	11.5%	88.5%			100.0%			86.8%		13.2%		8.8%		23.0%	43.8%	33.1%
Ford	All	All	1999	9.8%	90.2%			100.0%			82.4%		17.6%		6.6%		20.4%	44.3%	35.3%
Ford	All	All	2000	10.3%	89.7%			100.0%			84.7%		15.3%		3.8%		20.1%	38.0%	41.9%
Ford	All	All	2001	7.5%	92.5%			100.0%			81.0%		19.0%		5.7%		16.4%	31.4%	52.3%
Ford	All	All	2002	6.9%	93.1%			100.0%			79.8%		20.2%		5.4%		16.0%	28.2%	55.8%
Ford	All	All	2003	7.1%	92.9%			100.0%			79.7%		20.3%		6.2%		14.3%	34.4%	51.3%
Ford	All	All	2004	5.0%	95.0%			100.0%			67.8%	15.0%	17.2%		19.0%		10.3%	33.1%	56.6%
Ford	All	All	2005	5.0%	89.7%	5.3%		100.0%			44.6%	20.7%	34.7%		31.1%	0.4%	16.0%	32.2%	51.8%
Ford	All	All	2006	5.2%	89.0%	5.8%		100.0%			40.8%	25.9%	33.3%		41.0%	1.0%	13.4%	36.3%	50.3%
Ford	All	All	2007	6.4%	90.2%	3.3%		100.0%			34.6%	20.4%	45.1%		29.6%	0.7%	19.6%	25.1%	55.3%
Ford	All	All	2008	5.1%	93.1%	1.9%		100.0%			26.0%	16.1%	58.0%		17.4%	1.9%	15.4%	34.7%	49.9%
Ford	All	All	2009	4.0%	94.0%	2.1%		100.0%			15.2%	19.0%	65.8%		36.9%	2.1%	19.2%	41.1%	39.8%
Ford	All	All	2010	2.4%	95.0%	2.6%	1.0%	99.0%			14.3%	24.9%	60.7%		54.6%	2.6%	13.9%	36.2%	49.9%
Ford	All	All	2011	3.2%	95.2%	1.6%	7.6%	92.4%			7.1%	4.5%	88.4%		83.8%	1.6%	13.9%	29.3%	56.9%
Ford	All	All	2012	3.9%	77.6%	1.6%	33.6%	66.4%			1.5%	5.1%	93.4%		96.8%	1.6%	32.4%	30.1%	37.5%

2012 FE Trends Report

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Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Nissan	Car	Car	1975	25.2	19.4	25.0	21.5	2589		117	114	11.6	0.959	0.0427	33.4				
Nissan	Car	Car	1976	26.8	20.9	25.8	22.8	2547		112	108	11.8	0.950	0.0413	34.8				
Nissan	Car	Car	1977	27.2	21.5	25.5	23.1	2537	73.5	111	106	11.9	0.950	0.0409	35.4	2144	2623		
Nissan	Car	Car	1978	27.0	21.4	25.2	23.0	2510	73.7	110	105	11.9	0.940	0.0408	34.6	2105	2565		
Nissan	Car	Car	1979	26.6	20.9	25.3	22.7	2502	79.1	112	87	13.7	0.775	0.0339	33.7	2224	2682	17.6%	
Nissan	Car	Car	1980	31.1	24.7	28.9	26.4	2469	83.5	106	83	13.9	0.780	0.0331	38.7	2671	3242	22.9%	
Nissan	Car	Car	1981	30.4	24.2	28.1	25.8	2535	81.7	114	91	13.6	0.781	0.0350	38.9	2574	3189	20.9%	
Nissan	Car	Car	1982	30.5	24.2	28.6	26.0	2575	87.6	118	92	13.5	0.765	0.0350	40.0	2838	3536	44.9%	
Nissan	Car	Car	1983	32.5	25.4	31.2	27.7	2523	91.7	118	91	13.2	0.762	0.0354	41.6	3146	3840	69.3%	
Nissan	Car	Car	1984	31.6	24.5	30.6	26.9	2653	88.9	125	104	12.6	0.812	0.0380	42.5	2983	3792	41.8%	
Nissan	Car	Car	1985	29.4	22.9	28.3	25.1	2749	91.2	128	104	12.9	0.793	0.0367	40.8	2853	3716	73.1%	
Nissan	Car	Car	1986	30.2	23.2	29.5	25.7	2777	89.2	129	105	13.0	0.792	0.0365	42.2	2855	3762	70.1%	
Nissan	Car	Car	1987	29.4	22.4	28.6	24.9	2875	97.5	125	99	14.0	0.778	0.0334	42.4	2945	4138	90.9%	
Nissan	Car	Car	1988	30.7	23.5	29.2	25.8	2776	97.2	117	93	14.4	0.774	0.0325	42.9	3073	4168	91.0%	
Nissan	Car	Car	1989	30.2	22.8	28.9	25.3	2837	99.1	124	112	12.2	0.904	0.0391	42.9	3056	4262	84.7%	
Nissan	Car	Car	1990	28.3	21.1	27.5	23.8	3026	97.8	144	139	11.1	0.953	0.0447	43.0	2857	4218	74.9%	
Nissan	Car	Car	1991	29.0	21.3	28.3	24.2	3081	98.4	143	146	10.6	1.035	0.0467	45.0	2928	4432	81.4%	
Nissan	Car	Car	1992	29.9	21.8	29.0	24.9	3026	99.1	137	141	10.7	1.049	0.0461	45.7	3036	4527	87.2%	
Nissan	Car	Car	1993	29.1	21.1	28.3	24.2	3097	100.1	138	146	10.6	1.067	0.0466	45.3	2970	4536	85.8%	
Nissan	Car	Car	1994	29.8	21.5	28.9	24.7	3035	101.1	135	142	10.7	1.068	0.0461	45.5	3068	4594	90.7%	
Nissan	Car	Car	1995	29.2	20.9	28.2	24.1	3143	103.9	148	159	10.0	1.082	0.0500	46.1	3072	4795	89.0%	
Nissan	Car	Car	1996	30.2	21.4	29.0	24.8	3121	104.4	145	156	10.1	1.091	0.0494	47.4	3187	4943	96.0%	
Nissan	Car	Car	1997	29.6	20.8	28.6	24.2	3122	105.1	146	156	10.1	1.081	0.0494	46.4	3137	4869	94.8%	
Nissan	Car	Car	1998	30.2	21.0	29.0	24.6	3283	106.4	146	156	10.5	1.075	0.0471	49.6	3230	5278	97.6%	
Nissan	Car	Car	1999	29.6	20.5	28.3	24.1	3341	107.2	148	157	10.6	1.068	0.0467	49.5	3191	5309	98.2%	
Nissan	Car	Car	2000	28.0	19.3	26.8	22.7	3381	111.2	158	184	9.5	1.160	0.0542	47.3	3119	5256	99.1%	
Nissan	Car	Car	2001	28.3	19.5	26.7	22.8	3305	109.1	150	173	9.8	1.150	0.0519	46.8	3105	5104	99.5%	
Nissan	Car	Car	2002	28.9	19.9	26.8	23.2	3368	113.2	165	193	9.2	1.174	0.0569	49.1	3300	5546	98.2%	
Nissan	Car	Car	2003	27.9	19.0	25.9	22.3	3430	108.3	177	213	8.7	1.195	0.0616	48.2	3065	5238	74.7%	
Nissan	Car	Car	2004	28.2	19.0	26.3	22.5	3528	105.2	177	215	8.9	1.212	0.0600	50.1	3032	5301	72.4%	3.9%
Nissan	Car	Car	2005	29.4	19.7	26.9	23.3	3521	111.1	166	197	9.4	1.180	0.0553	51.8	3305	5779	85.6%	2.1%
Nissan	Car	Car	2006	29.1	19.6	26.6	23.0	3525	109.8	166	201	9.4	1.197	0.0560	51.5	3252	5681	79.1%	4.9%
Nissan	Car	Car	2007	31.6	21.3	28.5	24.9	3483	113.0	163	197	9.5	1.192	0.0555	55.7	3674	6315	81.1%	5.9%
Nissan	Car	Car	2008	32.2	21.6	29.0	25.3	3463	110.4	161	196	9.4	1.198	0.0556	56.2	3640	6226	82.5%	5.4%
Nissan	Car	Car	2009	33.1	22.3	29.8	26.0	3453	110.2	157	194	9.6	1.202	0.0548	57.5	3728	6357	86.6%	5.2%
Nissan	Car	Car	2010	33.6	22.5	30.5	26.4	3452	110.2	158	195	9.6	1.204	0.0552	58.3	3779	6439	88.6%	4.1%

2012 FE Trends Report

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Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Nissan	Car	Car	1975	79.3%				33.7%									100.0%		
Nissan	Car	Car	1976	74.5%				24.5%									100.0%		
Nissan	Car	Car	1977	72.0%				24.8%									100.0%		
Nissan	Car	Car	1978	71.8%				21.6%									100.0%		
Nissan	Car	Car	1979	75.3%				28.4%									100.0%		
Nissan	Car	Car	1980	73.1%				32.8%									100.0%		
Nissan	Car	Car	1981	68.0%	12.9%			40.3%		0.9%							100.0%		
Nissan	Car	Car	1982	57.7%	21.1%			37.6%		1.9%							100.0%		
Nissan	Car	Car	1983	61.6%	37.5%			31.9%		1.2%							100.0%		
Nissan	Car	Car	1984	60.1%	38.1%			58.2%		0.9%							100.0%		
Nissan	Car	Car	1985	53.0%	46.2%			52.4%		0.2%							100.0%		
Nissan	Car	Car	1986	55.2%	44.8%			50.2%		0.1%	100.0%						100.0%		
Nissan	Car	Car	1987	46.2%	53.8%			32.8%	26.9%		97.6%		2.4%				100.0%		
Nissan	Car	Car	1988	49.8%	50.2%			34.3%	65.1%		96.1%		3.9%				100.0%		
Nissan	Car	Car	1989	44.2%	55.8%			43.0%	57.0%		34.5%	65.2%	0.3%				79.1%	20.9%	
Nissan	Car	Car	1990	40.8%	59.2%			65.4%	34.6%		25.1%	29.7%	45.3%		2.5%		74.1%	25.9%	
Nissan	Car	Car	1991	34.1%	65.9%			99.3%	0.7%		24.9%	16.6%	58.6%		37.1%		72.8%	27.2%	
Nissan	Car	Car	1992	33.6%	66.4%			99.8%	0.2%		15.0%	16.0%	69.0%		53.0%		74.7%	25.3%	
Nissan	Car	Car	1993	24.3%	75.7%			100.0%			14.1%		85.9%		40.2%		80.8%	19.2%	
Nissan	Car	Car	1994	20.8%	79.2%			100.0%			11.7%		88.3%		50.6%		83.2%	16.8%	
Nissan	Car	Car	1995	21.5%	78.5%			100.0%					100.0%		54.9%		68.7%	31.3%	
Nissan	Car	Car	1996	26.8%	73.2%			100.0%					100.0%		73.3%		59.8%	40.2%	
Nissan	Car	Car	1997	12.6%	87.4%			100.0%					100.0%		64.2%		67.0%	33.0%	
Nissan	Car	Car	1998	13.3%	86.7%			100.0%					100.0%		59.2%		66.5%	33.5%	
Nissan	Car	Car	1999	9.8%	90.2%			100.0%					100.0%		50.1%		68.5%	31.5%	
Nissan	Car	Car	2000	9.3%	90.7%			100.0%					100.0%		62.0%		51.2%	48.8%	
Nissan	Car	Car	2001	7.8%	92.2%			100.0%					100.0%		57.9%		63.6%	36.4%	
Nissan	Car	Car	2002	10.4%	89.6%			100.0%					100.0%		97.1%		28.5%	71.5%	
Nissan	Car	Car	2003	11.6%	88.4%			100.0%					100.0%		100.0%		39.5%	60.5%	
Nissan	Car	Car	2004	10.9%	89.1%			100.0%					100.0%		100.0%		53.2%	46.8%	
Nissan	Car	Car	2005	6.9%	93.1%			100.0%					100.0%		100.0%		32.0%	68.0%	
Nissan	Car	Car	2006	6.3%	93.7%			100.0%					100.0%		100.0%		36.2%	57.3%	6.5%
Nissan	Car	Car	2007	5.9%	24.5%	69.7%		100.0%					100.0%		100.0%	1.3%	4.6%	89.8%	5.5%
Nissan	Car	Car	2008	4.9%	23.0%	72.1%		100.0%					100.0%		100.0%	1.2%	14.6%	82.9%	2.5%
Nissan	Car	Car	2009	4.0%	26.4%	69.6%		100.0%					100.0%		100.0%	2.0%	9.9%	89.0%	1.2%
Nissan	Car	Car	2010	2.5%	23.0%	74.2%		100.0%					100.0%		100.0%		9.2%	90.0%	0.8%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Nissan	Car	Car	2011	33.7	22.5	30.5	26.4	3451	109.8	157	193	9.6	1.200	0.0546	58.3	3778	6421	85.2%	6.9%
Nissan	Car	Car	2012	34.6	23.1	31.2	27.1	3390	108.9	152	189	9.8	1.214	0.0541	59.0	3889	6448	81.3%	6.6%
Nissan	Car	Wagon	1975	20.9	16.7	19.3	17.8	3000		119	109	12.7	0.916	0.0363	31.5				
Nissan	Car	Wagon	1976	27.4	21.7	25.8	23.4	2693		109	101	12.5	0.922	0.0373	37.0				
Nissan	Car	Wagon	1977	27.1	21.4	25.3	23.0	2646	105.5	110	104	12.1	0.937	0.0388	36.2	2924	3812		
Nissan	Car	Wagon	1978	25.5	20.4	23.5	21.7	2668	107.6	115	110	11.8	0.944	0.0406	34.6	2825	3720		
Nissan	Car	Wagon	1979	27.9	22.3	25.8	23.7	2457	102.0	96	73	15.0	0.759	0.0295	34.3	2865	3501		
Nissan	Car	Wagon	1980	32.2	26.0	29.2	27.3	2415	102.6	98	74	14.6	0.762	0.0306	39.0	3317	4015		
Nissan	Car	Wagon	1981	31.4	25.3	28.6	26.7	2497	103.4	105	77	14.7	0.735	0.0307	39.5	3289	4085		
Nissan	Car	Wagon	1982	32.0	25.5	29.7	27.2	2511	106.2	105	76	15.0	0.729	0.0301	40.6	3461	4315	39.1%	
Nissan	Car	Wagon	1983	34.6	27.1	33.1	29.5	2466	108.2	107	78	14.3	0.730	0.0316	42.7	3812	4630	82.7%	
Nissan	Car	Wagon	1984	35.1	27.5	33.6	29.9	2458	108.2	106	78	14.2	0.732	0.0316	43.4	3897	4701	83.3%	
Nissan	Car	Wagon	1985	30.0	23.5	28.6	25.6	2626	110.4	123	95	13.4	0.752	0.0348	39.9	3469	4397	100.0%	
Nissan	Car	Wagon	1986	28.2	21.9	27.0	24.0	2935	126.6	120	96	14.0	0.790	0.0324	41.6	3618	5265	88.1%	11.9%
Nissan	Car	Wagon	1987	27.8	21.4	26.7	23.6	2999	122.2	128	101	14.2	0.778	0.0329	41.9	3461	5114	90.1%	9.9%
Nissan	Car	Wagon	1988	28.0	21.5	26.4	23.6	2977	125.1	122	97	14.4	0.784	0.0320	41.8	3547	5221	89.0%	11.0%
Nissan	Car	Wagon	1989	32.3	25.0	29.6	27.0	2767	114.8	98	90	14.0	0.918	0.0326	44.7	3723	5136	79.2%	20.8%
Nissan	Car	Wagon	1990	33.5	25.6	30.8	27.9	2692	115.0	98	90	13.7	0.918	0.0335	45.1	3863	5189	100.0%	
Nissan	Car	Wagon	1991																
Nissan	Car	Wagon	1992																
Nissan	Car	Wagon	1993																
Nissan	Car	Wagon	1994																
Nissan	Car	Wagon	1995																
Nissan	Car	Wagon	1996																
Nissan	Car	Wagon	1997																
Nissan	Car	Wagon	1998																
Nissan	Car	Wagon	1999																
Nissan	Car	Wagon	2000																
Nissan	Car	Wagon	2001																
Nissan	Car	Wagon	2002																
Nissan	Car	Wagon	2003																
Nissan	Car	Wagon	2004																
Nissan	Car	Wagon	2005																
Nissan	Car	Wagon	2006																
Nissan	Car	Wagon	2007																
Nissan	Car	Wagon	2008																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Nissan	Car	Car	2011	2.2%	30.6%	67.2%	0.3%	99.7%					100.0%		100.0%	0.8%	13.4%	86.6%	
Nissan	Car	Car	2012	4.2%	23.8%	71.9%	0.5%	99.5%					100.0%		100.0%	0.3%	35.0%	65.0%	
Nissan	Car	Wagon	1975	62.5%													100.0%		
Nissan	Car	Wagon	1976	71.5%													100.0%		
Nissan	Car	Wagon	1977	72.3%				10.0%									100.0%		
Nissan	Car	Wagon	1978	67.3%				18.6%									100.0%		
Nissan	Car	Wagon	1979	64.9%				3.5%									100.0%		
Nissan	Car	Wagon	1980	64.5%				1.1%									100.0%		
Nissan	Car	Wagon	1981	52.5%	28.1%			10.3%		1.8%							100.0%		
Nissan	Car	Wagon	1982	41.7%	40.6%			14.8%		7.4%							100.0%		
Nissan	Car	Wagon	1983	51.9%	48.1%			16.5%		0.9%							100.0%		
Nissan	Car	Wagon	1984	52.8%	47.2%			16.7%									100.0%		
Nissan	Car	Wagon	1985	34.9%	65.1%			30.1%									100.0%		
Nissan	Car	Wagon	1986	45.7%	54.3%			77.9%			100.0%						30.3%	69.7%	
Nissan	Car	Wagon	1987	36.7%	63.3%			58.9%	4.6%		100.0%						73.8%	26.2%	
Nissan	Car	Wagon	1988	33.9%	66.1%			65.0%	35.0%		100.0%						50.3%	49.7%	
Nissan	Car	Wagon	1989	34.3%	65.7%				100.0%			100.0%					100.0%		
Nissan	Car	Wagon	1990	27.1%	72.9%				100.0%				100.0%				100.0%		
Nissan	Car	Wagon	1991																
Nissan	Car	Wagon	1992																
Nissan	Car	Wagon	1993																
Nissan	Car	Wagon	1994																
Nissan	Car	Wagon	1995																
Nissan	Car	Wagon	1996																
Nissan	Car	Wagon	1997																
Nissan	Car	Wagon	1998																
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Nissan	Car	Wagon	2001																
Nissan	Car	Wagon	2002																
Nissan	Car	Wagon	2003																
Nissan	Car	Wagon	2004																
Nissan	Car	Wagon	2005																
Nissan	Car	Wagon	2006																
Nissan	Car	Wagon	2007																
Nissan	Car	Wagon	2008																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Nissan	Car	Wagon	2009	37.9	26.9	30.3	28.7	3000	98.0	110	122	11.7	1.109	0.0407	56.9	3720	5580	100.0%	
Nissan	Car	Wagon	2010	32.1	22.1	27.9	25.0	3329	109.7	144	180	10.2	1.202	0.0518	54.3	3670	5954	67.1%	20.3%
Nissan	Car	Wagon	2011	35.8	24.8	30.0	27.5	3309	100.7	112	184	9.4	1.682	0.0550	59.6	3648	5982	56.8%	39.5%
Nissan	Car	Wagon	2012	35.9	24.9	30.0	27.6	3193	104.3	116	166	10.1	1.456	0.0513	57.6	3794	5992	73.7%	22.6%
Nissan	Car	Non-Truck SUV	1975																
Nissan	Car	Non-Truck SUV	1976																
Nissan	Car	Non-Truck SUV	1977																
Nissan	Car	Non-Truck SUV	1978																
Nissan	Car	Non-Truck SUV	1979																
Nissan	Car	Non-Truck SUV	1980																
Nissan	Car	Non-Truck SUV	1981																
Nissan	Car	Non-Truck SUV	1982																
Nissan	Car	Non-Truck SUV	1983																
Nissan	Car	Non-Truck SUV	1984																
Nissan	Car	Non-Truck SUV	1985																
Nissan	Car	Non-Truck SUV	1986																
Nissan	Car	Non-Truck SUV	1987																
Nissan	Car	Non-Truck SUV	1988																
Nissan	Car	Non-Truck SUV	1989																
Nissan	Car	Non-Truck SUV	1990																
Nissan	Car	Non-Truck SUV	1991																
Nissan	Car	Non-Truck SUV	1992																
Nissan	Car	Non-Truck SUV	1993																
Nissan	Car	Non-Truck SUV	1994																
Nissan	Car	Non-Truck SUV	1995																
Nissan	Car	Non-Truck SUV	1996																
Nissan	Car	Non-Truck SUV	1997																
Nissan	Car	Non-Truck SUV	1998																
Nissan	Car	Non-Truck SUV	1999																
Nissan	Car	Non-Truck SUV	2000	20.1	14.7	17.9	16.3	4000	100.0	198	169	11.4	0.855	0.0422	40.3	2015	4029		
Nissan	Car	Non-Truck SUV	2001	20.4	14.7	18.4	16.5	4000	125.0	198	169	11.4	0.856	0.0422	40.9	2556	5113		
Nissan	Car	Non-Truck SUV	2002	20.7	14.8	18.5	16.6	4000	125.0	195	170	11.4	0.874	0.0424	41.5	2592	5183		
Nissan	Car	Non-Truck SUV	2003	23.0	16.2	20.6	18.4	4000	135.5	205	210	9.8	1.016	0.0524	46.4	3165	6330	34.0%	
Nissan	Car	Non-Truck SUV	2004	23.2	16.0	21.2	18.6	4051	127.5	203	210	9.9	1.030	0.0518	47.3	2975	6037	34.0%	
Nissan	Car	Non-Truck SUV	2005	23.5	16.0	21.6	18.8	4265	140.6	224	258	8.5	1.153	0.0605	50.2	3346	7073	47.0%	
Nissan	Car	Non-Truck SUV	2006	23.3	15.9	21.4	18.6	4271	138.9	226	257	8.6	1.141	0.0603	49.9	3291	6959	45.9%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Nissan	Car	Wagon	2009	15.6%		84.4%		100.0%					100.0%		100.0%		100.0%		
Nissan	Car	Wagon	2010	5.0%	32.9%	62.0%		100.0%					100.0%		100.0%		100.0%		
Nissan	Car	Wagon	2011	4.8%	9.7%	85.4%	67.5%	32.5%					100.0%		100.0%		100.0%		
Nissan	Car	Wagon	2012	8.3%	10.6%	81.2%	39.2%	60.8%					100.0%		100.0%		100.0%		
Nissan	Car	Non-Truck SUV	1975																
Nissan	Car	Non-Truck SUV	1976																
Nissan	Car	Non-Truck SUV	1977																
Nissan	Car	Non-Truck SUV	1978																
Nissan	Car	Non-Truck SUV	1979																
Nissan	Car	Non-Truck SUV	1980																
Nissan	Car	Non-Truck SUV	1981																
Nissan	Car	Non-Truck SUV	1982																
Nissan	Car	Non-Truck SUV	1983																
Nissan	Car	Non-Truck SUV	1984																
Nissan	Car	Non-Truck SUV	1985																
Nissan	Car	Non-Truck SUV	1986																
Nissan	Car	Non-Truck SUV	1987																
Nissan	Car	Non-Truck SUV	1988																
Nissan	Car	Non-Truck SUV	1989																
Nissan	Car	Non-Truck SUV	1990																
Nissan	Car	Non-Truck SUV	1991																
Nissan	Car	Non-Truck SUV	1992																
Nissan	Car	Non-Truck SUV	1993																
Nissan	Car	Non-Truck SUV	1994																
Nissan	Car	Non-Truck SUV	1995																
Nissan	Car	Non-Truck SUV	1996																
Nissan	Car	Non-Truck SUV	1997																
Nissan	Car	Non-Truck SUV	1998																
Nissan	Car	Non-Truck SUV	1999																
Nissan	Car	Non-Truck SUV	2000	13.9%	86.1%			100.0%			95.7%		4.3%				100.0%		
Nissan	Car	Non-Truck SUV	2001	10.8%	89.2%			100.0%			95.7%		4.3%					100.0%	
Nissan	Car	Non-Truck SUV	2002	17.3%	82.7%			100.0%					100.0%					100.0%	
Nissan	Car	Non-Truck SUV	2003	8.2%	57.8%	34.0%		100.0%			52.1%		47.9%		42.1%			57.9%	42.1%
Nissan	Car	Non-Truck SUV	2004	7.2%	58.9%	34.0%		100.0%			50.5%		49.5%		44.1%			89.9%	10.1%
Nissan	Car	Non-Truck SUV	2005	2.3%	50.8%	47.0%		100.0%					100.0%		100.0%			37.7%	62.3%
Nissan	Car	Non-Truck SUV	2006	3.3%	50.8%	45.9%		100.0%					100.0%		100.0%			44.2%	55.8%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Nissan	Car	Non-Truck SUV	2007	23.8	16.2	21.9	19.0	4233	140.0	225	254	8.6	1.131	0.0600	50.5	3379	7087	53.4%	
Nissan	Car	Non-Truck SUV	2008	26.6	18.2	23.9	21.1	3949	127.4	191	221	9.3	1.155	0.0555	53.2	3493	6771	49.8%	
Nissan	Car	Non-Truck SUV	2009	27.6	19.0	24.4	21.7	3887	139.3	194	230	8.9	1.182	0.0587	53.9	3871	7485	86.1%	
Nissan	Car	Non-Truck SUV	2010	28.0	19.4	24.6	22.0	3854	134.0	186	218	9.2	1.168	0.0561	54.3	3802	7268	82.8%	
Nissan	Car	Non-Truck SUV	2011	29.8	20.6	26.1	23.4	3721	132.2	176	203	9.5	1.146	0.0539	55.7	3969	7350	90.1%	
Nissan	Car	Non-Truck SUV	2012	29.7	20.4	26.0	23.3	3765	133.4	179	209	9.4	1.159	0.0548	56.2	3991	7468	86.2%	
Nissan	Truck	Van	1975																
Nissan	Truck	Van	1976																
Nissan	Truck	Van	1977																
Nissan	Truck	Van	1978																
Nissan	Truck	Van	1979																
Nissan	Truck	Van	1980																
Nissan	Truck	Van	1981																
Nissan	Truck	Van	1982																
Nissan	Truck	Van	1983																
Nissan	Truck	Van	1984																
Nissan	Truck	Van	1985																
Nissan	Truck	Van	1986																
Nissan	Truck	Van	1987	22.4	17.6	20.5	18.9	3500		146	106	14.8	0.726	0.0303	39.1				
Nissan	Truck	Van	1988	22.3	17.3	20.8	18.8	3611		146	106	15.2	0.726	0.0294	40.3				
Nissan	Truck	Van	1989	22.2	17.1	20.6	18.6	3738		146	106	15.6	0.726	0.0285	41.4				
Nissan	Truck	Van	1990	25.4	19.3	24.0	21.3	3452		146	137	11.9	0.942	0.0399	43.9			86.5%	11.9%
Nissan	Truck	Van	1991	26.0	19.4	24.9	21.7	3382		146	138	11.7	0.945	0.0410	44.0			99.5%	0.5%
Nissan	Truck	Van	1992	25.6	18.9	24.4	21.3	3500		146	138	12.0	0.945	0.0394	44.8			100.0%	
Nissan	Truck	Van	1993	21.8	15.9	21.2	18.1	4000		181	151	12.5	0.834	0.0378	43.5			100.0%	
Nissan	Truck	Van	1994	22.7	16.4	22.0	18.8	4000		181	151	12.5	0.834	0.0378	45.4			100.0%	
Nissan	Truck	Van	1995	23.0	16.5	22.3	19.0	4000		181	151	12.5	0.834	0.0378	46.0			100.0%	
Nissan	Truck	Van	1996	22.9	16.4	22.0	18.9	4000		181	151	12.5	0.834	0.0378	45.8			100.0%	
Nissan	Truck	Van	1997	22.6	16.1	21.6	18.6	4000		181	151	12.5	0.834	0.0378	45.2			100.0%	
Nissan	Truck	Van	1998	22.7	16.0	21.8	18.7	4000		181	151	12.5	0.834	0.0378	45.4			100.0%	
Nissan	Truck	Van	1999	23.1	15.9	22.9	19.0	4000		200	170	11.3	0.850	0.0425	46.1			100.0%	
Nissan	Truck	Van	2000	22.8	15.7	22.5	18.7	4000		200	170	11.3	0.850	0.0425	45.7			100.0%	
Nissan	Truck	Van	2001	22.6	15.5	21.9	18.4	4000		200	170	11.3	0.850	0.0425	45.1			100.0%	
Nissan	Truck	Van	2002	22.6	15.4	21.8	18.4	4000		200	170	11.3	0.850	0.0425	45.1			100.0%	
Nissan	Truck	Van	2003																
Nissan	Truck	Van	2004	24.6	16.4	23.7	19.9	4500		214	240	9.4	1.121	0.0533	55.3			100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Nissan	Car	Non-Truck SUV	2007	1.7%	44.9%	53.4%		100.0%					100.0%		100.0%			39.9%	60.1%
Nissan	Car	Non-Truck SUV	2008	0.5%	49.7%	49.8%		100.0%					100.0%		100.0%			90.3%	9.7%
Nissan	Car	Non-Truck SUV	2009	0.1%	13.8%	86.1%		100.0%					100.0%		100.0%			42.9%	57.1%
Nissan	Car	Non-Truck SUV	2010	0.1%	17.1%	82.8%		100.0%					100.0%		100.0%			64.0%	36.0%
Nissan	Car	Non-Truck SUV	2011		9.9%	90.1%		100.0%					100.0%		100.0%			71.4%	28.6%
Nissan	Car	Non-Truck SUV	2012		13.8%	86.2%		100.0%					100.0%		100.0%			66.4%	33.6%
Nissan	Truck	Van	1975																
Nissan	Truck	Van	1976																
Nissan	Truck	Van	1977																
Nissan	Truck	Van	1978																
Nissan	Truck	Van	1979																
Nissan	Truck	Van	1980																
Nissan	Truck	Van	1981																
Nissan	Truck	Van	1982																
Nissan	Truck	Van	1983																
Nissan	Truck	Van	1984																
Nissan	Truck	Van	1985																
Nissan	Truck	Van	1986																
Nissan	Truck	Van	1987	18.0%	82.0%				100.0%								100.0%		
Nissan	Truck	Van	1988	15.3%	84.7%				100.0%								100.0%		
Nissan	Truck	Van	1989	18.0%	82.0%				100.0%								100.0%		
Nissan	Truck	Van	1990	27.2%	72.8%			98.4%	1.6%								100.0%		
Nissan	Truck	Van	1991	24.2%	75.8%			100.0%									100.0%		
Nissan	Truck	Van	1992		100.0%			100.0%									100.0%		
Nissan	Truck	Van	1993		100.0%			100.0%										100.0%	
Nissan	Truck	Van	1994		100.0%			100.0%			100.0%							100.0%	
Nissan	Truck	Van	1995		100.0%			100.0%			100.0%							100.0%	
Nissan	Truck	Van	1996		100.0%			100.0%			100.0%							100.0%	
Nissan	Truck	Van	1997		100.0%			100.0%			100.0%							100.0%	
Nissan	Truck	Van	1998		100.0%			100.0%			100.0%							100.0%	
Nissan	Truck	Van	1999		100.0%			100.0%			100.0%							100.0%	
Nissan	Truck	Van	2000		100.0%			100.0%			100.0%							100.0%	
Nissan	Truck	Van	2001		100.0%			100.0%			100.0%							100.0%	
Nissan	Truck	Van	2002		100.0%			100.0%			100.0%							100.0%	
Nissan	Truck	Van	2003																
Nissan	Truck	Van	2004		100.0%			100.0%					100.0%		100.0%			100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Nissan	Truck	Van	2005	24.7	16.4	23.5	19.9	4500		214	240	9.4	1.121	0.0533	55.5			100.0%	
Nissan	Truck	Van	2006	24.9	16.6	23.7	20.1	4500		214	240	9.4	1.121	0.0533	56.1			100.0%	
Nissan	Truck	Van	2007	24.5	16.3	23.5	19.7	4500		214	240	9.4	1.121	0.0533	55.0			100.0%	
Nissan	Truck	Van	2008	24.5	16.3	23.5	19.7	4500		214	240	9.4	1.121	0.0533	55.1			100.0%	
Nissan	Truck	Van	2009	24.5	16.3	23.5	19.7	4500		214	240	9.4	1.121	0.0533	55.1			100.0%	
Nissan	Truck	Van	2010																
Nissan	Truck	Van	2011	27.1	18.5	24.4	21.5	4500		214	260	8.9	1.215	0.0578	61.0			100.0%	
Nissan	Truck	Van	2012	27.2	18.6	24.5	21.5	4500		214	260	8.9	1.215	0.0578	61.3			100.0%	
Nissan	Truck	Truck SUV	1975																
Nissan	Truck	Truck SUV	1976																
Nissan	Truck	Truck SUV	1977																
Nissan	Truck	Truck SUV	1978																
Nissan	Truck	Truck SUV	1979																
Nissan	Truck	Truck SUV	1980																
Nissan	Truck	Truck SUV	1981																
Nissan	Truck	Truck SUV	1982																
Nissan	Truck	Truck SUV	1983																
Nissan	Truck	Truck SUV	1984																
Nissan	Truck	Truck SUV	1985																
Nissan	Truck	Truck SUV	1986																
Nissan	Truck	Truck SUV	1987	18.7	14.8	17.0	15.7	4000		175	134	13.6	0.766	0.0336	37.4				100.0%
Nissan	Truck	Truck SUV	1988	18.5	14.5	17.2	15.6	4000		181	140	13.2	0.773	0.0350	37.1				100.0%
Nissan	Truck	Truck SUV	1989	19.0	14.7	17.6	15.9	4000		181	145	12.8	0.801	0.0362	37.9				83.3%
Nissan	Truck	Truck SUV	1990	19.5	14.9	18.2	16.3	4000		181	153	12.3	0.845	0.0383	39.0				91.7%
Nissan	Truck	Truck SUV	1991	19.5	14.8	18.1	16.3	4000		181	153	12.3	0.845	0.0383	39.0				84.7%
Nissan	Truck	Truck SUV	1992	19.6	14.8	18.2	16.3	4000		181	153	12.3	0.845	0.0383	39.2				74.9%
Nissan	Truck	Truck SUV	1993	19.4	14.7	17.9	16.1	4304		181	153	13.0	0.845	0.0357	41.8				72.5%
Nissan	Truck	Truck SUV	1994	18.6	14.1	16.9	15.4	4352		181	153	13.1	0.845	0.0353	40.4				100.0%
Nissan	Truck	Truck SUV	1995	19.1	14.2	17.4	15.7	4204		181	153	12.8	0.845	0.0365	40.0				70.9%
Nissan	Truck	Truck SUV	1996	19.8	14.7	18.0	16.3	4000		200	168	11.4	0.840	0.0420	39.7				71.3%
Nissan	Truck	Truck SUV	1997	19.6	14.4	18.0	16.1	4399		200	168	12.3	0.840	0.0383	43.1				79.7%
Nissan	Truck	Truck SUV	1998	19.5	14.2	17.9	15.9	4398		200	168	12.3	0.840	0.0383	42.9				79.6%
Nissan	Truck	Truck SUV	1999	19.5	14.2	17.9	15.9	4338		200	169	12.2	0.843	0.0390	42.4				67.5%
Nissan	Truck	Truck SUV	2000	19.3	14.0	17.4	15.7	4423		200	170	12.3	0.849	0.0385	42.8				84.6%
Nissan	Truck	Truck SUV	2001	19.7	14.2	17.6	15.9	4392		210	221	10.1	1.046	0.0504	43.2				72.7%
Nissan	Truck	Truck SUV	2002	19.5	14.0	17.5	15.7	4422		208	214	10.4	1.026	0.0485	43.2				81.2%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Nissan	Truck	Van	2005		100.0%			100.0%					100.0%		100.0%			100.0%	
Nissan	Truck	Van	2006		100.0%			100.0%					100.0%		100.0%			100.0%	
Nissan	Truck	Van	2007		100.0%			100.0%					100.0%		100.0%			100.0%	
Nissan	Truck	Van	2008		100.0%			100.0%					100.0%		100.0%			100.0%	
Nissan	Truck	Van	2009		100.0%			100.0%					100.0%		100.0%			100.0%	
Nissan	Truck	Van	2010																
Nissan	Truck	Van	2011			100.0%		100.0%					100.0%		100.0%			100.0%	
Nissan	Truck	Van	2012			100.0%		100.0%					100.0%		100.0%			100.0%	
Nissan	Truck	Truck SUV	1975																
Nissan	Truck	Truck SUV	1976																
Nissan	Truck	Truck SUV	1977																
Nissan	Truck	Truck SUV	1978																
Nissan	Truck	Truck SUV	1979																
Nissan	Truck	Truck SUV	1980																
Nissan	Truck	Truck SUV	1981																
Nissan	Truck	Truck SUV	1982																
Nissan	Truck	Truck SUV	1983																
Nissan	Truck	Truck SUV	1984																
Nissan	Truck	Truck SUV	1985																
Nissan	Truck	Truck SUV	1986																
Nissan	Truck	Truck SUV	1987	52.4%	47.6%				100.0%									100.0%	
Nissan	Truck	Truck SUV	1988	45.3%	54.7%				100.0%									100.0%	
Nissan	Truck	Truck SUV	1989	52.4%	47.6%				100.0%									100.0%	
Nissan	Truck	Truck SUV	1990	31.5%	68.5%			100.0%										100.0%	
Nissan	Truck	Truck SUV	1991	32.1%	67.9%			100.0%										100.0%	
Nissan	Truck	Truck SUV	1992	32.3%	67.7%			100.0%										100.0%	
Nissan	Truck	Truck SUV	1993	29.2%	70.8%			100.0%										100.0%	
Nissan	Truck	Truck SUV	1994	23.2%	76.8%			100.0%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1995	29.8%	70.2%			100.0%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1996	21.7%	78.3%			100.0%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1997	11.1%	88.9%			100.0%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1998	6.7%	93.3%			100.0%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1999	4.2%	95.8%			100.0%			100.0%							100.0%	
Nissan	Truck	Truck SUV	2000	8.1%	91.9%			100.0%			100.0%						50.2%	49.8%	
Nissan	Truck	Truck SUV	2001	6.0%	94.0%			100.0%			28.1%		71.9%		71.9%			100.0%	
Nissan	Truck	Truck SUV	2002	6.7%	93.3%			100.0%			2.6%		97.4%		58.8%			100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Nissan	Truck	Truck SUV	2003	21.3	14.9	19.4	17.1	4345		213	236	9.5	1.103	0.0545	46.5				86.4%
Nissan	Truck	Truck SUV	2004	19.6	13.5	18.3	15.9	4942		280	271	9.4	0.986	0.0549	48.4				70.6%
Nissan	Truck	Truck SUV	2005	20.7	14.1	19.6	16.7	4852		255	274	9.0	1.093	0.0569	50.3				75.3%
Nissan	Truck	Truck SUV	2006	20.9	14.1	19.7	16.9	4881		255	273	9.1	1.086	0.0562	51.1				69.8%
Nissan	Truck	Truck SUV	2007	21.9	14.9	20.4	17.6	4777		246	266	9.1	1.099	0.0561	52.4				78.0%
Nissan	Truck	Truck SUV	2008	22.3	15.2	20.8	18.0	4782		238	269	9.4	1.133	0.0556	53.8				73.2%
Nissan	Truck	Truck SUV	2009	25.4	17.5	22.6	20.1	4346		208	240	9.3	1.162	0.0551	55.3				95.3%
Nissan	Truck	Truck SUV	2010	24.0	16.5	21.8	19.1	4558		225	244	9.5	1.111	0.0534	55.0				85.1%
Nissan	Truck	Truck SUV	2011	24.9	17.0	22.5	19.8	4553		220	244	9.7	1.118	0.0529	57.0				85.6%
Nissan	Truck	Truck SUV	2012	26.7	18.3	23.8	21.1	4262		199	227	9.7	1.143	0.0525	57.1				92.8%
Nissan	Truck	Pickup	1975	23.6	18.0	23.5	20.1	2750		119	107	12.0	0.901	0.0390	32.5				
Nissan	Truck	Pickup	1976	24.5	19.1	23.7	20.9	2750		119	109	11.8	0.917	0.0397	33.8				
Nissan	Truck	Pickup	1977	25.0	19.5	24.0	21.3	2750		119	109	11.8	0.914	0.0396	34.4				
Nissan	Truck	Pickup	1978	25.6	20.7	23.1	21.7	2786		119	107	12.1	0.899	0.0385	35.7				
Nissan	Truck	Pickup	1979	23.2	18.4	21.6	19.7	2781		119	92	13.6	0.773	0.0332	32.4				
Nissan	Truck	Pickup	1980	25.1	20.3	22.7	21.3	2830		119	92	13.8	0.770	0.0325	35.8				14.2%
Nissan	Truck	Pickup	1981	27.7	22.3	25.3	23.6	2893		133	92	14.3	0.693	0.0320	40.9				28.0%
Nissan	Truck	Pickup	1982	27.8	22.5	25.1	23.6	2894		133	91	14.5	0.685	0.0317	40.9				24.2%
Nissan	Truck	Pickup	1983	27.4	21.8	25.4	23.3	3041		141	100	13.6	0.716	0.0332	42.0				24.5%
Nissan	Truck	Pickup	1984	26.2	20.9	24.4	22.3	3156		145	103	13.8	0.709	0.0327	41.7				31.2%
Nissan	Truck	Pickup	1985	25.7	20.5	23.6	21.8	3137		146	103	13.7	0.705	0.0330	40.3				26.3%
Nissan	Truck	Pickup	1986	24.7	19.4	23.2	20.9	3229		151	109	13.4	0.725	0.0340	39.9				25.3%
Nissan	Truck	Pickup	1987	25.1	19.3	24.0	21.2	3169		151	111	13.1	0.733	0.0351	39.9				14.6%
Nissan	Truck	Pickup	1988	24.7	19.2	22.9	20.8	3239		151	112	13.2	0.738	0.0347	40.1				23.8%
Nissan	Truck	Pickup	1989	24.8	18.9	23.3	20.8	3239		152	113	13.2	0.739	0.0348	40.2				25.1%
Nissan	Truck	Pickup	1990	27.1	20.8	25.0	22.7	3167		149	135	11.2	0.905	0.0429	43.1				18.1%
Nissan	Truck	Pickup	1991	26.9	20.5	24.8	22.4	3203		149	135	11.3	0.905	0.0424	43.1				20.6%
Nissan	Truck	Pickup	1992	26.7	20.2	24.6	22.2	3229		150	135	11.3	0.903	0.0423	43.3				22.4%
Nissan	Truck	Pickup	1993	26.4	19.8	24.2	21.8	3257		150	136	11.4	0.910	0.0421	43.2				22.3%
Nissan	Truck	Pickup	1994	25.6	19.1	23.3	21.0	3333		152	137	11.5	0.906	0.0417	42.7				29.0%
Nissan	Truck	Pickup	1995	24.9	18.6	22.4	20.4	3365		153	138	11.5	0.903	0.0415	42.0				25.3%
Nissan	Truck	Pickup	1996	25.2	18.7	22.5	20.5	3355		146	134	11.8	0.918	0.0404	42.2				18.0%
Nissan	Truck	Pickup	1997	24.9	18.5	22.1	20.2	3350		146	134	11.7	0.918	0.0405	41.7				20.8%
Nissan	Truck	Pickup	1998	25.5	18.7	22.7	20.6	3604		146	142	11.9	0.973	0.0396	46.1				24.6%
Nissan	Truck	Pickup	1999	23.3	17.0	20.6	18.8	3788		166	152	11.8	0.923	0.0401	44.3				38.9%
Nissan	Truck	Pickup	2000	21.8	15.9	19.4	17.6	3918		177	158	11.7	0.903	0.0405	43.1				25.4%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Nissan	Truck	Truck SUV	2003	2.0%	76.6%	21.3%		100.0%			24.2%		75.8%		75.8%			57.7%	42.3%
Nissan	Truck	Truck SUV	2004	1.3%	85.3%	13.4%		100.0%			14.1%		85.9%		85.9%			38.1%	61.9%
Nissan	Truck	Truck SUV	2005	1.1%	80.6%	18.2%		100.0%					100.0%		100.0%			13.3%	86.7%
Nissan	Truck	Truck SUV	2006	1.7%	75.9%	22.4%		100.0%					100.0%		100.0%			14.4%	85.6%
Nissan	Truck	Truck SUV	2007	1.3%	60.9%	37.8%		100.0%					100.0%		100.0%			14.6%	85.4%
Nissan	Truck	Truck SUV	2008	0.5%	72.5%	27.0%		100.0%					100.0%		100.0%			42.4%	57.6%
Nissan	Truck	Truck SUV	2009	0.2%	25.8%	74.0%		100.0%					100.0%		100.0%			35.6%	64.4%
Nissan	Truck	Truck SUV	2010	0.6%	44.2%	55.1%		100.0%					100.0%		100.0%			41.4%	58.6%
Nissan	Truck	Truck SUV	2011	0.7%	43.3%	56.0%	7.9%	92.1%					100.0%		100.0%			47.1%	52.9%
Nissan	Truck	Truck SUV	2012	0.2%	23.0%	76.7%	4.3%	95.7%					100.0%		100.0%			54.0%	46.0%
Nissan	Truck	Pickup	1975	90.0%													100.0%		
Nissan	Truck	Pickup	1976	90.0%													100.0%		
Nissan	Truck	Pickup	1977	85.4%													100.0%		
Nissan	Truck	Pickup	1978	87.6%													100.0%		
Nissan	Truck	Pickup	1979	88.5%													100.0%		
Nissan	Truck	Pickup	1980	91.9%													100.0%		
Nissan	Truck	Pickup	1981	94.6%						16.0%							100.0%		
Nissan	Truck	Pickup	1982	94.5%						18.8%							100.0%		
Nissan	Truck	Pickup	1983	95.6%	3.4%					2.5%							100.0%		
Nissan	Truck	Pickup	1984	91.2%	8.8%					0.3%							100.0%		
Nissan	Truck	Pickup	1985	86.7%	13.3%					0.0%							100.0%		
Nissan	Truck	Pickup	1986	87.2%	12.8%				64.4%								100.0%		
Nissan	Truck	Pickup	1987	79.5%	20.5%				100.0%								100.0%		
Nissan	Truck	Pickup	1988	79.3%	20.7%				100.0%								100.0%		
Nissan	Truck	Pickup	1989	79.9%	20.1%				100.0%								100.0%		
Nissan	Truck	Pickup	1990	84.0%	16.0%			100.0%									100.0%		
Nissan	Truck	Pickup	1991	78.4%	21.6%			100.0%									100.0%		
Nissan	Truck	Pickup	1992	78.3%	21.7%			100.0%									100.0%		
Nissan	Truck	Pickup	1993	76.5%	23.5%			100.0%									100.0%		
Nissan	Truck	Pickup	1994	77.7%	22.3%			100.0%			100.0%						100.0%		
Nissan	Truck	Pickup	1995	76.6%	23.4%			100.0%			100.0%						100.0%		
Nissan	Truck	Pickup	1996	76.8%	23.2%			100.0%				100.0%					100.0%		
Nissan	Truck	Pickup	1997	79.6%	20.4%			100.0%				100.0%					100.0%		
Nissan	Truck	Pickup	1998	74.2%	25.8%			100.0%					100.0%				100.0%		
Nissan	Truck	Pickup	1999	48.2%	51.8%			100.0%			37.1%		62.9%				100.0%		
Nissan	Truck	Pickup	2000	33.7%	66.3%			100.0%			58.2%		41.8%				41.8%		58.2%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Nissan	Truck	Pickup	2001	22.2	16.1	19.7	17.9	3880		178	161	11.5	0.916	0.0416	43.5				21.9%
Nissan	Truck	Pickup	2002	22.0	15.8	19.4	17.6	3944		179	163	11.6	0.915	0.0413	43.6				24.3%
Nissan	Truck	Pickup	2003	22.4	15.9	19.8	17.9	3945		182	170	11.2	0.939	0.0431	44.3				28.1%
Nissan	Truck	Pickup	2004	23.2	16.2	20.8	18.5	3870		177	166	11.3	0.940	0.0427	45.1				23.7%
Nissan	Truck	Pickup	2005	19.4	13.3	18.0	15.7	4895		290	281	9.0	0.984	0.0573	47.5				41.7%
Nissan	Truck	Pickup	2006	19.8	13.6	18.3	15.9	4811		280	272	9.2	0.989	0.0563	47.6				35.6%
Nissan	Truck	Pickup	2007	20.1	13.8	18.5	16.2	4771		270	266	9.3	0.998	0.0554	48.0				34.8%
Nissan	Truck	Pickup	2008	19.4	13.3	18.2	15.7	5140		291	344	8.3	1.165	0.0658	49.7				38.2%
Nissan	Truck	Pickup	2009	20.3	14.0	18.8	16.4	4926		270	270	9.4	1.011	0.0546	50.0				42.4%
Nissan	Truck	Pickup	2010	20.4	14.0	18.9	16.4	4943		269	270	9.4	1.012	0.0544	50.3				49.7%
Nissan	Truck	Pickup	2011	20.4	13.9	18.9	16.4	4905		270	272	9.2	1.018	0.0554	49.9				54.5%
Nissan	Truck	Pickup	2012	20.6	14.1	19.1	16.6	4878		268	266	9.5	1.001	0.0541	50.2				35.1%
Nissan	Car	All	1975	25.0	19.2	24.7	21.4	2606		117	113	11.6	0.957	0.0424	33.3				
Nissan	Car	All	1976	26.9	21.0	25.8	22.9	2568		112	107	11.9	0.946	0.0407	35.1				
Nissan	Car	All	1977	27.2	21.5	25.5	23.1	2555	78.7	111	106	11.9	0.948	0.0406	35.5	2272	2819		
Nissan	Car	All	1978	26.8	21.3	24.9	22.8	2534	78.8	111	105	11.9	0.941	0.0407	34.6	2213	2739		
Nissan	Car	All	1979	26.8	21.1	25.4	22.8	2494	83.2	109	85	14.0	0.772	0.0331	33.8	2337	2827	14.5%	
Nissan	Car	All	1980	31.2	24.9	29.0	26.6	2461	86.3	105	82	14.0	0.777	0.0327	38.7	2763	3353	19.6%	
Nissan	Car	All	1981	30.5	24.4	28.1	25.9	2530	84.7	113	89	13.7	0.774	0.0344	38.9	2672	3312	18.1%	
Nissan	Car	All	1982	30.7	24.3	28.8	26.1	2568	89.7	117	90	13.6	0.761	0.0344	40.1	2909	3625	44.2%	
Nissan	Car	All	1983	32.7	25.6	31.4	27.9	2516	93.6	116	90	13.4	0.759	0.0349	41.7	3223	3931	70.9%	
Nissan	Car	All	1984	31.9	24.8	30.9	27.2	2633	90.9	123	101	12.8	0.804	0.0373	42.6	3078	3887	46.1%	
Nissan	Car	All	1985	29.5	23.0	28.3	25.1	2738	93.0	128	103	12.9	0.789	0.0366	40.7	2910	3779	75.6%	
Nissan	Car	All	1986	29.9	23.0	29.1	25.4	2801	95.0	128	103	13.1	0.792	0.0359	42.1	2973	3994	72.9%	1.8%
Nissan	Car	All	1987	29.3	22.3	28.5	24.8	2882	98.9	125	99	14.1	0.778	0.0333	42.4	2975	4194	90.8%	0.6%
Nissan	Car	All	1988	30.6	23.4	29.0	25.7	2786	98.5	118	93	14.4	0.775	0.0325	42.8	3096	4218	90.9%	0.5%
Nissan	Car	All	1989	30.2	22.8	28.9	25.3	2836	99.3	124	112	12.2	0.904	0.0390	42.9	3063	4271	84.6%	0.2%
Nissan	Car	All	1990	28.4	21.1	27.5	23.8	3025	97.8	144	138	11.1	0.953	0.0447	43.0	2861	4221	74.9%	
Nissan	Car	All	1991	29.0	21.3	28.3	24.2	3081	98.4	143	146	10.6	1.035	0.0467	45.0	2928	4432	81.4%	
Nissan	Car	All	1992	29.9	21.8	29.0	24.9	3026	99.1	137	141	10.7	1.049	0.0461	45.7	3036	4527	87.2%	
Nissan	Car	All	1993	29.1	21.1	28.3	24.2	3097	100.1	138	146	10.6	1.067	0.0466	45.3	2970	4536	85.8%	
Nissan	Car	All	1994	29.8	21.5	28.9	24.7	3035	101.1	135	142	10.7	1.068	0.0461	45.5	3068	4594	90.7%	
Nissan	Car	All	1995	29.2	20.9	28.2	24.1	3143	103.9	148	159	10.0	1.082	0.0500	46.1	3072	4795	89.0%	
Nissan	Car	All	1996	30.2	21.4	29.0	24.8	3121	104.4	145	156	10.1	1.091	0.0494	47.4	3187	4943	96.0%	
Nissan	Car	All	1997	29.6	20.8	28.6	24.2	3122	105.1	146	156	10.1	1.081	0.0494	46.4	3137	4869	94.8%	
Nissan	Car	All	1998	30.2	21.0	29.0	24.6	3283	106.4	146	156	10.5	1.075	0.0471	49.6	3230	5278	97.6%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Nissan	Truck	Pickup	2001	33.4%	66.6%			100.0%			58.3%		41.7%				41.7%		58.3%
Nissan	Truck	Pickup	2002	28.6%	71.4%			100.0%					100.0%				38.3%		61.7%
Nissan	Truck	Pickup	2003	28.3%	71.7%			100.0%			67.3%		32.7%				32.7%		67.3%
Nissan	Truck	Pickup	2004	29.5%	70.5%			100.0%			57.6%		42.4%						100.0%
Nissan	Truck	Pickup	2005	7.3%	92.7%			100.0%					100.0%		94.7%				100.0%
Nissan	Truck	Pickup	2006	9.1%	90.9%			100.0%					100.0%		100.0%				100.0%
Nissan	Truck	Pickup	2007	9.0%	91.0%			100.0%					100.0%		100.0%				100.0%
Nissan	Truck	Pickup	2008	4.5%	95.5%			100.0%					100.0%		100.0%				100.0%
Nissan	Truck	Pickup	2009	6.9%	93.1%			100.0%					100.0%		100.0%				100.0%
Nissan	Truck	Pickup	2010	4.6%	95.4%			100.0%					100.0%		100.0%				100.0%
Nissan	Truck	Pickup	2011	4.5%	95.5%			100.0%					100.0%		100.0%				100.0%
Nissan	Truck	Pickup	2012	9.8%	90.2%			100.0%					100.0%		100.0%				100.0%
Nissan	Car	All	1975	78.6%				32.3%									100.0%		
Nissan	Car	All	1976	74.1%				21.0%									100.0%		
Nissan	Car	All	1977	72.0%				22.4%									100.0%		
Nissan	Car	All	1978	71.1%				21.2%									100.0%		
Nissan	Car	All	1979	73.4%				24.0%									100.0%		
Nissan	Car	All	1980	71.8%				28.2%									100.0%		
Nissan	Car	All	1981	65.9%	15.0%			36.2%		1.0%							100.0%		
Nissan	Car	All	1982	55.9%	23.3%			35.0%		2.5%							100.0%		
Nissan	Car	All	1983	60.5%	38.7%			30.1%		1.2%							100.0%		
Nissan	Car	All	1984	59.3%	39.1%			53.9%		0.8%							100.0%		
Nissan	Car	All	1985	51.3%	47.9%			50.3%		0.2%							100.0%		
Nissan	Car	All	1986	53.7%	46.3%			54.5%		0.1%	100.0%						89.2%	10.8%	
Nissan	Car	All	1987	45.7%	54.3%			34.3%	25.6%		97.8%		2.2%				98.5%	1.5%	
Nissan	Car	All	1988	49.0%	51.0%			35.8%	63.7%		96.3%		3.7%				97.6%	2.4%	
Nissan	Car	All	1989	44.1%	55.9%			42.5%	57.5%		34.1%	65.6%	0.3%				79.3%	20.7%	
Nissan	Car	All	1990	40.7%	59.3%			65.2%	34.8%		25.0%	29.6%	45.4%		2.5%		74.1%	25.9%	
Nissan	Car	All	1991	34.1%	65.9%			99.3%	0.7%		24.9%	16.6%	58.6%		37.1%		72.8%	27.2%	
Nissan	Car	All	1992	33.6%	66.4%			99.8%	0.2%		15.0%	16.0%	69.0%		53.0%		74.7%	25.3%	
Nissan	Car	All	1993	24.3%	75.7%			100.0%			14.1%		85.9%		40.2%		80.8%	19.2%	
Nissan	Car	All	1994	20.8%	79.2%			100.0%			11.7%		88.3%		50.6%		83.2%	16.8%	
Nissan	Car	All	1995	21.5%	78.5%			100.0%					100.0%		54.9%		68.7%	31.3%	
Nissan	Car	All	1996	26.8%	73.2%			100.0%					100.0%		73.3%		59.8%	40.2%	
Nissan	Car	All	1997	12.6%	87.4%			100.0%					100.0%		64.2%		67.0%	33.0%	
Nissan	Car	All	1998	13.3%	86.7%			100.0%					100.0%		59.2%		66.5%	33.5%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Nissan	Car	All	1999	29.6	20.5	28.3	24.1	3341	107.2	148	157	10.6	1.068	0.0467	49.5	3191	5309	98.2%	
Nissan	Car	All	2000	26.9	18.7	25.5	21.8	3444	110.0	162	183	9.7	1.129	0.0530	46.6	3007	5132	89.1%	
Nissan	Car	All	2001	27.1	18.8	25.4	21.9	3382	110.9	155	172	10.0	1.118	0.0508	46.2	3045	5105	88.6%	
Nissan	Car	All	2002	27.8	19.2	25.6	22.3	3435	114.4	168	191	9.5	1.143	0.0554	48.3	3225	5508	87.8%	
Nissan	Car	All	2003	27.2	18.6	25.1	21.8	3499	111.6	181	212	8.8	1.174	0.0605	48.0	3077	5370	69.8%	
Nissan	Car	All	2004	27.3	18.5	25.4	21.8	3606	108.5	181	214	9.0	1.185	0.0588	49.7	3023	5411	66.6%	3.3%
Nissan	Car	All	2005	28.7	19.3	26.3	22.7	3592	113.9	172	203	9.3	1.177	0.0558	51.7	3309	5901	81.9%	1.9%
Nissan	Car	All	2006	28.4	19.2	26.0	22.5	3597	112.6	172	206	9.3	1.192	0.0565	51.4	3256	5805	75.8%	4.4%
Nissan	Car	All	2007	30.7	20.7	27.8	24.2	3551	115.5	169	202	9.4	1.186	0.0559	55.2	3648	6385	78.7%	5.4%
Nissan	Car	All	2008	31.7	21.3	28.5	24.9	3501	111.7	163	198	9.4	1.195	0.0556	56.0	3629	6269	80.0%	5.0%
Nissan	Car	All	2009	32.5	21.9	29.0	25.5	3491	113.4	160	196	9.6	1.196	0.0548	57.0	3745	6469	87.0%	4.4%
Nissan	Car	All	2010	32.8	22.0	29.5	25.8	3491	112.9	161	197	9.5	1.200	0.0551	57.6	3777	6510	86.9%	4.4%
Nissan	Car	All	2011	33.3	22.4	29.8	26.1	3471	111.7	155	194	9.6	1.240	0.0546	58.1	3789	6494	83.1%	9.1%
Nissan	Car	All	2012	34.3	23.1	30.6	26.8	3395	110.2	149	188	9.8	1.240	0.0538	58.6	3885	6470	80.7%	8.1%
Nissan	Truck	All	1975	23.6	18.0	23.5	20.1	2750		119	107	12.0	0.901	0.0390	32.5				
Nissan	Truck	All	1976	24.5	19.1	23.7	20.9	2750		119	109	11.8	0.917	0.0397	33.8				
Nissan	Truck	All	1977	25.0	19.5	24.0	21.3	2750		119	109	11.8	0.914	0.0396	34.4				
Nissan	Truck	All	1978	25.6	20.7	23.1	21.7	2786		119	107	12.1	0.899	0.0385	35.7				
Nissan	Truck	All	1979	23.2	18.4	21.6	19.7	2781		119	92	13.6	0.773	0.0332	32.4				
Nissan	Truck	All	1980	25.1	20.3	22.7	21.3	2830		119	92	13.8	0.770	0.0325	35.8				14.2%
Nissan	Truck	All	1981	27.7	22.3	25.3	23.6	2893		133	92	14.3	0.693	0.0320	40.9				28.0%
Nissan	Truck	All	1982	27.8	22.5	25.1	23.6	2894		133	91	14.5	0.685	0.0317	40.9				24.2%
Nissan	Truck	All	1983	27.4	21.8	25.4	23.3	3041		141	100	13.6	0.716	0.0332	42.0				24.5%
Nissan	Truck	All	1984	26.2	20.9	24.4	22.3	3156		145	103	13.8	0.709	0.0327	41.7				31.2%
Nissan	Truck	All	1985	25.7	20.5	23.6	21.8	3137		146	103	13.7	0.705	0.0330	40.3				26.3%
Nissan	Truck	All	1986	24.7	19.4	23.2	20.9	3229		151	109	13.4	0.725	0.0340	39.9				25.3%
Nissan	Truck	All	1987	23.5	18.3	22.1	19.9	3338		154	114	13.3	0.738	0.0343	39.4				27.2%
Nissan	Truck	All	1988	22.7	17.7	21.1	19.1	3444		158	118	13.3	0.745	0.0344	39.4				40.2%
Nissan	Truck	All	1989	23.7	18.2	22.2	19.9	3352		156	117	13.1	0.748	0.0350	39.8				33.7%
Nissan	Truck	All	1990	25.3	19.4	23.5	21.2	3335		154	138	11.4	0.899	0.0418	42.5			8.9%	29.7%
Nissan	Truck	All	1991	24.8	18.8	22.9	20.6	3383		156	139	11.5	0.892	0.0415	42.2			0.1%	35.1%
Nissan	Truck	All	1992	24.0	18.1	22.1	19.9	3476		160	141	11.6	0.885	0.0410	42.0			0.1%	39.2%
Nissan	Truck	All	1993	23.7	17.8	22.0	19.7	3603		161	142	11.9	0.885	0.0400	42.9			14.1%	30.8%
Nissan	Truck	All	1994	22.9	17.1	21.2	18.9	3718		165	144	12.1	0.876	0.0393	42.8			22.5%	38.8%
Nissan	Truck	All	1995	22.4	16.6	20.6	18.5	3741		167	145	12.1	0.872	0.0393	42.2			19.0%	34.4%
Nissan	Truck	All	1996	22.9	16.9	20.9	18.7	3694		170	148	11.8	0.876	0.0402	42.4			24.4%	28.6%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Nissan	Car	All	1999	9.8%	90.2%			100.0%					100.0%		50.1%		68.5%	31.5%	
Nissan	Car	All	2000	9.8%	90.2%			100.0%			9.7%		90.3%		55.7%		56.2%	43.8%	
Nissan	Car	All	2001	8.1%	91.9%			100.0%			10.5%		89.5%		51.5%		56.6%	43.4%	
Nissan	Car	All	2002	11.2%	88.8%			100.0%					100.0%		86.9%		25.5%	74.5%	
Nissan	Car	All	2003	11.1%	84.8%	4.1%		100.0%			6.3%		93.7%		93.0%		34.7%	60.2%	5.1%
Nissan	Car	All	2004	10.4%	84.6%	5.1%		100.0%			7.5%		92.5%		91.6%		45.3%	53.2%	1.5%
Nissan	Car	All	2005	6.5%	89.1%	4.5%		100.0%					100.0%		100.0%		28.9%	65.2%	5.9%
Nissan	Car	All	2006	6.0%	89.6%	4.4%		100.0%					100.0%		100.0%		32.7%	56.0%	11.3%
Nissan	Car	All	2007	5.5%	26.3%	68.2%		100.0%					100.0%		100.0%	1.2%	4.2%	85.4%	10.4%
Nissan	Car	All	2008	4.6%	25.1%	70.3%		100.0%					100.0%		100.0%	1.1%	13.5%	83.4%	3.1%
Nissan	Car	All	2009	3.9%	24.0%	72.1%		100.0%					100.0%		100.0%	1.7%	11.6%	80.4%	7.9%
Nissan	Car	All	2010	2.4%	22.8%	74.6%		100.0%					100.0%		100.0%		12.4%	82.8%	4.8%
Nissan	Car	All	2011	2.2%	26.0%	71.8%	6.7%	93.3%					100.0%		100.0%	0.6%	20.0%	76.4%	3.6%
Nissan	Car	All	2012	4.4%	21.4%	74.2%	5.3%	94.7%					100.0%		100.0%	0.3%	40.4%	57.1%	2.6%
Nissan	Truck	All	1975	90.0%													100.0%		
Nissan	Truck	All	1976	90.0%													100.0%		
Nissan	Truck	All	1977	85.4%													100.0%		
Nissan	Truck	All	1978	87.6%													100.0%		
Nissan	Truck	All	1979	88.5%													100.0%		
Nissan	Truck	All	1980	91.9%													100.0%		
Nissan	Truck	All	1981	94.6%						16.0%							100.0%		
Nissan	Truck	All	1982	94.5%						18.8%							100.0%		
Nissan	Truck	All	1983	95.6%	3.4%					2.5%							100.0%		
Nissan	Truck	All	1984	91.2%	8.8%					0.3%							100.0%		
Nissan	Truck	All	1985	86.7%	13.3%					0.0%							100.0%		
Nissan	Truck	All	1986	87.2%	12.8%				64.4%								100.0%		
Nissan	Truck	All	1987	69.1%	30.9%				100.0%								83.5%	16.5%	
Nissan	Truck	All	1988	67.0%	33.0%				100.0%								76.4%	23.6%	
Nissan	Truck	All	1989	75.7%	24.3%				100.0%								85.2%	14.8%	
Nissan	Truck	All	1990	69.5%	30.5%			99.8%	0.2%								83.4%	16.6%	
Nissan	Truck	All	1991	67.9%	32.1%			100.0%									77.5%	22.5%	
Nissan	Truck	All	1992	63.5%	36.5%			100.0%									68.0%	32.0%	
Nissan	Truck	All	1993	54.8%	45.2%			100.0%									62.9%	37.1%	
Nissan	Truck	All	1994	47.7%	52.3%			100.0%			100.0%						54.5%	45.5%	
Nissan	Truck	All	1995	47.8%	52.2%			100.0%			100.0%						50.5%	49.5%	
Nissan	Truck	All	1996	42.6%	57.4%			100.0%			52.5%	47.5%					47.5%	52.5%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Nissan	Truck	All	1997	22.3	16.4	20.4	18.3	3841		172	149	12.1	0.875	0.0392	42.8			18.4%	37.8%
Nissan	Truck	All	1998	22.3	16.2	20.3	18.2	3985		173	154	12.2	0.899	0.0388	44.6			13.4%	44.1%
Nissan	Truck	All	1999	21.2	15.2	19.6	17.3	4112		191	164	11.9	0.866	0.0401	43.8			23.7%	43.9%
Nissan	Truck	All	2000	20.9	15.1	19.0	17.0	4121		189	165	11.9	0.874	0.0401	43.4			15.3%	43.8%
Nissan	Truck	All	2001	20.7	14.9	18.6	16.7	4181		198	196	10.7	0.983	0.0467	43.5			10.2%	48.4%
Nissan	Truck	All	2002	20.7	14.8	18.5	16.6	4199		196	190	10.9	0.967	0.0452	43.5			9.0%	51.9%
Nissan	Truck	All	2003	21.6	15.2	19.5	17.4	4217		203	215	10.0	1.051	0.0509	45.8				67.8%
Nissan	Truck	All	2004	20.9	14.4	19.4	16.8	4671		250	246	9.7	0.999	0.0524	48.9			15.6%	50.8%
Nissan	Truck	All	2005	20.5	14.0	19.3	16.6	4835		264	273	9.0	1.057	0.0567	49.8			9.0%	56.6%
Nissan	Truck	All	2006	20.6	14.1	19.3	16.6	4829		262	270	9.1	1.051	0.0560	50.1			6.6%	52.0%
Nissan	Truck	All	2007	21.5	14.7	20.0	17.3	4743		250	263	9.2	1.067	0.0555	51.2			11.7%	54.0%
Nissan	Truck	All	2008	21.4	14.5	20.0	17.2	4884		255	292	9.0	1.143	0.0589	52.5			6.8%	56.4%
Nissan	Truck	All	2009	24.2	16.6	21.8	19.2	4464		220	246	9.4	1.132	0.0549	54.3			4.1%	81.3%
Nissan	Truck	All	2010	22.8	15.7	20.9	18.2	4672		238	252	9.5	1.082	0.0537	53.6				74.6%
Nissan	Truck	All	2011	23.8	16.3	21.7	19.0	4632		232	252	9.5	1.100	0.0538	55.6			5.3%	73.9%
Nissan	Truck	All	2012	25.5	17.5	23.0	20.2	4433		215	243	9.5	1.137	0.0542	57.0			26.2%	58.3%
Nissan	All	All	1975	24.7	18.9	24.4	21.1	2640		118	112	11.7	0.944	0.0416	33.1				
Nissan	All	All	1976	26.3	20.5	25.3	22.4	2610		114	107	11.9	0.939	0.0405	34.8				
Nissan	All	All	1977	26.7	21.0	25.2	22.7	2595		112	106	11.9	0.941	0.0404	35.3				
Nissan	All	All	1978	26.5	21.2	24.5	22.6	2580		112	106	11.9	0.933	0.0403	34.8				
Nissan	All	All	1979	26.2	20.6	24.7	22.3	2541		111	86	13.9	0.772	0.0331	33.6			12.1%	
Nissan	All	All	1980	29.8	23.9	27.5	25.4	2531		107	84	14.0	0.776	0.0327	38.2			15.9%	2.7%
Nissan	All	All	1981	30.0	24.0	27.6	25.5	2596		116	90	13.8	0.759	0.0340	39.3			14.8%	5.1%
Nissan	All	All	1982	30.0	23.9	27.9	25.5	2637		120	90	13.8	0.745	0.0338	40.2			34.8%	5.1%
Nissan	All	All	1983	31.7	24.9	30.2	27.0	2603		120	91	13.4	0.751	0.0347	41.8			59.1%	4.1%
Nissan	All	All	1984	30.5	23.8	29.2	26.0	2748		128	101	13.0	0.783	0.0363	42.4			36.0%	6.9%
Nissan	All	All	1985	28.4	22.3	26.9	24.1	2845		133	103	13.1	0.767	0.0356	40.6			55.3%	7.0%
Nissan	All	All	1986	27.5	21.3	26.3	23.3	2981		137	106	13.2	0.764	0.0351	41.1			42.2%	11.7%
Nissan	All	All	1987	27.8	21.3	26.8	23.5	2984		131	102	13.9	0.769	0.0336	41.7			70.6%	6.5%
Nissan	All	All	1988	28.1	21.6	26.5	23.6	2955		128	100	14.1	0.767	0.0330	41.9			67.6%	10.7%
Nissan	All	All	1989	28.4	21.5	27.0	23.8	2956		132	113	12.4	0.868	0.0381	42.2			64.9%	8.0%
Nissan	All	All	1990	27.5	20.6	26.3	23.0	3109		147	138	11.2	0.938	0.0439	42.9			56.9%	8.1%
Nissan	All	All	1991	27.6	20.5	26.5	23.0	3170		147	144	10.9	0.993	0.0452	44.2			57.5%	10.3%
Nissan	All	All	1992	28.2	20.8	27.0	23.5	3132		142	141	10.9	1.011	0.0449	44.8			66.7%	9.2%
Nissan	All	All	1993	27.1	19.9	25.9	22.5	3261		146	145	11.0	1.008	0.0445	44.5			62.5%	10.0%
Nissan	All	All	1994	27.3	19.9	25.9	22.5	3249		144	143	11.2	1.008	0.0440	44.7			69.3%	12.2%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Nissan	Truck	All	1997	40.7%	59.3%			100.0%			53.8%	46.2%					46.2%	53.8%	
Nissan	Truck	All	1998	36.4%	63.6%			100.0%			54.7%		45.3%				45.3%	54.7%	
Nissan	Truck	All	1999	14.9%	85.1%			100.0%			83.3%		16.7%				26.5%	73.5%	
Nissan	Truck	All	2000	18.9%	81.1%			100.0%			80.4%		19.6%				38.6%	34.1%	27.3%
Nissan	Truck	All	2001	14.5%	85.5%			100.0%			45.5%		54.5%		40.6%		13.9%	66.7%	19.4%
Nissan	Truck	All	2002	14.6%	85.4%			100.0%			10.3%		89.7%		30.7%		14.8%	61.3%	23.9%
Nissan	Truck	All	2003	10.4%	75.0%	14.5%		100.0%			38.0%		62.0%		51.6%		10.4%	39.2%	50.3%
Nissan	Truck	All	2004	6.4%	84.8%	8.8%		100.0%			20.1%		79.9%		71.9%			40.6%	59.4%
Nissan	Truck	All	2005	3.2%	86.7%	10.1%		100.0%					100.0%		98.1%			16.4%	83.6%
Nissan	Truck	All	2006	4.5%	83.3%	12.2%		100.0%					100.0%		100.0%			14.5%	85.5%
Nissan	Truck	All	2007	3.8%	75.8%	20.4%		100.0%					100.0%		100.0%			19.6%	80.4%
Nissan	Truck	All	2008	1.9%	82.1%	16.0%		100.0%					100.0%		100.0%			32.0%	68.0%
Nissan	Truck	All	2009	1.5%	41.7%	56.8%		100.0%					100.0%		100.0%			31.3%	68.7%
Nissan	Truck	All	2010	1.8%	59.4%	38.8%		100.0%					100.0%		100.0%			29.2%	70.8%
Nissan	Truck	All	2011	1.5%	53.1%	45.4%	5.7%	94.3%					100.0%		100.0%			39.0%	61.0%
Nissan	Truck	All	2012	1.9%	28.8%	69.3%	2.4%	97.6%					100.0%		100.0%			56.5%	43.5%
Nissan	All	All	1975	81.3%				24.7%									100.0%		
Nissan	All	All	1976	77.7%				16.2%									100.0%		
Nissan	All	All	1977	74.8%				17.8%									100.0%		
Nissan	All	All	1978	74.2%				17.3%									100.0%		
Nissan	All	All	1979	75.9%				20.1%									100.0%		
Nissan	All	All	1980	75.6%				22.9%									100.0%		
Nissan	All	All	1981	71.1%	12.3%			29.6%		3.8%							100.0%		
Nissan	All	All	1982	64.1%	18.4%			27.6%		6.0%							100.0%		
Nissan	All	All	1983	66.3%	32.8%			25.1%		1.4%							100.0%		
Nissan	All	All	1984	66.3%	32.4%			42.0%		0.7%							100.0%		
Nissan	All	All	1985	60.8%	38.7%			36.8%		0.1%							100.0%		
Nissan	All	All	1986	67.8%	32.2%			31.5%	27.1%	0.0%	57.9%						93.8%	6.2%	
Nissan	All	All	1987	50.9%	49.1%			26.6%	42.2%		76.0%		1.7%				95.1%	4.9%	
Nissan	All	All	1988	53.7%	46.3%			26.6%	73.0%		71.6%		2.8%				92.2%	7.8%	
Nissan	All	All	1989	51.5%	48.5%			32.6%	67.4%		26.1%	50.3%	0.2%				80.7%	19.3%	
Nissan	All	All	1990	48.6%	51.4%			74.7%	25.3%		18.2%	21.5%	33.0%		1.8%		76.7%	23.3%	
Nissan	All	All	1991	44.1%	55.9%			99.5%	0.5%		17.6%	11.7%	41.4%		26.2%		74.2%	25.8%	
Nissan	All	All	1992	40.6%	59.4%			99.9%	0.1%		11.5%	12.3%	52.7%		40.5%		73.1%	26.9%	
Nissan	All	All	1993	34.2%	65.8%			100.0%			9.5%		58.0%		27.2%		75.0%	25.0%	
Nissan	All	All	1994	29.3%	70.7%			100.0%			39.4%		60.6%		34.7%		74.2%	25.8%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Nissan	All	All	1995	26.1	19.0	24.6	21.5	3381		156	153	10.8	0.999	0.0457	44.6			61.2%	13.7%
Nissan	All	All	1996	27.7	19.9	26.2	22.8	3280		152	154	10.6	1.032	0.0469	46.0			76.2%	7.9%
Nissan	All	All	1997	26.6	19.0	25.0	21.7	3375		155	154	10.8	1.009	0.0458	45.2			67.9%	13.3%
Nissan	All	All	1998	27.1	19.2	25.5	22.1	3510		155	155	11.1	1.018	0.0444	48.0			70.4%	14.2%
Nissan	All	All	1999	26.5	18.6	25.0	21.6	3570		161	159	11.0	1.008	0.0447	47.8			76.1%	13.0%
Nissan	All	All	2000	24.3	17.1	22.6	19.7	3701		172	176	10.5	1.033	0.0481	45.4			61.1%	16.6%
Nissan	All	All	2001	24.1	17.0	22.1	19.4	3710		173	182	10.3	1.062	0.0491	45.1			56.4%	19.8%
Nissan	All	All	2002	25.0	17.5	22.8	20.1	3680		177	191	9.9	1.086	0.0521	46.7			62.5%	16.7%
Nissan	All	All	2003	25.4	17.5	23.3	20.4	3694		187	213	9.1	1.140	0.0579	47.4			50.8%	18.4%
Nissan	All	All	2004	24.1	16.5	22.4	19.4	4058		210	228	9.3	1.106	0.0561	49.3			45.0%	23.4%
Nissan	All	All	2005	25.1	17.0	23.3	20.1	4034		204	228	9.2	1.134	0.0561	51.0			56.0%	21.4%
Nissan	All	All	2006	25.0	17.0	23.1	20.0	4037		204	229	9.2	1.142	0.0563	50.9			51.1%	21.4%
Nissan	All	All	2007	26.8	18.1	24.5	21.3	3959		197	223	9.3	1.145	0.0558	53.8			55.7%	22.0%
Nissan	All	All	2008	27.6	18.6	25.2	21.9	3926		191	227	9.3	1.179	0.0566	54.9			57.4%	20.8%
Nissan	All	All	2009	29.9	20.3	26.8	23.6	3730		175	208	9.5	1.180	0.0548	56.4			66.6%	23.3%
Nissan	All	All	2010	29.3	19.8	26.5	23.1	3817		182	212	9.5	1.167	0.0547	56.5			62.9%	23.8%
Nissan	All	All	2011	29.6	20.0	26.6	23.3	3838		179	212	9.6	1.196	0.0543	57.3			58.5%	29.6%
Nissan	All	All	2012	31.4	21.2	28.1	24.6	3676		167	203	9.7	1.212	0.0539	58.2			66.0%	21.7%
Chrysler-Fiat	Car	Car	1975	15.8	12.4	15.0	13.4	4032		284	135	14.1	0.493	0.0330	32.2			3.0%	
Chrysler-Fiat	Car	Car	1976	16.8	13.1	16.1	14.3	3972		282	133	14.2	0.486	0.0329	33.6			1.8%	
Chrysler-Fiat	Car	Car	1977	16.6	12.8	16.3	14.2	4055	108.1	290	136	14.2	0.496	0.0331	34.1	1860	3686	2.1%	
Chrysler-Fiat	Car	Car	1978	19.3	15.0	18.7	16.5	3597	103.6	244	122	13.9	0.549	0.0335	35.2	2098	3644	14.5%	
Chrysler-Fiat	Car	Car	1979	21.4	16.7	20.5	18.2	3332	104.1	214	109	14.2	0.564	0.0322	35.7	2300	3726	29.5%	
Chrysler-Fiat	Car	Car	1980	23.0	17.9	22.1	19.6	3028	100.2	179	88	15.5	0.550	0.0291	35.0	2380	3503	41.4%	4.3%
Chrysler-Fiat	Car	Car	1981	26.2	20.4	25.4	22.4	2819	101.3	156	91	14.2	0.624	0.0324	37.3	2752	3773	66.3%	2.2%
Chrysler-Fiat	Car	Car	1982	26.9	20.9	25.9	22.9	2944	103.6	168	94	14.3	0.604	0.0320	39.9	2877	4127	68.3%	3.3%
Chrysler-Fiat	Car	Car	1983	28.5	22.5	26.9	24.3	2836	103.8	155	90	14.5	0.620	0.0314	41.0	3092	4244	76.4%	3.9%
Chrysler-Fiat	Car	Car	1984	28.5	22.3	27.3	24.3	2789	103.3	144	92	14.3	0.673	0.0326	40.1	3047	4142	87.5%	2.1%
Chrysler-Fiat	Car	Car	1985	28.1	21.9	27.1	24.0	2875	105.6	151	106	13.0	0.746	0.0367	40.7	3040	4296	87.5%	
Chrysler-Fiat	Car	Car	1986	28.6	22.3	27.1	24.3	2870	105.1	147	105	13.1	0.747	0.0362	41.4	3079	4347	89.7%	
Chrysler-Fiat	Car	Car	1987	27.7	21.4	26.4	23.4	2889	105.1	153	107	12.9	0.736	0.0369	40.1	2954	4218	88.3%	
Chrysler-Fiat	Car	Car	1988	28.4	21.6	27.4	24.0	2958	106.0	153	110	12.9	0.736	0.0369	42.2	3054	4467	93.4%	
Chrysler-Fiat	Car	Car	1989	28.0	20.9	27.4	23.5	3077	106.7	152	112	13.0	0.745	0.0362	43.2	3021	4605	97.5%	
Chrysler-Fiat	Car	Car	1990	27.3	20.2	26.8	22.9	3215	106.2	161	124	12.5	0.784	0.0384	44.0	2920	4674	99.8%	
Chrysler-Fiat	Car	Car	1991	27.4	20.4	26.3	22.9	3189	106.4	161	126	12.3	0.795	0.0392	43.8	2941	4662	97.6%	2.0%
Chrysler-Fiat	Car	Car	1992	27.7	20.5	26.3	23.0	3172	105.4	163	126	12.3	0.786	0.0393	44.0	2938	4633	97.4%	2.3%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Nissan	All	All	1995	32.0%	68.0%			100.0%			39.7%		60.3%		33.1%		61.5%	38.5%	
Nissan	All	All	1996	31.1%	68.9%			100.0%			14.5%	13.1%	72.4%		53.1%		56.4%	43.6%	
Nissan	All	All	1997	22.5%	77.5%			100.0%			18.9%	16.3%	64.8%		41.6%		59.7%	40.3%	
Nissan	All	All	1998	20.7%	79.3%			100.0%			17.6%		82.4%		40.1%		59.7%	40.3%	
Nissan	All	All	1999	11.3%	88.7%			100.0%			24.8%		75.2%		35.2%		56.0%	44.0%	
Nissan	All	All	2000	13.2%	86.8%			100.0%			36.5%		63.5%		34.6%		49.5%	40.1%	10.4%
Nissan	All	All	2001	10.7%	89.3%			100.0%			24.9%		75.1%		47.0%		39.1%	53.0%	8.0%
Nissan	All	All	2002	12.3%	87.7%			100.0%			3.3%		96.7%		68.8%		22.1%	70.2%	7.7%
Nissan	All	All	2003	10.9%	82.1%	6.9%		100.0%			14.9%		85.1%		81.8%		28.1%	54.5%	17.4%
Nissan	All	All	2004	8.7%	84.7%	6.7%		100.0%			12.9%		87.1%		83.3%		26.1%	47.9%	26.1%
Nissan	All	All	2005	5.3%	88.2%	6.5%		100.0%					100.0%		99.3%		18.6%	47.8%	33.5%
Nissan	All	All	2006	5.4%	87.3%	7.2%		100.0%					100.0%		100.0%		21.0%	41.2%	37.8%
Nissan	All	All	2007	4.9%	43.3%	51.8%		100.0%					100.0%		100.0%	0.8%	2.8%	62.8%	34.4%
Nissan	All	All	2008	3.7%	42.6%	53.6%		100.0%					100.0%		100.0%	0.8%	9.3%	67.6%	23.1%
Nissan	All	All	2009	3.3%	28.3%	68.4%		100.0%					100.0%		100.0%	1.3%	8.8%	68.4%	22.9%
Nissan	All	All	2010	2.2%	32.9%	64.7%		100.0%					100.0%		100.0%		9.0%	68.0%	23.0%
Nissan	All	All	2011	2.0%	34.6%	63.4%	6.4%	93.6%					100.0%		100.0%	0.4%	13.7%	64.6%	21.7%
Nissan	All	All	2012	3.7%	23.4%	72.8%	4.5%	95.5%					100.0%		100.0%	0.2%	29.4%	56.9%	13.6%
Chrysler-Fiat	Car	Car	1975	13.3%													52.7%	29.8%	17.5%
Chrysler-Fiat	Car	Car	1976	12.8%													58.4%	29.5%	12.0%
Chrysler-Fiat	Car	Car	1977	12.0%				0.2%									48.3%	34.3%	17.4%
Chrysler-Fiat	Car	Car	1978	18.7%	53.3%			0.3%									60.4%	33.9%	5.7%
Chrysler-Fiat	Car	Car	1979	20.3%	47.2%			0.2%									48.4%	39.8%	11.9%
Chrysler-Fiat	Car	Car	1980	24.5%	40.0%			1.3%									65.5%	30.6%	3.8%
Chrysler-Fiat	Car	Car	1981	31.9%	14.2%			3.0%	0.8%								58.5%	40.0%	1.5%
Chrysler-Fiat	Car	Car	1982	21.2%	20.3%			2.0%	0.3%								45.3%	54.7%	
Chrysler-Fiat	Car	Car	1983	26.8%	16.6%			1.5%	15.4%								53.2%	46.8%	
Chrysler-Fiat	Car	Car	1984	28.6%	11.4%			10.2%	26.3%								61.6%	38.4%	
Chrysler-Fiat	Car	Car	1985	20.9%	13.7%			16.8%	30.7%								47.5%	52.5%	
Chrysler-Fiat	Car	Car	1986	20.3%	12.7%			19.1%	47.7%		99.9%		0.1%				44.9%	55.1%	
Chrysler-Fiat	Car	Car	1987	17.6%	30.2%			17.7%	43.2%		99.9%		0.1%				49.8%	50.2%	
Chrysler-Fiat	Car	Car	1988	14.2%	77.0%			27.5%	60.4%		99.9%		0.1%				52.7%	43.5%	3.8%
Chrysler-Fiat	Car	Car	1989	13.6%	78.1%			43.5%	54.8%		99.3%		0.7%				49.9%	46.1%	4.0%
Chrysler-Fiat	Car	Car	1990	13.9%	84.6%			61.6%	38.4%		91.9%		8.1%				51.4%	39.0%	9.6%
Chrysler-Fiat	Car	Car	1991	15.6%	83.5%			62.4%	37.6%		84.4%	6.7%	8.8%				46.5%	43.7%	9.8%
Chrysler-Fiat	Car	Car	1992	16.1%	83.3%			60.9%	39.1%		92.6%	5.2%	2.3%				54.1%	38.3%	7.6%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Chrysler-Fiat	Car	Car	1993	27.9	20.2	27.0	23.1	3179	108.2	169	133	11.9	0.789	0.0414	44.4	3036	4806	99.7%	0.1%
Chrysler-Fiat	Car	Car	1994	26.2	18.8	25.8	21.8	3361	111.6	180	146	11.6	0.802	0.0427	44.1	2941	4928	99.6%	
Chrysler-Fiat	Car	Car	1995	28.1	19.9	27.9	23.3	3206	108.8	157	153	10.4	0.999	0.0475	45.1	3088	4914	99.0%	0.7%
Chrysler-Fiat	Car	Car	1996	27.2	19.0	27.3	22.5	3333	110.2	158	164	10.1	1.070	0.0495	45.3	3023	5007	99.5%	0.2%
Chrysler-Fiat	Car	Car	1997	27.1	18.7	27.5	22.4	3355	110.5	159	163	10.3	1.034	0.0483	45.6	3027	5047	99.5%	0.2%
Chrysler-Fiat	Car	Car	1998	28.3	19.3	28.4	23.3	3230	107.9	144	154	10.4	1.070	0.0476	45.8	3080	4946	99.7%	0.1%
Chrysler-Fiat	Car	Car	1999	26.9	18.3	27.0	22.1	3516	113.2	163	185	9.8	1.128	0.0523	47.4	3071	5390	99.1%	
Chrysler-Fiat	Car	Car	2000	27.6	18.9	26.8	22.5	3394	112.2	154	173	10.0	1.117	0.0505	46.8	3114	5268	99.4%	
Chrysler-Fiat	Car	Car	2001	27.8	19.0	26.6	22.5	3439	111.1	160	183	9.7	1.135	0.0527	47.9	3109	5330	99.0%	
Chrysler-Fiat	Car	Car	2002	27.4	18.6	26.2	22.1	3467	111.5	162	204	9.1	1.248	0.0582	47.6	3077	5313	99.1%	
Chrysler-Fiat	Car	Car	2003	29.7	20.1	27.7	23.8	3320	109.2	151	172	10.0	1.134	0.0511	49.6	3284	5427	98.8%	
Chrysler-Fiat	Car	Car	2004	28.7	19.3	26.7	22.9	3427	107.5	159	183	9.6	1.152	0.0530	49.3	3114	5317	95.8%	2.5%
Chrysler-Fiat	Car	Car	2005	28.0	18.7	26.0	22.3	3519	108.5	177	200	9.3	1.145	0.0558	49.3	3078	5386	66.2%	1.1%
Chrysler-Fiat	Car	Car	2006	25.5	17.0	24.3	20.5	3935	119.6	226	249	8.5	1.130	0.0626	50.4	3074	6046	31.0%	2.9%
Chrysler-Fiat	Car	Car	2007	28.0	18.9	25.6	22.2	3768	113.2	185	219	8.9	1.237	0.0572	53.2	3224	6023	58.1%	5.6%
Chrysler-Fiat	Car	Car	2008	28.1	18.7	26.2	22.4	3791	113.1	180	206	9.7	1.165	0.0537	53.7	3229	6072	60.7%	2.9%
Chrysler-Fiat	Car	Car	2009	27.4	18.3	25.7	21.9	3875	115.4	200	228	9.2	1.170	0.0577	53.6	3238	6199	45.2%	1.9%
Chrysler-Fiat	Car	Car	2010	27.1	17.9	25.9	21.8	3906	115.7	207	238	8.8	1.157	0.0601	53.3	3190	6170	36.9%	2.1%
Chrysler-Fiat	Car	Car	2011	27.5	17.8	27.5	22.3	3954	114.8	223	273	8.0	1.235	0.0682	54.7	3206	6288	51.0%	2.3%
Chrysler-Fiat	Car	Car	2012	30.7	20.1	29.6	24.6	3607	107.7	181	219	9.4	1.211	0.0581	55.6	3347	5996	72.8%	2.6%
Chrysler-Fiat	Car	Wagon	1975	16.2	12.5	15.8	13.8	4167		283	150	13.2	0.611	0.0357	33.5			2.9%	
Chrysler-Fiat	Car	Wagon	1976	17.1	13.5	16.2	14.6	4101		275	128	15.0	0.475	0.0307	35.6			1.1%	
Chrysler-Fiat	Car	Wagon	1977	16.7	13.2	15.6	14.2	4126	139.5	278	122	15.7	0.441	0.0293	34.6	2353	4827	0.8%	
Chrysler-Fiat	Car	Wagon	1978	17.9	14.0	17.1	15.3	3918	133.9	255	124	14.4	0.513	0.0317	35.2	2428	4731		
Chrysler-Fiat	Car	Wagon	1979	18.4	14.5	17.4	15.7	3871	133.6	257	118	15.1	0.465	0.0306	35.6	2466	4765		
Chrysler-Fiat	Car	Wagon	1980	19.3	15.0	18.6	16.5	3768	132.4	240	101	16.5	0.434	0.0271	36.4	2565	4825		
Chrysler-Fiat	Car	Wagon	1981	25.1	19.6	24.0	21.4	2941	130.0	169	98	13.7	0.604	0.0336	36.9	3307	4796	78.7%	
Chrysler-Fiat	Car	Wagon	1982	27.2	21.3	26.0	23.2	2925	129.6	157	95	14.1	0.624	0.0324	39.9	3558	5165	87.8%	
Chrysler-Fiat	Car	Wagon	1983	27.4	21.9	25.2	23.3	2902	130.7	150	95	13.9	0.643	0.0328	40.0	3630	5232	94.6%	
Chrysler-Fiat	Car	Wagon	1984	28.1	22.2	26.4	23.9	2808	130.0	140	92	13.9	0.661	0.0329	39.5	3664	5134	100.0%	
Chrysler-Fiat	Car	Wagon	1985	27.0	21.3	25.3	22.9	3004	129.7	141	102	13.6	0.728	0.0340	40.6	3511	5263	98.8%	1.2%
Chrysler-Fiat	Car	Wagon	1986	26.7	21.1	24.7	22.6	3105	126.6	158	100	14.2	0.652	0.0323	41.6	3451	5280	88.1%	11.9%
Chrysler-Fiat	Car	Wagon	1987	26.8	20.9	25.1	22.6	3077	127.6	155	100	14.2	0.659	0.0325	41.3	3463	5273	91.5%	8.5%
Chrysler-Fiat	Car	Wagon	1988	29.1	22.4	27.3	24.5	2942	126.8	139	94	14.3	0.695	0.0319	43.0	3729	5448	96.6%	3.4%
Chrysler-Fiat	Car	Wagon	1989	31.0	24.1	28.2	25.9	2779	116.9	102	87	14.4	0.864	0.0313	43.2	3632	5035	75.6%	24.4%
Chrysler-Fiat	Car	Wagon	1990	32.5	25.5	28.7	26.9	2706	111.2	93	82	14.7	0.882	0.0305	44.0	3624	4890	79.7%	20.3%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Chrysler-Fiat	Car	Car	1993	12.4%	86.4%			66.7%	33.3%		81.1%	3.5%	15.5%				46.1%	29.9%	24.0%
Chrysler-Fiat	Car	Car	1994	7.6%	92.1%			71.0%	29.0%		71.8%	1.2%	27.1%				37.0%	19.0%	44.0%
Chrysler-Fiat	Car	Car	1995	14.0%	85.9%			97.1%	2.9%		24.3%	0.2%	75.4%	0.1%	0.1%		54.1%	16.7%	29.2%
Chrysler-Fiat	Car	Car	1996	9.7%	90.3%			100.0%			11.8%	0.0%	88.1%	0.0%	0.0%		45.9%	23.6%	30.6%
Chrysler-Fiat	Car	Car	1997	7.8%	92.2%			100.0%			7.4%		92.6%	0.1%	0.1%		43.0%	25.3%	31.7%
Chrysler-Fiat	Car	Car	1998	7.7%	92.3%			100.0%			0.2%		99.8%	0.1%	0.1%		50.6%	31.8%	17.6%
Chrysler-Fiat	Car	Car	1999	3.0%	96.9%			100.0%			0.2%		99.7%	0.2%	0.2%		28.3%	25.4%	46.4%
Chrysler-Fiat	Car	Car	2000	3.7%	96.3%			100.0%			0.2%		99.7%	0.1%	0.1%		41.0%	22.3%	36.7%
Chrysler-Fiat	Car	Car	2001	3.7%	96.3%			100.0%			0.3%		99.6%	0.1%	0.2%		41.6%	24.4%	34.0%
Chrysler-Fiat	Car	Car	2002	4.3%	95.7%			100.0%			0.3%		99.6%	0.1%	0.4%		37.7%	27.7%	34.6%
Chrysler-Fiat	Car	Car	2003	7.4%	92.6%			100.0%			0.6%		99.1%	0.3%	0.6%		51.2%	24.8%	24.0%
Chrysler-Fiat	Car	Car	2004	5.5%	94.5%			100.0%				3.4%	96.2%	0.4%	0.4%		39.9%	38.3%	21.8%
Chrysler-Fiat	Car	Car	2005	6.3%	93.4%			100.0%			10.5%	4.4%	85.0%	0.0%	0.7%		47.5%	23.8%	28.7%
Chrysler-Fiat	Car	Car	2006	1.0%	98.6%			100.0%			27.2%	1.2%	71.3%		0.7%		9.3%	23.6%	67.1%
Chrysler-Fiat	Car	Car	2007	2.3%	58.3%	39.3%		100.0%			14.4%	0.8%	84.8%		55.7%		44.5%	18.3%	37.2%
Chrysler-Fiat	Car	Car	2008	1.8%	81.9%	15.8%		100.0%			6.2%	0.3%	93.5%		46.5%		10.1%	54.2%	35.7%
Chrysler-Fiat	Car	Car	2009	5.7%	74.5%	18.6%	0.0%	100.0%			18.2%		81.8%		57.1%		17.1%	43.0%	39.9%
Chrysler-Fiat	Car	Car	2010	3.8%	95.2%		0.5%	99.5%			13.4%		86.6%		44.3%		19.7%	34.9%	45.4%
Chrysler-Fiat	Car	Car	2011	2.1%	97.2%		0.6%	99.4%			17.6%		82.4%		84.5%		17.6%	46.6%	35.8%
Chrysler-Fiat	Car	Car	2012	5.9%	93.4%		0.4%	99.6%			12.3%		87.7%		98.4%		26.1%	53.1%	20.8%
Chrysler-Fiat	Car	Wagon	1975	10.9%													44.7%	37.7%	17.6%
Chrysler-Fiat	Car	Wagon	1976	14.3%													17.8%	73.6%	8.6%
Chrysler-Fiat	Car	Wagon	1977	6.8%													15.0%	73.3%	11.7%
Chrysler-Fiat	Car	Wagon	1978	12.2%	35.3%												27.4%	71.2%	1.4%
Chrysler-Fiat	Car	Wagon	1979	5.3%	32.6%												23.3%	76.7%	
Chrysler-Fiat	Car	Wagon	1980	10.7%	84.0%												35.1%	64.9%	
Chrysler-Fiat	Car	Wagon	1981	15.6%	15.3%												13.9%	86.1%	
Chrysler-Fiat	Car	Wagon	1982	12.4%	11.0%												12.2%	87.8%	
Chrysler-Fiat	Car	Wagon	1983	7.7%	5.2%												5.4%	94.6%	
Chrysler-Fiat	Car	Wagon	1984	5.0%														100.0%	
Chrysler-Fiat	Car	Wagon	1985	2.7%				3.9%	39.1%								1.2%	98.8%	
Chrysler-Fiat	Car	Wagon	1986	1.6%				3.7%	84.4%		100.0%						11.9%	88.1%	
Chrysler-Fiat	Car	Wagon	1987	0.8%	57.9%			4.6%	86.8%		100.0%						8.5%	91.5%	
Chrysler-Fiat	Car	Wagon	1988	7.8%	78.8%			28.7%	67.9%		100.0%						21.4%	78.6%	
Chrysler-Fiat	Car	Wagon	1989	36.0%	45.9%			100.0%			100.0%						82.0%	18.0%	
Chrysler-Fiat	Car	Wagon	1990	36.7%	63.3%			100.0%			100.0%						100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Chrysler-Fiat	Car	Wagon	1991																
Chrysler-Fiat	Car	Wagon	1992																
Chrysler-Fiat	Car	Wagon	1993	27.4	20.2	25.8	22.7	3063	131.1	129	126	11.7	0.977	0.0411	42.0	3602	5506	100.0%	
Chrysler-Fiat	Car	Wagon	1994																
Chrysler-Fiat	Car	Wagon	1995																
Chrysler-Fiat	Car	Wagon	1996																
Chrysler-Fiat	Car	Wagon	1997																
Chrysler-Fiat	Car	Wagon	1998																
Chrysler-Fiat	Car	Wagon	1999																
Chrysler-Fiat	Car	Wagon	2000																
Chrysler-Fiat	Car	Wagon	2001	27.0	18.8	25.0	21.8	3500	120.0	148	147	11.4	0.993	0.0420	47.3	3244	5676	100.0%	
Chrysler-Fiat	Car	Wagon	2002	25.4	17.5	23.8	20.5	3500	120.0	148	150	11.2	1.014	0.0429	44.5	3053	5343	100.0%	
Chrysler-Fiat	Car	Wagon	2003	25.6	17.6	23.7	20.6	3500	120.0	148	156	10.9	1.054	0.0446	44.9	3078	5387	100.0%	
Chrysler-Fiat	Car	Wagon	2004	24.6	16.8	22.7	19.7	4115	141.8	180	234	8.9	1.327	0.0578	50.3	3466	7179	73.9%	26.1%
Chrysler-Fiat	Car	Wagon	2005	24.1	16.2	22.6	19.3	4206	141.6	202	242	8.8	1.240	0.0581	50.5	3404	7193	57.1%	18.2%
Chrysler-Fiat	Car	Wagon	2006	25.2	17.0	23.3	20.1	3978	136.6	184	236	8.7	1.322	0.0599	50.0	3429	6850	73.1%	10.7%
Chrysler-Fiat	Car	Wagon	2007	25.0	16.8	23.5	20.0	3961	123.3	190	234	8.7	1.284	0.0597	49.3	3042	6116	79.5%	10.2%
Chrysler-Fiat	Car	Wagon	2008	26.0	17.6	23.9	20.7	3781	114.3	168	221	8.8	1.364	0.0590	49.1	2947	5639	79.0%	5.7%
Chrysler-Fiat	Car	Wagon	2009	27.6	18.9	24.5	21.8	3500	120.0	144	220	8.3	1.528	0.0629	48.3	3310	5793	100.0%	
Chrysler-Fiat	Car	Wagon	2010	31.3	21.8	26.6	24.3	3491	111.1	127	157	10.9	1.241	0.0449	54.8	3498	6105	100.0%	
Chrysler-Fiat	Car	Wagon	2011	32.5	22.7	27.4	25.2	3472	112.2	123	159	10.7	1.290	0.0458	56.4	3650	6330	100.0%	
Chrysler-Fiat	Car	Wagon	2012	32.6	22.7	27.5	25.2	3461	112.2	124	159	10.6	1.286	0.0460	56.3	3655	6319	100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1975	14.5	11.5	13.6	12.4	4000		303	139	13.5	0.458	0.0347	29.5				
Chrysler-Fiat	Car	Non-Truck SUV	1976	16.5	12.5	16.6	14.1	4000		298	139	13.5	0.466	0.0348	33.2				
Chrysler-Fiat	Car	Non-Truck SUV	1977	16.4	12.9	15.5	13.9	4000	125.0	276	128	14.7	0.459	0.0319	32.9	2056	4112		
Chrysler-Fiat	Car	Non-Truck SUV	1978	16.4	13.2	14.9	13.9	4000	125.0	296	137	13.6	0.465	0.0343	33.0	2061	4121		
Chrysler-Fiat	Car	Non-Truck SUV	1979	20.3	17.1	17.4	17.2	2837	101.7	133	84	15.3	0.647	0.0294	28.8	2071	2936		
Chrysler-Fiat	Car	Non-Truck SUV	1980	17.6	14.3	15.9	15.0	4000	125.0	279	123	15.0	0.442	0.0308	35.4	2212	4425		
Chrysler-Fiat	Car	Non-Truck SUV	1981	17.3	13.7	16.1	14.7	4000	125.0	318	140	13.3	0.440	0.0350	34.5	2158	4315		
Chrysler-Fiat	Car	Non-Truck SUV	1982	23.6	20.7	19.1	19.9	2500	100.0	151	84	13.7	0.556	0.0336	29.5	2363	2954		
Chrysler-Fiat	Car	Non-Truck SUV	1983	23.2	20.4	18.7	19.6	2500	100.0	151	87	13.3	0.580	0.0350	29.0	2321	2901		
Chrysler-Fiat	Car	Non-Truck SUV	1984	18.4	15.8	15.3	15.6	3472	116.2	220	105	14.7	0.500	0.0312	31.6	2150	3703		
Chrysler-Fiat	Car	Non-Truck SUV	1985	23.4	18.6	21.9	19.9	3000	125.0	158	107	13.0	0.678	0.0356	35.5	2955	4433		
Chrysler-Fiat	Car	Non-Truck SUV	1986	22.7	18.0	20.9	19.2	3405	125.0	164	116	13.5	0.710	0.0341	38.9	2863	4858		
Chrysler-Fiat	Car	Non-Truck SUV	1987	21.1	16.0	20.8	17.9	3424	125.0	223	159	10.6	0.719	0.0463	36.5	2681	4567		
Chrysler-Fiat	Car	Non-Truck SUV	1988	21.1	15.9	20.9	17.9	3464	125.0	232	167	10.3	0.722	0.0482	36.8	2660	4596		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Chrysler-Fiat	Car	Wagon	1991																
Chrysler-Fiat	Car	Wagon	1992																
Chrysler-Fiat	Car	Wagon	1993	13.3%	86.7%			100.0%			55.7%		44.3%					100.0%	
Chrysler-Fiat	Car	Wagon	1994																
Chrysler-Fiat	Car	Wagon	1995																
Chrysler-Fiat	Car	Wagon	1996																
Chrysler-Fiat	Car	Wagon	1997																
Chrysler-Fiat	Car	Wagon	1998																
Chrysler-Fiat	Car	Wagon	1999																
Chrysler-Fiat	Car	Wagon	2000																
Chrysler-Fiat	Car	Wagon	2001	13.4%	86.6%			100.0%					100.0%				100.0%		
Chrysler-Fiat	Car	Wagon	2002	13.1%	86.9%			100.0%					100.0%				100.0%		
Chrysler-Fiat	Car	Wagon	2003	12.1%	87.9%			100.0%					100.0%				100.0%		
Chrysler-Fiat	Car	Wagon	2004	4.1%	95.9%			100.0%					100.0%				51.5%		48.5%
Chrysler-Fiat	Car	Wagon	2005	2.5%	97.5%			100.0%			15.3%		84.7%				32.9%	26.9%	40.2%
Chrysler-Fiat	Car	Wagon	2006	3.0%	97.0%			100.0%			5.0%		95.0%				50.6%	17.8%	31.6%
Chrysler-Fiat	Car	Wagon	2007	1.7%	98.3%			100.0%			7.3%		92.7%				54.4%	11.0%	34.6%
Chrysler-Fiat	Car	Wagon	2008	1.7%	98.3%			100.0%			4.1%		95.9%				67.4%	19.9%	12.7%
Chrysler-Fiat	Car	Wagon	2009	2.6%	97.4%			100.0%					100.0%				100.0%		
Chrysler-Fiat	Car	Wagon	2010	1.9%	19.4%	78.7%		100.0%					100.0%		80.6%		100.0%		
Chrysler-Fiat	Car	Wagon	2011	5.9%		94.1%		100.0%					100.0%		100.0%		100.0%		
Chrysler-Fiat	Car	Wagon	2012	7.7%		92.3%		100.0%					100.0%		100.0%		100.0%		
Chrysler-Fiat	Car	Non-Truck SUV	1975	19.9%														100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1976	17.3%														100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1977	13.3%														100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1978	12.9%														100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1979	0.7%	6.3%												93.0%	7.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1980		100.0%													100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1981		100.0%													100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1982														100.0%		
Chrysler-Fiat	Car	Non-Truck SUV	1983														100.0%		
Chrysler-Fiat	Car	Non-Truck SUV	1984														35.2%	64.8%	
Chrysler-Fiat	Car	Non-Truck SUV	1985	39.2%	60.8%													100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1986	33.4%	66.6%				39.1%	0.1%	100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1987	27.5%	72.5%			79.3%	20.7%		100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1988	18.7%	81.3%			89.6%	10.4%		100.0%							100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Chrysler-Fiat	Car	Non-Truck SUV	1989	20.9	15.5	20.6	17.6	3481	125.0	237	174	10.0	0.734	0.0499	36.4	2613	4544		
Chrysler-Fiat	Car	Non-Truck SUV	1990	21.2	15.7	20.8	17.8	3474	125.0	237	173	10.0	0.734	0.0499	36.8	2654	4604		
Chrysler-Fiat	Car	Non-Truck SUV	1991	20.6	15.1	20.4	17.3	3486	125.0	239	179	9.7	0.747	0.0512	36.0	2582	4498		
Chrysler-Fiat	Car	Non-Truck SUV	1992	20.6	15.1	20.2	17.3	3492	125.0	240	189	9.3	0.786	0.0541	36.1	2584	4510		
Chrysler-Fiat	Car	Non-Truck SUV	1993	19.3	14.0	19.0	16.1	3904	125.0	264	197	9.9	0.753	0.0505	37.7	2416	4708		
Chrysler-Fiat	Car	Non-Truck SUV	1994	20.9	15.1	20.6	17.4	3668	125.0	236	186	9.8	0.791	0.0508	38.4	2623	4799		
Chrysler-Fiat	Car	Non-Truck SUV	1995	19.5	14.0	19.0	16.2	3763	125.0	242	190	9.9	0.785	0.0507	36.6	2434	4571		
Chrysler-Fiat	Car	Non-Truck SUV	1996	20.7	14.8	20.2	17.1	3738	125.0	238	187	9.9	0.789	0.0502	38.7	2593	4835		
Chrysler-Fiat	Car	Non-Truck SUV	1997	20.4	14.5	19.8	16.9	3882	125.0	248	188	10.2	0.762	0.0487	39.6	2553	4951		
Chrysler-Fiat	Car	Non-Truck SUV	1998	20.8	14.6	20.1	17.1	3836	125.0	244	187	10.2	0.768	0.0490	39.9	2600	4983		
Chrysler-Fiat	Car	Non-Truck SUV	1999	21.6	15.2	20.7	17.7	3830	125.0	240	192	9.9	0.799	0.0502	41.4	2703	5175		
Chrysler-Fiat	Car	Non-Truck SUV	2000	21.1	14.8	20.0	17.2	3913	125.0	247	199	9.9	0.804	0.0508	41.3	2638	5158		
Chrysler-Fiat	Car	Non-Truck SUV	2001	21.1	14.6	20.1	17.2	3846	125.0	247	197	9.8	0.799	0.0514	40.5	2634	5067		
Chrysler-Fiat	Car	Non-Truck SUV	2002	20.2	13.9	19.3	16.5	4000	125.0	244	198	10.1	0.811	0.0494	40.4	2522	5044		
Chrysler-Fiat	Car	Non-Truck SUV	2003	22.0	15.4	20.1	17.7	4000	125.0	232	204	9.8	0.885	0.0511	44.0	2753	5506		
Chrysler-Fiat	Car	Non-Truck SUV	2004	22.5	15.3	21.2	18.2	4000	125.0	224	209	9.6	0.932	0.0522	45.0	2815	5631		
Chrysler-Fiat	Car	Non-Truck SUV	2005	22.1	15.1	20.3	17.7	4000	125.0	224	209	9.6	0.931	0.0521	44.2	2763	5526		
Chrysler-Fiat	Car	Non-Truck SUV	2006	22.4	15.2	21.0	18.0	4000	125.0	226	210	9.6	0.929	0.0525	44.7	2796	5592		
Chrysler-Fiat	Car	Non-Truck SUV	2007	23.1	15.7	21.5	18.5	4000	122.8	227	208	9.6	0.919	0.0521	46.2	2838	5676		
Chrysler-Fiat	Car	Non-Truck SUV	2008																
Chrysler-Fiat	Car	Non-Truck SUV	2009	27.3	18.5	24.8	21.7	4000	150.0	144	173	11.2	1.201	0.0433	54.6	4096	8192	100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	2010	27.8	18.9	25.1	22.0	4000	150.0	146	173	11.2	1.185	0.0433	55.6	4171	8341	100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	2011																
Chrysler-Fiat	Car	Non-Truck SUV	2012																
Chrysler-Fiat	Truck	Van	1975	12.6	10.3	11.2	10.7	4263		313	145	13.7	0.462	0.0340	27.4				
Chrysler-Fiat	Truck	Van	1976	14.2	11.1	13.4	12.1	4326		314	149	13.7	0.472	0.0344	30.8				
Chrysler-Fiat	Truck	Van	1977	13.8	11.0	12.6	11.7	4404		327	155	13.4	0.473	0.0352	30.5				
Chrysler-Fiat	Truck	Van	1978	13.4	10.9	12.1	11.4	4387		327	151	13.5	0.462	0.0344	29.7				
Chrysler-Fiat	Truck	Van	1979	13.8	11.3	12.3	11.7	4450		321	145	14.2	0.451	0.0326	31.0				
Chrysler-Fiat	Truck	Van	1980	16.6	13.3	15.1	14.1	4137		278	125	15.1	0.449	0.0302	34.6				
Chrysler-Fiat	Truck	Van	1981	17.4	14.0	16.0	14.8	4050		271	119	15.6	0.437	0.0293	35.6			1.6%	
Chrysler-Fiat	Truck	Van	1982	17.7	14.1	16.3	15.0	4031		276	123	15.1	0.442	0.0303	35.9				
Chrysler-Fiat	Truck	Van	1983	18.0	14.4	16.6	15.3	4099		270	118	15.9	0.434	0.0286	37.3				
Chrysler-Fiat	Truck	Van	1984	20.2	16.0	19.0	17.2	3679		201	108	15.3	0.582	0.0295	38.4			60.6%	
Chrysler-Fiat	Truck	Van	1985	21.0	16.8	19.4	17.8	3645		189	111	14.9	0.625	0.0303	38.9			73.2%	0.8%
Chrysler-Fiat	Truck	Van	1986	22.0	17.3	20.5	18.6	3674		186	109	15.2	0.619	0.0295	40.8			72.4%	3.8%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Chrysler-Fiat	Car	Non-Truck SUV	1989	16.4%	83.6%			94.9%	5.1%		100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1990	16.4%	83.6%			94.1%	5.9%		100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1991	15.4%	84.6%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1992	16.6%	83.4%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1993	2.9%	97.1%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1994	13.2%	86.8%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1995	4.5%	95.5%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1996	8.3%	91.7%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1997	2.8%	97.2%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1998	3.5%	96.5%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	1999	2.6%	97.4%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	2000	0.6%	99.4%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	2001	0.4%	99.6%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	2002		100.0%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	2003	3.1%	96.9%			100.0%			98.0%		2.0%					100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	2004	5.3%	94.7%			100.0%			97.7%		2.3%					100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	2005	3.5%	96.5%			100.0%			97.6%		2.4%					100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	2006	3.1%	96.9%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Non-Truck SUV	2007	11.8%	88.2%			100.0%			100.0%						8.9%	91.1%	
Chrysler-Fiat	Car	Non-Truck SUV	2008																
Chrysler-Fiat	Car	Non-Truck SUV	2009		100.0%			100.0%					100.0%		99.7%				100.0%
Chrysler-Fiat	Car	Non-Truck SUV	2010		100.0%			100.0%					100.0%		100.0%				100.0%
Chrysler-Fiat	Car	Non-Truck SUV	2011																
Chrysler-Fiat	Car	Non-Truck SUV	2012																
Chrysler-Fiat	Truck	Van	1975	16.0%														100.0%	
Chrysler-Fiat	Truck	Van	1976	15.1%														100.0%	
Chrysler-Fiat	Truck	Van	1977	10.4%														100.0%	
Chrysler-Fiat	Truck	Van	1978	11.1%														100.0%	
Chrysler-Fiat	Truck	Van	1979	11.2%	22.9%													100.0%	
Chrysler-Fiat	Truck	Van	1980	21.4%	59.6%													88.9%	11.1%
Chrysler-Fiat	Truck	Van	1981	21.2%	69.6%													93.9%	6.1%
Chrysler-Fiat	Truck	Van	1982	17.1%	52.5%													94.5%	5.5%
Chrysler-Fiat	Truck	Van	1983	20.2%	34.3%													95.9%	4.1%
Chrysler-Fiat	Truck	Van	1984	20.6%	11.9%												5.8%	91.6%	2.6%
Chrysler-Fiat	Truck	Van	1985	11.0%	6.5%												5.7%	92.9%	1.5%
Chrysler-Fiat	Truck	Van	1986	10.9%	20.1%												10.2%	88.3%	1.5%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Chrysler-Fiat	Truck	Van	1987	22.3	17.3	21.0	18.9	3707		193	125	13.9	0.677	0.0337	41.8			74.3%	2.9%
Chrysler-Fiat	Truck	Van	1988	23.0	17.6	22.0	19.4	3798		189	134	13.4	0.729	0.0353	43.9			86.3%	1.5%
Chrysler-Fiat	Truck	Van	1989	22.6	17.3	21.4	19.0	3825		187	132	13.6	0.730	0.0344	43.7			84.3%	1.0%
Chrysler-Fiat	Truck	Van	1990	23.0	17.2	22.1	19.3	3876		200	142	12.9	0.721	0.0366	44.8			87.1%	0.2%
Chrysler-Fiat	Truck	Van	1991	22.8	17.2	21.5	19.0	3972		199	142	13.2	0.721	0.0355	45.6			83.8%	5.4%
Chrysler-Fiat	Truck	Van	1992	22.7	16.9	21.5	18.9	3970		198	144	13.1	0.733	0.0360	45.4			86.8%	2.7%
Chrysler-Fiat	Truck	Van	1993	23.6	17.4	22.6	19.7	3823		194	144	12.6	0.748	0.0377	45.3			93.1%	2.1%
Chrysler-Fiat	Truck	Van	1994	22.4	16.5	21.2	18.6	3971		208	153	12.4	0.740	0.0383	44.8			80.1%	2.7%
Chrysler-Fiat	Truck	Van	1995	23.0	16.8	21.8	19.0	3837		201	154	12.0	0.770	0.0400	44.5			85.9%	1.7%
Chrysler-Fiat	Truck	Van	1996	22.8	16.3	21.9	18.8	4156		208	162	12.2	0.792	0.0390	47.6			90.8%	0.0%
Chrysler-Fiat	Truck	Van	1997	22.7	16.1	21.8	18.7	4152		208	161	12.3	0.783	0.0387	47.3			86.1%	2.6%
Chrysler-Fiat	Truck	Van	1998	23.3	16.3	22.7	19.2	4141		203	164	12.1	0.815	0.0394	48.4			90.4%	2.6%
Chrysler-Fiat	Truck	Van	1999	23.0	16.0	22.3	18.8	4169		208	165	12.0	0.805	0.0395	48.0			88.1%	2.6%
Chrysler-Fiat	Truck	Van	2000	23.4	16.2	22.6	19.1	4156		204	163	12.1	0.810	0.0393	48.9			89.7%	2.4%
Chrysler-Fiat	Truck	Van	2001	23.4	16.2	22.2	19.0	4430		213	190	11.3	0.898	0.0429	52.0			88.6%	3.6%
Chrysler-Fiat	Truck	Van	2002	23.8	16.4	22.6	19.3	4373		210	189	11.3	0.904	0.0431	52.4			91.7%	2.3%
Chrysler-Fiat	Truck	Van	2003	24.5	16.7	23.0	19.7	4286		213	191	11.0	0.901	0.0444	52.6			92.7%	2.1%
Chrysler-Fiat	Truck	Van	2004	24.5	16.4	23.4	19.8	4382		211	193	11.1	0.913	0.0441	53.6			98.0%	2.0%
Chrysler-Fiat	Truck	Van	2005	24.3	16.2	23.2	19.6	4285		214	196	10.7	0.914	0.0456	52.0			100.0%	
Chrysler-Fiat	Truck	Van	2006	24.4	16.2	23.4	19.7	4361		213	191	11.1	0.895	0.0437	53.1			100.0%	
Chrysler-Fiat	Truck	Van	2007	23.8	15.8	23.0	19.2	4401		216	193	11.1	0.893	0.0438	52.4			100.0%	
Chrysler-Fiat	Truck	Van	2008	24.4	16.3	23.5	19.7	4554		221	179	12.2	0.809	0.0392	55.7			100.0%	
Chrysler-Fiat	Truck	Van	2009	24.6	16.3	23.6	19.8	4577		220	195	11.4	0.889	0.0424	56.4			100.0%	
Chrysler-Fiat	Truck	Van	2010	24.4	16.2	23.5	19.7	4580		226	200	11.2	0.883	0.0436	56.0			100.0%	
Chrysler-Fiat	Truck	Van	2011	25.7	17.0	25.0	20.8	4500		220	283	8.3	1.286	0.0629	57.9			100.0%	
Chrysler-Fiat	Truck	Van	2012	25.9	17.1	25.1	20.9	4500		220	283	8.3	1.286	0.0629	58.4			100.0%	
Chrysler-Fiat	Truck	Truck SUV	1975	14.6	11.6	13.6	12.5	3555		317	138	12.3	0.431	0.0397	25.8				99.8%
Chrysler-Fiat	Truck	Truck SUV	1976	15.0	12.1	13.6	12.7	3595		321	132	12.8	0.406	0.0368	26.7				99.8%
Chrysler-Fiat	Truck	Truck SUV	1977	15.8	12.7	14.6	13.5	3631		325	134	12.7	0.408	0.0371	28.5				99.7%
Chrysler-Fiat	Truck	Truck SUV	1978	15.6	12.5	14.3	13.2	3608		323	131	12.8	0.401	0.0365	27.8				99.7%
Chrysler-Fiat	Truck	Truck SUV	1979	15.1	12.4	13.4	12.9	3646		297	129	13.0	0.436	0.0359	27.5				88.7%
Chrysler-Fiat	Truck	Truck SUV	1980	16.8	13.6	15.2	14.3	3507		266	111	14.3	0.429	0.0315	29.7				99.8%
Chrysler-Fiat	Truck	Truck SUV	1981	18.4	14.7	17.1	15.7	3502		261	114	13.9	0.450	0.0328	32.4				99.0%
Chrysler-Fiat	Truck	Truck SUV	1982	17.7	14.0	16.8	15.1	3742		284	121	14.0	0.431	0.0326	33.2				97.0%
Chrysler-Fiat	Truck	Truck SUV	1983	17.7	14.1	16.4	15.0	3676		288	123	13.5	0.432	0.0341	32.5				98.4%
Chrysler-Fiat	Truck	Truck SUV	1984	18.3	14.6	16.8	15.5	3646		238	118	14.0	0.527	0.0325	33.8				97.4%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Chrysler-Fiat	Truck	Van	1987	8.1%	55.2%			39.5%	0.2%								9.1%	89.7%	1.2%
Chrysler-Fiat	Truck	Van	1988	4.3%	78.1%			69.8%	29.6%								3.9%	95.1%	1.1%
Chrysler-Fiat	Truck	Van	1989	3.3%	62.2%			62.3%	37.7%								2.8%	96.3%	0.9%
Chrysler-Fiat	Truck	Van	1990	1.7%	95.4%			76.4%	23.6%								0.4%	98.7%	0.9%
Chrysler-Fiat	Truck	Van	1991	1.3%	98.0%			77.9%	22.1%								2.6%	96.9%	0.6%
Chrysler-Fiat	Truck	Van	1992	1.7%	96.4%			89.2%	10.8%								3.2%	96.2%	0.6%
Chrysler-Fiat	Truck	Van	1993	1.2%	98.1%			92.0%	8.0%								1.2%	98.6%	0.2%
Chrysler-Fiat	Truck	Van	1994	0.7%	97.6%			94.5%	5.5%		99.1%	0.5%	0.4%				0.9%	98.3%	0.8%
Chrysler-Fiat	Truck	Van	1995	0.2%	98.1%			93.7%	6.3%		98.7%		1.3%				1.3%	98.3%	0.4%
Chrysler-Fiat	Truck	Van	1996	0.0%	99.1%			100.0%			95.2%		4.8%				0.1%	99.6%	0.3%
Chrysler-Fiat	Truck	Van	1997		99.1%			100.0%			93.5%		6.5%					99.6%	0.4%
Chrysler-Fiat	Truck	Van	1998		100.0%			100.0%			91.0%		9.0%					98.6%	1.4%
Chrysler-Fiat	Truck	Van	1999		100.0%			100.0%			89.3%		10.7%					98.0%	2.0%
Chrysler-Fiat	Truck	Van	2000		100.0%			100.0%			89.7%		10.3%					92.1%	7.9%
Chrysler-Fiat	Truck	Van	2001		100.0%			100.0%			93.4%		6.6%					92.2%	7.8%
Chrysler-Fiat	Truck	Van	2002		100.0%			100.0%			91.3%		8.7%					94.0%	6.0%
Chrysler-Fiat	Truck	Van	2003		100.0%			100.0%			95.0%		5.0%					94.8%	5.2%
Chrysler-Fiat	Truck	Van	2004		100.0%			100.0%			95.7%		4.3%					100.0%	
Chrysler-Fiat	Truck	Van	2005		100.0%			100.0%			96.7%		3.3%					100.0%	
Chrysler-Fiat	Truck	Van	2006		100.0%			100.0%			95.7%		4.3%					100.0%	
Chrysler-Fiat	Truck	Van	2007		100.0%			100.0%			97.1%		2.9%					100.0%	
Chrysler-Fiat	Truck	Van	2008		100.0%			100.0%			89.1%		10.9%					100.0%	
Chrysler-Fiat	Truck	Van	2009		100.0%			100.0%			84.6%		15.4%					100.0%	
Chrysler-Fiat	Truck	Van	2010		100.0%			100.0%			84.0%		16.0%					100.0%	
Chrysler-Fiat	Truck	Van	2011		100.0%			100.0%					100.0%		100.0%			100.0%	
Chrysler-Fiat	Truck	Van	2012		100.0%			100.0%					100.0%		100.0%			100.0%	
Chrysler-Fiat	Truck	Truck SUV	1975	60.3%													52.0%	48.0%	
Chrysler-Fiat	Truck	Truck SUV	1976	48.6%													48.9%	51.1%	
Chrysler-Fiat	Truck	Truck SUV	1977	49.8%													47.3%	52.7%	
Chrysler-Fiat	Truck	Truck SUV	1978	50.2%													48.7%	51.3%	
Chrysler-Fiat	Truck	Truck SUV	1979	63.0%	1.2%												67.4%	32.6%	
Chrysler-Fiat	Truck	Truck SUV	1980	65.3%	3.9%												70.5%	29.5%	
Chrysler-Fiat	Truck	Truck SUV	1981	61.8%	37.0%												64.4%	35.6%	
Chrysler-Fiat	Truck	Truck SUV	1982	49.3%	37.9%												48.1%	51.9%	
Chrysler-Fiat	Truck	Truck SUV	1983	52.2%	38.7%												55.4%	44.6%	
Chrysler-Fiat	Truck	Truck SUV	1984	40.1%	31.2%												23.9%	76.1%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/CID	HP/Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Chrysler-Fiat	Truck	Truck SUV	1985	15.0	11.9	13.9	12.7	4471		320	145	14.1	0.460	0.0323	33.8				72.6%
Chrysler-Fiat	Truck	Truck SUV	1986	19.1	15.2	17.6	16.2	3745		217	122	13.9	0.606	0.0327	36.4				94.9%
Chrysler-Fiat	Truck	Truck SUV	1987	19.9	15.4	18.7	16.8	3689		243	145	12.3	0.622	0.0397	37.1				95.7%
Chrysler-Fiat	Truck	Truck SUV	1988	19.2	14.6	18.4	16.2	3665		252	155	11.5	0.634	0.0430	35.3				96.4%
Chrysler-Fiat	Truck	Truck SUV	1989	19.2	14.7	18.1	16.2	3647		247	158	11.4	0.656	0.0437	35.2				96.8%
Chrysler-Fiat	Truck	Truck SUV	1990	19.8	14.9	19.0	16.6	3566		244	160	11.0	0.671	0.0451	35.4				97.5%
Chrysler-Fiat	Truck	Truck SUV	1991	19.4	14.6	18.4	16.2	3572		235	172	10.3	0.746	0.0484	34.8				98.8%
Chrysler-Fiat	Truck	Truck SUV	1992	19.8	14.8	18.7	16.5	3449		229	181	9.6	0.795	0.0523	34.2				99.4%
Chrysler-Fiat	Truck	Truck SUV	1993	20.0	14.9	18.8	16.6	3478		226	179	9.8	0.799	0.0513	34.9				99.4%
Chrysler-Fiat	Truck	Truck SUV	1994	18.9	14.0	17.9	15.7	3738		254	190	9.9	0.760	0.0508	35.3				100.0%
Chrysler-Fiat	Truck	Truck SUV	1995	19.3	14.2	18.2	16.0	3668		241	183	10.0	0.772	0.0496	35.3				100.0%
Chrysler-Fiat	Truck	Truck SUV	1996	19.0	13.7	18.2	15.7	3811		261	198	9.7	0.761	0.0519	36.2				100.0%
Chrysler-Fiat	Truck	Truck SUV	1997	19.8	14.4	18.5	16.3	3797		241	180	10.5	0.753	0.0472	37.7				100.0%
Chrysler-Fiat	Truck	Truck SUV	1998	18.9	13.5	17.9	15.5	4144		266	195	10.5	0.740	0.0471	39.1				100.0%
Chrysler-Fiat	Truck	Truck SUV	1999	18.8	13.4	17.7	15.4	4327		274	208	10.3	0.767	0.0480	40.7				93.0%
Chrysler-Fiat	Truck	Truck SUV	2000	19.0	13.4	17.8	15.5	4253		268	208	10.2	0.781	0.0490	40.2				91.5%
Chrysler-Fiat	Truck	Truck SUV	2001	18.9	13.3	17.9	15.5	4299		263	205	10.4	0.781	0.0477	40.6				91.8%
Chrysler-Fiat	Truck	Truck SUV	2002	19.4	13.7	17.8	15.7	4381		252	217	10.1	0.864	0.0495	42.4				83.4%
Chrysler-Fiat	Truck	Truck SUV	2003	20.5	14.4	18.7	16.5	4355		255	217	10.0	0.856	0.0498	44.7				89.4%
Chrysler-Fiat	Truck	Truck SUV	2004	20.2	13.9	19.0	16.4	4292		258	221	9.8	0.854	0.0512	43.3				83.3%
Chrysler-Fiat	Truck	Truck SUV	2005	19.8	13.7	18.3	16.0	4545		259	225	10.1	0.874	0.0495	45.2				83.7%
Chrysler-Fiat	Truck	Truck SUV	2006	19.9	13.7	18.3	16.0	4623		256	229	10.1	0.892	0.0494	46.1				82.8%
Chrysler-Fiat	Truck	Truck SUV	2007	21.6	14.9	19.6	17.3	4432		235	218	10.2	0.939	0.0491	48.0			6.7%	74.8%
Chrysler-Fiat	Truck	Truck SUV	2008	22.3	15.4	20.2	17.8	4397		229	217	10.2	0.963	0.0491	49.1			9.4%	73.4%
Chrysler-Fiat	Truck	Truck SUV	2009	22.7	15.5	20.8	18.2	4359		219	218	10.1	1.009	0.0497	49.7			28.1%	62.2%
Chrysler-Fiat	Truck	Truck SUV	2010	23.1	15.8	21.2	18.5	4274		215	211	10.2	0.993	0.0492	49.6			23.0%	67.2%
Chrysler-Fiat	Truck	Truck SUV	2011	23.8	16.2	22.0	19.1	4472		222	245	9.5	1.113	0.0540	53.4			12.9%	71.7%
Chrysler-Fiat	Truck	Truck SUV	2012	23.8	16.1	22.1	19.1	4521		225	272	8.8	1.215	0.0596	54.0			17.7%	69.5%
Chrysler-Fiat	Truck	Pickup	1975	13.0	10.5	11.9	11.1	4345		338	155	13.2	0.456	0.0356	28.5				61.2%
Chrysler-Fiat	Truck	Pickup	1976	14.0	11.0	13.3	11.9	4338		335	158	13.0	0.470	0.0363	30.7				52.2%
Chrysler-Fiat	Truck	Pickup	1977	14.5	11.5	13.5	12.3	4335		341	159	12.9	0.466	0.0367	31.5				56.6%
Chrysler-Fiat	Truck	Pickup	1978	14.5	11.7	13.2	12.3	4226		326	148	13.4	0.455	0.0349	30.9				44.4%
Chrysler-Fiat	Truck	Pickup	1979	15.0	12.2	13.3	12.7	4041		272	130	14.1	0.510	0.0326	31.2				15.9%
Chrysler-Fiat	Truck	Pickup	1980	19.8	15.9	18.1	16.8	3430		206	110	14.1	0.582	0.0327	34.2				15.3%
Chrysler-Fiat	Truck	Pickup	1981	19.9	16.0	18.3	16.9	3564		218	108	14.8	0.533	0.0307	35.6				15.9%
Chrysler-Fiat	Truck	Pickup	1982	21.2	16.8	19.9	18.1	3470		217	109	14.4	0.533	0.0316	37.2			12.3%	24.2%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Chrysler-Fiat	Truck	Truck SUV	1985	14.5%													12.8%	87.2%	
Chrysler-Fiat	Truck	Truck SUV	1986	36.1%	43.2%				17.0%	0.1%							14.1%	85.9%	
Chrysler-Fiat	Truck	Truck SUV	1987	35.7%	39.6%			44.4%	11.6%	0.1%							30.8%	69.2%	
Chrysler-Fiat	Truck	Truck SUV	1988	26.7%	54.8%			62.2%	11.2%								21.4%	78.6%	
Chrysler-Fiat	Truck	Truck SUV	1989	27.8%	57.1%			63.8%	16.5%								25.6%	74.4%	
Chrysler-Fiat	Truck	Truck SUV	1990	27.8%	58.6%			65.1%	17.5%								26.6%	73.4%	
Chrysler-Fiat	Truck	Truck SUV	1991	33.7%	55.9%			94.4%	3.1%								30.9%	69.1%	
Chrysler-Fiat	Truck	Truck SUV	1992	36.2%	59.2%			99.7%	0.3%								32.9%	67.1%	
Chrysler-Fiat	Truck	Truck SUV	1993	43.0%	51.8%			100.0%									39.1%	60.9%	
Chrysler-Fiat	Truck	Truck SUV	1994	20.7%	79.3%			100.0%			100.0%						19.6%	80.4%	
Chrysler-Fiat	Truck	Truck SUV	1995	24.8%	75.2%			100.0%			100.0%						24.8%	75.2%	
Chrysler-Fiat	Truck	Truck SUV	1996	4.6%	95.4%			100.0%			100.0%							100.0%	
Chrysler-Fiat	Truck	Truck SUV	1997	26.1%	73.9%			100.0%			100.0%						64.8%	35.2%	
Chrysler-Fiat	Truck	Truck SUV	1998	14.3%	85.7%			100.0%			100.0%						17.3%	59.9%	22.9%
Chrysler-Fiat	Truck	Truck SUV	1999	9.4%	90.6%			100.0%			100.0%						13.1%	55.7%	31.2%
Chrysler-Fiat	Truck	Truck SUV	2000	9.2%	90.8%			100.0%			100.0%						14.7%	54.1%	31.1%
Chrysler-Fiat	Truck	Truck SUV	2001	8.4%	91.6%			100.0%			100.0%						14.4%	55.9%	29.7%
Chrysler-Fiat	Truck	Truck SUV	2002	7.8%	92.2%			100.0%			99.7%		0.3%				11.9%	68.0%	20.1%
Chrysler-Fiat	Truck	Truck SUV	2003	10.2%	89.8%			100.0%			98.5%		1.5%				15.8%	54.2%	30.0%
Chrysler-Fiat	Truck	Truck SUV	2004	7.1%	92.9%			100.0%			98.9%		1.1%				13.7%	67.0%	19.4%
Chrysler-Fiat	Truck	Truck SUV	2005	7.3%	92.7%			98.4%		1.6%	97.6%		2.4%				13.8%	65.0%	21.2%
Chrysler-Fiat	Truck	Truck SUV	2006	7.9%	92.1%			98.7%		1.3%	97.6%		2.4%				15.0%	69.0%	16.1%
Chrysler-Fiat	Truck	Truck SUV	2007	6.4%	80.0%	13.6%		99.5%		0.5%	83.7%		16.3%		14.7%		16.5%	71.0%	12.5%
Chrysler-Fiat	Truck	Truck SUV	2008	7.6%	77.2%	15.2%		99.7%		0.3%	82.1%		17.9%		16.5%		22.8%	67.5%	9.7%
Chrysler-Fiat	Truck	Truck SUV	2009	3.1%	82.0%	14.9%		100.0%			59.7%		40.3%		20.2%	0.7%	21.3%	50.0%	28.7%
Chrysler-Fiat	Truck	Truck SUV	2010	7.4%	76.1%	16.5%		100.0%			64.7%		35.3%		20.6%		29.2%	53.8%	17.0%
Chrysler-Fiat	Truck	Truck SUV	2011	4.7%	77.5%	17.8%		100.0%			47.1%		52.9%		61.8%			56.9%	43.1%
Chrysler-Fiat	Truck	Truck SUV	2012	5.6%	81.2%	13.3%		100.0%			25.5%		74.5%		87.0%			34.3%	65.7%
Chrysler-Fiat	Truck	Pickup	1975	34.1%															100.0%
Chrysler-Fiat	Truck	Pickup	1976	31.5%															100.0%
Chrysler-Fiat	Truck	Pickup	1977	25.1%															100.0%
Chrysler-Fiat	Truck	Pickup	1978	29.0%						0.6%									100.0%
Chrysler-Fiat	Truck	Pickup	1979	40.6%	13.7%					1.3%							15.2%	7.3%	77.5%
Chrysler-Fiat	Truck	Pickup	1980	62.1%	20.0%												36.3%	14.6%	49.1%
Chrysler-Fiat	Truck	Pickup	1981	60.2%	30.7%												3.0%	35.4%	61.5%
Chrysler-Fiat	Truck	Pickup	1982	59.5%	24.3%												17.2%	27.6%	55.2%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Chrysler-Fiat	Truck	Pickup	1983	23.4	18.6	21.8	19.9	3312		189	103	14.4	0.588	0.0315	39.5			15.6%	18.7%
Chrysler-Fiat	Truck	Pickup	1984	19.4	15.4	18.1	16.5	3638		224	109	15.0	0.521	0.0302	36.2			7.0%	23.3%
Chrysler-Fiat	Truck	Pickup	1985	18.6	14.9	17.1	15.8	3798		250	124	14.1	0.529	0.0326	36.1				23.0%
Chrysler-Fiat	Truck	Pickup	1986	20.2	16.0	18.7	17.1	3626		218	119	14.0	0.592	0.0328	37.4				30.0%
Chrysler-Fiat	Truck	Pickup	1987	21.2	16.5	19.9	17.9	3611		221	122	13.7	0.580	0.0338	38.9				26.4%
Chrysler-Fiat	Truck	Pickup	1988	20.8	16.0	19.6	17.5	3652		226	126	13.4	0.586	0.0347	38.5				28.9%
Chrysler-Fiat	Truck	Pickup	1989	19.9	15.2	19.0	16.8	3681		234	127	13.4	0.569	0.0347	37.2				27.7%
Chrysler-Fiat	Truck	Pickup	1990	19.1	14.4	18.3	16.1	3991		255	141	13.3	0.563	0.0354	38.7				24.9%
Chrysler-Fiat	Truck	Pickup	1991	18.8	14.1	17.9	15.8	4035		264	146	13.1	0.562	0.0361	38.4				25.4%
Chrysler-Fiat	Truck	Pickup	1992	19.2	14.1	18.8	16.1	4046		257	155	12.8	0.597	0.0380	39.0				26.0%
Chrysler-Fiat	Truck	Pickup	1993	18.9	13.9	18.2	15.8	4111		263	156	12.9	0.583	0.0377	39.0				28.1%
Chrysler-Fiat	Truck	Pickup	1994	18.8	13.8	17.9	15.6	4346		283	199	10.7	0.709	0.0458	41.0				23.1%
Chrysler-Fiat	Truck	Pickup	1995	17.8	13.0	17.0	14.8	4516		296	201	11.0	0.686	0.0445	40.5				35.0%
Chrysler-Fiat	Truck	Pickup	1996	17.4	12.5	16.8	14.4	4697		305	210	10.9	0.697	0.0449	40.8				34.1%
Chrysler-Fiat	Truck	Pickup	1997	17.7	12.6	17.2	14.7	4765		309	209	11.0	0.686	0.0441	42.2				45.6%
Chrysler-Fiat	Truck	Pickup	1998	18.0	12.8	17.5	14.9	4783		299	207	11.2	0.698	0.0434	43.1				38.7%
Chrysler-Fiat	Truck	Pickup	1999	17.7	12.5	17.2	14.6	4795		307	215	10.9	0.704	0.0449	42.5				43.5%
Chrysler-Fiat	Truck	Pickup	2000	18.4	12.9	17.8	15.1	4662		292	214	10.7	0.737	0.0460	43.0				41.7%
Chrysler-Fiat	Truck	Pickup	2001	17.3	12.1	16.8	14.3	4905		306	221	10.9	0.725	0.0450	42.6				43.9%
Chrysler-Fiat	Truck	Pickup	2002	17.9	12.6	16.7	14.6	5011		290	225	10.9	0.783	0.0451	44.9				41.2%
Chrysler-Fiat	Truck	Pickup	2003	18.2	12.8	16.7	14.7	5108		294	240	10.6	0.818	0.0469	46.5				40.7%
Chrysler-Fiat	Truck	Pickup	2004	17.9	12.4	16.7	14.5	5140		301	279	9.5	0.921	0.0541	46.1				44.5%
Chrysler-Fiat	Truck	Pickup	2005	18.2	12.5	17.0	14.7	5093		298	274	9.6	0.911	0.0534	46.4				46.7%
Chrysler-Fiat	Truck	Pickup	2006	19.0	13.0	17.8	15.4	5206		291	266	10.0	0.909	0.0509	49.5				46.3%
Chrysler-Fiat	Truck	Pickup	2007	18.9	13.0	17.8	15.3	5317		298	277	9.8	0.924	0.0517	50.3				47.2%
Chrysler-Fiat	Truck	Pickup	2008	20.2	13.9	18.6	16.3	5275		298	301	9.1	1.011	0.0568	55.1				43.4%
Chrysler-Fiat	Truck	Pickup	2009	19.5	13.3	18.5	15.8	5531		317	321	8.9	1.016	0.0580	54.0				53.4%
Chrysler-Fiat	Truck	Pickup	2010	19.8	13.5	18.7	16.0	5371		316	343	8.4	1.078	0.0635	53.2				56.7%
Chrysler-Fiat	Truck	Pickup	2011	19.9	13.5	18.9	16.1	5348		317	344	8.3	1.079	0.0641	53.2				61.1%
Chrysler-Fiat	Truck	Pickup	2012	20.2	13.7	19.0	16.3	5451		319	351	8.3	1.095	0.0642	54.9				57.9%
Chrysler-Fiat	Car	All	1975	15.8	12.4	15.1	13.5	4048		284	137	14.0	0.507	0.0334	32.3			3.0%	
Chrysler-Fiat	Car	All	1976	16.8	13.1	16.1	14.3	3995		280	132	14.4	0.484	0.0325	34.0			1.7%	
Chrysler-Fiat	Car	All	1977	16.6	12.9	16.1	14.2	4071	115.5	287	133	14.5	0.483	0.0322	34.2	1975	3953	1.8%	
Chrysler-Fiat	Car	All	1978	19.1	14.8	18.4	16.2	3650	108.6	246	123	13.9	0.543	0.0332	35.2	2152	3823	12.1%	
Chrysler-Fiat	Car	All	1979	21.0	16.4	20.1	17.9	3384	107.1	218	110	14.3	0.555	0.0320	35.7	2315	3827	26.3%	
Chrysler-Fiat	Car	All	1980	22.7	17.7	21.8	19.4	3076	102.3	183	89	15.5	0.543	0.0290	35.1	2392	3589	38.8%	4.1%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Chrysler-Fiat	Truck	Pickup	1983	60.6%	9.7%				0.1%	3.4%							18.1%	44.0%	37.9%
Chrysler-Fiat	Truck	Pickup	1984	58.1%	11.9%					1.8%							9.1%	26.8%	64.1%
Chrysler-Fiat	Truck	Pickup	1985	38.4%	10.1%					0.5%							0.1%	28.8%	71.1%
Chrysler-Fiat	Truck	Pickup	1986	47.3%	24.7%				9.3%	0.1%								35.4%	64.6%
Chrysler-Fiat	Truck	Pickup	1987	39.4%	41.8%			5.7%	5.8%	0.0%								71.8%	28.2%
Chrysler-Fiat	Truck	Pickup	1988	40.5%	44.1%			10.3%	60.7%									74.0%	26.0%
Chrysler-Fiat	Truck	Pickup	1989	38.2%	48.3%			9.3%	75.5%									70.7%	29.3%
Chrysler-Fiat	Truck	Pickup	1990	30.3%	55.9%			10.3%	89.7%									59.8%	40.2%
Chrysler-Fiat	Truck	Pickup	1991	25.3%	66.1%			10.0%	90.0%									69.9%	30.1%
Chrysler-Fiat	Truck	Pickup	1992	23.1%	76.3%			95.2%	4.8%									83.3%	16.7%
Chrysler-Fiat	Truck	Pickup	1993	23.0%	77.0%			97.2%	2.8%									83.6%	16.4%
Chrysler-Fiat	Truck	Pickup	1994	19.4%	80.6%			99.1%	0.9%		100.0%							55.0%	45.0%
Chrysler-Fiat	Truck	Pickup	1995	16.5%	83.5%			94.0%	6.0%		100.0%							40.2%	59.8%
Chrysler-Fiat	Truck	Pickup	1996	12.5%	87.3%			100.0%			100.0%							27.2%	72.8%
Chrysler-Fiat	Truck	Pickup	1997	10.2%	89.8%			100.0%			100.0%							32.0%	68.0%
Chrysler-Fiat	Truck	Pickup	1998	14.8%	85.2%			100.0%			100.0%							34.1%	65.9%
Chrysler-Fiat	Truck	Pickup	1999	11.6%	88.4%			100.0%			100.0%							33.1%	66.9%
Chrysler-Fiat	Truck	Pickup	2000	10.0%	90.0%			100.0%			100.0%							22.6%	77.4%
Chrysler-Fiat	Truck	Pickup	2001	9.5%	90.5%			100.0%			100.0%							15.7%	84.3%
Chrysler-Fiat	Truck	Pickup	2002	7.5%	92.5%			100.0%			100.0%							19.6%	80.4%
Chrysler-Fiat	Truck	Pickup	2003	6.5%	93.5%			100.0%			100.0%							5.0%	95.0%
Chrysler-Fiat	Truck	Pickup	2004	5.8%	94.2%			100.0%			99.3%		0.7%					26.4%	73.6%
Chrysler-Fiat	Truck	Pickup	2005	2.5%	97.5%			100.0%			100.0%								100.0%
Chrysler-Fiat	Truck	Pickup	2006	5.2%	94.8%			100.0%			100.0%								100.0%
Chrysler-Fiat	Truck	Pickup	2007	3.6%	96.4%			100.0%			100.0%								100.0%
Chrysler-Fiat	Truck	Pickup	2008	4.6%	95.4%			100.0%			100.0%								100.0%
Chrysler-Fiat	Truck	Pickup	2009	0.0%	100.0%			100.0%			100.0%				59.9%				100.0%
Chrysler-Fiat	Truck	Pickup	2010		100.0%			100.0%			100.0%				58.6%				100.0%
Chrysler-Fiat	Truck	Pickup	2011		100.0%			100.0%			100.0%				60.9%				100.0%
Chrysler-Fiat	Truck	Pickup	2012		100.0%			100.0%			100.0%				57.8%				100.0%
Chrysler-Fiat	Car	All	1975	13.0%													51.7%	30.8%	17.5%
Chrysler-Fiat	Car	All	1976	13.1%													51.0%	37.6%	11.4%
Chrysler-Fiat	Car	All	1977	10.8%				0.2%									40.5%	43.5%	16.1%
Chrysler-Fiat	Car	All	1978	17.6%	50.3%			0.2%									54.9%	40.1%	5.0%
Chrysler-Fiat	Car	All	1979	18.6%	45.4%			0.2%									46.1%	43.3%	10.6%
Chrysler-Fiat	Car	All	1980	23.6%	42.8%			1.2%									63.6%	32.9%	3.6%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Chrysler-Fiat	Car	All	1981	26.1	20.3	25.2	22.2	2833	104.7	158	92	14.1	0.621	0.0325	37.2	2817	3893	67.7%	1.9%
Chrysler-Fiat	Car	All	1982	26.9	21.0	25.8	22.9	2936	106.4	166	94	14.2	0.606	0.0321	39.7	2945	4226	69.5%	2.9%
Chrysler-Fiat	Car	All	1983	28.3	22.4	26.6	24.1	2838	106.5	155	90	14.5	0.622	0.0316	40.7	3137	4327	77.2%	3.5%
Chrysler-Fiat	Car	All	1984	28.4	22.2	27.0	24.2	2795	105.4	144	92	14.2	0.671	0.0326	40.0	3088	4216	87.8%	1.9%
Chrysler-Fiat	Car	All	1985	28.1	21.9	26.9	23.9	2882	106.9	150	106	13.0	0.745	0.0366	40.7	3063	4345	87.7%	0.1%
Chrysler-Fiat	Car	All	1986	28.4	22.2	26.9	24.1	2889	106.5	148	104	13.2	0.741	0.0359	41.4	3098	4406	88.6%	0.7%
Chrysler-Fiat	Car	All	1987	27.6	21.3	26.3	23.3	2901	106.2	154	107	12.9	0.733	0.0368	40.1	2973	4264	87.8%	0.3%
Chrysler-Fiat	Car	All	1988	28.3	21.5	27.3	23.9	2964	107.4	154	110	12.9	0.733	0.0368	42.1	3085	4521	92.2%	0.2%
Chrysler-Fiat	Car	All	1989	27.9	20.8	27.2	23.4	3080	107.1	153	113	13.0	0.747	0.0364	43.1	3022	4609	95.8%	0.3%
Chrysler-Fiat	Car	All	1990	27.2	20.1	26.7	22.8	3219	106.6	162	125	12.5	0.784	0.0386	43.8	2917	4673	98.0%	0.0%
Chrysler-Fiat	Car	All	1991	27.3	20.3	26.1	22.8	3195	106.7	163	127	12.3	0.794	0.0394	43.7	2935	4659	95.8%	1.9%
Chrysler-Fiat	Car	All	1992	27.2	20.2	25.9	22.6	3187	106.3	166	129	12.2	0.786	0.0400	43.6	2922	4627	92.9%	2.2%
Chrysler-Fiat	Car	All	1993	25.1	18.2	24.4	20.9	3360	112.5	193	149	11.4	0.781	0.0437	42.7	2885	4787	74.7%	0.1%
Chrysler-Fiat	Car	All	1994	25.6	18.4	25.2	21.3	3388	112.8	185	150	11.5	0.801	0.0434	43.6	2913	4916	90.8%	
Chrysler-Fiat	Car	All	1995	27.3	19.3	27.0	22.6	3245	109.9	163	155	10.4	0.984	0.0477	44.5	3043	4890	92.1%	0.7%
Chrysler-Fiat	Car	All	1996	26.3	18.4	26.3	21.8	3377	111.8	166	167	10.1	1.039	0.0496	44.6	2976	4988	88.6%	0.2%
Chrysler-Fiat	Car	All	1997	26.3	18.2	26.5	21.8	3403	111.8	168	165	10.3	1.009	0.0483	45.0	2983	5038	90.4%	0.1%
Chrysler-Fiat	Car	All	1998	27.2	18.7	27.1	22.4	3299	109.8	155	158	10.4	1.036	0.0478	45.1	3026	4950	88.4%	0.1%
Chrysler-Fiat	Car	All	1999	26.3	17.9	26.2	21.6	3548	114.4	171	186	9.8	1.094	0.0521	46.8	3033	5368	88.9%	
Chrysler-Fiat	Car	All	2000	26.6	18.3	25.7	21.7	3457	113.7	165	176	10.0	1.079	0.0506	46.1	3056	5255	87.2%	
Chrysler-Fiat	Car	All	2001	26.8	18.4	25.5	21.7	3492	114.4	166	176	10.1	1.072	0.0503	47.0	3091	5379	89.4%	
Chrysler-Fiat	Car	All	2002	26.4	18.0	25.2	21.4	3503	114.1	163	191	9.7	1.171	0.0542	46.5	3042	5306	94.0%	
Chrysler-Fiat	Car	All	2003	27.2	18.6	25.2	21.8	3468	114.3	162	173	10.2	1.076	0.0495	47.6	3152	5429	84.2%	
Chrysler-Fiat	Car	All	2004	27.0	18.3	25.1	21.6	3644	117.7	168	198	9.4	1.187	0.0543	49.3	3192	5835	84.6%	8.7%
Chrysler-Fiat	Car	All	2005	26.3	17.7	24.5	21.0	3767	120.1	187	214	9.2	1.168	0.0564	49.5	3173	5991	60.4%	6.7%
Chrysler-Fiat	Car	All	2006	25.3	16.9	23.8	20.3	3952	125.2	213	243	8.6	1.183	0.0613	50.0	3176	6286	43.2%	5.2%
Chrysler-Fiat	Car	All	2007	26.9	18.1	24.8	21.4	3830	116.4	188	223	8.9	1.239	0.0577	51.9	3159	6036	61.9%	6.7%
Chrysler-Fiat	Car	All	2008	27.7	18.5	25.8	22.1	3789	113.3	178	209	9.6	1.196	0.0545	52.9	3185	6005	63.6%	3.4%
Chrysler-Fiat	Car	All	2009	27.4	18.4	25.5	21.9	3848	118.3	191	223	9.3	1.206	0.0572	53.2	3304	6299	54.1%	1.6%
Chrysler-Fiat	Car	All	2010	27.7	18.5	26.0	22.1	3847	116.5	192	223	9.2	1.171	0.0571	53.6	3281	6258	49.3%	1.7%
Chrysler-Fiat	Car	All	2011	28.2	18.4	27.5	22.7	3880	114.4	208	256	8.4	1.243	0.0648	55.0	3273	6295	58.5%	2.0%
Chrysler-Fiat	Car	All	2012	30.8	20.1	29.5	24.6	3605	107.8	180	218	9.4	1.212	0.0579	55.6	3351	6000	73.2%	2.5%
Chrysler-Fiat	Truck	All	1975	13.2	10.7	11.9	11.2	4080		319	145	13.2	0.452	0.0358	27.1				38.6%
Chrysler-Fiat	Truck	All	1976	14.3	11.3	13.4	12.2	4151		323	148	13.2	0.455	0.0357	29.8				44.3%
Chrysler-Fiat	Truck	All	1977	14.5	11.6	13.4	12.3	4179		332	151	13.0	0.454	0.0362	30.4				46.3%
Chrysler-Fiat	Truck	All	1978	14.4	11.6	13.1	12.2	4090		325	144	13.3	0.441	0.0352	29.6				46.6%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Chrysler-Fiat	Car	All	1981	30.0%	14.3%			2.6%	0.7%								53.2%	45.5%	1.3%
Chrysler-Fiat	Car	All	1982	19.9%	19.0%			1.7%	0.3%								42.4%	57.6%	
Chrysler-Fiat	Car	All	1983	24.5%	15.2%			1.3%	13.6%								48.9%	51.1%	
Chrysler-Fiat	Car	All	1984	26.6%	10.4%			9.3%	24.1%								56.6%	43.4%	
Chrysler-Fiat	Car	All	1985	20.0%	13.2%			16.1%	31.0%								45.0%	55.0%	
Chrysler-Fiat	Car	All	1986	19.3%	12.6%			18.0%	49.7%	0.0%	99.9%		0.1%				42.6%	57.4%	
Chrysler-Fiat	Car	All	1987	17.0%	31.6%			17.6%	44.8%		99.9%		0.1%				47.8%	52.2%	
Chrysler-Fiat	Car	All	1988	13.9%	77.1%			28.4%	60.1%		99.9%		0.1%				50.3%	46.2%	3.5%
Chrysler-Fiat	Car	All	1989	13.9%	77.7%			45.0%	53.4%		99.3%		0.7%				49.5%	46.5%	3.9%
Chrysler-Fiat	Car	All	1990	14.0%	84.6%			62.2%	37.8%		92.0%		8.0%				50.6%	40.0%	9.4%
Chrysler-Fiat	Car	All	1991	15.6%	83.5%			63.1%	36.9%		84.7%	6.6%	8.7%				45.7%	44.8%	9.6%
Chrysler-Fiat	Car	All	1992	16.1%	83.3%			62.7%	37.3%		92.9%	4.9%	2.2%				51.6%	41.2%	7.2%
Chrysler-Fiat	Car	All	1993	10.0%	89.1%			75.3%	24.7%		85.6%	2.6%	11.8%				34.2%	48.0%	17.8%
Chrysler-Fiat	Car	All	1994	8.1%	91.6%			73.6%	26.4%		74.3%	1.1%	24.7%				33.7%	26.2%	40.1%
Chrysler-Fiat	Car	All	1995	13.4%	86.5%			97.3%	2.7%		29.6%	0.2%	70.1%	0.1%	0.1%		50.4%	22.5%	27.2%
Chrysler-Fiat	Car	All	1996	9.5%	90.5%			100.0%			21.5%	0.0%	78.5%	0.0%	0.0%		40.9%	31.9%	27.2%
Chrysler-Fiat	Car	All	1997	7.3%	92.7%			100.0%			15.8%		84.1%	0.1%	0.1%		39.1%	32.1%	28.8%
Chrysler-Fiat	Car	All	1998	7.2%	92.7%			100.0%			11.4%		88.5%	0.1%	0.1%		44.9%	39.5%	15.6%
Chrysler-Fiat	Car	All	1999	3.0%	96.9%			100.0%			10.5%		89.4%	0.1%	0.2%		25.3%	33.1%	41.6%
Chrysler-Fiat	Car	All	2000	3.3%	96.7%			100.0%			12.4%		87.5%	0.1%	0.1%		36.0%	31.8%	32.2%
Chrysler-Fiat	Car	All	2001	5.5%	94.5%			100.0%			10.1%		89.9%	0.1%	0.1%		50.1%	26.6%	23.3%
Chrysler-Fiat	Car	All	2002	6.1%	93.9%			100.0%			5.6%		94.3%	0.1%	0.3%		49.7%	25.4%	24.9%
Chrysler-Fiat	Car	All	2003	7.9%	92.1%			100.0%			15.1%		84.7%	0.2%	0.3%		55.7%	29.9%	14.3%
Chrysler-Fiat	Car	All	2004	5.1%	94.9%			100.0%			5.4%	2.3%	92.0%	0.3%	0.3%		40.9%	31.4%	27.8%
Chrysler-Fiat	Car	All	2005	5.0%	94.9%			100.0%			15.7%	2.8%	81.5%	0.0%	0.4%		40.7%	28.0%	31.3%
Chrysler-Fiat	Car	All	2006	1.7%	98.0%			100.0%			23.0%	0.8%	76.1%		0.5%		22.2%	24.8%	53.1%
Chrysler-Fiat	Car	All	2007	2.5%	70.6%	26.8%		100.0%			15.5%	0.5%	83.9%		38.1%		46.0%	18.9%	35.1%
Chrysler-Fiat	Car	All	2008	1.8%	84.5%	13.4%		100.0%			5.9%	0.3%	93.9%		39.3%		19.0%	48.9%	32.1%
Chrysler-Fiat	Car	All	2009	5.0%	78.4%	15.6%	0.0%	100.0%			15.2%		84.8%		54.7%		23.7%	36.0%	40.3%
Chrysler-Fiat	Car	All	2010	3.3%	83.9%	11.9%	0.4%	99.6%			10.8%		89.2%		52.3%		31.0%	28.0%	40.9%
Chrysler-Fiat	Car	All	2011	2.7%	82.4%	14.4%	0.5%	99.5%			14.9%		85.1%		86.9%		30.1%	39.5%	30.4%
Chrysler-Fiat	Car	All	2012	6.0%	92.2%	1.2%	0.3%	99.7%			12.1%		87.9%		98.4%		27.1%	52.4%	20.5%
Chrysler-Fiat	Truck	All	1975	31.5%													14.5%	67.8%	17.8%
Chrysler-Fiat	Truck	All	1976	29.6%													12.0%	49.9%	38.1%
Chrysler-Fiat	Truck	All	1977	26.0%													12.3%	51.6%	36.2%
Chrysler-Fiat	Truck	All	1978	29.6%						0.2%							14.9%	48.6%	36.5%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Chrysler-Fiat	Truck	All	1979	14.7	12.0	13.0	12.4	4052		293	134	13.8	0.473	0.0335	30.1				31.3%
Chrysler-Fiat	Truck	All	1980	18.2	14.6	16.6	15.4	3591		237	113	14.4	0.512	0.0319	33.0				36.3%
Chrysler-Fiat	Truck	All	1981	18.8	15.1	17.3	16.0	3663		244	113	14.7	0.485	0.0310	34.7			0.4%	36.5%
Chrysler-Fiat	Truck	All	1982	19.4	15.4	18.1	16.5	3679		246	115	14.5	0.488	0.0314	36.1			6.5%	31.4%
Chrysler-Fiat	Truck	All	1983	20.6	16.4	19.1	17.5	3567		228	111	14.6	0.521	0.0314	37.6			8.8%	30.6%
Chrysler-Fiat	Truck	All	1984	19.4	15.4	18.1	16.5	3658		218	111	14.9	0.548	0.0305	36.4			27.5%	34.4%
Chrysler-Fiat	Truck	All	1985	19.4	15.5	17.9	16.5	3777		221	119	14.6	0.577	0.0313	37.5			41.9%	15.2%
Chrysler-Fiat	Truck	All	1986	20.7	16.4	19.2	17.6	3676		203	115	14.5	0.608	0.0312	38.8			34.0%	32.7%
Chrysler-Fiat	Truck	All	1987	21.3	16.6	20.1	18.0	3671		214	128	13.5	0.632	0.0351	39.7			32.3%	32.2%
Chrysler-Fiat	Truck	All	1988	21.4	16.4	20.4	18.1	3727		214	137	13.0	0.668	0.0369	40.4			42.5%	30.9%
Chrysler-Fiat	Truck	All	1989	21.0	16.1	19.9	17.7	3748		213	137	13.0	0.675	0.0369	40.1			44.0%	31.3%
Chrysler-Fiat	Truck	All	1990	21.4	16.1	20.6	18.0	3825		220	146	12.5	0.683	0.0384	41.6			52.2%	26.7%
Chrysler-Fiat	Truck	All	1991	21.1	15.9	20.0	17.7	3894		219	149	12.5	0.697	0.0385	41.8			49.3%	30.1%
Chrysler-Fiat	Truck	All	1992	21.4	15.9	20.4	17.8	3893		215	152	12.4	0.717	0.0393	42.1			54.1%	24.5%
Chrysler-Fiat	Truck	All	1993	21.9	16.2	20.9	18.2	3815		212	153	12.1	0.726	0.0401	42.3			59.2%	24.3%
Chrysler-Fiat	Truck	All	1994	20.5	15.1	19.4	17.0	4000		238	173	11.4	0.738	0.0433	41.5			40.4%	32.6%
Chrysler-Fiat	Truck	All	1995	20.1	14.7	19.1	16.7	3946		239	176	11.1	0.750	0.0446	40.2			33.5%	45.4%
Chrysler-Fiat	Truck	All	1996	20.2	14.5	19.4	16.7	4203		246	183	11.2	0.760	0.0438	42.9			44.5%	34.5%
Chrysler-Fiat	Truck	All	1997	20.2	14.5	19.3	16.7	4229		247	180	11.4	0.746	0.0427	43.1			36.5%	42.9%
Chrysler-Fiat	Truck	All	1998	20.0	14.1	19.2	16.4	4332		253	187	11.3	0.755	0.0432	43.6			32.6%	46.8%
Chrysler-Fiat	Truck	All	1999	19.8	14.0	18.9	16.3	4388		259	195	11.1	0.765	0.0442	43.8			31.2%	48.7%
Chrysler-Fiat	Truck	All	2000	20.3	14.2	19.4	16.6	4302		249	192	11.0	0.783	0.0446	44.1			34.6%	46.6%
Chrysler-Fiat	Truck	All	2001	19.4	13.5	18.6	15.9	4561		264	206	10.8	0.796	0.0453	44.8			27.1%	47.3%
Chrysler-Fiat	Truck	All	2002	20.0	14.0	18.7	16.2	4569		251	211	10.7	0.852	0.0462	46.3			28.2%	45.7%
Chrysler-Fiat	Truck	All	2003	20.8	14.5	19.1	16.8	4576		253	215	10.5	0.859	0.0470	48.0			31.6%	43.8%
Chrysler-Fiat	Truck	All	2004	19.7	13.6	18.5	16.0	4595		268	238	9.9	0.884	0.0514	45.5			11.3%	60.5%
Chrysler-Fiat	Truck	All	2005	20.9	14.2	19.6	16.9	4574		250	225	10.3	0.899	0.0489	48.3			40.4%	40.9%
Chrysler-Fiat	Truck	All	2006	21.0	14.3	19.7	16.9	4662		249	224	10.4	0.896	0.0478	49.3			34.4%	46.3%
Chrysler-Fiat	Truck	All	2007	21.5	14.7	19.9	17.3	4604		243	224	10.4	0.924	0.0483	49.6			29.2%	50.0%
Chrysler-Fiat	Truck	All	2008	22.4	15.3	20.7	18.0	4618		240	223	10.5	0.928	0.0477	52.2			33.7%	46.2%
Chrysler-Fiat	Truck	All	2009	22.4	15.2	21.0	18.0	4674		240	233	10.2	0.975	0.0493	52.6			43.5%	41.9%
Chrysler-Fiat	Truck	All	2010	22.9	15.5	21.5	18.4	4582		237	229	10.2	0.964	0.0495	52.7			49.3%	39.0%
Chrysler-Fiat	Truck	All	2011	23.2	15.7	21.7	18.6	4656		241	272	9.0	1.137	0.0577	54.2			26.0%	56.6%
Chrysler-Fiat	Truck	All	2012	23.8	16.0	22.4	19.1	4631		235	285	8.6	1.220	0.0611	55.3			38.2%	48.9%
Chrysler-Fiat	All	All	1975	15.3	12.0	14.4	13.0	4054		290	139	13.9	0.498	0.0338	31.4			2.4%	6.9%
Chrysler-Fiat	All	All	1976	16.2	12.7	15.5	13.8	4027		289	135	14.1	0.478	0.0332	33.1			1.3%	8.9%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Chrysler-Fiat	Truck	All	1979	38.1%	13.0%					0.6%							25.1%	41.3%	33.6%
Chrysler-Fiat	Truck	All	1980	55.0%	23.2%												38.9%	33.5%	27.6%
Chrysler-Fiat	Truck	All	1981	51.3%	41.9%												20.3%	49.5%	30.1%
Chrysler-Fiat	Truck	All	1982	45.7%	34.8%												18.3%	51.0%	30.7%
Chrysler-Fiat	Truck	All	1983	49.6%	21.3%				0.1%	1.9%							21.5%	56.1%	22.4%
Chrysler-Fiat	Truck	All	1984	37.3%	17.3%					0.5%							11.9%	67.9%	20.2%
Chrysler-Fiat	Truck	All	1985	20.4%	7.0%					0.2%							4.5%	71.2%	24.3%
Chrysler-Fiat	Truck	All	1986	27.6%	26.8%				6.7%	0.0%							8.1%	71.9%	20.1%
Chrysler-Fiat	Truck	All	1987	25.0%	47.1%			29.3%	4.7%	0.0%							11.0%	79.0%	10.0%
Chrysler-Fiat	Truck	All	1988	19.5%	63.3%			51.6%	34.0%								6.8%	85.4%	7.7%
Chrysler-Fiat	Truck	All	1989	17.3%	57.8%			50.8%	40.7%								8.0%	85.0%	7.0%
Chrysler-Fiat	Truck	All	1990	12.6%	80.2%			62.4%	33.6%								6.3%	86.2%	7.4%
Chrysler-Fiat	Truck	All	1991	13.1%	82.6%			68.9%	30.6%								8.5%	85.6%	6.0%
Chrysler-Fiat	Truck	All	1992	12.1%	85.8%			92.2%	7.8%								7.8%	88.5%	3.7%
Chrysler-Fiat	Truck	All	1993	12.7%	85.9%			94.4%	5.6%								7.7%	89.1%	3.2%
Chrysler-Fiat	Truck	All	1994	10.3%	88.8%			97.0%	3.0%		99.5%	0.3%	0.2%				5.5%	83.4%	11.1%
Chrysler-Fiat	Truck	All	1995	13.1%	86.2%			96.1%	3.9%		99.5%		0.5%				9.4%	75.5%	15.1%
Chrysler-Fiat	Truck	All	1996	4.3%	95.2%			100.0%			97.7%		2.3%				0.0%	81.5%	18.4%
Chrysler-Fiat	Truck	All	1997	10.4%	89.2%			100.0%			97.3%		2.7%				18.5%	61.5%	20.0%
Chrysler-Fiat	Truck	All	1998	9.3%	90.7%			100.0%			96.7%		3.3%				6.0%	66.2%	27.8%
Chrysler-Fiat	Truck	All	1999	6.6%	93.4%			100.0%			96.2%		3.8%				5.2%	65.1%	29.7%
Chrysler-Fiat	Truck	All	2000	5.8%	94.2%			100.0%			96.0%		4.0%				5.9%	62.2%	31.9%
Chrysler-Fiat	Truck	All	2001	6.3%	93.7%			100.0%			98.0%		2.0%				4.7%	52.3%	43.0%
Chrysler-Fiat	Truck	All	2002	5.3%	94.7%			100.0%			97.2%		2.8%				4.7%	61.4%	34.0%
Chrysler-Fiat	Truck	All	2003	5.5%	94.5%			100.0%			97.8%		2.2%				5.3%	52.1%	42.6%
Chrysler-Fiat	Truck	All	2004	5.8%	94.2%			100.0%			98.7%		1.3%				7.4%	56.8%	35.9%
Chrysler-Fiat	Truck	All	2005	3.2%	96.8%			99.4%		0.6%	97.8%		2.2%				4.9%	63.3%	31.9%
Chrysler-Fiat	Truck	All	2006	4.6%	95.4%			99.4%		0.6%	97.5%		2.5%				6.5%	64.4%	29.1%
Chrysler-Fiat	Truck	All	2007	4.2%	88.5%	7.4%		99.7%		0.3%	90.5%		9.5%		8.0%		8.9%	63.9%	27.1%
Chrysler-Fiat	Truck	All	2008	4.8%	87.4%	7.8%		99.8%		0.2%	87.7%		12.3%		8.5%		11.7%	63.4%	24.9%
Chrysler-Fiat	Truck	All	2009	1.5%	91.2%	7.3%		100.0%			75.7%		24.3%		22.7%	0.3%	10.4%	54.1%	35.4%
Chrysler-Fiat	Truck	All	2010	3.2%	89.6%	7.2%		100.0%			78.3%		21.7%		19.0%		12.7%	62.8%	24.5%
Chrysler-Fiat	Truck	All	2011	2.9%	86.2%	11.0%		100.0%			49.4%		50.6%		68.5%			53.1%	46.9%
Chrysler-Fiat	Truck	All	2012	3.3%	88.7%	8.0%		100.0%			27.7%		72.3%		87.0%			48.2%	51.8%
Chrysler-Fiat	All	All	1975	16.3%													45.0%	37.5%	17.5%
Chrysler-Fiat	All	All	1976	16.4%													43.1%	40.1%	16.8%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Chrysler-Fiat	All	All	1977	16.2	12.6	15.5	13.8	4093		296	136	14.2	0.477	0.0330	33.5			1.5%	9.2%
Chrysler-Fiat	All	All	1978	17.6	13.8	16.7	15.0	3764		267	128	13.8	0.516	0.0337	33.7			9.0%	12.1%
Chrysler-Fiat	All	All	1979	18.8	14.9	17.6	16.0	3564		238	116	14.2	0.533	0.0324	34.2			19.2%	8.4%
Chrysler-Fiat	All	All	1980	21.5	16.9	20.4	18.3	3188		195	94	15.3	0.536	0.0296	34.6			30.3%	11.1%
Chrysler-Fiat	All	All	1981	24.5	19.2	23.4	20.9	2972		172	95	14.2	0.599	0.0323	36.8			56.4%	7.7%
Chrysler-Fiat	All	All	1982	24.5	19.2	23.3	20.9	3120		186	99	14.3	0.577	0.0319	38.8			53.9%	10.0%
Chrysler-Fiat	All	All	1983	25.8	20.4	24.1	21.9	3029		174	96	14.5	0.596	0.0315	39.9			59.3%	10.6%
Chrysler-Fiat	All	All	1984	24.6	19.4	23.2	21.0	3080		168	98	14.4	0.631	0.0319	38.8			67.9%	12.6%
Chrysler-Fiat	All	All	1985	24.6	19.4	23.2	20.9	3163		173	110	13.5	0.692	0.0349	39.7			73.3%	4.8%
Chrysler-Fiat	All	All	1986	24.8	19.4	23.2	21.0	3201		170	109	13.7	0.688	0.0341	40.4			66.9%	13.4%
Chrysler-Fiat	All	All	1987	24.6	19.0	23.3	20.8	3222		179	116	13.2	0.691	0.0361	40.0			64.6%	13.6%
Chrysler-Fiat	All	All	1988	24.7	18.8	23.6	20.8	3313		181	122	12.9	0.703	0.0369	41.3			69.5%	14.2%
Chrysler-Fiat	All	All	1989	24.1	18.2	23.1	20.2	3405		182	125	13.0	0.712	0.0366	41.7			70.6%	15.4%
Chrysler-Fiat	All	All	1990	23.9	17.9	23.2	20.1	3529		192	136	12.5	0.732	0.0385	42.7			74.6%	13.7%
Chrysler-Fiat	All	All	1991	24.1	18.0	22.9	20.1	3512		188	137	12.4	0.750	0.0390	42.8			74.7%	14.7%
Chrysler-Fiat	All	All	1992	23.7	17.6	22.5	19.7	3575		193	142	12.3	0.748	0.0396	42.8			71.6%	14.5%
Chrysler-Fiat	All	All	1993	23.5	17.2	22.7	19.6	3567		202	151	11.7	0.756	0.0421	42.5			67.7%	11.1%
Chrysler-Fiat	All	All	1994	22.2	16.2	21.3	18.4	3768		218	164	11.4	0.762	0.0433	42.3			59.5%	20.2%
Chrysler-Fiat	All	All	1995	22.9	16.6	22.1	19.0	3619		203	166	10.8	0.859	0.0460	42.2			60.8%	24.5%
Chrysler-Fiat	All	All	1996	22.2	15.8	21.6	18.3	3882		215	177	10.8	0.868	0.0461	43.6			61.6%	21.2%
Chrysler-Fiat	All	All	1997	22.2	15.7	21.6	18.3	3913		217	175	11.0	0.847	0.0449	43.8			57.1%	26.6%
Chrysler-Fiat	All	All	1998	21.9	15.4	21.3	18.0	3990		221	177	11.0	0.848	0.0447	44.1			51.0%	31.4%
Chrysler-Fiat	All	All	1999	21.5	15.0	20.8	17.6	4120		231	192	10.7	0.870	0.0467	44.7			49.6%	33.2%
Chrysler-Fiat	All	All	2000	22.3	15.5	21.4	18.2	3986		217	186	10.7	0.893	0.0468	44.9			54.3%	29.2%
Chrysler-Fiat	All	All	2001	21.6	15.0	20.6	17.6	4170		228	195	10.6	0.897	0.0471	45.6			49.9%	30.0%
Chrysler-Fiat	All	All	2002	21.8	15.2	20.5	17.7	4203		221	204	10.3	0.962	0.0490	46.3			50.8%	30.0%
Chrysler-Fiat	All	All	2003	22.3	15.5	20.5	17.9	4266		228	203	10.4	0.920	0.0477	47.9			46.3%	31.6%
Chrysler-Fiat	All	All	2004	22.0	15.0	20.6	17.7	4236		230	223	9.7	0.998	0.0525	46.9			39.0%	41.0%
Chrysler-Fiat	All	All	2005	22.6	15.3	21.1	18.2	4278		227	221	9.9	0.998	0.0517	48.7			47.7%	28.4%
Chrysler-Fiat	All	All	2006	22.5	15.2	21.2	18.1	4374		234	232	9.7	1.013	0.0533	49.6			38.0%	29.6%
Chrysler-Fiat	All	All	2007	23.2	15.8	21.4	18.6	4325		223	223	9.8	1.038	0.0517	50.4			41.0%	34.4%
Chrysler-Fiat	All	All	2008	24.1	16.4	22.4	19.3	4306		217	217	10.2	1.029	0.0503	52.5			45.0%	30.1%
Chrysler-Fiat	All	All	2009	23.9	16.1	22.3	19.1	4403		224	230	9.9	1.051	0.0519	52.8			47.0%	28.6%
Chrysler-Fiat	All	All	2010	24.3	16.4	22.8	19.5	4337		222	227	9.9	1.033	0.0520	53.0			49.3%	26.6%
Chrysler-Fiat	All	All	2011	24.2	16.2	22.8	19.4	4481		234	269	8.9	1.161	0.0593	54.4			33.3%	44.3%
Chrysler-Fiat	All	All	2012	25.7	17.2	24.3	20.6	4296		218	263	8.8	1.217	0.0600	55.4			49.6%	33.8%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Chrysler-Fiat	All	All	1977	13.8%				0.1%									34.9%	45.1%	20.1%
Chrysler-Fiat	All	All	1978	20.7%	37.2%			0.2%		0.1%							44.5%	42.3%	13.2%
Chrysler-Fiat	All	All	1979	23.9%	36.6%			0.1%		0.1%							40.5%	42.8%	16.8%
Chrysler-Fiat	All	All	1980	30.5%	38.6%			0.9%									58.2%	33.0%	8.8%
Chrysler-Fiat	All	All	1981	33.6%	18.9%			2.2%	0.6%								47.7%	46.1%	6.1%
Chrysler-Fiat	All	All	1982	26.3%	22.9%			1.3%	0.2%								36.4%	56.0%	7.6%
Chrysler-Fiat	All	All	1983	31.1%	16.8%			1.0%	10.1%	0.5%							41.7%	52.4%	5.9%
Chrysler-Fiat	All	All	1984	30.1%	12.7%			6.2%	16.1%	0.2%							41.9%	51.5%	6.7%
Chrysler-Fiat	All	All	1985	20.1%	11.3%			11.0%	21.2%	0.1%							32.2%	60.1%	7.6%
Chrysler-Fiat	All	All	1986	22.6%	18.3%			10.9%	32.6%	0.0%	60.3%		0.1%				28.9%	63.2%	8.0%
Chrysler-Fiat	All	All	1987	20.3%	38.1%			22.5%	28.1%	0.0%	58.3%		0.0%				32.5%	63.4%	4.2%
Chrysler-Fiat	All	All	1988	16.5%	70.8%			39.0%	48.1%		54.2%		0.1%				30.4%	64.1%	5.4%
Chrysler-Fiat	All	All	1989	15.6%	68.0%			47.8%	47.2%		51.0%		0.4%				29.3%	65.3%	5.4%
Chrysler-Fiat	All	All	1990	13.3%	82.3%			62.3%	35.7%		45.0%		3.9%				28.0%	63.6%	8.4%
Chrysler-Fiat	All	All	1991	14.5%	83.1%			65.7%	34.0%		46.3%	3.6%	4.7%				28.8%	63.3%	7.9%
Chrysler-Fiat	All	All	1992	13.9%	84.7%			78.9%	21.1%		41.8%	2.2%	1.0%				27.5%	67.2%	5.3%
Chrysler-Fiat	All	All	1993	11.3%	87.7%			84.0%	16.0%		46.7%	1.4%	6.4%				22.2%	66.7%	11.2%
Chrysler-Fiat	All	All	1994	9.4%	89.9%			88.1%	11.9%		89.9%	0.6%	9.5%				16.2%	61.7%	22.1%
Chrysler-Fiat	All	All	1995	13.3%	86.4%			96.6%	3.4%		66.9%	0.1%	33.0%	0.0%	0.0%		28.5%	50.8%	20.7%
Chrysler-Fiat	All	All	1996	6.4%	93.3%			100.0%			68.1%	0.0%	31.9%	0.0%	0.0%		15.9%	62.3%	21.9%
Chrysler-Fiat	All	All	1997	9.2%	90.5%			100.0%			66.1%		33.8%	0.0%	0.0%		26.4%	50.3%	23.3%
Chrysler-Fiat	All	All	1998	8.6%	91.4%			100.0%			68.5%		31.5%	0.0%	0.0%		18.8%	57.4%	23.8%
Chrysler-Fiat	All	All	1999	5.5%	94.5%			100.0%			68.9%		31.1%	0.0%	0.1%		11.6%	54.9%	33.5%
Chrysler-Fiat	All	All	2000	4.9%	95.1%			100.0%			64.8%		35.1%	0.0%	0.0%		17.2%	50.8%	32.0%
Chrysler-Fiat	All	All	2001	6.0%	94.0%			100.0%			65.8%		34.2%	0.0%	0.0%		21.3%	42.9%	35.8%
Chrysler-Fiat	All	All	2002	5.6%	94.4%			100.0%			65.7%		34.2%	0.0%	0.1%		20.1%	49.0%	30.9%
Chrysler-Fiat	All	All	2003	6.2%	93.8%			100.0%			74.7%		25.3%	0.1%	0.1%		19.4%	45.9%	34.7%
Chrysler-Fiat	All	All	2004	5.5%	94.5%			100.0%			63.5%	0.9%	35.6%	0.1%	0.1%		20.0%	47.2%	32.8%
Chrysler-Fiat	All	All	2005	3.8%	96.1%			99.6%		0.4%	67.7%	1.0%	31.2%	0.0%	0.2%		18.0%	50.3%	31.7%
Chrysler-Fiat	All	All	2006	3.4%	96.5%			99.7%		0.3%	67.3%	0.3%	32.3%		0.2%		12.8%	48.4%	38.8%
Chrysler-Fiat	All	All	2007	3.6%	82.0%	14.4%		99.8%		0.2%	63.5%	0.2%	36.4%		18.8%		22.3%	47.7%	30.0%
Chrysler-Fiat	All	All	2008	3.6%	86.3%	9.9%		99.9%		0.1%	56.9%	0.1%	43.0%		20.1%		14.4%	58.0%	27.6%
Chrysler-Fiat	All	All	2009	2.7%	87.0%	10.0%	0.0%	100.0%			55.8%		44.2%		33.2%	0.2%	14.8%	48.2%	37.0%
Chrysler-Fiat	All	All	2010	3.3%	87.7%	8.8%	0.1%	99.9%			55.8%		44.2%		30.1%		18.8%	51.2%	30.0%
Chrysler-Fiat	All	All	2011	2.8%	85.3%	11.7%	0.1%	99.9%			41.6%		58.4%		72.6%		6.8%	50.0%	43.2%
Chrysler-Fiat	All	All	2012	4.2%	89.8%	5.8%	0.1%	99.9%			22.6%		77.4%		90.7%		8.8%	49.5%	41.6%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Hyundai	Car	Car	1975																
Hyundai	Car	Car	1976																
Hyundai	Car	Car	1977																
Hyundai	Car	Car	1978																
Hyundai	Car	Car	1979																
Hyundai	Car	Car	1980																
Hyundai	Car	Car	1981																
Hyundai	Car	Car	1982																
Hyundai	Car	Car	1983																
Hyundai	Car	Car	1984																
Hyundai	Car	Car	1985																
Hyundai	Car	Car	1986	N/A	27.9	31.6	29.5	2500	94.2	90	68	15.9	0.756	0.0272	43.7	3296	4120	100.0%	
Hyundai	Car	Car	1987	34.5	27.5	30.9	29.0	2500	94.2	90	68	16.0	0.756	0.0272	43.2	3259	4073	100.0%	
Hyundai	Car	Car	1988	34.3	27.2	30.5	28.7	2500	94.2	90	68	16.0	0.756	0.0272	43.0	3240	4050	100.0%	
Hyundai	Car	Car	1989	33.1	25.2	31.3	27.8	2580	97.4	99	75	15.5	0.758	0.0287	42.9	3239	4170	100.0%	
Hyundai	Car	Car	1990	33.1	25.2	30.7	27.6	2636	99.1	103	89	13.6	0.873	0.0335	43.8	3310	4335	100.0%	
Hyundai	Car	Car	1991	32.7	24.6	30.4	27.1	2632	99.1	103	89	13.7	0.877	0.0335	43.2	3268	4272	100.0%	
Hyundai	Car	Car	1992	31.1	23.0	29.3	25.7	2776	100.0	102	99	13.1	0.982	0.0353	43.2	3139	4323	100.0%	
Hyundai	Car	Car	1993	31.0	23.0	28.9	25.6	2790	101.0	105	104	12.7	0.991	0.0370	43.4	3167	4384	100.0%	
Hyundai	Car	Car	1994	32.7	23.8	30.8	26.9	2666	98.9	98	98	12.9	0.992	0.0365	43.8	3268	4329	100.0%	
Hyundai	Car	Car	1995	30.9	22.1	29.5	25.4	2813	103.8	110	112	12.0	1.031	0.0396	43.7	3262	4535	100.0%	
Hyundai	Car	Car	1996	32.9	23.2	31.8	27.0	2696	104.0	102	107	12.1	1.050	0.0393	44.5	3453	4623	100.0%	
Hyundai	Car	Car	1997	31.1	21.8	29.9	25.4	2809	104.0	108	115	11.8	1.069	0.0407	43.8	3267	4547	100.0%	
Hyundai	Car	Car	1998	30.6	21.5	29.1	24.9	2824	104.5	108	114	11.9	1.054	0.0401	43.4	3239	4533	100.0%	
Hyundai	Car	Car	1999	30.6	21.0	29.7	24.9	2945	106.0	117	126	11.5	1.063	0.0422	45.0	3251	4777	100.0%	
Hyundai	Car	Car	2000	30.1	20.5	29.2	24.4	3027	104.9	120	129	11.5	1.076	0.0424	45.6	3175	4781	100.0%	
Hyundai	Car	Car	2001	31.0	21.0	29.8	25.0	3072	106.4	123	132	11.3	1.077	0.0428	47.6	3324	5072	100.0%	
Hyundai	Car	Car	2002	30.8	20.8	29.5	24.8	3101	107.9	128	135	11.2	1.061	0.0432	47.8	3353	5161	100.0%	
Hyundai	Car	Car	2003	30.1	20.2	28.5	24.1	3162	106.9	133	141	11.0	1.068	0.0443	47.7	3254	5100	100.0%	
Hyundai	Car	Car	2004	29.2	19.5	27.7	23.4	3247	108.8	139	146	10.9	1.061	0.0448	47.6	3224	5184	100.0%	
Hyundai	Car	Car	2005	30.2	20.0	28.1	24.0	3179	110.2	134	142	11.0	1.073	0.0446	48.1	3365	5297	100.0%	
Hyundai	Car	Car	2006	29.8	19.6	28.4	23.8	3524	116.3	163	186	9.8	1.143	0.0520	52.4	3490	6118	100.0%	
Hyundai	Car	Car	2007	32.1	21.1	30.0	25.4	3384	115.2	149	170	10.2	1.138	0.0493	54.3	3740	6264	100.0%	
Hyundai	Car	Car	2008	33.8	22.4	31.1	26.6	3220	113.6	135	153	10.6	1.133	0.0467	54.4	3870	6191	100.0%	
Hyundai	Car	Car	2009	33.8	22.2	31.5	26.7	3348	116.6	144	172	10.1	1.185	0.0503	56.4	3960	6586	93.8%	
Hyundai	Car	Car	2010	35.9	23.8	32.7	28.2	3168	113.0	133	158	10.3	1.178	0.0490	57.0	4107	6454	90.3%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Hyundai	Car	Car	1975																
Hyundai	Car	Car	1976																
Hyundai	Car	Car	1977																
Hyundai	Car	Car	1978																
Hyundai	Car	Car	1979																
Hyundai	Car	Car	1980																
Hyundai	Car	Car	1981																
Hyundai	Car	Car	1982																
Hyundai	Car	Car	1983																
Hyundai	Car	Car	1984																
Hyundai	Car	Car	1985																
Hyundai	Car	Car	1986	74.6%							100.0%						100.0%		
Hyundai	Car	Car	1987	63.3%	36.7%							100.0%					100.0%		
Hyundai	Car	Car	1988	59.5%	40.5%							100.0%					100.0%		
Hyundai	Car	Car	1989	47.1%	52.9%			16.0%			100.0%						84.0%	16.0%	
Hyundai	Car	Car	1990	42.1%	51.9%			100.0%			100.0%						78.9%	21.1%	
Hyundai	Car	Car	1991	39.1%	53.2%			100.0%			100.0%						81.5%	18.5%	
Hyundai	Car	Car	1992	36.4%	55.2%			100.0%			75.3%		24.7%				85.3%	14.7%	
Hyundai	Car	Car	1993	33.7%	59.3%			100.0%			47.4%	45.0%	7.6%				85.4%	14.6%	
Hyundai	Car	Car	1994	40.8%	58.2%			100.0%			1.1%		98.9%				98.2%	1.8%	
Hyundai	Car	Car	1995	29.8%	70.2%			100.0%			10.1%	41.8%	48.1%				77.0%	23.0%	
Hyundai	Car	Car	1996	30.2%	69.8%			100.0%			2.5%	57.8%	39.7%				87.5%	12.5%	
Hyundai	Car	Car	1997	28.1%	71.9%			100.0%			5.5%	35.0%	59.5%		4.8%		81.6%	18.4%	
Hyundai	Car	Car	1998	22.8%	77.2%			100.0%			3.8%	36.5%	59.7%		7.4%		81.1%	18.9%	
Hyundai	Car	Car	1999	25.3%	74.7%			100.0%				31.0%	69.0%		49.0%		80.0%	20.0%	
Hyundai	Car	Car	2000	19.5%	80.5%			100.0%				25.5%	74.5%		52.6%		78.1%	21.9%	
Hyundai	Car	Car	2001	21.6%	78.4%			100.0%				6.4%	93.6%		47.2%		75.5%	24.5%	
Hyundai	Car	Car	2002	15.9%	84.1%			100.0%				5.8%	94.2%		38.4%		68.1%	31.9%	
Hyundai	Car	Car	2003	16.1%	83.9%			100.0%					100.0%		45.4%		72.0%	28.0%	
Hyundai	Car	Car	2004	12.1%	87.9%			100.0%					100.0%		37.8%		56.1%	43.9%	
Hyundai	Car	Car	2005	12.3%	87.7%			100.0%					100.0%		46.7%		22.2%	77.8%	
Hyundai	Car	Car	2006	6.1%	93.9%			100.0%					100.0%		90.8%		12.4%	29.5%	58.1%
Hyundai	Car	Car	2007	7.5%	92.5%			100.0%					100.0%		46.1%		20.5%	28.2%	51.3%
Hyundai	Car	Car	2008	8.1%	91.9%			100.0%					100.0%		36.5%		22.9%	40.5%	36.6%
Hyundai	Car	Car	2009	5.5%	94.5%			100.0%					100.0%		100.0%		19.1%	21.9%	59.0%
Hyundai	Car	Car	2010	6.4%	93.6%			100.0%					100.0%		100.0%		24.7%	45.5%	29.7%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Hyundai	Car	Car	2011	N/A	23.2	34.4	28.5	3393	116.9	141	195	9.1	1.396	0.0569	N/A	N/A	N/A	92.8%	
Hyundai	Car	Car	2012	N/A	25.6	34.9	30.2	3151	110.5	119	172	9.6	1.439	0.0535	N/A	N/A	N/A	92.9%	
Hyundai	Car	Wagon	1975																
Hyundai	Car	Wagon	1976																
Hyundai	Car	Wagon	1977																
Hyundai	Car	Wagon	1978																
Hyundai	Car	Wagon	1979																
Hyundai	Car	Wagon	1980																
Hyundai	Car	Wagon	1981																
Hyundai	Car	Wagon	1982																
Hyundai	Car	Wagon	1983																
Hyundai	Car	Wagon	1984																
Hyundai	Car	Wagon	1985																
Hyundai	Car	Wagon	1986																
Hyundai	Car	Wagon	1987																
Hyundai	Car	Wagon	1988																
Hyundai	Car	Wagon	1989																
Hyundai	Car	Wagon	1990																
Hyundai	Car	Wagon	1991																
Hyundai	Car	Wagon	1992																
Hyundai	Car	Wagon	1993																
Hyundai	Car	Wagon	1994																
Hyundai	Car	Wagon	1995																
Hyundai	Car	Wagon	1996	30.2	21.2	29.7	24.9	3000	126.9	110	130	11.1	1.182	0.0433	45.3	3836	5754	100.0%	
Hyundai	Car	Wagon	1997	30.4	21.2	29.7	24.9	3000	126.9	109	130	11.1	1.193	0.0433	45.6	3858	5787	100.0%	
Hyundai	Car	Wagon	1998	29.5	20.6	28.3	24.1	3000	126.9	110	128	11.3	1.164	0.0427	44.3	3748	5622	100.0%	
Hyundai	Car	Wagon	1999	28.9	19.8	28.4	23.6	3000	126.9	121	136	10.7	1.124	0.0453	43.4	3668	5502	100.0%	
Hyundai	Car	Wagon	2000	28.9	19.7	28.2	23.5	3000	126.9	121	136	10.7	1.124	0.0453	43.4	3671	5507	100.0%	
Hyundai	Car	Wagon	2001																
Hyundai	Car	Wagon	2002																
Hyundai	Car	Wagon	2003																
Hyundai	Car	Wagon	2004																
Hyundai	Car	Wagon	2005																
Hyundai	Car	Wagon	2006																
Hyundai	Car	Wagon	2007																
Hyundai	Car	Wagon	2008																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Hyundai	Car	Car	2011	2.4%	95.0%		64.0%	36.0%					100.0%		100.0%	2.6%	9.3%	21.5%	69.2%
Hyundai	Car	Car	2012	10.9%	87.0%		70.9%	29.1%					100.0%		100.0%	2.1%	51.2%	25.3%	23.5%
Hyundai	Car	Wagon	1975																
Hyundai	Car	Wagon	1976																
Hyundai	Car	Wagon	1977																
Hyundai	Car	Wagon	1978																
Hyundai	Car	Wagon	1979																
Hyundai	Car	Wagon	1980																
Hyundai	Car	Wagon	1981																
Hyundai	Car	Wagon	1982																
Hyundai	Car	Wagon	1983																
Hyundai	Car	Wagon	1984																
Hyundai	Car	Wagon	1985																
Hyundai	Car	Wagon	1986																
Hyundai	Car	Wagon	1987																
Hyundai	Car	Wagon	1988																
Hyundai	Car	Wagon	1989																
Hyundai	Car	Wagon	1990																
Hyundai	Car	Wagon	1991																
Hyundai	Car	Wagon	1992																
Hyundai	Car	Wagon	1993																
Hyundai	Car	Wagon	1994																
Hyundai	Car	Wagon	1995																
Hyundai	Car	Wagon	1996	10.7%	89.3%			100.0%					100.0%				100.0%		
Hyundai	Car	Wagon	1997	18.3%	81.7%			100.0%					100.0%				100.0%		
Hyundai	Car	Wagon	1998	15.4%	84.6%			100.0%					100.0%				100.0%		
Hyundai	Car	Wagon	1999	15.5%	84.5%			100.0%					100.0%		100.0%		100.0%		
Hyundai	Car	Wagon	2000	9.2%	90.8%			100.0%					100.0%		100.0%		100.0%		
Hyundai	Car	Wagon	2001																
Hyundai	Car	Wagon	2002																
Hyundai	Car	Wagon	2003																
Hyundai	Car	Wagon	2004																
Hyundai	Car	Wagon	2005																
Hyundai	Car	Wagon	2006																
Hyundai	Car	Wagon	2007																
Hyundai	Car	Wagon	2008																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Hyundai	Car	Wagon	2009	34.5	23.4	30.4	26.9	3458	128.8	121	138	11.9	1.140	0.0400	59.7	4448	7690	100.0%	
Hyundai	Car	Wagon	2010	34.5	23.4	30.4	26.9	3500	129.0	122	138	12.0	1.131	0.0394	60.4	4454	7795	100.0%	
Hyundai	Car	Wagon	2011	N/A	23.4	30.4	26.9	3500	128.8	122	138	12.0	1.131	0.0394	N/A	N/A	N/A	100.0%	
Hyundai	Car	Wagon	2012	N/A	23.4	30.4	26.9	3500	128.8	122	138	12.0	1.131	0.0394	N/A	N/A	N/A	100.0%	
Hyundai	Car	Non-Truck SUV	1975																
Hyundai	Car	Non-Truck SUV	1976																
Hyundai	Car	Non-Truck SUV	1977																
Hyundai	Car	Non-Truck SUV	1978																
Hyundai	Car	Non-Truck SUV	1979																
Hyundai	Car	Non-Truck SUV	1980																
Hyundai	Car	Non-Truck SUV	1981																
Hyundai	Car	Non-Truck SUV	1982																
Hyundai	Car	Non-Truck SUV	1983																
Hyundai	Car	Non-Truck SUV	1984																
Hyundai	Car	Non-Truck SUV	1985																
Hyundai	Car	Non-Truck SUV	1986																
Hyundai	Car	Non-Truck SUV	1987																
Hyundai	Car	Non-Truck SUV	1988																
Hyundai	Car	Non-Truck SUV	1989																
Hyundai	Car	Non-Truck SUV	1990																
Hyundai	Car	Non-Truck SUV	1991																
Hyundai	Car	Non-Truck SUV	1992																
Hyundai	Car	Non-Truck SUV	1993																
Hyundai	Car	Non-Truck SUV	1994																
Hyundai	Car	Non-Truck SUV	1995																
Hyundai	Car	Non-Truck SUV	1996																
Hyundai	Car	Non-Truck SUV	1997																
Hyundai	Car	Non-Truck SUV	1998																
Hyundai	Car	Non-Truck SUV	1999																
Hyundai	Car	Non-Truck SUV	2000																
Hyundai	Car	Non-Truck SUV	2001	25.9	17.8	24.7	21.0	4000	125.0	154	157	12.2	1.019	0.0393	51.8	3237	6474	100.0%	
Hyundai	Car	Non-Truck SUV	2002	25.3	17.3	24.0	20.5	4000	125.0	157	164	11.7	1.040	0.0411	50.7	3167	6334	100.0%	
Hyundai	Car	Non-Truck SUV	2003	25.6	17.6	23.8	20.6	4000	125.0	163	164	11.8	1.008	0.0410	51.4	3215	6430	100.0%	
Hyundai	Car	Non-Truck SUV	2004	25.0	17.0	23.3	20.1	4000	125.0	169	168	11.6	0.996	0.0420	50.4	3148	6296	100.0%	
Hyundai	Car	Non-Truck SUV	2005	25.4	17.4	23.1	20.2	3922	125.0	162	171	11.2	1.060	0.0435	49.9	3190	6242	100.0%	
Hyundai	Car	Non-Truck SUV	2006	25.7	17.6	23.3	20.4	3903	125.0	157	168	11.3	1.073	0.0429	50.2	3222	6273	100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Hyundai	Car	Wagon	2009	8.4%	91.6%			100.0%					100.0%		100.0%		100.0%		
Hyundai	Car	Wagon	2010	7.9%	92.1%			100.0%					100.0%		100.0%		100.0%		
Hyundai	Car	Wagon	2011	9.5%	90.5%			100.0%					100.0%		100.0%		100.0%		
Hyundai	Car	Wagon	2012	10.0%	90.0%			100.0%					100.0%		100.0%		100.0%		
Hyundai	Car	Non-Truck SUV	1975																
Hyundai	Car	Non-Truck SUV	1976																
Hyundai	Car	Non-Truck SUV	1977																
Hyundai	Car	Non-Truck SUV	1978																
Hyundai	Car	Non-Truck SUV	1979																
Hyundai	Car	Non-Truck SUV	1980																
Hyundai	Car	Non-Truck SUV	1981																
Hyundai	Car	Non-Truck SUV	1982																
Hyundai	Car	Non-Truck SUV	1983																
Hyundai	Car	Non-Truck SUV	1984																
Hyundai	Car	Non-Truck SUV	1985																
Hyundai	Car	Non-Truck SUV	1986																
Hyundai	Car	Non-Truck SUV	1987																
Hyundai	Car	Non-Truck SUV	1988																
Hyundai	Car	Non-Truck SUV	1989																
Hyundai	Car	Non-Truck SUV	1990																
Hyundai	Car	Non-Truck SUV	1991																
Hyundai	Car	Non-Truck SUV	1992																
Hyundai	Car	Non-Truck SUV	1993																
Hyundai	Car	Non-Truck SUV	1994																
Hyundai	Car	Non-Truck SUV	1995																
Hyundai	Car	Non-Truck SUV	1996																
Hyundai	Car	Non-Truck SUV	1997																
Hyundai	Car	Non-Truck SUV	1998																
Hyundai	Car	Non-Truck SUV	1999																
Hyundai	Car	Non-Truck SUV	2000																
Hyundai	Car	Non-Truck SUV	2001	7.9%	92.1%			100.0%					100.0%					100.0%	
Hyundai	Car	Non-Truck SUV	2002	3.0%	97.0%			100.0%					100.0%					100.0%	
Hyundai	Car	Non-Truck SUV	2003	6.2%	93.8%			100.0%					100.0%					100.0%	
Hyundai	Car	Non-Truck SUV	2004	4.2%	95.8%			100.0%					100.0%					100.0%	
Hyundai	Car	Non-Truck SUV	2005	2.9%	97.1%			100.0%					100.0%					100.0%	
Hyundai	Car	Non-Truck SUV	2006	4.5%	95.5%			100.0%					100.0%					100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Hyundai	Car	Non-Truck SUV	2007	26.0	17.8	23.4	20.6	3956	127.0	175	203	10.0	1.156	0.0510	51.3	3301	6524	100.0%	
Hyundai	Car	Non-Truck SUV	2008	26.1	17.8	23.8	20.8	3978	127.7	175	201	10.1	1.149	0.0503	52.0	3339	6639	100.0%	
Hyundai	Car	Non-Truck SUV	2009	26.4	18.0	23.9	21.0	3949	125.6	174	202	10.0	1.158	0.0509	52.1	3321	6550	100.0%	
Hyundai	Car	Non-Truck SUV	2010	30.4	20.5	27.6	24.0	3901	127.3	167	202	9.9	1.210	0.0516	59.4	3891	7559	100.0%	
Hyundai	Car	Non-Truck SUV	2011	N/A	20.3	28.0	24.1	3833	127.1	166	202	9.7	1.222	0.0526	N/A	N/A	N/A	100.0%	
Hyundai	Car	Non-Truck SUV	2012	N/A	19.9	27.1	23.4	3870	128.7	169	205	9.7	1.219	0.0527	N/A	N/A	N/A	100.0%	
Hyundai	Truck	Truck SUV	1975																
Hyundai	Truck	Truck SUV	1976																
Hyundai	Truck	Truck SUV	1977																
Hyundai	Truck	Truck SUV	1978																
Hyundai	Truck	Truck SUV	1979																
Hyundai	Truck	Truck SUV	1980																
Hyundai	Truck	Truck SUV	1981																
Hyundai	Truck	Truck SUV	1982																
Hyundai	Truck	Truck SUV	1983																
Hyundai	Truck	Truck SUV	1984																
Hyundai	Truck	Truck SUV	1985																
Hyundai	Truck	Truck SUV	1986																
Hyundai	Truck	Truck SUV	1987																
Hyundai	Truck	Truck SUV	1988																
Hyundai	Truck	Truck SUV	1989																
Hyundai	Truck	Truck SUV	1990																
Hyundai	Truck	Truck SUV	1991																
Hyundai	Truck	Truck SUV	1992																
Hyundai	Truck	Truck SUV	1993																
Hyundai	Truck	Truck SUV	1994																
Hyundai	Truck	Truck SUV	1995																
Hyundai	Truck	Truck SUV	1996																
Hyundai	Truck	Truck SUV	1997																
Hyundai	Truck	Truck SUV	1998																
Hyundai	Truck	Truck SUV	1999																
Hyundai	Truck	Truck SUV	2000																
Hyundai	Truck	Truck SUV	2001	24.0	17.0	21.8	19.3	4000		162	173	11.2	1.068	0.0433	47.9				100.0%
Hyundai	Truck	Truck SUV	2002	23.5	16.5	21.7	19.0	4000		162	173	11.2	1.068	0.0433	47.1				100.0%
Hyundai	Truck	Truck SUV	2003	23.3	16.2	21.3	18.7	4000		173	178	11.0	1.034	0.0445	46.7				100.0%
Hyundai	Truck	Truck SUV	2004	22.8	15.8	20.7	18.3	4000		184	185	10.6	1.012	0.0462	45.8				100.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Hyundai	Car	Non-Truck SUV	2007	2.3%	97.7%			100.0%					100.0%		8.1%			91.9%	8.1%
Hyundai	Car	Non-Truck SUV	2008	1.8%	98.2%			100.0%					100.0%		50.1%			89.2%	10.8%
Hyundai	Car	Non-Truck SUV	2009	1.2%	98.8%			100.0%					100.0%		51.7%			97.6%	2.4%
Hyundai	Car	Non-Truck SUV	2010	1.2%	98.8%			100.0%					100.0%		100.0%			90.7%	9.3%
Hyundai	Car	Non-Truck SUV	2011	0.9%	99.1%			100.0%					100.0%		100.0%			91.5%	8.5%
Hyundai	Car	Non-Truck SUV	2012	2.8%	97.2%			100.0%					100.0%		100.0%			85.3%	14.7%
Hyundai	Truck	Truck SUV	1975																
Hyundai	Truck	Truck SUV	1976																
Hyundai	Truck	Truck SUV	1977																
Hyundai	Truck	Truck SUV	1978																
Hyundai	Truck	Truck SUV	1979																
Hyundai	Truck	Truck SUV	1980																
Hyundai	Truck	Truck SUV	1981																
Hyundai	Truck	Truck SUV	1982																
Hyundai	Truck	Truck SUV	1983																
Hyundai	Truck	Truck SUV	1984																
Hyundai	Truck	Truck SUV	1985																
Hyundai	Truck	Truck SUV	1986																
Hyundai	Truck	Truck SUV	1987																
Hyundai	Truck	Truck SUV	1988																
Hyundai	Truck	Truck SUV	1989																
Hyundai	Truck	Truck SUV	1990																
Hyundai	Truck	Truck SUV	1991																
Hyundai	Truck	Truck SUV	1992																
Hyundai	Truck	Truck SUV	1993																
Hyundai	Truck	Truck SUV	1994																
Hyundai	Truck	Truck SUV	1995																
Hyundai	Truck	Truck SUV	1996																
Hyundai	Truck	Truck SUV	1997																
Hyundai	Truck	Truck SUV	1998																
Hyundai	Truck	Truck SUV	1999																
Hyundai	Truck	Truck SUV	2000																
Hyundai	Truck	Truck SUV	2001		100.0%			100.0%					100.0%					100.0%	
Hyundai	Truck	Truck SUV	2002		100.0%			100.0%					100.0%					100.0%	
Hyundai	Truck	Truck SUV	2003		100.0%			100.0%					100.0%					100.0%	
Hyundai	Truck	Truck SUV	2004		100.0%			100.0%					100.0%					100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Hyundai	Truck	Truck SUV	2005	23.0	15.7	21.3	18.4	4000		179	180	10.9	1.012	0.0450	46.1				100.0%
Hyundai	Truck	Truck SUV	2006	22.9	15.6	21.3	18.4	4208		183	182	11.2	1.003	0.0433	48.1				100.0%
Hyundai	Truck	Truck SUV	2007	24.5	16.7	22.4	19.5	4397		184	213	10.4	1.152	0.0482	53.8				100.0%
Hyundai	Truck	Truck SUV	2008	24.6	16.6	22.9	19.7	4425		190	218	10.2	1.148	0.0492	54.4				100.0%
Hyundai	Truck	Truck SUV	2009	24.9	16.8	23.1	19.9	4469		184	213	10.5	1.158	0.0477	55.6				100.0%
Hyundai	Truck	Truck SUV	2010	29.2	19.8	26.3	23.0	3944		173	211	9.7	1.217	0.0534	57.7				100.0%
Hyundai	Truck	Truck SUV	2011	N/A	19.6	25.6	22.6	3911		178	220	9.3	1.227	0.0559	N/A				100.0%
Hyundai	Truck	Truck SUV	2012	N/A	18.4	24.2	21.3	4011		184	218	9.5	1.191	0.0541	N/A				100.0%
Hyundai	Car	All	1975																
Hyundai	Car	All	1976																
Hyundai	Car	All	1977																
Hyundai	Car	All	1978																
Hyundai	Car	All	1979																
Hyundai	Car	All	1980																
Hyundai	Car	All	1981																
Hyundai	Car	All	1982																
Hyundai	Car	All	1983																
Hyundai	Car	All	1984																
Hyundai	Car	All	1985																
Hyundai	Car	All	1986	34.9	27.9	31.6	29.5	2500	94.2	90	68	15.9	0.756	0.0272	43.7	3296	4120	100.0%	
Hyundai	Car	All	1987	34.5	27.5	30.9	29.0	2500	94.2	90	68	16.0	0.756	0.0272	43.2	3259	4073	100.0%	
Hyundai	Car	All	1988	34.3	27.2	30.5	28.7	2500	94.2	90	68	16.0	0.756	0.0272	43.0	3240	4050	100.0%	
Hyundai	Car	All	1989	33.1	25.2	31.3	27.8	2580	97.4	99	75	15.5	0.758	0.0287	42.9	3239	4170	100.0%	
Hyundai	Car	All	1990	33.1	25.2	30.7	27.6	2636	99.1	103	89	13.6	0.873	0.0335	43.8	3310	4335	100.0%	
Hyundai	Car	All	1991	32.7	24.6	30.4	27.1	2632	99.1	103	89	13.7	0.877	0.0335	43.2	3268	4272	100.0%	
Hyundai	Car	All	1992	31.1	23.0	29.3	25.7	2776	100.0	102	99	13.1	0.982	0.0353	43.2	3139	4323	100.0%	
Hyundai	Car	All	1993	31.0	23.0	28.9	25.6	2790	101.0	105	104	12.7	0.991	0.0370	43.4	3167	4384	100.0%	
Hyundai	Car	All	1994	32.7	23.8	30.8	26.9	2666	98.9	98	98	12.9	0.992	0.0365	43.8	3268	4329	100.0%	
Hyundai	Car	All	1995	30.9	22.1	29.5	25.4	2813	103.8	110	112	12.0	1.031	0.0396	43.7	3262	4535	100.0%	
Hyundai	Car	All	1996	32.7	23.0	31.6	26.8	2720	105.8	102	109	12.0	1.061	0.0397	44.6	3484	4713	100.0%	
Hyundai	Car	All	1997	31.0	21.8	29.9	25.4	2820	105.4	108	116	11.7	1.076	0.0409	43.9	3303	4621	100.0%	
Hyundai	Car	All	1998	30.6	21.4	29.1	24.9	2831	105.4	108	115	11.9	1.058	0.0402	43.5	3259	4576	100.0%	
Hyundai	Car	All	1999	30.5	20.9	29.6	24.8	2948	107.2	118	126	11.4	1.066	0.0424	44.9	3274	4818	100.0%	
Hyundai	Car	All	2000	30.0	20.4	29.1	24.4	3024	106.7	120	130	11.4	1.080	0.0426	45.4	3217	4842	100.0%	
Hyundai	Car	All	2001	30.5	20.7	29.2	24.6	3158	108.1	126	135	11.4	1.072	0.0425	48.0	3316	5202	100.0%	
Hyundai	Car	All	2002	30.0	20.2	28.6	24.2	3218	110.1	132	139	11.3	1.059	0.0429	48.2	3329	5314	100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Hyundai	Truck	Truck SUV	2005		100.0%			100.0%					100.0%					100.0%	
Hyundai	Truck	Truck SUV	2006		100.0%			100.0%					100.0%					100.0%	
Hyundai	Truck	Truck SUV	2007	2.5%	97.5%			100.0%					100.0%		6.0%			94.0%	6.0%
Hyundai	Truck	Truck SUV	2008	0.3%	99.7%			100.0%					100.0%		57.7%			86.2%	13.8%
Hyundai	Truck	Truck SUV	2009	0.4%	99.6%			100.0%					100.0%		50.5%			97.5%	2.5%
Hyundai	Truck	Truck SUV	2010		100.0%			100.0%					100.0%		100.0%			89.8%	10.2%
Hyundai	Truck	Truck SUV	2011		100.0%			100.0%					100.0%		100.0%			91.2%	8.8%
Hyundai	Truck	Truck SUV	2012	1.5%	98.5%			100.0%					100.0%		100.0%			68.8%	31.2%
Hyundai	Car	All	1975																
Hyundai	Car	All	1976																
Hyundai	Car	All	1977																
Hyundai	Car	All	1978																
Hyundai	Car	All	1979																
Hyundai	Car	All	1980																
Hyundai	Car	All	1981																
Hyundai	Car	All	1982																
Hyundai	Car	All	1983																
Hyundai	Car	All	1984																
Hyundai	Car	All	1985																
Hyundai	Car	All	1986	74.6%							100.0%						100.0%		
Hyundai	Car	All	1987	63.3%	36.7%							100.0%					100.0%		
Hyundai	Car	All	1988	59.5%	40.5%							100.0%					100.0%		
Hyundai	Car	All	1989	47.1%	52.9%			16.0%			100.0%						84.0%	16.0%	
Hyundai	Car	All	1990	42.1%	51.9%			100.0%			100.0%						78.9%	21.1%	
Hyundai	Car	All	1991	39.1%	53.2%			100.0%			100.0%						81.5%	18.5%	
Hyundai	Car	All	1992	36.4%	55.2%			100.0%			75.3%		24.7%				85.3%	14.7%	
Hyundai	Car	All	1993	33.7%	59.3%			100.0%			47.4%	45.0%	7.6%				85.4%	14.6%	
Hyundai	Car	All	1994	40.8%	58.2%			100.0%			1.1%		98.9%				98.2%	1.8%	
Hyundai	Car	All	1995	29.8%	70.2%			100.0%			10.1%	41.8%	48.1%				77.0%	23.0%	
Hyundai	Car	All	1996	28.6%	71.4%			100.0%			2.3%	53.2%	44.5%				88.5%	11.5%	
Hyundai	Car	All	1997	27.5%	72.5%			100.0%			5.2%	32.9%	61.9%		4.5%		82.7%	17.3%	
Hyundai	Car	All	1998	22.5%	77.5%			100.0%			3.6%	35.1%	61.3%		7.1%		81.8%	18.2%	
Hyundai	Car	All	1999	24.7%	75.3%			100.0%				29.2%	70.8%		51.9%		81.1%	18.9%	
Hyundai	Car	All	2000	18.7%	81.3%			100.0%				23.4%	76.6%		56.5%		79.9%	20.1%	
Hyundai	Car	All	2001	20.4%	79.6%			100.0%				5.8%	94.2%		42.8%		68.5%	31.5%	
Hyundai	Car	All	2002	14.2%	85.8%			100.0%				5.0%	95.0%		33.4%		59.2%	40.8%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Hyundai	Car	All	2003	29.3	19.8	27.7	23.5	3279	109.4	137	144	11.1	1.059	0.0438	48.2	3249	5284	100.0%	
Hyundai	Car	All	2004	28.2	18.9	26.6	22.6	3413	112.4	146	151	11.1	1.046	0.0442	48.2	3207	5428	100.0%	
Hyundai	Car	All	2005	28.8	19.3	26.7	22.9	3364	113.9	141	149	11.0	1.070	0.0443	48.5	3321	5532	100.0%	
Hyundai	Car	All	2006	29.0	19.2	27.3	23.1	3593	117.9	162	183	10.1	1.130	0.0503	52.0	3442	6146	100.0%	
Hyundai	Car	All	2007	30.0	20.0	27.7	23.8	3554	118.7	157	180	10.2	1.143	0.0498	53.4	3609	6341	100.0%	
Hyundai	Car	All	2008	31.7	21.2	29.1	25.1	3386	116.7	143	163	10.5	1.137	0.0475	53.8	3754	6289	100.0%	
Hyundai	Car	All	2009	32.3	21.4	29.9	25.6	3448	118.3	148	176	10.1	1.179	0.0502	55.8	3866	6604	94.9%	
Hyundai	Car	All	2010	34.9	23.2	31.7	27.4	3294	115.8	138	164	10.3	1.181	0.0490	57.5	4089	6679	92.2%	
Hyundai	Car	All	2011	N/A	22.7	33.2	27.7	3459	118.7	144	195	9.3	1.364	0.0558	N/A	N/A	N/A	94.0%	
Hyundai	Car	All	2012	N/A	24.8	33.9	29.3	3229	112.7	124	174	9.7	1.411	0.0531	N/A	N/A	N/A	93.8%	
Hyundai	Truck	All	1975																
Hyundai	Truck	All	1976																
Hyundai	Truck	All	1977																
Hyundai	Truck	All	1978																
Hyundai	Truck	All	1979																
Hyundai	Truck	All	1980																
Hyundai	Truck	All	1981																
Hyundai	Truck	All	1982																
Hyundai	Truck	All	1983																
Hyundai	Truck	All	1984																
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Hyundai	Truck	All	1996																
Hyundai	Truck	All	1997																
Hyundai	Truck	All	1998																
Hyundai	Truck	All	1999																
Hyundai	Truck	All	2000																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Hyundai	Car	All	2003	14.8%	85.2%			100.0%					100.0%		39.1%		62.0%	38.0%	
Hyundai	Car	All	2004	10.3%	89.7%			100.0%					100.0%		29.5%		43.8%	56.2%	
Hyundai	Car	All	2005	9.9%	90.1%			100.0%					100.0%		35.0%		16.7%	83.3%	
Hyundai	Car	All	2006	5.8%	94.2%			100.0%					100.0%		74.3%		10.1%	42.3%	47.5%
Hyundai	Car	All	2007	6.0%	94.0%			100.0%					100.0%		34.8%		14.4%	47.2%	38.4%
Hyundai	Car	All	2008	6.7%	93.3%			100.0%					100.0%		39.4%		17.9%	51.2%	30.9%
Hyundai	Car	All	2009	4.9%	95.1%			100.0%					100.0%		92.2%		17.7%	33.7%	48.5%
Hyundai	Car	All	2010	5.7%	94.3%			100.0%					100.0%		100.0%		24.1%	50.5%	25.4%
Hyundai	Car	All	2011	2.4%	95.5%		53.1%	46.9%					100.0%		100.0%	2.1%	10.4%	31.0%	58.6%
Hyundai	Car	All	2012	10.1%	88.1%		62.3%	37.7%					100.0%		100.0%	1.8%	47.4%	30.6%	22.1%
Hyundai	Truck	All	1975																
Hyundai	Truck	All	1976																
Hyundai	Truck	All	1977																
Hyundai	Truck	All	1978																
Hyundai	Truck	All	1979																
Hyundai	Truck	All	1980																
Hyundai	Truck	All	1981																
Hyundai	Truck	All	1982																
Hyundai	Truck	All	1983																
Hyundai	Truck	All	1984																
Hyundai	Truck	All	1985																
Hyundai	Truck	All	1986																
Hyundai	Truck	All	1987																
Hyundai	Truck	All	1988																
Hyundai	Truck	All	1989																
Hyundai	Truck	All	1990																
Hyundai	Truck	All	1991																
Hyundai	Truck	All	1992																
Hyundai	Truck	All	1993																
Hyundai	Truck	All	1994																
Hyundai	Truck	All	1995																
Hyundai	Truck	All	1996																
Hyundai	Truck	All	1997																
Hyundai	Truck	All	1998																
Hyundai	Truck	All	1999																
Hyundai	Truck	All	2000																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Hyundai	Truck	All	2001	24.0	17.0	21.8	19.3	4000		162	173	11.2	1.068	0.0433	47.9				100.0%
Hyundai	Truck	All	2002	23.5	16.5	21.7	19.0	4000		162	173	11.2	1.068	0.0433	47.1				100.0%
Hyundai	Truck	All	2003	23.3	16.2	21.3	18.7	4000		173	178	11.0	1.034	0.0445	46.7				100.0%
Hyundai	Truck	All	2004	22.8	15.8	20.7	18.3	4000		184	185	10.6	1.012	0.0462	45.8				100.0%
Hyundai	Truck	All	2005	23.0	15.7	21.3	18.4	4000		179	180	10.9	1.012	0.0450	46.1				100.0%
Hyundai	Truck	All	2006	22.9	15.6	21.3	18.4	4208		183	182	11.2	1.003	0.0433	48.1				100.0%
Hyundai	Truck	All	2007	24.5	16.7	22.4	19.5	4397		184	213	10.4	1.152	0.0482	53.8				100.0%
Hyundai	Truck	All	2008	24.6	16.6	22.9	19.7	4425		190	218	10.2	1.148	0.0492	54.4				100.0%
Hyundai	Truck	All	2009	24.9	16.8	23.1	19.9	4469		184	213	10.5	1.158	0.0477	55.6				100.0%
Hyundai	Truck	All	2010	29.2	19.8	26.3	23.0	3944		173	211	9.7	1.217	0.0534	57.7				100.0%
Hyundai	Truck	All	2011	N/A	19.6	25.6	22.6	3911		178	220	9.3	1.227	0.0559	N/A				100.0%
Hyundai	Truck	All	2012	N/A	18.4	24.2	21.3	4011		184	218	9.5	1.191	0.0541	N/A				100.0%
Hyundai	All	All	1975																
Hyundai	All	All	1976																
Hyundai	All	All	1977																
Hyundai	All	All	1978																
Hyundai	All	All	1979																
Hyundai	All	All	1980																
Hyundai	All	All	1981																
Hyundai	All	All	1982																
Hyundai	All	All	1983																
Hyundai	All	All	1984																
Hyundai	All	All	1985																
Hyundai	All	All	1986	34.9	27.9	31.6	29.5	2500	94.2	90	68	15.9	0.756	0.0272	43.7	3296	4120	100.0%	
Hyundai	All	All	1987	34.5	27.5	30.9	29.0	2500	94.2	90	68	16.0	0.756	0.0272	43.2	3259	4073	100.0%	
Hyundai	All	All	1988	34.3	27.2	30.5	28.7	2500	94.2	90	68	16.0	0.756	0.0272	43.0	3240	4050	100.0%	
Hyundai	All	All	1989	33.1	25.2	31.3	27.8	2580	97.4	99	75	15.5	0.758	0.0287	42.9	3239	4170	100.0%	
Hyundai	All	All	1990	33.1	25.2	30.7	27.6	2636	99.1	103	89	13.6	0.873	0.0335	43.8	3310	4335	100.0%	
Hyundai	All	All	1991	32.7	24.6	30.4	27.1	2632	99.1	103	89	13.7	0.877	0.0335	43.2	3268	4272	100.0%	
Hyundai	All	All	1992	31.1	23.0	29.3	25.7	2776	100.0	102	99	13.1	0.982	0.0353	43.2	3139	4323	100.0%	
Hyundai	All	All	1993	31.0	23.0	28.9	25.6	2790	101.0	105	104	12.7	0.991	0.0370	43.4	3167	4384	100.0%	
Hyundai	All	All	1994	32.7	23.8	30.8	26.9	2666	98.9	98	98	12.9	0.992	0.0365	43.8	3268	4329	100.0%	
Hyundai	All	All	1995	30.9	22.1	29.5	25.4	2813	103.8	110	112	12.0	1.031	0.0396	43.7	3262	4535	100.0%	
Hyundai	All	All	1996	32.7	23.0	31.6	26.8	2720	105.8	102	109	12.0	1.061	0.0397	44.6	3484	4713	100.0%	
Hyundai	All	All	1997	31.0	21.8	29.9	25.4	2820	105.4	108	116	11.7	1.076	0.0409	43.9	3303	4621	100.0%	
Hyundai	All	All	1998	30.6	21.4	29.1	24.9	2831	105.4	108	115	11.9	1.058	0.0402	43.5	3259	4576	100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Hyundai	Truck	All	2001		100.0%			100.0%					100.0%					100.0%	
Hyundai	Truck	All	2002		100.0%			100.0%					100.0%					100.0%	
Hyundai	Truck	All	2003		100.0%			100.0%					100.0%					100.0%	
Hyundai	Truck	All	2004		100.0%			100.0%					100.0%					100.0%	
Hyundai	Truck	All	2005		100.0%			100.0%					100.0%					100.0%	
Hyundai	Truck	All	2006		100.0%			100.0%					100.0%					100.0%	
Hyundai	Truck	All	2007	2.5%	97.5%			100.0%					100.0%		6.0%			94.0%	6.0%
Hyundai	Truck	All	2008	0.3%	99.7%			100.0%					100.0%		57.7%			86.2%	13.8%
Hyundai	Truck	All	2009	0.4%	99.6%			100.0%					100.0%		50.5%			97.5%	2.5%
Hyundai	Truck	All	2010		100.0%			100.0%					100.0%		100.0%			89.8%	10.2%
Hyundai	Truck	All	2011		100.0%			100.0%					100.0%		100.0%			91.2%	8.8%
Hyundai	Truck	All	2012	1.5%	98.5%			100.0%					100.0%		100.0%			68.8%	31.2%
Hyundai	All	All	1975																
Hyundai	All	All	1976																
Hyundai	All	All	1977																
Hyundai	All	All	1978																
Hyundai	All	All	1979																
Hyundai	All	All	1980																
Hyundai	All	All	1981																
Hyundai	All	All	1982																
Hyundai	All	All	1983																
Hyundai	All	All	1984																
Hyundai	All	All	1985																
Hyundai	All	All	1986	74.6%							100.0%						100.0%		
Hyundai	All	All	1987	63.3%	36.7%							100.0%					100.0%		
Hyundai	All	All	1988	59.5%	40.5%							100.0%					100.0%		
Hyundai	All	All	1989	47.1%	52.9%			16.0%			100.0%						84.0%	16.0%	
Hyundai	All	All	1990	42.1%	51.9%			100.0%			100.0%						78.9%	21.1%	
Hyundai	All	All	1991	39.1%	53.2%			100.0%			100.0%						81.5%	18.5%	
Hyundai	All	All	1992	36.4%	55.2%			100.0%			75.3%		24.7%				85.3%	14.7%	
Hyundai	All	All	1993	33.7%	59.3%			100.0%			47.4%	45.0%	7.6%				85.4%	14.6%	
Hyundai	All	All	1994	40.8%	58.2%			100.0%			1.1%		98.9%				98.2%	1.8%	
Hyundai	All	All	1995	29.8%	70.2%			100.0%			10.1%	41.8%	48.1%				77.0%	23.0%	
Hyundai	All	All	1996	28.6%	71.4%			100.0%			2.3%	53.2%	44.5%				88.5%	11.5%	
Hyundai	All	All	1997	27.5%	72.5%			100.0%			5.2%	32.9%	61.9%		4.5%		82.7%	17.3%	
Hyundai	All	All	1998	22.5%	77.5%			100.0%			3.6%	35.1%	61.3%		7.1%		81.8%	18.2%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Hyundai	All	All	1999	30.5	20.9	29.6	24.8	2948	107.2	118	126	11.4	1.066	0.0424	44.9	3274	4818	100.0%	
Hyundai	All	All	2000	30.0	20.4	29.1	24.4	3024	106.7	120	130	11.4	1.080	0.0426	45.4	3217	4842	100.0%	
Hyundai	All	All	2001	29.9	20.3	28.5	24.1	3218		129	137	11.4	1.071	0.0426	48.0			92.9%	7.1%
Hyundai	All	All	2002	29.2	19.8	27.8	23.6	3291		135	142	11.3	1.060	0.0429	48.1			90.7%	9.3%
Hyundai	All	All	2003	28.5	19.3	26.8	22.8	3365		141	148	11.1	1.056	0.0439	48.0			88.0%	12.0%
Hyundai	All	All	2004	27.5	18.5	25.8	22.0	3479		150	155	11.0	1.043	0.0444	48.0			88.8%	11.2%
Hyundai	All	All	2005	28.2	18.9	26.1	22.5	3417		144	152	11.0	1.065	0.0443	48.3			91.6%	8.4%
Hyundai	All	All	2006	28.7	19.1	27.0	22.9	3612		162	183	10.1	1.126	0.0501	51.9			96.8%	3.2%
Hyundai	All	All	2007	29.2	19.6	27.0	23.2	3647		160	183	10.2	1.144	0.0496	53.4			88.9%	11.1%
Hyundai	All	All	2008	30.9	20.6	28.4	24.4	3486		148	168	10.5	1.138	0.0477	53.9			90.4%	9.6%
Hyundai	All	All	2009	31.7	21.0	29.3	25.1	3520		151	179	10.1	1.178	0.0500	55.8			88.2%	7.0%
Hyundai	All	All	2010	34.4	22.9	31.2	27.0	3343		140	167	10.3	1.183	0.0493	57.6			85.2%	7.5%
Hyundai	All	All	2011	N/A	22.4	32.4	27.2	3495		146	197	9.3	1.353	0.0558	N/A			86.4%	8.1%
Hyundai	All	All	2012	N/A	24.4	33.3	28.8	3263		127	176	9.7	1.401	0.0531	N/A			89.7%	4.4%
VW	Car	Car	1975	26.7	20.1	27.1	22.8	2339		94	67	15.7	0.711	0.0284	31.3			74.2%	
VW	Car	Car	1976	27.9	21.7	26.9	23.8	2317		98	72	14.6	0.735	0.0311	32.4			84.1%	
VW	Car	Car	1977	29.8	22.9	29.5	25.4	2306	94.1	97	72	14.6	0.738	0.0311	35.0	2865	3295	94.8%	
VW	Car	Car	1978	28.0	21.5	27.4	23.8	2364	94.7	94	71	15.0	0.752	0.0300	34.2	2767	3235	95.8%	
VW	Car	Car	1979	29.4	22.7	28.8	25.1	2355	94.4	95	69	15.5	0.725	0.0291	36.2	2929	3415	94.7%	
VW	Car	Car	1980	31.3	24.1	30.8	26.7	2357	90.0	98	68	15.6	0.695	0.0289	38.8	2982	3489	98.8%	
VW	Car	Car	1981	34.7	26.7	34.0	29.6	2380	90.4	104	67	15.9	0.636	0.0279	43.4	3322	3911	100.0%	
VW	Car	Car	1982	33.9	26.6	32.2	28.9	2438	92.7	105	71	15.5	0.665	0.0288	43.4	3321	4011	100.0%	
VW	Car	Car	1983	31.4	24.6	29.9	26.8	2439	94.5	109	80	14.0	0.730	0.0329	39.5	3084	3735	99.5%	0.4%
VW	Car	Car	1984	29.0	22.7	27.7	24.7	2578	97.9	114	86	13.8	0.752	0.0333	38.7	2956	3762	98.7%	1.3%
VW	Car	Car	1985	30.0	23.4	28.8	25.6	2643	103.5	114	93	13.4	0.804	0.0349	40.9	3238	4231	98.4%	1.6%
VW	Car	Car	1986	29.6	22.9	28.3	25.1	2643	103.6	115	96	13.0	0.827	0.0360	40.0	3164	4137	97.2%	2.8%
VW	Car	Car	1987	28.9	22.4	27.2	24.4	2684	101.2	114	99	12.7	0.866	0.0369	39.2	2998	3966	96.1%	3.8%
VW	Car	Car	1988	30.1	23.1	28.5	25.4	2670	96.6	113	98	12.7	0.870	0.0366	40.5	2936	3919	96.5%	3.3%
VW	Car	Car	1989	30.0	22.8	28.5	25.2	2725	98.6	113	99	12.9	0.876	0.0363	41.4	3015	4095	98.6%	0.9%
VW	Car	Car	1990	28.8	21.6	27.5	24.1	2890	100.3	118	113	12.3	0.957	0.0386	41.8	2932	4202	97.4%	2.2%
VW	Car	Car	1991	29.6	21.9	28.7	24.7	2895	102.7	116	106	13.1	0.908	0.0362	43.4	3108	4463	97.3%	2.4%
VW	Car	Car	1992	29.1	21.2	28.3	24.2	2942	103.1	121	115	12.5	0.932	0.0384	43.0	3033	4435	98.4%	1.6%
VW	Car	Car	1993	26.9	19.3	26.5	22.4	3092	99.4	142	134	11.6	0.933	0.0425	41.6	2707	4146	87.4%	12.2%
VW	Car	Car	1994	28.2	20.3	27.4	23.3	3071	103.0	131	127	11.7	0.968	0.0411	43.4	2931	4472	90.0%	10.0%
VW	Car	Car	1995	28.7	20.6	27.6	23.7	3083	103.2	133	129	11.5	0.971	0.0417	44.5	2996	4591	95.3%	4.7%
VW	Car	Car	1996	28.2	19.9	27.5	23.2	3123	103.5	133	129	11.7	0.962	0.0411	44.5	2963	4615	91.0%	8.8%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Hyundai	All	All	1999	24.7%	75.3%			100.0%				29.2%	70.8%		51.9%		81.1%	18.9%	
Hyundai	All	All	2000	18.7%	81.3%			100.0%				23.4%	76.6%		56.5%		79.9%	20.1%	
Hyundai	All	All	2001	18.9%	81.1%			100.0%				5.4%	94.6%		39.8%		63.7%	36.3%	
Hyundai	All	All	2002	12.9%	87.1%			100.0%				4.6%	95.4%		30.3%		53.7%	46.3%	
Hyundai	All	All	2003	13.0%	87.0%			100.0%					100.0%		34.4%		54.6%	45.4%	
Hyundai	All	All	2004	9.2%	90.8%			100.0%					100.0%		26.2%		38.9%	61.1%	
Hyundai	All	All	2005	9.1%	90.9%			100.0%					100.0%		32.1%		15.3%	84.7%	
Hyundai	All	All	2006	5.6%	94.4%			100.0%					100.0%		71.9%		9.8%	44.2%	46.0%
Hyundai	All	All	2007	5.6%	94.4%			100.0%					100.0%		31.6%		12.8%	52.3%	34.8%
Hyundai	All	All	2008	6.1%	93.9%			100.0%					100.0%		41.2%		16.2%	54.5%	29.3%
Hyundai	All	All	2009	4.6%	95.4%			100.0%					100.0%		89.2%		16.5%	38.2%	45.3%
Hyundai	All	All	2010	5.2%	94.8%			100.0%					100.0%		100.0%		22.3%	53.5%	24.2%
Hyundai	All	All	2011	2.2%	95.8%		48.8%	51.2%					100.0%		100.0%	2.0%	9.5%	35.8%	54.6%
Hyundai	All	All	2012	9.7%	88.5%		59.5%	40.5%					100.0%		100.0%	1.7%	45.3%	32.2%	22.5%
VW	Car	Car	1975	74.5%	3.2%			48.9%									100.0%		
VW	Car	Car	1976	71.7%				31.5%									100.0%		
VW	Car	Car	1977	79.6%				61.1%		7.0%							100.0%		
VW	Car	Car	1978	73.4%				84.9%		14.0%							100.0%		
VW	Car	Car	1979	78.6%				76.6%		23.4%							100.0%		
VW	Car	Car	1980	83.0%				61.9%		34.2%							100.0%		
VW	Car	Car	1981	84.6%				53.1%		46.9%							100.0%		
VW	Car	Car	1982	78.4%				66.6%		30.1%							100.0%		
VW	Car	Car	1983	76.2%				80.7%		14.5%							100.0%		
VW	Car	Car	1984	65.1%				84.6%		11.2%							76.9%	23.1%	
VW	Car	Car	1985	63.7%				90.1%		9.9%							81.0%	19.0%	
VW	Car	Car	1986	62.6%				94.3%		5.7%	98.8%		1.2%				82.1%	17.9%	
VW	Car	Car	1987	67.1%				100.0%			93.6%		6.4%				88.7%	11.3%	
VW	Car	Car	1988	73.9%				100.0%			93.0%		7.0%				95.9%	4.1%	
VW	Car	Car	1989	70.0%				97.2%	0.1%	2.7%	93.7%		6.3%				91.8%	8.2%	
VW	Car	Car	1990	59.6%	9.6%			98.8%		1.2%	83.8%		16.2%				80.2%	19.8%	
VW	Car	Car	1991	58.6%	17.7%			95.5%		4.5%	81.4%		18.6%				78.7%	21.3%	
VW	Car	Car	1992	59.2%	19.7%			98.8%		1.2%	82.7%		17.3%				72.2%	27.8%	
VW	Car	Car	1993	58.5%	39.2%			100.0%			95.8%		4.2%				71.7%	28.3%	
VW	Car	Car	1994	52.9%	47.1%			100.0%			99.2%		0.8%				100.0%		0.0%
VW	Car	Car	1995	62.0%	38.0%			100.0%			99.3%		0.7%				90.3%	9.7%	
VW	Car	Car	1996	57.6%	42.4%			97.6%		2.4%	100.0%		0.0%				89.7%	10.3%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
VW	Car	Car	1997	28.7	20.2	27.6	23.5	3122	102.8	133	131	11.6	0.985	0.0417	45.3	2999	4665	87.6%	12.2%
VW	Car	Car	1998	28.7	20.0	27.8	23.5	3190	102.4	131	137	11.5	1.040	0.0425	46.8	3019	4793	82.4%	17.5%
VW	Car	Car	1999	28.4	19.7	27.4	23.1	3228	102.6	131	139	11.5	1.063	0.0425	46.4	2961	4762	86.3%	13.6%
VW	Car	Car	2000	28.8	20.0	27.1	23.3	3228	101.5	131	144	11.2	1.102	0.0440	47.3	2995	4799	85.8%	14.0%
VW	Car	Car	2001	28.5	19.5	26.9	23.0	3282	100.3	131	155	10.8	1.188	0.0465	47.5	2927	4758	80.1%	19.8%
VW	Car	Car	2002	29.1	19.8	27.5	23.4	3369	102.3	127	158	10.9	1.253	0.0461	50.1	3062	5121	81.2%	18.7%
VW	Car	Car	2003	29.5	19.9	27.6	23.6	3400	101.9	127	158	10.9	1.260	0.0460	50.8	3072	5179	85.0%	15.0%
VW	Car	Car	2004	28.6	19.2	26.9	22.9	3497	101.3	134	170	10.8	1.276	0.0476	50.7	2975	5148	74.0%	25.9%
VW	Car	Car	2005	28.6	19.0	27.0	22.9	3592	102.2	143	175	10.8	1.217	0.0473	52.3	3015	5351	73.1%	26.8%
VW	Car	Car	2006	29.9	19.8	28.2	23.8	3633	104.7	146	182	10.5	1.256	0.0493	55.7	3241	5837	81.6%	18.4%
VW	Car	Car	2007	28.5	18.8	27.2	22.8	3680	103.9	151	193	9.9	1.288	0.0515	52.8	3005	5486	79.7%	20.2%
VW	Car	Car	2008	28.9	19.1	27.3	23.1	3651	102.8	151	202	9.4	1.357	0.0547	53.1	3010	5461	77.6%	22.3%
VW	Car	Car	2009	30.6	20.3	28.5	24.3	3631	103.0	144	194	9.3	1.362	0.0528	56.8	3248	5862	77.8%	22.1%
VW	Car	Car	2010	32.3	21.5	29.7	25.5	3616	104.5	139	191	9.3	1.384	0.0523	59.6	3476	6243	81.6%	18.4%
VW	Car	Car	2011	32.8	22.6	31.1	26.8	3633	107.0	143	190	9.6	1.335	0.0515	60.7	3613	6502	77.2%	22.7%
VW	Car	Car	2012	32.7	22.4	31.2	26.7	3623	109.5	146	201	9.2	1.384	0.0548	60.4	3686	6626	80.8%	19.2%
VW	Car	Wagon	1975	27.2	20.6	27.6	23.3	2500		89	70	15.6	0.792	0.0282	34.1			100.0%	
VW	Car	Wagon	1976	27.9	21.7	26.9	23.8	2500		97	78	14.4	0.805	0.0312	34.9			100.0%	
VW	Car	Wagon	1977	28.7	22.0	28.6	24.5	2500	120.6	96	74	15.0	0.771	0.0297	36.4	3517	4396	100.0%	
VW	Car	Wagon	1978	25.7	19.6	25.7	22.0	2500	123.0	97	78	14.4	0.801	0.0311	32.4	3187	3984	100.0%	
VW	Car	Wagon	1979	25.0	19.9	23.3	21.3	2500	122.9	97	78	14.5	0.804	0.0312	31.3	3077	3847	100.0%	
VW	Car	Wagon	1980	40.1	31.9	37.2	34.1	2500	106.2	90	49	20.4	0.545	0.0197	50.5	4293	5366	100.0%	
VW	Car	Wagon	1981	40.6	32.4	37.4	34.5	2500	106.2	97	52	19.5	0.536	0.0208	50.7	4307	5384	100.0%	
VW	Car	Wagon	1982	29.8	23.6	27.9	25.4	2750	127.0	105	74	16.2	0.705	0.0268	41.8	3865	5314	100.0%	
VW	Car	Wagon	1983	30.6	24.3	28.7	26.1	2806	127.0	108	78	15.9	0.717	0.0277	45.2	4112	5737	100.0%	
VW	Car	Wagon	1984	24.8	19.3	24.0	21.2	3122	131.3	125	94	14.9	0.752	0.0302	40.4	3443	5297	100.0%	
VW	Car	Wagon	1985	25.9	20.2	24.9	22.1	3066	131.9	121	98	14.2	0.809	0.0319	39.9	3474	5266	97.8%	2.2%
VW	Car	Wagon	1986	22.8	17.5	22.4	19.4	3245	132.4	136	115	13.1	0.845	0.0356	37.1	3026	4921	65.7%	34.3%
VW	Car	Wagon	1987	26.7	20.7	25.1	22.5	2847	121.7	124	102	13.0	0.814	0.0353	38.4	3298	4652	78.5%	21.5%
VW	Car	Wagon	1988	31.0	24.1	28.6	26.0	2553	112.5	111	84	13.7	0.755	0.0328	39.6	3501	4457	97.0%	3.0%
VW	Car	Wagon	1989	29.3	22.5	27.4	24.6	2766	115.7	116	94	13.5	0.804	0.0337	40.4	3419	4682	91.3%	8.7%
VW	Car	Wagon	1990	28.3	20.8	28.2	23.8	3176	125.6	118	117	12.8	0.985	0.0364	44.7	3558	5649	95.4%	4.6%
VW	Car	Wagon	1991	26.9	19.3	27.8	22.6	3386	133.1	123	142	11.5	1.157	0.0420	45.5	3592	6058	89.8%	10.2%
VW	Car	Wagon	1992	26.7	19.0	27.3	22.4	3359	132.0	129	140	11.5	1.093	0.0419	44.7	3546	5905	84.1%	15.9%
VW	Car	Wagon	1993	23.7	17.0	23.7	19.8	3634	131.1	170	172	10.4	1.013	0.0475	43.1	3116	5644	73.3%	26.7%
VW	Car	Wagon	1994	23.6	17.1	22.9	19.6	3790	127.3	169	172	10.7	1.015	0.0456	44.7	3007	5687	42.1%	57.9%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
VW	Car	Car	1997	59.1%	40.9%			97.8%		2.2%	93.2%		1.5%	5.3%			92.5%	7.5%	
VW	Car	Car	1998	54.6%	45.4%			94.4%		5.6%	68.5%		1.0%	30.5%	16.2%		80.8%	19.2%	
VW	Car	Car	1999	37.8%	62.2%			97.2%		2.8%	63.4%		0.1%	36.4%	18.9%		72.6%	27.4%	0.0%
VW	Car	Car	2000	47.2%	52.8%			94.2%		5.8%	61.9%		0.0%	38.1%	9.6%		80.5%	19.3%	0.2%
VW	Car	Car	2001	45.5%	54.5%			94.7%		5.3%	47.7%		0.0%	52.2%	22.0%		79.7%	19.9%	0.5%
VW	Car	Car	2002	29.3%	68.8%	2.0%		91.7%		8.3%	42.1%		1.9%	56.0%	7.4%		77.6%	22.2%	0.2%
VW	Car	Car	2003	32.9%	63.0%	4.1%		93.9%		6.1%	38.7%		4.5%	56.8%	11.2%		76.1%	23.8%	0.2%
VW	Car	Car	2004	27.0%	68.4%	4.6%		93.6%		6.4%	37.6%		3.9%	58.5%	13.5%		75.7%	20.8%	3.5%
VW	Car	Car	2005	19.8%	75.2%	5.0%		90.5%		9.5%	32.0%		32.6%	35.4%	14.6%		80.7%	17.3%	2.0%
VW	Car	Car	2006	17.6%	77.3%	5.0%		85.9%		14.1%	15.2%		78.4%	6.4%	42.4%		72.6%	26.1%	1.3%
VW	Car	Car	2007	21.7%	72.2%	6.1%		100.0%					99.2%	0.8%	8.6%		83.5%	15.3%	1.2%
VW	Car	Car	2008	14.7%	79.6%	5.7%	46.3%	53.7%			0.1%		99.6%	0.3%	14.8%		82.7%	16.7%	0.7%
VW	Car	Car	2009	14.3%	82.8%	2.9%	47.6%	40.3%		12.1%	0.1%		99.9%	0.0%	15.5%		91.8%	7.6%	0.7%
VW	Car	Car	2010	14.7%	48.3%	4.0%	48.1%	36.9%		15.0%	0.0%		100.0%		85.0%		92.6%	7.2%	0.3%
VW	Car	Car	2011	15.7%	79.4%	4.4%	39.6%	47.2%		13.3%	8.1%		91.9%		75.5%		94.7%	3.8%	1.4%
VW	Car	Car	2012	15.9%	63.0%	2.7%	37.6%	47.6%		14.9%	4.7%		95.3%		80.5%		64.7%	33.8%	1.6%
VW	Car	Wagon	1975	49.4%													100.0%		
VW	Car	Wagon	1976	42.0%				100.0%									100.0%		
VW	Car	Wagon	1977	77.9%				89.0%		11.0%							100.0%		
VW	Car	Wagon	1978	54.3%				100.0%									100.0%		
VW	Car	Wagon	1979					100.0%									100.0%		
VW	Car	Wagon	1980	97.5%				4.9%		95.1%							100.0%		
VW	Car	Wagon	1981	100.0%						100.0%							100.0%		
VW	Car	Wagon	1982	57.3%				94.3%		5.7%							100.0%		
VW	Car	Wagon	1983	47.4%				68.0%		32.0%							100.0%		
VW	Car	Wagon	1984	35.9%				82.1%		17.9%							66.7%	33.3%	
VW	Car	Wagon	1985	34.0%				100.0%									58.6%	41.4%	
VW	Car	Wagon	1986	49.1%				100.0%			100.0%						51.0%	49.0%	
VW	Car	Wagon	1987	76.0%				100.0%			100.0%						83.3%	16.7%	
VW	Car	Wagon	1988	96.6%				100.0%			100.0%						96.6%	3.4%	
VW	Car	Wagon	1989	87.1%				100.0%			100.0%						77.7%	22.3%	
VW	Car	Wagon	1990	39.6%	60.4%			100.0%			39.2%		60.8%				34.6%	65.4%	
VW	Car	Wagon	1991	43.1%	56.9%			100.0%					100.0%					100.0%	
VW	Car	Wagon	1992	44.2%	55.8%			100.0%			15.9%		84.1%				15.9%	84.1%	
VW	Car	Wagon	1993	28.7%	71.3%			100.0%			100.0%						26.7%	73.3%	
VW	Car	Wagon	1994	20.9%	79.1%			100.0%			100.0%						57.9%	42.1%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
VW	Car	Wagon	1995	23.7	17.1	22.9	19.6	3702	131.5	166	178	10.3	1.084	0.0481	43.9	3122	5759	67.2%	32.8%
VW	Car	Wagon	1996	27.6	19.7	26.3	22.7	3711	131.3	156	151	12.2	0.954	0.0406	55.0	3961	7252	62.2%	37.8%
VW	Car	Wagon	1997	24.6	17.5	23.4	20.2	3793	129.6	168	170	10.9	1.008	0.0449	47.0	3223	6084	42.2%	57.8%
VW	Car	Wagon	1998	25.9	17.7	26.0	21.3	3739	126.5	150	173	10.6	1.180	0.0464	48.5	3310	6146	40.8%	59.2%
VW	Car	Wagon	1999	26.5	17.9	27.0	21.8	3675	133.6	131	168	10.8	1.303	0.0454	48.9	3575	6531	52.5%	47.5%
VW	Car	Wagon	2000	25.0	17.0	24.9	20.5	3612	134.7	154	187	9.8	1.228	0.0517	45.4	3397	6116	71.2%	28.8%
VW	Car	Wagon	2001	24.2	16.5	23.4	19.7	3882	131.8	150	191	10.3	1.278	0.0487	47.2	3232	6214	38.4%	61.6%
VW	Car	Wagon	2002	27.7	18.7	26.7	22.4	3695	129.9	138	171	11.0	1.263	0.0460	52.1	3682	6756	73.0%	27.0%
VW	Car	Wagon	2003	28.4	19.1	27.0	22.8	3757	130.5	135	172	11.2	1.285	0.0452	55.6	3887	7209	68.6%	31.4%
VW	Car	Wagon	2004	27.6	18.5	26.2	22.2	3822	130.9	137	180	10.9	1.331	0.0465	54.2	3747	7074	59.7%	40.3%
VW	Car	Wagon	2005	29.2	19.3	27.5	23.3	3882	130.2	135	173	11.6	1.282	0.0439	59.1	4005	7673	58.0%	42.0%
VW	Car	Wagon	2006	29.6	19.8	27.4	23.5	3753	114.1	136	213	9.0	1.590	0.0568	55.8	3400	6366	64.3%	35.7%
VW	Car	Wagon	2007	29.5	19.6	27.6	23.5	3899	124.0	140	216	9.2	1.575	0.0553	57.9	3685	7192	71.3%	28.7%
VW	Car	Wagon	2008	29.4	19.5	27.7	23.4	3745	122.9	141	196	9.6	1.423	0.0523	55.1	3623	6778	78.3%	21.7%
VW	Car	Wagon	2009	34.3	22.8	31.2	27.0	3638	110.8	129	172	9.2	1.348	0.0471	64.6	3933	7131	81.8%	18.2%
VW	Car	Wagon	2010	39.3	25.8	35.5	30.6	3566	123.1	124	160	9.4	1.290	0.0446	72.0	5005	8876	87.9%	12.1%
VW	Car	Wagon	2011	39.4	26.3	36.1	31.1	3567	108.3	125	157	9.2	1.258	0.0439	72.0	4378	7781	87.5%	12.5%
VW	Car	Wagon	2012	40.1	26.7	36.4	31.5	3553	107.8	124	160	8.8	1.292	0.0448	72.7	4419	7828	89.4%	10.6%
VW	Truck	Van	1975	20.7	16.2	19.8	17.6	3497		109	67	21.0	0.615	0.0192	36.2				
VW	Truck	Van	1976	19.9	15.1	20.1	17.0	3500		120	67	20.9	0.558	0.0191	34.9				
VW	Truck	Van	1977	22.2	17.2	21.5	18.9	3500		120	67	20.8	0.558	0.0191	38.9				
VW	Truck	Van	1978	20.0	15.7	19.1	17.0	3500		120	67	20.9	0.558	0.0191	35.0				
VW	Truck	Van	1979	18.7	14.8	17.6	16.0	3500		120	67	20.9	0.558	0.0191	32.9				
VW	Truck	Van	1980	19.0	14.7	18.6	16.2	3619		120	67	21.4	0.558	0.0186	34.4				
VW	Truck	Van	1981	18.5	14.6	17.4	15.8	3644		120	67	21.6	0.558	0.0185	33.8				
VW	Truck	Van	1982	21.7	17.7	19.4	18.4	3668		111	61	23.4	0.550	0.0168	42.1				
VW	Truck	Van	1983	19.3	15.3	18.0	16.4	3625		119	69	21.0	0.585	0.0192	35.3				
VW	Truck	Van	1984	20.7	16.6	18.9	17.6	3627		117	82	18.4	0.701	0.0227	37.5				
VW	Truck	Van	1985	21.3	17.2	19.2	18.1	3656		117	82	18.5	0.701	0.0225	39.0				
VW	Truck	Van	1986	19.2	15.7	17.0	16.2	3764		129	90	17.6	0.698	0.0240	36.2				
VW	Truck	Van	1987	18.9	15.4	16.6	15.9	3818		129	90	17.8	0.698	0.0237	36.2				18.1%
VW	Truck	Van	1988	19.9	16.1	17.4	16.7	3868		129	90	18.1	0.698	0.0234	38.6				
VW	Truck	Van	1989	20.8	16.9	17.9	17.4	4042		129	90	18.7	0.698	0.0223	42.2				8.5%
VW	Truck	Van	1990	20.8	16.7	17.8	17.3	4020		129	90	19.0	0.698	0.0224	41.9				51.7%
VW	Truck	Van	1991	20.9	16.5	18.3	17.3	4021		129	90	18.7	0.698	0.0224	42.1				6.8%
VW	Truck	Van	1992																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
VW	Car	Wagon	1995	33.9%	66.1%			100.0%			89.2%		10.8%				40.5%	59.5%	
VW	Car	Wagon	1996	39.6%	60.4%			75.2%		24.8%	100.0%						42.2%	57.8%	
VW	Car	Wagon	1997	20.1%	79.9%			97.8%		2.2%	100.0%						58.6%	41.4%	
VW	Car	Wagon	1998	23.1%	76.9%			100.0%			22.9%			77.1%	45.1%		68.0%	32.0%	
VW	Car	Wagon	1999	21.4%	78.6%			100.0%						100.0%	36.5%		15.9%	84.1%	
VW	Car	Wagon	2000	17.4%	82.6%			100.0%						100.0%	74.7%		8.4%	91.6%	
VW	Car	Wagon	2001	18.3%	81.7%			100.0%			13.3%			86.7%	46.6%		25.3%	74.7%	
VW	Car	Wagon	2002	20.3%	79.7%			94.9%		5.1%	28.2%		0.8%	71.1%	25.6%		41.4%	58.6%	
VW	Car	Wagon	2003	24.6%	75.4%			87.1%		12.9%	25.2%		1.5%	73.3%	20.8%		37.7%	62.3%	
VW	Car	Wagon	2004	21.2%	78.8%			88.0%		12.0%	22.9%		0.4%	76.7%	16.4%		33.5%	66.5%	
VW	Car	Wagon	2005	18.7%	81.3%			66.5%		33.5%	37.9%		4.8%	57.3%	27.7%		37.5%	62.5%	
VW	Car	Wagon	2006	25.9%	74.1%			100.0%					98.0%	2.0%	81.9%		85.2%	14.8%	
VW	Car	Wagon	2007	8.9%	91.1%			100.0%					98.9%	1.1%	15.8%		41.1%	58.9%	
VW	Car	Wagon	2008	16.9%	83.1%		60.7%	39.3%					99.1%	0.9%	9.8%		70.0%	30.0%	
VW	Car	Wagon	2009	18.0%	82.0%		37.1%	24.4%		38.5%			100.0%		1.2%		90.5%	9.5%	
VW	Car	Wagon	2010	16.7%	18.1%		24.6%	9.2%		66.2%			100.0%		39.8%		90.7%	9.3%	
VW	Car	Wagon	2011	15.6%	84.4%		18.3%	14.3%		67.4%			100.0%		32.6%		99.0%	1.0%	
VW	Car	Wagon	2012	15.7%	20.1%		16.1%	13.3%		70.7%			100.0%		29.3%		100.0%		
VW	Truck	Van	1975	70.8%					100.0%								100.0%		
VW	Truck	Van	1976	84.8%					100.0%								100.0%		
VW	Truck	Van	1977	89.9%					100.0%								100.0%		
VW	Truck	Van	1978	85.0%					100.0%								100.0%		
VW	Truck	Van	1979	81.2%					100.0%								100.0%		
VW	Truck	Van	1980	82.9%					100.0%								100.0%		
VW	Truck	Van	1981	81.2%					100.0%								100.0%		
VW	Truck	Van	1982	89.0%					61.7%	38.3%							100.0%		
VW	Truck	Van	1983	78.9%					97.7%	2.3%							100.0%		
VW	Truck	Van	1984	74.3%					100.0%								100.0%		
VW	Truck	Van	1985	71.6%					100.0%								100.0%		
VW	Truck	Van	1986	69.8%				100.0%									100.0%		
VW	Truck	Van	1987	53.9%				100.0%									100.0%		
VW	Truck	Van	1988	56.0%				100.0%									100.0%		
VW	Truck	Van	1989	51.3%				100.0%									100.0%		
VW	Truck	Van	1990	47.4%				100.0%									100.0%		
VW	Truck	Van	1991	44.4%				100.0%									100.0%		
VW	Truck	Van	1992																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
VW	Truck	Van	1993	21.0	16.0	19.0	17.4	4157		150	109	16.6	0.727	0.0263	43.7			100.0%	
VW	Truck	Van	1994	20.1	15.1	18.6	16.6	4260		150	109	16.8	0.727	0.0257	42.8			100.0%	
VW	Truck	Van	1995	19.6	14.8	17.5	16.1	5000		150	109	19.1	0.727	0.0218	48.9			100.0%	
VW	Truck	Van	1996																
VW	Truck	Van	1997	18.5	13.4	17.5	15.3	5490		170	140	17.1	0.824	0.0255	50.8			100.0%	
VW	Truck	Van	1998																
VW	Truck	Van	1999	19.1	13.5	18.3	15.7	4897		170	140	15.6	0.824	0.0289	46.7			100.0%	
VW	Truck	Van	2000	19.0	13.3	18.2	15.6	5116		170	140	16.1	0.824	0.0276	48.5			100.0%	
VW	Truck	Van	2001	20.7	14.8	18.7	16.7	4850		170	201	11.6	1.182	0.0418	50.0			100.0%	
VW	Truck	Van	2002	20.9	14.9	18.6	16.8	4638		170	201	11.2	1.182	0.0435	48.3			100.0%	
VW	Truck	Van	2003	20.9	14.8	18.5	16.7	4564		170	201	11.0	1.182	0.0441	47.6			100.0%	
VW	Truck	Van	2004																
VW	Truck	Van	2005																
VW	Truck	Van	2006																
VW	Truck	Van	2007																
VW	Truck	Van	2008																
VW	Truck	Van	2009																
VW	Truck	Van	2010																
VW	Truck	Van	2011																
VW	Truck	Van	2012																
VW	Truck	Truck SUV	1975																
VW	Truck	Truck SUV	1976																
VW	Truck	Truck SUV	1977																
VW	Truck	Truck SUV	1978																
VW	Truck	Truck SUV	1979																
VW	Truck	Truck SUV	1980																
VW	Truck	Truck SUV	1981																
VW	Truck	Truck SUV	1982																
VW	Truck	Truck SUV	1983																
VW	Truck	Truck SUV	1984																
VW	Truck	Truck SUV	1985																
VW	Truck	Truck SUV	1986																
VW	Truck	Truck SUV	1987																
VW	Truck	Truck SUV	1988																
VW	Truck	Truck SUV	1989																
VW	Truck	Truck SUV	1990																

2012 FE Trends Report
Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
VW	Truck	Van	1993	35.7%	64.3%			100.0%										100.0%	
VW	Truck	Van	1994	48.0%	52.0%			100.0%			100.0%							100.0%	
VW	Truck	Van	1995	43.8%	56.2%			100.0%			100.0%								100.0%
VW	Truck	Van	1996																
VW	Truck	Van	1997		100.0%			100.0%			100.0%								100.0%
VW	Truck	Van	1998																
VW	Truck	Van	1999		100.0%			100.0%			100.0%							60.3%	39.7%
VW	Truck	Van	2000		100.0%			100.0%			100.0%							38.4%	61.6%
VW	Truck	Van	2001		100.0%			100.0%					100.0%					100.0%	
VW	Truck	Van	2002		100.0%			100.0%					100.0%					86.2%	13.8%
VW	Truck	Van	2003		100.0%			100.0%					100.0%					6.4%	93.6%
VW	Truck	Van	2004																
VW	Truck	Van	2005																
VW	Truck	Van	2006																
VW	Truck	Van	2007																
VW	Truck	Van	2008																
VW	Truck	Van	2009																
VW	Truck	Van	2010																
VW	Truck	Van	2011																
VW	Truck	Van	2012																
VW	Truck	Truck SUV	1975																
VW	Truck	Truck SUV	1976																
VW	Truck	Truck SUV	1977																
VW	Truck	Truck SUV	1978																
VW	Truck	Truck SUV	1979																
VW	Truck	Truck SUV	1980																
VW	Truck	Truck SUV	1981																
VW	Truck	Truck SUV	1982																
VW	Truck	Truck SUV	1983																
VW	Truck	Truck SUV	1984																
VW	Truck	Truck SUV	1985																
VW	Truck	Truck SUV	1986																
VW	Truck	Truck SUV	1987																
VW	Truck	Truck SUV	1988																
VW	Truck	Truck SUV	1989																
VW	Truck	Truck SUV	1990																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
VW	Truck	Truck SUV	1991																
VW	Truck	Truck SUV	1992																
VW	Truck	Truck SUV	1993																
VW	Truck	Truck SUV	1994																
VW	Truck	Truck SUV	1995																
VW	Truck	Truck SUV	1996																
VW	Truck	Truck SUV	1997																
VW	Truck	Truck SUV	1998																
VW	Truck	Truck SUV	1999																
VW	Truck	Truck SUV	2000																
VW	Truck	Truck SUV	2001																
VW	Truck	Truck SUV	2002																
VW	Truck	Truck SUV	2003																
VW	Truck	Truck SUV	2004	19.0	13.0	18.0	15.4	5508		223	262	10.6	1.166	0.0475	52.4				100.0%
VW	Truck	Truck SUV	2005	19.8	13.6	18.5	16.0	5500		217	264	10.3	1.215	0.0480	54.8				100.0%
VW	Truck	Truck SUV	2006	20.0	13.7	18.7	16.2	5527		219	263	10.3	1.206	0.0476	55.7				100.0%
VW	Truck	Truck SUV	2007	19.5	13.5	17.9	15.7	5568		231	300	9.3	1.295	0.0539	54.5				100.0%
VW	Truck	Truck SUV	2008	20.2	13.7	19.0	16.3	5572		227	295	9.5	1.298	0.0528	56.4				100.0%
VW	Truck	Truck SUV	2009	24.5	16.8	22.2	19.5	4538		165	239	9.6	1.497	0.0526	55.4			31.8%	68.2%
VW	Truck	Truck SUV	2010	25.2	17.4	22.6	20.0	4551		169	241	9.2	1.461	0.0532	57.4			21.1%	78.9%
VW	Truck	Truck SUV	2011	27.1	18.7	24.8	21.7	4538		147	229	9.6	1.593	0.0506	61.5			19.5%	80.5%
VW	Truck	Truck SUV	2012	28.0	19.1	25.3	22.2	4555		152	257	8.8	1.772	0.0572	63.7			18.0%	82.0%
VW	Truck	Pickup	1975																
VW	Truck	Pickup	1976																
VW	Truck	Pickup	1977																
VW	Truck	Pickup	1978																
VW	Truck	Pickup	1979																
VW	Truck	Pickup	1980	31.3	24.8	29.4	26.7	2265		94	65	15.8	0.685	0.0286	37.6			100.0%	
VW	Truck	Pickup	1981	36.9	29.1	34.8	31.4	2318		99	59	16.9	0.592	0.0253	43.6			100.0%	
VW	Truck	Pickup	1982	39.2	31.8	35.4	33.3	2310		99	58	17.1	0.584	0.0250	46.2			100.0%	
VW	Truck	Pickup	1983	35.7	28.3	33.3	30.3	2379		101	65	16.1	0.640	0.0272	43.5			100.0%	
VW	Truck	Pickup	1984																
VW	Truck	Pickup	1985																
VW	Truck	Pickup	1986																
VW	Truck	Pickup	1987																
VW	Truck	Pickup	1988																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
VW	Truck	Truck SUV	1991																
VW	Truck	Truck SUV	1992																
VW	Truck	Truck SUV	1993																
VW	Truck	Truck SUV	1994																
VW	Truck	Truck SUV	1995																
VW	Truck	Truck SUV	1996																
VW	Truck	Truck SUV	1997																
VW	Truck	Truck SUV	1998																
VW	Truck	Truck SUV	1999																
VW	Truck	Truck SUV	2000																
VW	Truck	Truck SUV	2001																
VW	Truck	Truck SUV	2002																
VW	Truck	Truck SUV	2003																
VW	Truck	Truck SUV	2004		100.0%			98.4%		1.6%	1.6%		53.8%	44.6%	98.4%				100.0%
VW	Truck	Truck SUV	2005		100.0%			100.0%					63.0%	37.0%	100.0%				100.0%
VW	Truck	Truck SUV	2006		100.0%			94.5%		5.5%	5.5%		64.0%	30.6%	94.5%				100.0%
VW	Truck	Truck SUV	2007		100.0%			98.7%		1.3%	1.3%		98.7%		66.6%				100.0%
VW	Truck	Truck SUV	2008		100.0%		99.4%			0.6%	0.6%		99.4%		99.4%				100.0%
VW	Truck	Truck SUV	2009	1.2%	98.8%		100.0%						100.0%		100.0%			51.6%	48.4%
VW	Truck	Truck SUV	2010	0.8%	62.0%		90.8%			9.2%			100.0%		94.7%			38.0%	62.0%
VW	Truck	Truck SUV	2011	0.5%	99.5%		89.6%			10.4%			100.0%		100.0%	0.6%		39.8%	60.2%
VW	Truck	Truck SUV	2012	0.4%	99.6%		89.8%			10.2%			100.0%		100.0%	0.8%		38.9%	61.1%
VW	Truck	Pickup	1975																
VW	Truck	Pickup	1976																
VW	Truck	Pickup	1977																
VW	Truck	Pickup	1978																
VW	Truck	Pickup	1979																
VW	Truck	Pickup	1980	94.0%					57.3%	42.7%							100.0%		
VW	Truck	Pickup	1981	100.0%					27.2%	72.8%							100.0%		
VW	Truck	Pickup	1982	100.0%					23.9%	76.1%							100.0%		
VW	Truck	Pickup	1983	100.0%					51.5%	48.5%							100.0%		
VW	Truck	Pickup	1984																
VW	Truck	Pickup	1985																
VW	Truck	Pickup	1986																
VW	Truck	Pickup	1987																
VW	Truck	Pickup	1988																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
VW	Truck	Pickup	1989																
VW	Truck	Pickup	1990																
VW	Truck	Pickup	1991																
VW	Truck	Pickup	1992																
VW	Truck	Pickup	1993																
VW	Truck	Pickup	1994																
VW	Truck	Pickup	1995																
VW	Truck	Pickup	1996																
VW	Truck	Pickup	1997																
VW	Truck	Pickup	1998																
VW	Truck	Pickup	1999																
VW	Truck	Pickup	2000																
VW	Truck	Pickup	2001																
VW	Truck	Pickup	2002																
VW	Truck	Pickup	2003																
VW	Truck	Pickup	2004																
VW	Truck	Pickup	2005																
VW	Truck	Pickup	2006																
VW	Truck	Pickup	2007																
VW	Truck	Pickup	2008																
VW	Truck	Pickup	2009																
VW	Truck	Pickup	2010																
VW	Truck	Pickup	2011																
VW	Truck	Pickup	2012																
VW	Car	All	1975	26.7	20.2	27.2	22.8	2360		93	67	15.7	0.722	0.0284	31.6			77.5%	
VW	Car	All	1976	27.9	21.7	26.9	23.8	2326		98	72	14.6	0.739	0.0311	32.5			84.8%	
VW	Car	All	1977	29.7	22.8	29.4	25.4	2320	95.9	97	72	14.6	0.740	0.0310	35.1	2910	3371	95.2%	
VW	Car	All	1978	27.8	21.4	27.4	23.7	2370	96.0	94	71	15.0	0.755	0.0300	34.1	2787	3271	96.0%	
VW	Car	All	1979	29.4	22.7	28.7	25.1	2356	94.5	95	69	15.5	0.725	0.0291	36.2	2930	3416	94.7%	
VW	Car	All	1980	31.7	24.4	31.1	27.0	2364	90.8	97	67	15.9	0.687	0.0285	39.4	3049	3585	98.9%	
VW	Car	All	1981	34.8	26.9	34.1	29.7	2384	90.9	104	67	16.0	0.633	0.0277	43.6	3350	3953	100.0%	
VW	Car	All	1982	33.8	26.5	32.1	28.8	2447	93.8	105	71	15.5	0.666	0.0288	43.4	3338	4051	100.0%	
VW	Car	All	1983	31.4	24.6	29.9	26.7	2447	95.2	109	80	14.0	0.730	0.0328	39.6	3106	3777	99.6%	0.4%
VW	Car	All	1984	28.9	22.6	27.6	24.6	2590	98.6	114	86	13.9	0.752	0.0332	38.7	2967	3795	98.8%	1.2%
VW	Car	All	1985	29.9	23.3	28.7	25.4	2655	104.4	115	93	13.4	0.804	0.0348	40.9	3245	4260	98.4%	1.6%
VW	Car	All	1986	29.4	22.8	28.2	25.0	2653	104.1	115	96	13.0	0.827	0.0360	39.9	3161	4150	96.7%	3.3%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
VW	Truck	Pickup	1989																
VW	Truck	Pickup	1990																
VW	Truck	Pickup	1991																
VW	Truck	Pickup	1992																
VW	Truck	Pickup	1993																
VW	Truck	Pickup	1994																
VW	Truck	Pickup	1995																
VW	Truck	Pickup	1996																
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VW	Truck	Pickup	2006																
VW	Truck	Pickup	2007																
VW	Truck	Pickup	2008																
VW	Truck	Pickup	2009																
VW	Truck	Pickup	2010																
VW	Truck	Pickup	2011																
VW	Truck	Pickup	2012																
VW	Car	All	1975	71.2%	2.8%			42.6%									100.0%		
VW	Car	All	1976	70.3%				34.6%									100.0%		
VW	Car	All	1977	79.5%				63.0%		7.3%							100.0%		
VW	Car	All	1978	72.4%				85.6%		13.3%							100.0%		
VW	Car	All	1979	78.4%				76.7%		23.3%							100.0%		
VW	Car	All	1980	83.8%				59.0%		37.3%							100.0%		
VW	Car	All	1981	85.0%				51.6%		48.4%							100.0%		
VW	Car	All	1982	77.7%				67.5%		29.4%							100.0%		
VW	Car	All	1983	75.6%				80.4%		14.8%							100.0%		
VW	Car	All	1984	64.4%				84.5%		11.3%							76.7%	23.3%	
VW	Car	All	1985	62.8%				90.4%		9.6%							80.4%	19.6%	
VW	Car	All	1986	62.3%				94.4%		5.6%	98.9%		1.1%				81.6%	18.4%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
VW	Car	All	1987	28.8	22.4	27.1	24.4	2689	101.8	114	99	12.7	0.864	0.0368	39.2	3008	3988	95.6%	4.3%
VW	Car	All	1988	30.2	23.2	28.5	25.4	2660	97.9	113	97	12.8	0.860	0.0363	40.4	2984	3965	96.5%	3.3%
VW	Car	All	1989	30.0	22.8	28.5	25.2	2726	99.0	113	99	12.9	0.874	0.0362	41.3	3026	4111	98.4%	1.1%
VW	Car	All	1990	28.8	21.5	27.6	24.1	2901	101.3	118	113	12.4	0.958	0.0386	41.9	2956	4257	97.4%	2.3%
VW	Car	All	1991	29.5	21.8	28.7	24.7	2911	103.7	116	107	13.0	0.916	0.0364	43.5	3123	4515	97.1%	2.7%
VW	Car	All	1992	29.0	21.1	28.3	24.1	2957	104.2	122	116	12.4	0.938	0.0386	43.0	3052	4489	97.9%	2.1%
VW	Car	All	1993	26.7	19.2	26.4	22.3	3114	100.7	143	136	11.5	0.936	0.0427	41.7	2723	4207	86.8%	12.8%
VW	Car	All	1994	28.1	20.2	27.3	23.2	3087	103.5	131	128	11.6	0.969	0.0412	43.4	2933	4499	88.9%	11.1%
VW	Car	All	1995	28.6	20.5	27.4	23.5	3102	104.0	134	131	11.5	0.974	0.0419	44.5	3000	4627	94.4%	5.6%
VW	Car	All	1996	28.2	19.9	27.4	23.2	3145	104.5	134	130	11.7	0.961	0.0411	44.9	2999	4711	90.0%	9.8%
VW	Car	All	1997	28.6	20.1	27.5	23.4	3143	103.6	134	132	11.6	0.986	0.0418	45.4	3006	4708	86.3%	13.5%
VW	Car	All	1998	28.6	19.9	27.7	23.4	3209	103.2	132	138	11.4	1.045	0.0427	46.8	3030	4840	81.0%	18.9%
VW	Car	All	1999	28.3	19.5	27.3	23.1	3256	104.6	131	141	11.4	1.078	0.0427	46.5	3000	4874	84.1%	15.7%
VW	Car	All	2000	28.5	19.7	26.9	23.1	3255	103.8	132	147	11.1	1.111	0.0445	47.1	3023	4890	84.8%	15.0%
VW	Car	All	2001	28.0	19.3	26.6	22.7	3331	102.9	133	158	10.8	1.196	0.0467	47.4	2952	4878	76.6%	23.2%
VW	Car	All	2002	29.0	19.7	27.4	23.3	3400	104.9	128	159	11.0	1.254	0.0461	50.3	3120	5275	80.4%	19.5%
VW	Car	All	2003	29.3	19.8	27.5	23.5	3443	105.3	128	160	11.0	1.263	0.0459	51.4	3170	5424	83.0%	17.0%
VW	Car	All	2004	28.5	19.1	26.8	22.8	3535	104.7	134	171	10.8	1.282	0.0475	51.1	3064	5370	72.4%	27.6%
VW	Car	All	2005	28.7	19.0	27.1	22.9	3617	104.6	142	174	10.9	1.223	0.0470	52.9	3102	5556	71.7%	28.1%
VW	Car	All	2006	29.9	19.8	28.1	23.8	3638	105.1	145	183	10.5	1.271	0.0496	55.7	3249	5861	80.8%	19.2%
VW	Car	All	2007	28.6	18.9	27.2	22.9	3699	105.6	150	195	9.9	1.313	0.0518	53.3	3064	5633	79.0%	20.9%
VW	Car	All	2008	28.9	19.2	27.4	23.1	3659	104.5	150	202	9.5	1.363	0.0545	53.3	3064	5575	77.7%	22.2%
VW	Car	All	2009	31.0	20.6	28.7	24.6	3632	103.8	142	191	9.3	1.361	0.0522	57.7	3321	5998	78.3%	21.6%
VW	Car	All	2010	33.1	21.9	30.4	26.1	3609	106.9	137	187	9.3	1.371	0.0513	61.3	3680	6594	82.4%	17.5%
VW	Car	All	2011	33.5	23.0	31.7	27.3	3624	107.2	140	186	9.5	1.324	0.0505	62.2	3718	6677	78.7%	21.3%
VW	Car	All	2012	33.2	22.7	31.5	27.0	3618	109.4	144	198	9.2	1.377	0.0541	61.3	3739	6713	81.4%	18.6%
VW	Truck	All	1975	20.7	16.2	19.8	17.6	3497		109	67	21.0	0.615	0.0192	36.2				
VW	Truck	All	1976	19.9	15.1	20.1	17.0	3500		120	67	20.9	0.558	0.0191	34.9				
VW	Truck	All	1977	22.2	17.2	21.5	18.9	3500		120	67	20.8	0.558	0.0191	38.9				
VW	Truck	All	1978	20.0	15.7	19.1	17.0	3500		120	67	20.9	0.558	0.0191	35.0				
VW	Truck	All	1979	18.7	14.8	17.6	16.0	3500		120	67	20.9	0.558	0.0191	32.9				
VW	Truck	All	1980	25.2	19.7	24.2	21.5	2770		104	66	17.9	0.638	0.0249	36.4			62.7%	
VW	Truck	All	1981	29.5	23.3	27.8	25.1	2652		104	61	18.1	0.584	0.0236	41.2			74.8%	
VW	Truck	All	1982	27.8	22.6	24.9	23.6	3002		105	60	20.3	0.567	0.0208	44.1			49.0%	
VW	Truck	All	1983	20.3	16.1	19.0	17.3	3488		117	69	20.5	0.591	0.0201	36.2			11.0%	
VW	Truck	All	1984	20.7	16.6	18.9	17.6	3627		117	82	18.4	0.701	0.0227	37.5				

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
VW	Car	All	1987	67.4%				100.0%			93.8%		6.2%				88.5%	11.5%	
VW	Car	All	1988	75.8%				100.0%			93.6%		6.4%				96.0%	4.0%	
VW	Car	All	1989	70.5%				97.3%	0.1%	2.6%	93.9%		6.1%				91.4%	8.6%	
VW	Car	All	1990	58.8%	11.5%			98.9%		1.1%	82.1%		17.9%				78.5%	21.5%	
VW	Car	All	1991	58.1%	19.0%			95.6%		4.4%	78.8%		21.2%				76.2%	23.8%	
VW	Car	All	1992	58.6%	21.0%			98.8%		1.2%	80.3%		19.7%				70.1%	29.9%	
VW	Car	All	1993	57.3%	40.5%			100.0%			96.0%		4.0%				69.9%	30.1%	
VW	Car	All	1994	52.2%	47.8%			100.0%			99.2%		0.8%				99.1%	0.9%	0.0%
VW	Car	All	1995	61.1%	38.9%			100.0%			98.9%		1.1%				88.8%	11.2%	
VW	Car	All	1996	56.9%	43.1%			96.8%		3.2%	100.0%		0.0%				87.9%	12.1%	
VW	Car	All	1997	57.9%	42.1%			97.8%		2.2%	93.4%		1.5%	5.1%			91.4%	8.6%	
VW	Car	All	1998	53.5%	46.5%			94.6%		5.4%	66.9%		0.9%	32.1%	17.3%		80.3%	19.7%	
VW	Car	All	1999	36.8%	63.2%			97.3%		2.7%	59.4%		0.1%	40.4%	20.0%		69.0%	31.0%	0.0%
VW	Car	All	2000	45.1%	54.9%			94.6%		5.4%	57.6%		0.0%	42.4%	14.1%		75.5%	24.3%	0.2%
VW	Car	All	2001	43.2%	56.8%			95.2%		4.8%	44.9%		0.0%	55.1%	24.1%		75.2%	24.4%	0.4%
VW	Car	All	2002	28.4%	69.8%	1.8%		92.0%		8.0%	40.8%		1.8%	57.4%	9.1%		74.2%	25.6%	0.2%
VW	Car	All	2003	31.9%	64.5%	3.6%		93.1%		6.9%	37.1%		4.1%	58.8%	12.4%		71.4%	28.4%	0.1%
VW	Car	All	2004	26.3%	69.6%	4.0%		93.0%		7.0%	35.9%		3.5%	60.6%	13.9%		70.8%	26.1%	3.1%
VW	Car	All	2005	19.7%	75.7%	4.6%		88.3%		11.7%	32.5%		30.2%	37.3%	15.8%		76.9%	21.3%	1.8%
VW	Car	All	2006	18.0%	77.2%	4.8%		86.5%		13.5%	14.5%		79.3%	6.2%	44.2%		73.2%	25.6%	1.2%
VW	Car	All	2007	20.6%	73.8%	5.5%		100.0%					99.2%	0.8%	9.3%		79.8%	19.1%	1.1%
VW	Car	All	2008	14.9%	79.9%	5.2%	47.5%	52.5%			0.1%		99.5%	0.4%	14.4%		81.6%	17.8%	0.6%
VW	Car	All	2009	14.7%	82.7%	2.6%	46.5%	38.6%		14.9%	0.1%		99.9%	0.0%	14.0%		91.6%	7.8%	0.6%
VW	Car	All	2010	15.0%	44.3%	3.5%	45.0%	33.2%		21.8%	0.0%		100.0%		79.0%		92.3%	7.4%	0.2%
VW	Car	All	2011	15.7%	80.1%	3.8%	36.7%	42.7%		20.7%	7.0%		93.0%		69.7%		95.3%	3.4%	1.2%
VW	Car	All	2012	15.9%	59.9%	2.5%	36.0%	45.1%		18.9%	4.4%		95.6%		76.8%		67.2%	31.3%	1.4%
VW	Truck	All	1975	70.8%					100.0%								100.0%		
VW	Truck	All	1976	84.8%					100.0%								100.0%		
VW	Truck	All	1977	89.9%					100.0%								100.0%		
VW	Truck	All	1978	85.0%					100.0%								100.0%		
VW	Truck	All	1979	81.2%					100.0%								100.0%		
VW	Truck	All	1980	89.9%					73.2%	26.8%							100.0%		
VW	Truck	All	1981	95.3%					45.5%	54.5%							100.0%		
VW	Truck	All	1982	94.4%					43.2%	56.8%							100.0%		
VW	Truck	All	1983	81.2%					92.6%	7.4%							100.0%		
VW	Truck	All	1984	74.3%					100.0%								100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
VW	Truck	All	1985	21.3	17.2	19.2	18.1	3656		117	82	18.5	0.701	0.0225	39.0				
VW	Truck	All	1986	19.2	15.7	17.0	16.2	3764		129	90	17.6	0.698	0.0240	36.2				
VW	Truck	All	1987	18.9	15.4	16.6	15.9	3818		129	90	17.8	0.698	0.0237	36.2				18.1%
VW	Truck	All	1988	19.9	16.1	17.4	16.7	3868		129	90	18.1	0.698	0.0234	38.6				
VW	Truck	All	1989	20.8	16.9	17.9	17.4	4042		129	90	18.7	0.698	0.0223	42.2				8.5%
VW	Truck	All	1990	20.8	16.7	17.8	17.3	4020		129	90	19.0	0.698	0.0224	41.9				51.7%
VW	Truck	All	1991	20.9	16.5	18.3	17.3	4021		129	90	18.7	0.698	0.0224	42.1				6.8%
VW	Truck	All	1992																
VW	Truck	All	1993	21.0	16.0	19.0	17.4	4157		150	109	16.6	0.727	0.0263	43.7			100.0%	
VW	Truck	All	1994	20.1	15.1	18.6	16.6	4260		150	109	16.8	0.727	0.0257	42.8			100.0%	
VW	Truck	All	1995	19.6	14.8	17.5	16.1	5000		150	109	19.1	0.727	0.0218	48.9			100.0%	
VW	Truck	All	1996																
VW	Truck	All	1997	18.5	13.4	17.5	15.3	5490		170	140	17.1	0.824	0.0255	50.8			100.0%	
VW	Truck	All	1998																
VW	Truck	All	1999	19.1	13.5	18.3	15.7	4897		170	140	15.6	0.824	0.0289	46.7			100.0%	
VW	Truck	All	2000	19.0	13.3	18.2	15.6	5116		170	140	16.1	0.824	0.0276	48.5			100.0%	
VW	Truck	All	2001	20.7	14.8	18.7	16.7	4850		170	201	11.6	1.182	0.0418	50.0			100.0%	
VW	Truck	All	2002	20.9	14.9	18.6	16.8	4638		170	201	11.2	1.182	0.0435	48.3			100.0%	
VW	Truck	All	2003	20.9	14.8	18.5	16.7	4564		170	201	11.0	1.182	0.0441	47.6			100.0%	
VW	Truck	All	2004	19.0	13.0	18.0	15.4	5508		223	262	10.6	1.166	0.0475	52.4				100.0%
VW	Truck	All	2005	19.8	13.6	18.5	16.0	5500		217	264	10.3	1.215	0.0480	54.8				100.0%
VW	Truck	All	2006	20.0	13.7	18.7	16.2	5527		219	263	10.3	1.206	0.0476	55.7				100.0%
VW	Truck	All	2007	19.5	13.5	17.9	15.7	5568		231	300	9.3	1.295	0.0539	54.5				100.0%
VW	Truck	All	2008	20.2	13.7	19.0	16.3	5572		227	295	9.5	1.298	0.0528	56.4				100.0%
VW	Truck	All	2009	24.5	16.8	22.2	19.5	4538		165	239	9.6	1.497	0.0526	55.4			31.8%	68.2%
VW	Truck	All	2010	25.2	17.4	22.6	20.0	4551		169	241	9.2	1.461	0.0532	57.4			21.1%	78.9%
VW	Truck	All	2011	27.1	18.7	24.8	21.7	4538		147	229	9.6	1.593	0.0506	61.5			19.5%	80.5%
VW	Truck	All	2012	28.0	19.1	25.3	22.2	4555		152	257	8.8	1.772	0.0572	63.7			18.0%	82.0%
VW	All	All	1975	26.7	20.2	27.2	22.8	2364		93	67	15.7	0.721	0.0284	31.6			77.3%	
VW	All	All	1976	27.8	21.7	26.9	23.7	2333		98	72	14.6	0.737	0.0310	32.6			84.3%	
VW	All	All	1977	29.7	22.8	29.3	25.3	2329		97	72	14.6	0.738	0.0309	35.1			94.5%	
VW	All	All	1978	27.7	21.4	27.2	23.7	2381		95	71	15.1	0.753	0.0299	34.1			95.1%	
VW	All	All	1979	28.7	22.2	28.0	24.5	2403		96	69	15.7	0.718	0.0287	36.0			90.8%	
VW	All	All	1980	30.9	23.9	30.3	26.4	2402		98	67	16.0	0.682	0.0281	39.1			95.5%	
VW	All	All	1981	34.0	26.3	33.0	28.9	2421		104	66	16.3	0.626	0.0272	43.3			96.5%	
VW	All	All	1982	32.9	26.0	31.0	28.0	2514		105	69	16.1	0.654	0.0278	43.5			93.8%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
VW	Truck	All	1985	71.6%				100.0%									100.0%		
VW	Truck	All	1986	69.8%				100.0%									100.0%		
VW	Truck	All	1987	53.9%				100.0%									100.0%		
VW	Truck	All	1988	56.0%				100.0%									100.0%		
VW	Truck	All	1989	51.3%				100.0%									100.0%		
VW	Truck	All	1990	47.4%				100.0%									100.0%		
VW	Truck	All	1991	44.4%				100.0%									100.0%		
VW	Truck	All	1992																
VW	Truck	All	1993	35.7%	64.3%			100.0%										100.0%	
VW	Truck	All	1994	48.0%	52.0%			100.0%			100.0%							100.0%	
VW	Truck	All	1995	43.8%	56.2%			100.0%			100.0%								100.0%
VW	Truck	All	1996																
VW	Truck	All	1997		100.0%			100.0%			100.0%								100.0%
VW	Truck	All	1998																
VW	Truck	All	1999		100.0%			100.0%			100.0%							60.3%	39.7%
VW	Truck	All	2000		100.0%			100.0%			100.0%							38.4%	61.6%
VW	Truck	All	2001		100.0%			100.0%					100.0%					100.0%	
VW	Truck	All	2002		100.0%			100.0%					100.0%					86.2%	13.8%
VW	Truck	All	2003		100.0%			100.0%					100.0%					6.4%	93.6%
VW	Truck	All	2004		100.0%			98.4%		1.6%	1.6%		53.8%	44.6%	98.4%				100.0%
VW	Truck	All	2005		100.0%			100.0%					63.0%	37.0%	100.0%				100.0%
VW	Truck	All	2006		100.0%			94.5%		5.5%	5.5%		64.0%	30.6%	94.5%				100.0%
VW	Truck	All	2007		100.0%			98.7%		1.3%	1.3%		98.7%		66.6%				100.0%
VW	Truck	All	2008		100.0%		99.4%			0.6%	0.6%		99.4%		99.4%				100.0%
VW	Truck	All	2009	1.2%	98.8%		100.0%						100.0%		100.0%			51.6%	48.4%
VW	Truck	All	2010	0.8%	62.0%		90.8%			9.2%			100.0%		94.7%			38.0%	62.0%
VW	Truck	All	2011	0.5%	99.5%		89.6%			10.4%			100.0%		100.0%	0.6%		39.8%	60.2%
VW	Truck	All	2012	0.4%	99.6%		89.8%			10.2%			100.0%		100.0%	0.8%		38.9%	61.1%
VW	All	All	1975	71.2%	2.8%			42.5%	0.3%								100.0%		
VW	All	All	1976	70.4%				34.4%	0.7%								100.0%		
VW	All	All	1977	79.6%				62.6%	0.7%	7.2%							100.0%		
VW	All	All	1978	72.6%				84.8%	1.0%	13.2%							100.0%		
VW	All	All	1979	78.5%				73.5%	4.2%	22.3%							100.0%		
VW	All	All	1980	84.3%				53.4%	6.9%	36.3%							100.0%		
VW	All	All	1981	86.4%				44.4%	6.3%	49.3%							100.0%		
VW	All	All	1982	79.7%				59.3%	5.2%	32.7%							100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
VW	All	All	1983	29.7	23.3	28.2	25.3	2557		110	79	14.7	0.715	0.0315	39.3			90.1%	0.4%
VW	All	All	1984	28.0	22.0	26.6	23.9	2671		114	86	14.2	0.748	0.0324	38.6			91.0%	1.1%
VW	All	All	1985	29.0	22.7	27.8	24.7	2724		115	92	13.7	0.797	0.0339	40.7			91.6%	1.5%
VW	All	All	1986	28.9	22.5	27.6	24.5	2691		116	96	13.2	0.823	0.0356	39.8			93.3%	3.2%
VW	All	All	1987	28.1	21.9	26.3	23.7	2744		115	99	13.0	0.856	0.0362	39.0			91.0%	5.0%
VW	All	All	1988	29.9	23.0	28.2	25.2	2683		113	97	12.9	0.857	0.0361	40.4			94.7%	3.3%
VW	All	All	1989	29.7	22.6	28.1	24.9	2759		114	99	13.1	0.869	0.0359	41.4			96.0%	1.3%
VW	All	All	1990	28.2	21.3	26.9	23.6	2955		118	112	12.7	0.946	0.0378	41.9			92.7%	4.7%
VW	All	All	1991	29.1	21.5	28.0	24.2	2957		116	106	13.3	0.907	0.0358	43.4			93.1%	2.8%
VW	All	All	1992	29.0	21.1	28.3	24.1	2957	104.2	122	116	12.4	0.938	0.0386	43.0	3052	4489	97.9%	2.1%
VW	All	All	1993	25.7	18.7	25.0	21.4	3269		144	132	12.3	0.905	0.0402	42.0			88.8%	10.9%
VW	All	All	1994	28.0	20.2	27.2	23.2	3091		131	128	11.7	0.968	0.0411	43.4			89.0%	11.0%
VW	All	All	1995	28.4	20.4	27.2	23.4	3127		134	131	11.6	0.971	0.0417	44.6			94.5%	5.5%
VW	All	All	1996	28.2	19.9	27.4	23.2	3145	104.5	134	130	11.7	0.961	0.0411	44.9	2999	4711	90.0%	9.8%
VW	All	All	1997	28.4	20.0	27.3	23.3	3166		134	132	11.6	0.984	0.0417	45.4			86.4%	13.4%
VW	All	All	1998	28.6	19.9	27.7	23.4	3209	103.2	132	138	11.4	1.045	0.0427	46.8	3030	4840	81.0%	18.9%
VW	All	All	1999	28.2	19.5	27.2	23.0	3269		131	141	11.4	1.076	0.0426	46.5			84.2%	15.6%
VW	All	All	2000	28.4	19.7	26.8	23.0	3268		133	147	11.2	1.109	0.0444	47.2			84.9%	14.9%
VW	All	All	2001	28.0	19.2	26.5	22.6	3343		133	158	10.8	1.196	0.0467	47.5			76.8%	23.0%
VW	All	All	2002	28.9	19.6	27.2	23.2	3416		129	159	11.0	1.253	0.0461	50.2			80.7%	19.2%
VW	All	All	2003	29.2	19.8	27.4	23.4	3455		129	160	11.0	1.262	0.0459	51.3			83.2%	16.8%
VW	All	All	2004	27.0	18.2	25.4	21.7	3753		144	181	10.8	1.269	0.0475	51.3			64.4%	35.6%
VW	All	All	2005	27.8	18.5	26.2	22.2	3753		148	181	10.8	1.222	0.0471	53.0			66.6%	33.3%
VW	All	All	2006	29.4	19.5	27.6	23.4	3705		148	186	10.5	1.269	0.0495	55.7			77.9%	22.0%
VW	All	All	2007	27.4	18.2	25.9	21.9	3878		158	205	9.8	1.311	0.0520	53.4			71.4%	28.5%
VW	All	All	2008	27.9	18.6	26.4	22.3	3817		156	209	9.5	1.358	0.0543	53.5			71.3%	28.6%
VW	All	All	2009	30.0	20.0	27.7	23.8	3747		145	197	9.3	1.378	0.0523	57.4			72.4%	27.5%
VW	All	All	2010	31.7	21.1	29.0	25.0	3745		142	194	9.3	1.384	0.0515	60.7			73.6%	26.4%
VW	All	All	2011	32.1	22.0	30.1	26.0	3802		142	194	9.5	1.376	0.0505	62.1			67.1%	32.8%
VW	All	All	2012	32.3	22.1	30.5	26.2	3748		145	206	9.1	1.432	0.0545	61.6			72.6%	27.4%
Kia	Car	Car	1975																
Kia	Car	Car	1976																
Kia	Car	Car	1977																
Kia	Car	Car	1978																
Kia	Car	Car	1979																
Kia	Car	Car	1980																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
VW	All	All	1983	76.2%				71.9%	9.8%	14.1%							100.0%		
VW	All	All	1984	65.2%				77.9%	7.8%	10.4%							78.5%	21.5%	
VW	All	All	1985	63.4%				84.1%	6.9%	8.9%							81.7%	18.3%	
VW	All	All	1986	62.6%				94.6%		5.4%	95.5%		1.1%				82.2%	17.8%	
VW	All	All	1987	66.7%				100.0%			89.2%		5.9%				89.1%	10.9%	
VW	All	All	1988	75.4%				100.0%			91.9%		6.3%				96.0%	4.0%	
VW	All	All	1989	70.0%				97.3%	0.1%	2.5%	91.6%		5.9%				91.7%	8.3%	
VW	All	All	1990	58.3%	10.9%			98.9%		1.1%	78.2%		17.1%				79.5%	20.5%	
VW	All	All	1991	57.5%	18.2%			95.8%		4.2%	75.6%		20.3%				77.1%	22.9%	
VW	All	All	1992	58.6%	21.0%			98.8%		1.2%	80.3%		19.7%				70.1%	29.9%	
VW	All	All	1993	54.1%	44.0%			100.0%			81.7%		3.4%				59.5%	40.5%	
VW	All	All	1994	52.2%	47.8%			100.0%			99.2%		0.8%				98.7%	1.3%	0.0%
VW	All	All	1995	60.9%	39.1%			100.0%			99.0%		1.0%				87.6%	11.1%	1.3%
VW	All	All	1996	56.9%	43.1%			96.8%		3.2%	100.0%		0.0%				87.9%	12.1%	
VW	All	All	1997	57.4%	42.6%			97.8%		2.2%	93.5%		1.5%	5.1%			90.5%	8.5%	1.0%
VW	All	All	1998	53.5%	46.5%			94.6%		5.4%	66.9%		0.9%	32.1%	17.3%		80.3%	19.7%	
VW	All	All	1999	36.5%	63.5%			97.4%		2.6%	59.7%		0.1%	40.1%	19.8%		68.5%	31.2%	0.3%
VW	All	All	2000	44.8%	55.2%			94.6%		5.4%	57.9%		0.0%	42.1%	14.0%		75.0%	24.4%	0.6%
VW	All	All	2001	42.9%	57.1%			95.2%		4.8%	44.6%		0.8%	54.6%	23.9%		74.6%	25.0%	0.4%
VW	All	All	2002	28.0%	70.2%	1.8%		92.1%		7.9%	40.2%		3.1%	56.7%	9.0%		73.2%	26.4%	0.3%
VW	All	All	2003	31.5%	64.9%	3.6%		93.1%		6.9%	36.7%		5.2%	58.1%	12.2%		70.7%	28.2%	1.2%
VW	All	All	2004	23.4%	73.0%	3.6%		93.6%		6.4%	32.1%		9.0%	58.8%	23.2%		63.0%	23.2%	13.8%
VW	All	All	2005	18.3%	77.5%	4.2%		89.2%		10.8%	30.2%		32.5%	37.3%	21.8%		71.3%	19.8%	8.9%
VW	All	All	2006	17.4%	78.0%	4.6%		86.8%		13.2%	14.2%		78.7%	7.0%	46.0%		70.6%	24.7%	4.7%
VW	All	All	2007	18.6%	76.3%	5.0%		99.9%		0.1%	0.1%		99.2%	0.7%	14.8%		72.2%	17.2%	10.6%
VW	All	All	2008	13.7%	81.6%	4.8%	51.8%	48.1%		0.0%	0.1%		99.5%	0.4%	21.4%		74.8%	16.4%	8.8%
VW	All	All	2009	13.0%	84.7%	2.3%	53.3%	33.7%		13.0%	0.1%		99.9%	0.0%	24.9%		80.0%	13.4%	6.6%
VW	All	All	2010	12.9%	46.8%	3.0%	51.6%	28.4%		20.0%	0.0%		100.0%		81.2%		79.1%	11.8%	9.1%
VW	All	All	2011	12.7%	83.9%	3.1%	47.0%	34.4%		18.7%	5.6%		94.4%		75.6%	0.1%	76.8%	10.5%	12.7%
VW	All	All	2012	13.7%	65.4%	2.2%	43.4%	38.9%		17.7%	3.8%		96.2%		80.0%	0.1%	57.9%	32.4%	9.7%
Kia	Car	Car	1975																
Kia	Car	Car	1976																
Kia	Car	Car	1977																
Kia	Car	Car	1978																
Kia	Car	Car	1979																
Kia	Car	Car	1980																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Kia	Car	Car	1981																
Kia	Car	Car	1982																
Kia	Car	Car	1983																
Kia	Car	Car	1984																
Kia	Car	Car	1985																
Kia	Car	Car	1986																
Kia	Car	Car	1987																
Kia	Car	Car	1988																
Kia	Car	Car	1989																
Kia	Car	Car	1990																
Kia	Car	Car	1991																
Kia	Car	Car	1992																
Kia	Car	Car	1993	31.7	23.4	29.5	26.1	2750	103.9	98	82	15.1	0.837	0.0298	43.6	3293	4527	100.0%	
Kia	Car	Car	1994	32.9	24.4	30.0	26.9	2750	103.9	98	88	14.1	0.898	0.0320	45.3	3425	4710	100.0%	
Kia	Car	Car	1995	31.0	22.3	29.4	25.4	2750	101.3	102	99	13.1	0.970	0.0360	42.7	3147	4328	100.0%	
Kia	Car	Car	1996	28.9	20.7	27.3	23.7	2750	103.9	111	121	11.0	1.088	0.0441	39.8	3010	4139	100.0%	
Kia	Car	Car	1997	30.8	21.8	29.1	25.1	2750	103.9	111	121	11.0	1.088	0.0440	42.4	3202	4403	100.0%	
Kia	Car	Car	1998	30.7	21.4	29.4	25.0	2750	104.4	109	125	10.7	1.147	0.0455	42.2	3204	4405	100.0%	
Kia	Car	Car	1999	30.7	21.3	29.3	24.9	2750	104.4	109	125	10.7	1.147	0.0455	42.2	3207	4409	100.0%	
Kia	Car	Car	2000	29.8	20.3	28.8	24.2	2750	104.9	109	125	10.7	1.147	0.0455	40.9	3123	4293	100.0%	
Kia	Car	Car	2001	30.3	20.9	28.1	24.3	2777	105.1	108	118	11.4	1.088	0.0422	41.9	3193	4412	100.0%	
Kia	Car	Car	2002	29.4	20.2	27.1	23.5	2997	108.0	110	119	12.1	1.087	0.0396	44.1	3200	4764	100.0%	
Kia	Car	Car	2003	30.1	20.3	28.2	24.0	3005	106.4	113	123	11.7	1.100	0.0409	45.2	3213	4813	100.0%	
Kia	Car	Car	2004	28.9	19.2	27.4	23.1	3257	111.6	136	140	11.4	1.037	0.0426	47.1	3250	5257	100.0%	
Kia	Car	Car	2005	29.2	19.3	27.7	23.3	3239	112.7	139	142	11.2	1.042	0.0436	47.3	3329	5341	100.0%	
Kia	Car	Car	2006	32.4	21.4	30.3	25.7	3135	112.8	129	140	11.0	1.091	0.0443	51.0	3697	5752	100.0%	
Kia	Car	Car	2007	34.2	22.7	31.4	26.9	3120	113.4	127	141	10.9	1.112	0.0448	53.4	3897	6056	100.0%	
Kia	Car	Car	2008	34.4	22.8	31.5	27.1	3125	113.4	126	141	10.9	1.114	0.0447	53.8	3919	6101	100.0%	
Kia	Car	Car	2009	35.7	23.7	32.3	28.0	3061	112.4	121	138	11.0	1.134	0.0446	54.6	4024	6146	100.0%	
Kia	Car	Car	2010	36.8	24.3	33.2	28.7	3055	108.7	126	155	9.9	1.233	0.0507	56.2	4005	6109	100.0%	
Kia	Car	Car	2011	N/A	24.6	34.6	29.5	3212	113.6	130	177	9.4	1.361	0.0545	N/A	N/A	N/A	100.0%	
Kia	Car	Car	2012	N/A	25.1	35.1	30.0	3173	112.3	127	176	9.2	1.396	0.0551	N/A	N/A	N/A	100.0%	
Kia	Car	Wagon	1975																
Kia	Car	Wagon	1976																
Kia	Car	Wagon	1977																
Kia	Car	Wagon	1978																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Kia	Car	Car	1981																
Kia	Car	Car	1982																
Kia	Car	Car	1983																
Kia	Car	Car	1984																
Kia	Car	Car	1985																
Kia	Car	Car	1986																
Kia	Car	Car	1987																
Kia	Car	Car	1988																
Kia	Car	Car	1989																
Kia	Car	Car	1990																
Kia	Car	Car	1991																
Kia	Car	Car	1992																
Kia	Car	Car	1993		100.0%			100.0%					100.0%				100.0%		
Kia	Car	Car	1994	48.1%	51.9%			100.0%					100.0%				100.0%		
Kia	Car	Car	1995	35.8%	64.2%			100.0%					100.0%				100.0%		
Kia	Car	Car	1996	29.3%	70.7%			100.0%					100.0%				100.0%		
Kia	Car	Car	1997	34.6%	65.4%			100.0%					100.0%				100.0%		
Kia	Car	Car	1998	23.1%	76.9%			100.0%					100.0%				100.0%		
Kia	Car	Car	1999	25.5%	74.5%			100.0%					100.0%				100.0%		
Kia	Car	Car	2000	26.1%	73.9%			100.0%					100.0%				100.0%		
Kia	Car	Car	2001	24.3%	75.7%			100.0%					100.0%				84.2%	15.8%	
Kia	Car	Car	2002	20.0%	80.0%			100.0%					100.0%				82.4%	17.6%	
Kia	Car	Car	2003	19.9%	80.1%			100.0%					100.0%				83.2%	16.8%	
Kia	Car	Car	2004	13.3%	86.7%			100.0%					100.0%		40.1%		31.2%	57.3%	11.5%
Kia	Car	Car	2005	12.2%	87.8%			100.0%					100.0%		59.4%		19.7%	63.2%	17.1%
Kia	Car	Car	2006	12.9%	87.1%			100.0%					100.0%		95.1%		20.4%	74.7%	4.9%
Kia	Car	Car	2007	8.3%	91.7%			100.0%					100.0%		22.1%		22.1%	74.8%	3.1%
Kia	Car	Car	2008	10.7%	89.3%			100.0%					100.0%				24.0%	73.7%	2.3%
Kia	Car	Car	2009	7.6%	92.4%			100.0%					100.0%		43.7%		29.8%	69.6%	0.7%
Kia	Car	Car	2010	6.9%	93.1%			100.0%					100.0%		100.0%		82.3%	17.7%	
Kia	Car	Car	2011	3.2%	94.4%		45.2%	54.8%					100.0%		100.0%	2.4%	19.7%	80.3%	
Kia	Car	Car	2012	6.9%	92.0%		69.1%	30.9%					100.0%		100.0%	1.2%	28.7%	71.3%	
Kia	Car	Wagon	1975																
Kia	Car	Wagon	1976																
Kia	Car	Wagon	1977																
Kia	Car	Wagon	1978																

2012 FE Trends Report
Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Kia	Car	Wagon	1979																
Kia	Car	Wagon	1980																
Kia	Car	Wagon	1981																
Kia	Car	Wagon	1982																
Kia	Car	Wagon	1983																
Kia	Car	Wagon	1984																
Kia	Car	Wagon	1985																
Kia	Car	Wagon	1986																
Kia	Car	Wagon	1987																
Kia	Car	Wagon	1988																
Kia	Car	Wagon	1989																
Kia	Car	Wagon	1990																
Kia	Car	Wagon	1991																
Kia	Car	Wagon	1992																
Kia	Car	Wagon	1993																
Kia	Car	Wagon	1994																
Kia	Car	Wagon	1995																
Kia	Car	Wagon	1996																
Kia	Car	Wagon	1997																
Kia	Car	Wagon	1998																
Kia	Car	Wagon	1999																
Kia	Car	Wagon	2000																
Kia	Car	Wagon	2001																
Kia	Car	Wagon	2002																
Kia	Car	Wagon	2003																
Kia	Car	Wagon	2004																
Kia	Car	Wagon	2005																
Kia	Car	Wagon	2006																
Kia	Car	Wagon	2007	27.4	18.3	25.7	21.9	3736	142.8	152	171	10.7	1.124	0.0459	51.2	3922	7310	100.0%	
Kia	Car	Wagon	2008	27.5	18.3	26.0	22.0	3839	142.8	156	176	10.7	1.124	0.0458	52.8	3930	7534	100.0%	
Kia	Car	Wagon	2009	29.0	19.5	26.5	23.0	3529	139.5	145	176	10.0	1.214	0.0499	51.1	4044	7132	100.0%	
Kia	Car	Wagon	2010	35.0	24.1	29.8	27.0	3011	126.3	121	142	10.4	1.170	0.0471	52.7	4421	6654	100.0%	
Kia	Car	Wagon	2011	N/A	24.3	29.9	27.2	3001	126.0	120	140	10.5	1.174	0.0467	N/A	N/A	N/A	100.0%	
Kia	Car	Wagon	2012	N/A	23.8	28.5	26.3	3001	126.0	114	156	9.7	1.364	0.0519	N/A	N/A	N/A	100.0%	
Kia	Car	Non-Truck SUV	1975																
Kia	Car	Non-Truck SUV	1976																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Kia	Car	Wagon	1979																
Kia	Car	Wagon	1980																
Kia	Car	Wagon	1981																
Kia	Car	Wagon	1982																
Kia	Car	Wagon	1983																
Kia	Car	Wagon	1984																
Kia	Car	Wagon	1985																
Kia	Car	Wagon	1986																
Kia	Car	Wagon	1987																
Kia	Car	Wagon	1988																
Kia	Car	Wagon	1989																
Kia	Car	Wagon	1990																
Kia	Car	Wagon	1991																
Kia	Car	Wagon	1992																
Kia	Car	Wagon	1993																
Kia	Car	Wagon	1994																
Kia	Car	Wagon	1995																
Kia	Car	Wagon	1996																
Kia	Car	Wagon	1997																
Kia	Car	Wagon	1998																
Kia	Car	Wagon	1999																
Kia	Car	Wagon	2000																
Kia	Car	Wagon	2001																
Kia	Car	Wagon	2002																
Kia	Car	Wagon	2003																
Kia	Car	Wagon	2004																
Kia	Car	Wagon	2005																
Kia	Car	Wagon	2006																
Kia	Car	Wagon	2007		100.0%			100.0%					100.0%					100.0%	
Kia	Car	Wagon	2008		100.0%			100.0%					100.0%					100.0%	
Kia	Car	Wagon	2009		100.0%			100.0%					100.0%					100.0%	
Kia	Car	Wagon	2010	13.5%	86.5%			100.0%					100.0%		100.0%		97.8%	2.2%	
Kia	Car	Wagon	2011	13.9%	86.1%			100.0%					100.0%		100.0%		99.9%	0.1%	
Kia	Car	Wagon	2012	10.0%	90.0%		32.0%	68.0%					100.0%		100.0%		99.9%	0.1%	
Kia	Car	Non-Truck SUV	1975																
Kia	Car	Non-Truck SUV	1976																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Kia	Car	Non-Truck SUV	1977																
Kia	Car	Non-Truck SUV	1978																
Kia	Car	Non-Truck SUV	1979																
Kia	Car	Non-Truck SUV	1980																
Kia	Car	Non-Truck SUV	1981																
Kia	Car	Non-Truck SUV	1982																
Kia	Car	Non-Truck SUV	1983																
Kia	Car	Non-Truck SUV	1984																
Kia	Car	Non-Truck SUV	1985																
Kia	Car	Non-Truck SUV	1986																
Kia	Car	Non-Truck SUV	1987																
Kia	Car	Non-Truck SUV	1988																
Kia	Car	Non-Truck SUV	1989																
Kia	Car	Non-Truck SUV	1990																
Kia	Car	Non-Truck SUV	1991																
Kia	Car	Non-Truck SUV	1992																
Kia	Car	Non-Truck SUV	1993																
Kia	Car	Non-Truck SUV	1994																
Kia	Car	Non-Truck SUV	1995	25.6	18.8	23.5	21.0	3500	125.0	122	94	16.0	0.770	0.0269	44.7	3196	5593	100.0%	
Kia	Car	Non-Truck SUV	1996	24.9	18.4	22.4	20.3	3500	125.0	122	130	12.4	1.066	0.0371	43.5	3107	5437		
Kia	Car	Non-Truck SUV	1997	23.3	17.5	20.4	18.9	3500	125.0	122	130	12.6	1.066	0.0371	40.8	2918	5106		
Kia	Car	Non-Truck SUV	1998	24.4	17.9	21.7	19.7	3500	125.0	122	130	12.6	1.066	0.0371	42.7	3049	5336		
Kia	Car	Non-Truck SUV	1999	24.4	17.8	21.6	19.7	3500	100.0	122	130	12.6	1.066	0.0371	42.7	2439	4269		
Kia	Car	Non-Truck SUV	2000	23.3	17.1	20.4	18.7	3500	100.0	122	130	12.6	1.066	0.0371	40.9	2337	4090		
Kia	Car	Non-Truck SUV	2001	22.9	16.6	20.1	18.4	3500	100.0	122	130	12.6	1.066	0.0371	40.1	2294	4015		
Kia	Car	Non-Truck SUV	2002	23.1	16.7	20.2	18.4	3500	100.0	122	130	12.6	1.066	0.0371	40.5	2314	4049		
Kia	Car	Non-Truck SUV	2003																
Kia	Car	Non-Truck SUV	2004																
Kia	Car	Non-Truck SUV	2005	26.2	17.9	23.7	20.8	3851	125.0	150	163	11.4	1.097	0.0423	50.4	3283	6304	100.0%	
Kia	Car	Non-Truck SUV	2006	26.4	18.0	23.8	20.9	3815	125.0	146	161	11.4	1.104	0.0420	50.3	3309	6291	100.0%	
Kia	Car	Non-Truck SUV	2007	25.2	17.2	22.9	20.0	3963	125.0	169	191	10.6	1.136	0.0474	49.9	3183	6232	63.0%	
Kia	Car	Non-Truck SUV	2008	25.1	17.1	23.0	20.0	4050	125.0	168	197	10.5	1.170	0.0478	50.7	3166	6340	49.7%	
Kia	Car	Non-Truck SUV	2009	26.1	18.0	23.1	20.6	3989	130.5	168	196	10.5	1.164	0.0482	51.9	3421	6787	58.7%	
Kia	Car	Non-Truck SUV	2010	28.7	20.0	24.6	22.4	3543	125.1	126	143	11.8	1.140	0.0403	50.8	3589	6353	99.7%	
Kia	Car	Non-Truck SUV	2011	N/A	20.5	27.9	24.2	3923	125.0	163	202	10.0	1.233	0.0514	N/A	N/A	N/A	96.1%	3.9%
Kia	Car	Non-Truck SUV	2012	N/A	20.9	29.0	24.9	3854	125.0	157	203	9.7	1.295	0.0526	N/A	N/A	N/A	100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Kia	Car	Non-Truck SUV	1977																
Kia	Car	Non-Truck SUV	1978																
Kia	Car	Non-Truck SUV	1979																
Kia	Car	Non-Truck SUV	1980																
Kia	Car	Non-Truck SUV	1981																
Kia	Car	Non-Truck SUV	1982																
Kia	Car	Non-Truck SUV	1983																
Kia	Car	Non-Truck SUV	1984																
Kia	Car	Non-Truck SUV	1985																
Kia	Car	Non-Truck SUV	1986																
Kia	Car	Non-Truck SUV	1987																
Kia	Car	Non-Truck SUV	1988																
Kia	Car	Non-Truck SUV	1989																
Kia	Car	Non-Truck SUV	1990																
Kia	Car	Non-Truck SUV	1991																
Kia	Car	Non-Truck SUV	1992																
Kia	Car	Non-Truck SUV	1993																
Kia	Car	Non-Truck SUV	1994																
Kia	Car	Non-Truck SUV	1995	100.0%				100.0%			100.0%							100.0%	
Kia	Car	Non-Truck SUV	1996	100.0%				100.0%					100.0%					100.0%	
Kia	Car	Non-Truck SUV	1997	33.8%	66.2%			100.0%					100.0%					100.0%	
Kia	Car	Non-Truck SUV	1998	28.7%	71.3%			100.0%					100.0%					100.0%	
Kia	Car	Non-Truck SUV	1999	20.2%	79.8%			100.0%					100.0%				100.0%		
Kia	Car	Non-Truck SUV	2000	18.4%	81.6%			100.0%					100.0%				100.0%		
Kia	Car	Non-Truck SUV	2001	17.0%	83.0%			100.0%					100.0%				100.0%		
Kia	Car	Non-Truck SUV	2002	19.2%	80.8%			100.0%					100.0%				100.0%		
Kia	Car	Non-Truck SUV	2003																
Kia	Car	Non-Truck SUV	2004																
Kia	Car	Non-Truck SUV	2005	7.7%	92.3%			100.0%					100.0%					100.0%	
Kia	Car	Non-Truck SUV	2006	8.4%	91.6%			100.0%					100.0%		37.0%			100.0%	
Kia	Car	Non-Truck SUV	2007	4.4%	95.6%			100.0%					100.0%		44.4%			100.0%	
Kia	Car	Non-Truck SUV	2008	2.2%	97.8%			100.0%					100.0%		92.6%			100.0%	
Kia	Car	Non-Truck SUV	2009	3.0%	97.0%			100.0%					100.0%		63.4%			77.9%	22.1%
Kia	Car	Non-Truck SUV	2010	3.4%	96.6%			100.0%					100.0%		91.9%			99.7%	0.3%
Kia	Car	Non-Truck SUV	2011	2.3%	97.7%		1.1%	98.9%					100.0%		100.0%			100.0%	0.0%
Kia	Car	Non-Truck SUV	2012	1.9%	98.1%		44.0%	56.0%					100.0%		100.0%			100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Kia	Truck	Van	1975																
Kia	Truck	Van	1976																
Kia	Truck	Van	1977																
Kia	Truck	Van	1978																
Kia	Truck	Van	1979																
Kia	Truck	Van	1980																
Kia	Truck	Van	1981																
Kia	Truck	Van	1982																
Kia	Truck	Van	1983																
Kia	Truck	Van	1984																
Kia	Truck	Van	1985																
Kia	Truck	Van	1986																
Kia	Truck	Van	1987																
Kia	Truck	Van	1988																
Kia	Truck	Van	1989																
Kia	Truck	Van	1990																
Kia	Truck	Van	1991																
Kia	Truck	Van	1992																
Kia	Truck	Van	1993																
Kia	Truck	Van	1994																
Kia	Truck	Van	1995																
Kia	Truck	Van	1996																
Kia	Truck	Van	1997																
Kia	Truck	Van	1998																
Kia	Truck	Van	1999																
Kia	Truck	Van	2000																
Kia	Truck	Van	2001																
Kia	Truck	Van	2002	20.0	14.0	18.7	16.2	5000		213	193	12.3	0.906	0.0386	50.0			100.0%	
Kia	Truck	Van	2003	20.0	13.9	18.6	16.2	5000		213	193	12.3	0.906	0.0386	50.0			100.0%	
Kia	Truck	Van	2004	21.1	14.1	20.8	17.3	5000		213	195	12.2	0.915	0.0390	52.9			100.0%	
Kia	Truck	Van	2005	21.3	14.2	20.7	17.3	5000		213	195	12.2	0.915	0.0390	53.3			100.0%	
Kia	Truck	Van	2006	23.8	15.9	22.7	19.2	4500		231	244	9.3	1.056	0.0542	53.5			100.0%	
Kia	Truck	Van	2007	23.8	15.9	22.7	19.2	4500		231	244	9.3	1.056	0.0542	53.5			100.0%	
Kia	Truck	Van	2008	23.8	15.9	22.7	19.2	4500		231	244	9.3	1.056	0.0542	53.5			100.0%	
Kia	Truck	Van	2009	23.8	15.9	22.7	19.2	4500		231	250	9.1	1.082	0.0556	53.5			100.0%	
Kia	Truck	Van	2010	24.7	16.6	23.3	19.8	4500		232	250	9.1	1.078	0.0556	55.6			100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Kia	Truck	Van	1975																
Kia	Truck	Van	1976																
Kia	Truck	Van	1977																
Kia	Truck	Van	1978																
Kia	Truck	Van	1979																
Kia	Truck	Van	1980																
Kia	Truck	Van	1981																
Kia	Truck	Van	1982																
Kia	Truck	Van	1983																
Kia	Truck	Van	1984																
Kia	Truck	Van	1985																
Kia	Truck	Van	1986																
Kia	Truck	Van	1987																
Kia	Truck	Van	1988																
Kia	Truck	Van	1989																
Kia	Truck	Van	1990																
Kia	Truck	Van	1991																
Kia	Truck	Van	1992																
Kia	Truck	Van	1993																
Kia	Truck	Van	1994																
Kia	Truck	Van	1995																
Kia	Truck	Van	1996																
Kia	Truck	Van	1997																
Kia	Truck	Van	1998																
Kia	Truck	Van	1999																
Kia	Truck	Van	2000																
Kia	Truck	Van	2001																
Kia	Truck	Van	2002		100.0%			100.0%					100.0%					100.0%	
Kia	Truck	Van	2003		100.0%			100.0%					100.0%					100.0%	
Kia	Truck	Van	2004		100.0%			100.0%					100.0%					100.0%	
Kia	Truck	Van	2005		100.0%			100.0%					100.0%					100.0%	
Kia	Truck	Van	2006		100.0%			100.0%					100.0%					100.0%	
Kia	Truck	Van	2007		100.0%			100.0%					100.0%					100.0%	
Kia	Truck	Van	2008		100.0%			100.0%					100.0%					100.0%	
Kia	Truck	Van	2009		100.0%			100.0%					100.0%					100.0%	
Kia	Truck	Van	2010		100.0%			100.0%					100.0%		100.0%			100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Kia	Truck	Van	2011	N/A	18.1	24.7	21.3	4500		214	271	8.6	1.266	0.0602	N/A			100.0%	
Kia	Truck	Van	2012	N/A	18.1	24.7	21.3	4500		214	271	8.6	1.266	0.0602	N/A			100.0%	
Kia	Truck	Truck SUV	1975																
Kia	Truck	Truck SUV	1976																
Kia	Truck	Truck SUV	1977																
Kia	Truck	Truck SUV	1978																
Kia	Truck	Truck SUV	1979																
Kia	Truck	Truck SUV	1980																
Kia	Truck	Truck SUV	1981																
Kia	Truck	Truck SUV	1982																
Kia	Truck	Truck SUV	1983																
Kia	Truck	Truck SUV	1984																
Kia	Truck	Truck SUV	1985																
Kia	Truck	Truck SUV	1986																
Kia	Truck	Truck SUV	1987																
Kia	Truck	Truck SUV	1988																
Kia	Truck	Truck SUV	1989																
Kia	Truck	Truck SUV	1990																
Kia	Truck	Truck SUV	1991																
Kia	Truck	Truck SUV	1992																
Kia	Truck	Truck SUV	1993																
Kia	Truck	Truck SUV	1994																
Kia	Truck	Truck SUV	1995	24.3	18.1	22.1	19.9	3500		122	110	14.4	0.903	0.0315	42.6				100.0%
Kia	Truck	Truck SUV	1996	23.0	17.2	20.5	18.8	3500		122	130	12.6	1.066	0.0371	40.3				100.0%
Kia	Truck	Truck SUV	1997	24.0	17.8	21.4	19.5	3500		122	130	12.6	1.066	0.0371	42.0				100.0%
Kia	Truck	Truck SUV	1998	24.4	17.9	21.7	19.7	3500		122	130	12.6	1.066	0.0371	42.7				100.0%
Kia	Truck	Truck SUV	1999	24.4	17.8	21.6	19.7	3500		122	130	12.6	1.066	0.0371	42.7				100.0%
Kia	Truck	Truck SUV	2000	23.6	17.3	20.5	18.9	3500		122	130	12.6	1.066	0.0371	41.3				100.0%
Kia	Truck	Truck SUV	2001	22.9	16.6	20.2	18.4	3500		122	130	12.6	1.066	0.0371	40.2				100.0%
Kia	Truck	Truck SUV	2002	23.3	16.8	20.3	18.6	3500		122	130	12.6	1.066	0.0371	40.8				100.0%
Kia	Truck	Truck SUV	2003	19.3	13.6	17.8	15.6	4500		213	192	11.3	0.901	0.0427	43.6				53.8%
Kia	Truck	Truck SUV	2004	19.9	14.0	18.0	16.0	4500		213	192	11.3	0.901	0.0427	44.9				52.7%
Kia	Truck	Truck SUV	2005	20.7	14.1	19.5	16.7	4428		206	189	11.3	0.926	0.0427	46.0				53.5%
Kia	Truck	Truck SUV	2006	21.1	14.3	19.8	17.0	4389		201	187	11.3	0.939	0.0427	46.4				53.4%
Kia	Truck	Truck SUV	2007	23.2	16.0	20.9	18.5	4245		194	216	10.1	1.104	0.0503	49.2				100.0%
Kia	Truck	Truck SUV	2008	23.4	16.0	21.3	18.7	4239		184	208	10.3	1.127	0.0488	49.5				100.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Kia	Truck	Van	2011		100.0%			100.0%					100.0%		100.0%			100.0%	
Kia	Truck	Van	2012		100.0%			100.0%					100.0%		100.0%			100.0%	
Kia	Truck	Truck SUV	1975																
Kia	Truck	Truck SUV	1976																
Kia	Truck	Truck SUV	1977																
Kia	Truck	Truck SUV	1978																
Kia	Truck	Truck SUV	1979																
Kia	Truck	Truck SUV	1980																
Kia	Truck	Truck SUV	1981																
Kia	Truck	Truck SUV	1982																
Kia	Truck	Truck SUV	1983																
Kia	Truck	Truck SUV	1984																
Kia	Truck	Truck SUV	1985																
Kia	Truck	Truck SUV	1986																
Kia	Truck	Truck SUV	1987																
Kia	Truck	Truck SUV	1988																
Kia	Truck	Truck SUV	1989																
Kia	Truck	Truck SUV	1990																
Kia	Truck	Truck SUV	1991																
Kia	Truck	Truck SUV	1992																
Kia	Truck	Truck SUV	1993																
Kia	Truck	Truck SUV	1994																
Kia	Truck	Truck SUV	1995	60.7%	39.3%			100.0%			47.9%		52.1%					100.0%	
Kia	Truck	Truck SUV	1996	28.9%	71.1%			100.0%					100.0%					100.0%	
Kia	Truck	Truck SUV	1997	37.2%	62.8%			100.0%					100.0%					100.0%	
Kia	Truck	Truck SUV	1998	27.6%	72.4%			100.0%					100.0%					100.0%	
Kia	Truck	Truck SUV	1999	27.3%	72.7%			100.0%					100.0%				100.0%		
Kia	Truck	Truck SUV	2000	25.2%	74.8%			100.0%					100.0%					100.0%	
Kia	Truck	Truck SUV	2001	20.4%	79.6%			100.0%					100.0%					100.0%	
Kia	Truck	Truck SUV	2002	26.0%	74.0%			100.0%					100.0%					100.0%	
Kia	Truck	Truck SUV	2003		100.0%			100.0%					100.0%					100.0%	
Kia	Truck	Truck SUV	2004	8.2%	91.8%			100.0%					100.0%					100.0%	
Kia	Truck	Truck SUV	2005	7.5%	92.5%			100.0%					100.0%					100.0%	
Kia	Truck	Truck SUV	2006	6.9%	93.1%			100.0%					100.0%		1.0%			100.0%	
Kia	Truck	Truck SUV	2007	3.5%	96.5%			100.0%					100.0%		3.5%			100.0%	
Kia	Truck	Truck SUV	2008	2.6%	97.4%			100.0%					100.0%		89.2%			100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Kia	Truck	Truck SUV	2009	24.3	16.7	22.0	19.4	4245		189	215	10.1	1.129	0.0502	51.7				100.0%
Kia	Truck	Truck SUV	2010	25.7	17.9	22.5	20.3	4000		164	173	11.2	1.050	0.0431	51.4				100.0%
Kia	Truck	Truck SUV	2011	N/A	19.8	26.0	22.9	4056		169	212	9.8	1.252	0.0518	N/A				100.0%
Kia	Truck	Truck SUV	2012	N/A	19.6	25.8	22.7	4018		163	210	9.8	1.290	0.0518	N/A				100.0%
Kia	Car	All	1975																
Kia	Car	All	1976																
Kia	Car	All	1977																
Kia	Car	All	1978																
Kia	Car	All	1979																
Kia	Car	All	1980																
Kia	Car	All	1981																
Kia	Car	All	1982																
Kia	Car	All	1983																
Kia	Car	All	1984																
Kia	Car	All	1985																
Kia	Car	All	1986																
Kia	Car	All	1987																
Kia	Car	All	1988																
Kia	Car	All	1989																
Kia	Car	All	1990																
Kia	Car	All	1991																
Kia	Car	All	1992																
Kia	Car	All	1993	31.7	23.4	29.5	26.1	2750	103.9	98	82	15.1	0.837	0.0298	43.6	3293	4527	100.0%	
Kia	Car	All	1994	32.9	24.4	30.0	26.9	2750	103.9	98	88	14.1	0.898	0.0320	45.3	3425	4710	100.0%	
Kia	Car	All	1995	30.9	22.2	29.3	25.4	2761	101.7	102	99	13.1	0.967	0.0358	42.8	3148	4347	100.0%	
Kia	Car	All	1996	28.6	20.5	26.9	23.4	2798	105.2	112	122	11.1	1.087	0.0436	40.1	3016	4221	93.6%	
Kia	Car	All	1997	29.1	20.9	27.1	23.7	2882	107.6	113	122	11.3	1.084	0.0428	42.1	3152	4527	82.4%	
Kia	Car	All	1998	29.5	20.8	27.9	24.0	2864	107.5	111	126	11.0	1.134	0.0442	42.3	3180	4547	84.8%	
Kia	Car	All	1999	29.3	20.5	27.5	23.7	2889	103.6	111	126	11.1	1.132	0.0439	42.3	3064	4383	81.4%	
Kia	Car	All	2000	27.9	19.4	26.2	22.6	2932	103.7	112	126	11.2	1.127	0.0434	40.9	2932	4244	75.8%	
Kia	Car	All	2001	28.9	20.1	26.5	23.2	2885	104.3	110	120	11.6	1.085	0.0415	41.7	3059	4352	85.1%	
Kia	Car	All	2002	28.4	19.7	25.9	22.7	3064	106.9	112	121	12.1	1.084	0.0392	43.6	3081	4668	86.5%	
Kia	Car	All	2003	30.1	20.3	28.2	24.0	3005	106.4	113	123	11.7	1.100	0.0409	45.2	3213	4813	100.0%	
Kia	Car	All	2004	28.9	19.2	27.4	23.1	3257	111.6	136	140	11.4	1.037	0.0426	47.1	3250	5257	100.0%	
Kia	Car	All	2005	28.9	19.1	27.3	23.0	3300	114.0	140	144	11.2	1.047	0.0434	47.6	3325	5436	100.0%	
Kia	Car	All	2006	31.4	20.8	29.2	24.9	3229	114.5	131	143	11.1	1.093	0.0440	50.9	3643	5827	100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Kia	Truck	Truck SUV	2009	2.0%	98.0%			100.0%					100.0%		24.7%			74.6%	25.4%
Kia	Truck	Truck SUV	2010	1.4%	98.6%			100.0%					100.0%		1.4%			100.0%	
Kia	Truck	Truck SUV	2011		100.0%		2.2%	97.8%					100.0%		100.0%			100.0%	
Kia	Truck	Truck SUV	2012	5.8%	94.2%		42.5%	57.5%					100.0%		100.0%			100.0%	
Kia	Car	All	1975																
Kia	Car	All	1976																
Kia	Car	All	1977																
Kia	Car	All	1978																
Kia	Car	All	1979																
Kia	Car	All	1980																
Kia	Car	All	1981																
Kia	Car	All	1982																
Kia	Car	All	1983																
Kia	Car	All	1984																
Kia	Car	All	1985																
Kia	Car	All	1986																
Kia	Car	All	1987																
Kia	Car	All	1988																
Kia	Car	All	1989																
Kia	Car	All	1990																
Kia	Car	All	1991																
Kia	Car	All	1992																
Kia	Car	All	1993		100.0%			100.0%					100.0%				100.0%		
Kia	Car	All	1994	48.1%	51.9%			100.0%					100.0%				100.0%		
Kia	Car	All	1995	36.8%	63.2%			100.0%			1.5%		98.5%				98.5%	1.5%	
Kia	Car	All	1996	33.8%	66.2%			100.0%					100.0%				93.6%	6.4%	
Kia	Car	All	1997	34.5%	65.5%			100.0%					100.0%				82.4%	17.6%	
Kia	Car	All	1998	24.0%	76.0%			100.0%					100.0%				84.8%	15.2%	
Kia	Car	All	1999	24.5%	75.5%			100.0%					100.0%				100.0%		
Kia	Car	All	2000	24.3%	75.7%			100.0%					100.0%				100.0%		
Kia	Car	All	2001	23.2%	76.8%			100.0%					100.0%				86.6%	13.4%	
Kia	Car	All	2002	19.9%	80.1%			100.0%					100.0%				84.8%	15.2%	
Kia	Car	All	2003	19.9%	80.1%			100.0%					100.0%				83.2%	16.8%	
Kia	Car	All	2004	13.3%	86.7%			100.0%					100.0%		40.1%		31.2%	57.3%	11.5%
Kia	Car	All	2005	11.8%	88.2%			100.0%					100.0%		53.5%		17.8%	66.8%	15.4%
Kia	Car	All	2006	12.3%	87.7%			100.0%					100.0%		87.1%		17.6%	78.3%	4.2%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Kia	Car	All	2007	30.7	20.6	28.2	24.3	3390	119.5	140	156	10.8	1.119	0.0456	52.3	3732	6244	91.3%	
Kia	Car	All	2008	30.9	20.6	28.3	24.4	3420	119.2	139	158	10.8	1.128	0.0455	52.9	3741	6309	88.1%	
Kia	Car	All	2009	32.6	21.9	29.3	25.6	3292	118.5	133	153	10.8	1.147	0.0458	53.8	3903	6365	91.6%	
Kia	Car	All	2010	35.8	24.1	31.7	27.9	3054	115.2	124	150	10.1	1.209	0.0492	54.8	4136	6303	100.0%	
Kia	Car	All	2011	N/A	22.8	30.6	26.7	3428	121.2	140	177	9.9	1.264	0.0513	N/A	N/A	N/A	98.5%	1.5%
Kia	Car	All	2012	N/A	23.7	31.2	27.5	3239	119.8	128	174	9.5	1.365	0.0535	N/A	N/A	N/A	100.0%	
Kia	Truck	All	1975																
Kia	Truck	All	1976																
Kia	Truck	All	1977																
Kia	Truck	All	1978																
Kia	Truck	All	1979																
Kia	Truck	All	1980																
Kia	Truck	All	1981																
Kia	Truck	All	1982																
Kia	Truck	All	1983																
Kia	Truck	All	1984																
Kia	Truck	All	1985																
Kia	Truck	All	1986																
Kia	Truck	All	1987																
Kia	Truck	All	1988																
Kia	Truck	All	1989																
Kia	Truck	All	1990																
Kia	Truck	All	1991																
Kia	Truck	All	1992																
Kia	Truck	All	1993																
Kia	Truck	All	1994																
Kia	Truck	All	1995	24.3	18.1	22.1	19.9	3500		122	110	14.4	0.903	0.0315	42.6				100.0%
Kia	Truck	All	1996	23.0	17.2	20.5	18.8	3500		122	130	12.6	1.066	0.0371	40.3				100.0%
Kia	Truck	All	1997	24.0	17.8	21.4	19.5	3500		122	130	12.6	1.066	0.0371	42.0				100.0%
Kia	Truck	All	1998	24.4	17.9	21.7	19.7	3500		122	130	12.6	1.066	0.0371	42.7				100.0%
Kia	Truck	All	1999	24.4	17.8	21.6	19.7	3500		122	130	12.6	1.066	0.0371	42.7				100.0%
Kia	Truck	All	2000	23.6	17.3	20.5	18.9	3500		122	130	12.6	1.066	0.0371	41.3				100.0%
Kia	Truck	All	2001	22.9	16.6	20.2	18.4	3500		122	130	12.6	1.066	0.0371	40.2				100.0%
Kia	Truck	All	2002	20.9	14.8	19.1	16.9	4532		185	173	12.4	0.956	0.0381	47.1			68.8%	31.2%
Kia	Truck	All	2003	19.7	13.8	18.2	15.9	4773		213	193	11.8	0.904	0.0404	47.1			54.6%	24.4%
Kia	Truck	All	2004	20.6	14.1	19.4	16.6	4764		213	194	11.7	0.909	0.0407	49.1			52.9%	24.9%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Kia	Car	All	2007	6.4%	93.6%			100.0%					100.0%		24.8%		14.3%	83.7%	2.0%
Kia	Car	All	2008	7.5%	92.5%			100.0%					100.0%		22.0%		15.8%	82.7%	1.5%
Kia	Car	All	2009	6.0%	94.0%			100.0%					100.0%		43.8%		21.0%	74.0%	5.0%
Kia	Car	All	2010	9.1%	90.9%			100.0%					100.0%		99.8%		85.3%	14.7%	0.0%
Kia	Car	All	2011	5.6%	93.5%		16.7%	83.3%					100.0%		100.0%	0.9%	33.0%	67.0%	0.0%
Kia	Car	All	2012	7.1%	92.4%		50.5%	49.5%					100.0%		100.0%	0.5%	49.7%	50.3%	
Kia	Truck	All	1975																
Kia	Truck	All	1976																
Kia	Truck	All	1977																
Kia	Truck	All	1978																
Kia	Truck	All	1979																
Kia	Truck	All	1980																
Kia	Truck	All	1981																
Kia	Truck	All	1982																
Kia	Truck	All	1983																
Kia	Truck	All	1984																
Kia	Truck	All	1985																
Kia	Truck	All	1986																
Kia	Truck	All	1987																
Kia	Truck	All	1988																
Kia	Truck	All	1989																
Kia	Truck	All	1990																
Kia	Truck	All	1991																
Kia	Truck	All	1992																
Kia	Truck	All	1993																
Kia	Truck	All	1994																
Kia	Truck	All	1995	60.7%	39.3%			100.0%			47.9%		52.1%					100.0%	
Kia	Truck	All	1996	28.9%	71.1%			100.0%					100.0%					100.0%	
Kia	Truck	All	1997	37.2%	62.8%			100.0%					100.0%					100.0%	
Kia	Truck	All	1998	27.6%	72.4%			100.0%					100.0%					100.0%	
Kia	Truck	All	1999	27.3%	72.7%			100.0%					100.0%				100.0%		
Kia	Truck	All	2000	25.2%	74.8%			100.0%					100.0%					100.0%	
Kia	Truck	All	2001	20.4%	79.6%			100.0%					100.0%					100.0%	
Kia	Truck	All	2002	8.1%	91.9%			100.0%					100.0%					100.0%	
Kia	Truck	All	2003		100.0%			100.0%					100.0%					100.0%	
Kia	Truck	All	2004	3.9%	96.1%			100.0%					100.0%					100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Kia	Truck	All	2005	21.0	14.1	20.1	17.0	4733		210	192	11.7	0.920	0.0407	49.9			53.3%	25.0%
Kia	Truck	All	2006	22.1	15.0	20.9	17.9	4436		214	211	10.5	0.989	0.0476	49.4			42.2%	30.9%
Kia	Truck	All	2007	23.6	15.9	22.1	18.9	4423		220	235	9.5	1.071	0.0530	52.2			69.8%	30.2%
Kia	Truck	All	2008	23.6	15.9	22.1	19.0	4393		212	229	9.7	1.085	0.0520	51.9			59.1%	40.9%
Kia	Truck	All	2009	24.1	16.4	22.3	19.3	4359		208	231	9.7	1.108	0.0526	52.5			44.5%	55.5%
Kia	Truck	All	2010	25.0	16.9	23.1	20.0	4362		213	229	9.7	1.070	0.0521	54.5			72.4%	27.6%
Kia	Truck	All	2011	N/A	19.5	25.7	22.6	4141		177	223	9.6	1.255	0.0534	N/A			19.0%	81.0%
Kia	Truck	All	2012	N/A	19.2	25.6	22.4	4133		175	224	9.5	1.284	0.0538	N/A			23.8%	76.2%
Kia	All	All	1975																
Kia	All	All	1976																
Kia	All	All	1977																
Kia	All	All	1978																
Kia	All	All	1979																
Kia	All	All	1980																
Kia	All	All	1981																
Kia	All	All	1982																
Kia	All	All	1983																
Kia	All	All	1984																
Kia	All	All	1985																
Kia	All	All	1986																
Kia	All	All	1987																
Kia	All	All	1988																
Kia	All	All	1989																
Kia	All	All	1990																
Kia	All	All	1991																
Kia	All	All	1992																
Kia	All	All	1993	31.7	23.4	29.5	26.1	2750	103.9	98	82	15.1	0.837	0.0298	43.6	3293	4527	100.0%	
Kia	All	All	1994	32.9	24.4	30.0	26.9	2750	103.9	98	88	14.1	0.898	0.0320	45.3	3425	4710	100.0%	
Kia	All	All	1995	28.3	20.7	26.4	23.3	3006		109	103	13.5	0.946	0.0344	42.7			66.9%	33.1%
Kia	All	All	1996	27.3	19.8	25.4	22.4	2932		114	123	11.4	1.083	0.0424	40.1			75.8%	19.1%
Kia	All	All	1997	27.8	20.1	25.6	22.7	3016		115	124	11.5	1.080	0.0415	42.1			64.5%	21.7%
Kia	All	All	1998	28.0	20.0	26.0	22.8	3024		114	127	11.4	1.117	0.0424	42.4			63.4%	25.2%
Kia	All	All	1999	27.8	19.7	25.6	22.5	3051		114	127	11.5	1.114	0.0421	42.4			59.9%	26.4%
Kia	All	All	2000	26.9	18.9	24.8	21.7	3048		114	127	11.5	1.115	0.0422	41.0			60.3%	20.4%
Kia	All	All	2001	27.9	19.5	25.4	22.4	2972		112	121	11.7	1.082	0.0409	41.5			73.0%	14.2%
Kia	All	All	2002	25.7	18.0	23.5	20.7	3483		132	136	12.2	1.048	0.0389	44.6			81.5%	8.9%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Kia	Truck	All	2005	3.5%	96.5%			100.0%					100.0%					100.0%	
Kia	Truck	All	2006	4.0%	96.0%			100.0%					100.0%		0.6%			100.0%	
Kia	Truck	All	2007	1.1%	98.9%			100.0%					100.0%		1.1%			100.0%	
Kia	Truck	All	2008	1.1%	98.9%			100.0%					100.0%		36.5%			100.0%	
Kia	Truck	All	2009	1.1%	98.9%			100.0%					100.0%		13.7%			85.9%	14.1%
Kia	Truck	All	2010	0.4%	99.6%			100.0%					100.0%		72.8%			100.0%	
Kia	Truck	All	2011		100.0%		1.8%	98.2%					100.0%		100.0%			100.0%	
Kia	Truck	All	2012	4.4%	95.6%		32.4%	67.6%					100.0%		100.0%			100.0%	
Kia	All	All	1975																
Kia	All	All	1976																
Kia	All	All	1977																
Kia	All	All	1978																
Kia	All	All	1979																
Kia	All	All	1980																
Kia	All	All	1981																
Kia	All	All	1982																
Kia	All	All	1983																
Kia	All	All	1984																
Kia	All	All	1985																
Kia	All	All	1986																
Kia	All	All	1987																
Kia	All	All	1988																
Kia	All	All	1989																
Kia	All	All	1990																
Kia	All	All	1991																
Kia	All	All	1992																
Kia	All	All	1993		100.0%			100.0%					100.0%				100.0%		
Kia	All	All	1994	48.1%	51.9%			100.0%					100.0%				100.0%		
Kia	All	All	1995	44.7%	55.3%			100.0%			16.9%		83.1%				65.9%	34.1%	
Kia	All	All	1996	32.9%	67.1%			100.0%					100.0%				75.8%	24.2%	
Kia	All	All	1997	35.1%	64.9%			100.0%					100.0%				64.5%	35.5%	
Kia	All	All	1998	24.9%	75.1%			100.0%					100.0%				63.4%	36.6%	
Kia	All	All	1999	25.3%	74.7%			100.0%					100.0%				100.0%		
Kia	All	All	2000	24.4%	75.6%			100.0%					100.0%				79.6%	20.4%	
Kia	All	All	2001	22.8%	77.2%			100.0%					100.0%				74.3%	25.7%	
Kia	All	All	2002	16.5%	83.5%			100.0%					100.0%				60.6%	39.4%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Kia	All	All	2003	24.8	17.0	23.1	19.9	3721		153	151	11.8	1.021	0.0407	45.9			81.6%	9.9%
Kia	All	All	2004	25.1	16.9	23.7	20.2	3822		165	160	11.5	0.989	0.0419	47.8			82.3%	9.3%
Kia	All	All	2005	24.4	16.3	23.2	19.6	4005		174	168	11.5	0.985	0.0421	48.7			77.0%	12.3%
Kia	All	All	2006	27.0	18.1	25.3	21.6	3698		163	169	10.8	1.052	0.0454	50.3			77.5%	12.0%
Kia	All	All	2007	28.3	19.0	26.1	22.5	3686		163	179	10.5	1.105	0.0477	52.3			85.2%	8.6%
Kia	All	All	2008	28.8	19.3	26.6	22.9	3647		156	175	10.6	1.118	0.0470	52.7			81.3%	9.6%
Kia	All	All	2009	30.7	20.7	27.8	24.2	3481		146	167	10.6	1.140	0.0470	53.5			83.2%	9.8%
Kia	All	All	2010	34.5	23.2	30.7	27.0	3169		132	157	10.1	1.197	0.0494	54.8			97.6%	2.4%
Kia	All	All	2011	N/A	22.1	29.5	25.8	3563		147	186	9.8	1.262	0.0517	N/A			83.4%	16.6%
Kia	All	All	2012	N/A	23.0	30.3	26.7	3359		134	180	9.5	1.354	0.0535	N/A			89.8%	10.2%
BMW	Car	Car	1975	17.2	13.4	16.7	14.7	3214		161	138	11.5	0.865	0.0423	28.4				
BMW	Car	Car	1976	18.4	14.5	17.4	15.6	3178		159	133	11.8	0.854	0.0414	29.2				
BMW	Car	Car	1977	19.8	15.5	19.0	16.9	3056	95.3	148	129	11.5	0.895	0.0420	30.5	1951	2905		
BMW	Car	Car	1978	19.2	14.7	19.0	16.4	3065	95.8	147	128	11.5	0.893	0.0416	29.5	1885	2821		
BMW	Car	Car	1979	19.5	15.0	19.3	16.7	3151	96.7	150	132	11.4	0.912	0.0419	30.8	1933	2982		
BMW	Car	Car	1980	25.0	19.6	23.7	21.3	3064	95.9	136	122	12.0	0.928	0.0394	38.8	2491	3715		
BMW	Car	Car	1981	25.6	20.1	24.2	21.8	3005	95.8	131	117	12.2	0.925	0.0387	38.9	2539	3725		
BMW	Car	Car	1982	25.4	19.9	24.0	21.6	2980	97.3	142	118	12.0	0.869	0.0395	38.4	2547	3727		
BMW	Car	Car	1983	25.3	19.8	24.1	21.6	3019	97.7	146	126	11.7	0.881	0.0413	38.5	2519	3756		
BMW	Car	Car	1984	27.0	20.9	26.2	23.0	2905	97.3	143	122	11.5	0.877	0.0417	39.3	2671	3824		
BMW	Car	Car	1985	25.4	19.4	25.3	21.7	3191	97.6	160	129	11.9	0.822	0.0402	40.8	2533	3986		
BMW	Car	Car	1986	25.0	18.9	24.9	21.2	3232	97.3	175	132	11.7	0.758	0.0409	40.7	2473	3957		
BMW	Car	Car	1987	23.9	18.0	23.9	20.3	3236	96.9	171	147	10.9	0.868	0.0455	39.1	2361	3789		
BMW	Car	Car	1988	21.3	15.9	21.1	18.0	3577	102.1	185	177	10.3	0.964	0.0492	38.4	2206	3914	1.9%	
BMW	Car	Car	1989	21.7	16.3	21.3	18.3	3494	99.0	176	184	9.6	1.068	0.0529	38.0	2164	3766		3.4%
BMW	Car	Car	1990	21.9	16.2	21.7	18.4	3584	101.6	179	187	9.6	1.064	0.0522	39.2	2229	3988		1.0%
BMW	Car	Car	1991	22.8	16.6	22.8	19.1	3557	98.7	164	183	9.9	1.146	0.0510	40.7	2291	4027		
BMW	Car	Car	1992	23.8	17.1	24.1	20.0	3638	97.2	156	186	9.8	1.204	0.0510	43.3	2324	4218		
BMW	Car	Car	1993	25.0	17.8	25.5	20.9	3630	99.0	161	195	9.5	1.221	0.0532	45.5	2494	4505		
BMW	Car	Car	1994	24.9	17.6	25.3	20.8	3653	97.5	164	198	9.6	1.218	0.0537	45.6	2439	4440		
BMW	Car	Car	1995	25.1	17.6	25.4	20.9	3756	99.3	167	203	9.6	1.226	0.0537	47.0	2497	4681		
BMW	Car	Car	1996	27.1	19.0	26.8	22.3	3453	87.9	161	181	9.8	1.141	0.0517	46.7	2366	4117		
BMW	Car	Car	1997	25.5	17.7	25.4	21.1	3572	92.7	182	202	9.2	1.125	0.0561	45.5	2356	4254		
BMW	Car	Car	1998	25.2	17.4	25.0	20.7	3595	92.6	184	205	9.1	1.124	0.0567	45.2	2326	4229		
BMW	Car	Car	1999	25.2	17.3	25.0	20.7	3663	94.9	178	199	9.4	1.116	0.0540	46.2	2398	4423		
BMW	Car	Car	2000	24.6	16.8	24.4	20.2	3678	94.2	180	199	9.5	1.108	0.0539	45.3	2330	4327		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Kia	All	All	2003	11.8%	88.2%			100.0%					100.0%				49.5%	50.5%	
Kia	All	All	2004	9.8%	90.2%			100.0%					100.0%		25.1%		19.5%	73.3%	7.2%
Kia	All	All	2005	7.7%	92.3%			100.0%					100.0%		27.2%		9.0%	83.1%	7.8%
Kia	All	All	2006	9.1%	90.9%			100.0%					100.0%		53.5%		10.7%	86.7%	2.6%
Kia	All	All	2007	4.9%	95.1%			100.0%					100.0%		18.0%		10.2%	88.3%	1.4%
Kia	All	All	2008	6.0%	94.0%			100.0%					100.0%		25.4%		12.1%	86.7%	1.2%
Kia	All	All	2009	5.1%	94.9%			100.0%					100.0%		38.5%		17.3%	76.1%	6.6%
Kia	All	All	2010	8.3%	91.7%			100.0%					100.0%		97.4%		77.8%	22.2%	0.0%
Kia	All	All	2011	4.6%	94.7%		13.9%	86.1%					100.0%		100.0%	0.7%	26.7%	73.3%	0.0%
Kia	All	All	2012	6.7%	92.8%		48.1%	51.9%					100.0%		100.0%	0.4%	43.0%	57.0%	
BMW	Car	Car	1975	57.8%				48.1%									100.0%		
BMW	Car	Car	1976	40.6%				41.7%									100.0%		
BMW	Car	Car	1977	67.7%				96.3%									100.0%		
BMW	Car	Car	1978	62.8%				97.0%									100.0%		
BMW	Car	Car	1979	67.5%				96.7%									100.0%		
BMW	Car	Car	1980	69.5%				97.7%									100.0%		
BMW	Car	Car	1981	71.0%				100.0%									98.2%	1.8%	
BMW	Car	Car	1982	62.8%				100.0%									97.6%	2.4%	
BMW	Car	Car	1983	63.3%				100.0%									99.5%	0.5%	
BMW	Car	Car	1984	64.9%				100.0%									99.2%	0.8%	
BMW	Car	Car	1985	52.0%	46.7%			97.0%		3.0%							99.0%	1.0%	0.0%
BMW	Car	Car	1986	49.8%	49.0%			98.8%		1.2%	100.0%						99.1%	0.8%	0.0%
BMW	Car	Car	1987	56.9%	42.1%			100.0%			100.0%						99.3%	0.7%	0.0%
BMW	Car	Car	1988	31.1%	67.7%			100.0%			93.3%		6.7%				69.7%	30.3%	0.0%
BMW	Car	Car	1989	26.2%	72.5%			100.0%			98.7%		1.3%				85.0%	15.0%	
BMW	Car	Car	1990	27.8%	71.4%			100.0%			98.6%		1.4%				80.5%	19.5%	
BMW	Car	Car	1991	41.3%	57.6%			100.0%			45.6%		54.4%		22.8%		87.7%	12.3%	
BMW	Car	Car	1992	33.9%	66.1%			100.0%			18.0%		82.0%		71.0%		95.1%	4.9%	
BMW	Car	Car	1993	29.6%	70.4%			100.0%			3.4%		96.6%		64.9%		85.1%	14.9%	0.0%
BMW	Car	Car	1994	25.5%	74.5%			100.0%			0.7%		99.3%		62.0%		87.9%	12.1%	0.0%
BMW	Car	Car	1995	27.4%	72.6%			100.0%			0.8%		99.2%		58.8%		84.6%	15.4%	0.0%
BMW	Car	Car	1996	37.9%	62.1%			100.0%			2.4%		97.6%		99.7%		89.1%	0.3%	10.6%
BMW	Car	Car	1997	30.9%	69.1%			100.0%			0.6%		99.4%		99.9%		86.4%	3.5%	10.1%
BMW	Car	Car	1998	32.0%	68.0%			100.0%			0.9%		99.1%		100.0%		84.8%	4.0%	11.1%
BMW	Car	Car	1999	33.0%	67.0%			100.0%			0.6%		99.4%		99.7%		92.1%	2.3%	5.6%
BMW	Car	Car	2000	28.6%	71.4%			100.0%			0.1%		99.9%		99.9%		89.9%	3.2%	7.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
BMW	Car	Car	2001	24.7	16.8	24.2	20.2	3730	95.9	185	221	8.8	1.206	0.0594	46.2	2377	4461		6.4%
BMW	Car	Car	2002	26.0	17.6	25.3	21.1	3680	97.3	174	218	9.0	1.255	0.0588	48.0	2551	4690	8.9%	8.3%
BMW	Car	Car	2003	26.6	17.8	25.7	21.5	3579	94.0	168	210	9.0	1.260	0.0581	47.6	2513	4513	14.8%	8.7%
BMW	Car	Car	2004	26.2	17.4	25.5	21.2	3594	96.9	171	215	8.9	1.262	0.0590	47.1	2555	4584	13.9%	7.9%
BMW	Car	Car	2005	26.9	17.8	25.9	21.6	3507	92.9	163	208	9.0	1.301	0.0584	47.3	2523	4406	28.2%	6.2%
BMW	Car	Car	2006	27.0	17.8	26.1	21.7	3621	100.0	185	230	8.5	1.256	0.0624	49.1	2725	4920	17.1%	
BMW	Car	Car	2007	27.5	18.1	26.7	22.2	3691	100.2	185	243	8.2	1.329	0.0649	51.1	2792	5122	14.6%	17.6%
BMW	Car	Car	2008	27.2	17.9	26.4	21.9	3787	101.6	185	256	8.1	1.393	0.0666	52.0	2804	5276	14.1%	19.3%
BMW	Car	Car	2009	28.4	18.7	27.4	22.8	3687	98.8	172	242	8.4	1.411	0.0645	53.0	2864	5220	22.4%	20.2%
BMW	Car	Car	2010	28.6	18.8	27.3	22.8	3697	100.0	169	248	8.3	1.469	0.0655	53.3	2905	5320	28.8%	23.7%
BMW	Car	Car	2011	29.1	19.1	28.0	23.3	3856	102.9	177	255	8.2	1.443	0.0652	56.8	3052	5867	14.1%	29.2%
BMW	Car	Car	2012	30.9	20.3	28.8	24.4	3839	100.8	161	269	8.2	1.658	0.0678	60.3	3209	6124	28.9%	16.2%
BMW	Car	Wagon	1975																
BMW	Car	Wagon	1976																
BMW	Car	Wagon	1977																
BMW	Car	Wagon	1978																
BMW	Car	Wagon	1979																
BMW	Car	Wagon	1980																
BMW	Car	Wagon	1981																
BMW	Car	Wagon	1982																
BMW	Car	Wagon	1983																
BMW	Car	Wagon	1984																
BMW	Car	Wagon	1985																
BMW	Car	Wagon	1986																
BMW	Car	Wagon	1987																
BMW	Car	Wagon	1988																
BMW	Car	Wagon	1989																
BMW	Car	Wagon	1990																
BMW	Car	Wagon	1991																
BMW	Car	Wagon	1992	23.2	16.6	23.8	19.5	4000	120.8	152	188	10.5	1.237	0.0470	46.4	2804	5608		
BMW	Car	Wagon	1993	24.3	17.3	24.5	20.3	4000	120.8	152	188	10.5	1.237	0.0470	48.5	2929	5859		
BMW	Car	Wagon	1994	23.5	16.4	24.5	19.7	4000	120.8	170	203	9.8	1.197	0.0509	47.0	2839	5679		
BMW	Car	Wagon	1995	24.4	17.3	24.3	20.2	4000	120.8	154	190	10.4	1.233	0.0474	48.8	2945	5890		
BMW	Car	Wagon	1996																
BMW	Car	Wagon	1997																
BMW	Car	Wagon	1998																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
BMW	Car	Car	2001	23.9%	76.1%			100.0%			0.4%		99.6%		99.9%		87.0%	4.2%	8.8%
BMW	Car	Car	2002	29.1%	69.3%	1.6%		100.0%			0.1%		99.9%		91.1%		90.5%	0.0%	9.5%
BMW	Car	Car	2003	25.8%	70.2%	4.0%		100.0%					100.0%		85.2%		90.5%		9.5%
BMW	Car	Car	2004	23.1%	72.7%	4.3%		100.0%					100.0%		86.1%		71.1%	21.7%	7.3%
BMW	Car	Car	2005	26.0%	66.4%	7.5%		100.0%					100.0%		71.8%		78.5%	17.1%	4.5%
BMW	Car	Car	2006	17.8%	78.3%	3.9%		100.0%					100.0%		83.1%		74.9%	15.8%	9.3%
BMW	Car	Car	2007	16.0%	83.4%	0.6%	7.9%	92.1%					100.0%		97.5%		74.2%	19.8%	6.0%
BMW	Car	Car	2008	15.0%	84.5%	0.5%	10.2%	89.8%					100.0%		98.0%		67.4%	27.8%	4.7%
BMW	Car	Car	2009	18.4%	81.6%		30.6%	68.7%		0.6%			100.0%		100.0%		82.7%	12.8%	4.6%
BMW	Car	Car	2010	14.0%	86.0%		36.4%	62.4%		1.2%			100.0%		98.8%		70.7%	22.7%	6.6%
BMW	Car	Car	2011	10.4%	85.5%		39.1%	58.7%		2.2%			100.0%		97.8%	0.2%	74.6%	20.1%	5.3%
BMW	Car	Car	2012	17.0%	78.7%		72.1%	27.9%					100.0%		100.0%	0.8%	68.3%	21.6%	10.1%
BMW	Car	Wagon	1975																
BMW	Car	Wagon	1976																
BMW	Car	Wagon	1977																
BMW	Car	Wagon	1978																
BMW	Car	Wagon	1979																
BMW	Car	Wagon	1980																
BMW	Car	Wagon	1981																
BMW	Car	Wagon	1982																
BMW	Car	Wagon	1983																
BMW	Car	Wagon	1984																
BMW	Car	Wagon	1985																
BMW	Car	Wagon	1986																
BMW	Car	Wagon	1987																
BMW	Car	Wagon	1988																
BMW	Car	Wagon	1989																
BMW	Car	Wagon	1990																
BMW	Car	Wagon	1991																
BMW	Car	Wagon	1992		100.0%			100.0%					100.0%		100.0%		100.0%		
BMW	Car	Wagon	1993		100.0%			100.0%					100.0%		100.0%		100.0%		
BMW	Car	Wagon	1994		100.0%			100.0%					100.0%		100.0%		100.0%		
BMW	Car	Wagon	1995		100.0%			100.0%					100.0%		100.0%		100.0%		
BMW	Car	Wagon	1996																
BMW	Car	Wagon	1997																
BMW	Car	Wagon	1998																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
BMW	Car	Wagon	1999	23.6	16.2	23.3	19.4	4000	128.3	189	208	9.8	1.105	0.0521	47.4	3040	6080		
BMW	Car	Wagon	2000	24.5	16.7	24.5	20.1	3751	122.3	169	187	10.1	1.106	0.0497	46.1	3007	5644		
BMW	Car	Wagon	2001	24.9	17.0	24.1	20.3	3844	121.6	159	190	10.1	1.202	0.0494	47.9	3033	5830		28.0%
BMW	Car	Wagon	2002	25.5	17.4	24.4	20.7	3862	121.2	160	191	10.1	1.200	0.0495	49.3	3098	5981		35.0%
BMW	Car	Wagon	2003	25.6	17.4	24.4	20.7	3826	120.1	158	189	10.1	1.202	0.0496	49.1	3083	5895		35.8%
BMW	Car	Wagon	2004	25.8	17.3	24.7	20.8	3756	116.3	152	184	10.1	1.211	0.0492	48.4	3003	5634		51.2%
BMW	Car	Wagon	2005	25.7	17.1	24.4	20.6	3821	116.3	152	184	10.1	1.211	0.0483	49.1	2990	5708		64.3%
BMW	Car	Wagon	2006	26.4	17.6	25.2	21.2	4000	128.0	183	215	9.3	1.175	0.0538	52.9	3385	6769		
BMW	Car	Wagon	2007	26.7	17.6	25.9	21.5	4000	122.2	183	230	8.8	1.257	0.0575	53.5	3266	6532		67.8%
BMW	Car	Wagon	2008	25.5	16.8	24.9	20.6	4290	127.2	183	271	8.3	1.478	0.0628	54.7	3244	6968		85.1%
BMW	Car	Wagon	2009	26.2	17.2	25.6	21.2	4125	121.8	183	247	8.6	1.352	0.0598	54.1	3194	6595		71.0%
BMW	Car	Wagon	2010	25.3	16.7	24.7	20.5	4331	128.5	183	285	8.0	1.556	0.0657	54.8	3254	7056		90.2%
BMW	Car	Wagon	2011	26.6	17.4	26.0	21.4	4000	117.7	183	258	8.1	1.410	0.0645	53.2	3128	6257		67.8%
BMW	Car	Wagon	2012	26.6	17.4	25.9	21.4	4000	117.7	183	258	8.1	1.410	0.0645	53.2	3131	6262		62.5%
BMW	Truck	Truck SUV	1975																
BMW	Truck	Truck SUV	1976																
BMW	Truck	Truck SUV	1977																
BMW	Truck	Truck SUV	1978																
BMW	Truck	Truck SUV	1979																
BMW	Truck	Truck SUV	1980																
BMW	Truck	Truck SUV	1981																
BMW	Truck	Truck SUV	1982																
BMW	Truck	Truck SUV	1983																
BMW	Truck	Truck SUV	1984																
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BMW	Truck	Truck SUV	1991																
BMW	Truck	Truck SUV	1992																
BMW	Truck	Truck SUV	1993																
BMW	Truck	Truck SUV	1994																
BMW	Truck	Truck SUV	1995																
BMW	Truck	Truck SUV	1996																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
BMW	Car	Wagon	1999	8.0%	92.0%			100.0%					100.0%		100.0%		100.0%		
BMW	Car	Wagon	2000	11.8%	88.2%			100.0%					100.0%		100.0%		100.0%		
BMW	Car	Wagon	2001	15.1%	84.9%			100.0%					100.0%		100.0%		100.0%		
BMW	Car	Wagon	2002	21.4%	78.6%			100.0%					100.0%		100.0%		100.0%		
BMW	Car	Wagon	2003	9.5%	90.5%			100.0%					100.0%		100.0%		100.0%		
BMW	Car	Wagon	2004	12.7%	87.3%			100.0%					100.0%		100.0%		100.0%		
BMW	Car	Wagon	2005	11.3%	88.7%			100.0%					100.0%		100.0%		100.0%		
BMW	Car	Wagon	2006	8.9%	91.1%			100.0%					100.0%		100.0%		36.4%	63.6%	
BMW	Car	Wagon	2007	9.1%	90.9%			100.0%					100.0%		100.0%		72.4%	27.6%	
BMW	Car	Wagon	2008	10.0%	90.0%			100.0%					100.0%		100.0%		42.1%	57.9%	
BMW	Car	Wagon	2009	8.4%	91.6%		24.9%	75.1%					100.0%		100.0%		75.1%	24.9%	
BMW	Car	Wagon	2010	10.0%	90.0%		66.1%	33.9%					100.0%		100.0%		33.9%	66.1%	
BMW	Car	Wagon	2011	16.5%	83.5%			100.0%					100.0%		100.0%		100.0%		
BMW	Car	Wagon	2012	13.5%	86.5%			100.0%					100.0%		100.0%		100.0%		
BMW	Truck	Truck SUV	1975																
BMW	Truck	Truck SUV	1976																
BMW	Truck	Truck SUV	1977																
BMW	Truck	Truck SUV	1978																
BMW	Truck	Truck SUV	1979																
BMW	Truck	Truck SUV	1980																
BMW	Truck	Truck SUV	1981																
BMW	Truck	Truck SUV	1982																
BMW	Truck	Truck SUV	1983																
BMW	Truck	Truck SUV	1984																
BMW	Truck	Truck SUV	1985																
BMW	Truck	Truck SUV	1986																
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BMW	Truck	Truck SUV	1988																
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BMW	Truck	Truck SUV	1990																
BMW	Truck	Truck SUV	1991																
BMW	Truck	Truck SUV	1992																
BMW	Truck	Truck SUV	1993																
BMW	Truck	Truck SUV	1994																
BMW	Truck	Truck SUV	1995																
BMW	Truck	Truck SUV	1996																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
BMW	Truck	Truck SUV	1997																
BMW	Truck	Truck SUV	1998																
BMW	Truck	Truck SUV	1999																
BMW	Truck	Truck SUV	2000	17.5	12.4	16.5	14.3	5000		268	282	9.0	1.052	0.0564	43.6				
BMW	Truck	Truck SUV	2001	19.2	13.5	18.1	15.7	4797		212	247	9.8	1.183	0.0514	46.1				100.0%
BMW	Truck	Truck SUV	2002	20.1	14.0	18.9	16.3	5000		203	243	10.3	1.211	0.0485	50.4				100.0%
BMW	Truck	Truck SUV	2003	20.0	13.9	18.7	16.2	5000		205	244	10.2	1.206	0.0488	50.2				100.0%
BMW	Truck	Truck SUV	2004	21.5	14.5	20.7	17.4	4508		185	228	10.0	1.231	0.0506	48.3				100.0%
BMW	Truck	Truck SUV	2005	21.3	14.3	20.4	17.2	4562		194	239	9.6	1.237	0.0526	48.4				100.0%
BMW	Truck	Truck SUV	2006	21.2	14.2	20.4	17.2	4543		196	242	9.5	1.239	0.0536	48.1				100.0%
BMW	Truck	Truck SUV	2007	23.4	15.8	22.0	18.8	4581		204	275	8.6	1.363	0.0603	53.5				100.0%
BMW	Truck	Truck SUV	2008	22.9	15.5	21.6	18.5	4753		204	278	8.8	1.383	0.0588	54.4				100.0%
BMW	Truck	Truck SUV	2009	22.7	15.3	21.4	18.3	4984		205	284	8.7	1.404	0.0571	56.9				100.0%
BMW	Truck	Truck SUV	2010	23.6	15.9	22.0	18.9	4935		199	292	8.3	1.460	0.0592	59.0				100.0%
BMW	Truck	Truck SUV	2011	25.3	17.0	23.9	20.3	4964		193	300	8.0	1.548	0.0604	63.4				100.0%
BMW	Truck	Truck SUV	2012	24.6	16.5	23.4	19.8	4947		197	306	8.3	1.553	0.0616	61.4				100.0%
BMW	Car	All	1975	17.2	13.4	16.7	14.7	3214		161	138	11.5	0.865	0.0423	28.4				
BMW	Car	All	1976	18.4	14.5	17.4	15.6	3178		159	133	11.8	0.854	0.0414	29.2				
BMW	Car	All	1977	19.8	15.5	19.0	16.9	3056	95.3	148	129	11.5	0.895	0.0420	30.5	1951	2905		
BMW	Car	All	1978	19.2	14.7	19.0	16.4	3065	95.8	147	128	11.5	0.893	0.0416	29.5	1885	2821		
BMW	Car	All	1979	19.5	15.0	19.3	16.7	3151	96.7	150	132	11.4	0.912	0.0419	30.8	1933	2982		
BMW	Car	All	1980	25.0	19.6	23.7	21.3	3064	95.9	136	122	12.0	0.928	0.0394	38.8	2491	3715		
BMW	Car	All	1981	25.6	20.1	24.2	21.8	3005	95.8	131	117	12.2	0.925	0.0387	38.9	2539	3725		
BMW	Car	All	1982	25.4	19.9	24.0	21.6	2980	97.3	142	118	12.0	0.869	0.0395	38.4	2547	3727		
BMW	Car	All	1983	25.3	19.8	24.1	21.6	3019	97.7	146	126	11.7	0.881	0.0413	38.5	2519	3756		
BMW	Car	All	1984	27.0	20.9	26.2	23.0	2905	97.3	143	122	11.5	0.877	0.0417	39.3	2671	3824		
BMW	Car	All	1985	25.4	19.4	25.3	21.7	3191	97.6	160	129	11.9	0.822	0.0402	40.8	2533	3986		
BMW	Car	All	1986	25.0	18.9	24.9	21.2	3232	97.3	175	132	11.7	0.758	0.0409	40.7	2473	3957		
BMW	Car	All	1987	23.9	18.0	23.9	20.3	3236	96.9	171	147	10.9	0.868	0.0455	39.1	2361	3789		
BMW	Car	All	1988	21.3	15.9	21.1	18.0	3577	102.1	185	177	10.3	0.964	0.0492	38.4	2206	3914	1.9%	
BMW	Car	All	1989	21.7	16.3	21.3	18.3	3494	99.0	176	184	9.6	1.068	0.0529	38.0	2164	3766		3.4%
BMW	Car	All	1990	21.9	16.2	21.7	18.4	3584	101.6	179	187	9.6	1.064	0.0522	39.2	2229	3988		1.0%
BMW	Car	All	1991	22.8	16.6	22.8	19.1	3557	98.7	164	183	9.9	1.146	0.0510	40.7	2291	4027		
BMW	Car	All	1992	23.8	17.1	24.1	19.9	3648	97.9	156	186	9.8	1.205	0.0509	43.4	2337	4256		
BMW	Car	All	1993	25.0	17.8	25.4	20.9	3640	99.5	161	194	9.6	1.221	0.0530	45.6	2505	4539		
BMW	Car	All	1994	24.9	17.5	25.3	20.8	3660	98.0	164	198	9.6	1.218	0.0536	45.6	2447	4465		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
BMW	Truck	Truck SUV	1997																
BMW	Truck	Truck SUV	1998																
BMW	Truck	Truck SUV	1999																
BMW	Truck	Truck SUV	2000		100.0%			100.0%					100.0%		100.0%				100.0%
BMW	Truck	Truck SUV	2001	4.1%	95.9%			100.0%					100.0%		100.0%				100.0%
BMW	Truck	Truck SUV	2002	2.0%	98.0%			100.0%					100.0%		100.0%				100.0%
BMW	Truck	Truck SUV	2003	1.6%	98.4%			100.0%					100.0%		100.0%				100.0%
BMW	Truck	Truck SUV	2004	8.7%	91.3%			100.0%					100.0%		100.0%			100.0%	
BMW	Truck	Truck SUV	2005	1.9%	98.1%			100.0%					100.0%		100.0%			83.7%	16.3%
BMW	Truck	Truck SUV	2006	1.2%	98.8%			100.0%					100.0%		100.0%			45.7%	54.3%
BMW	Truck	Truck SUV	2007	1.0%	99.0%			100.0%					100.0%		100.0%				100.0%
BMW	Truck	Truck SUV	2008	0.7%	99.3%		6.3%	93.7%					100.0%		100.0%				100.0%
BMW	Truck	Truck SUV	2009	0.2%	99.8%		12.9%	79.0%		8.1%			100.0%		100.0%				100.0%
BMW	Truck	Truck SUV	2010	0.5%	98.4%		14.5%	67.1%		18.4%			100.0%		81.6%	1.2%			100.0%
BMW	Truck	Truck SUV	2011		99.9%		60.2%	24.0%		15.9%			100.0%		84.1%	0.1%			100.0%
BMW	Truck	Truck SUV	2012		100.0%		65.3%	28.1%		6.5%			100.0%		93.5%				100.0%
BMW	Car	All	1975	57.8%				48.1%									100.0%		
BMW	Car	All	1976	40.6%				41.7%									100.0%		
BMW	Car	All	1977	67.7%				96.3%									100.0%		
BMW	Car	All	1978	62.8%				97.0%									100.0%		
BMW	Car	All	1979	67.5%				96.7%									100.0%		
BMW	Car	All	1980	69.5%				97.7%									100.0%		
BMW	Car	All	1981	71.0%				100.0%									98.2%	1.8%	
BMW	Car	All	1982	62.8%				100.0%									97.6%	2.4%	
BMW	Car	All	1983	63.3%				100.0%									99.5%	0.5%	
BMW	Car	All	1984	64.9%				100.0%									99.2%	0.8%	
BMW	Car	All	1985	52.0%	46.7%			97.0%		3.0%							99.0%	1.0%	0.0%
BMW	Car	All	1986	49.8%	49.0%			98.8%		1.2%	100.0%						99.1%	0.8%	0.0%
BMW	Car	All	1987	56.9%	42.1%			100.0%			100.0%						99.3%	0.7%	0.0%
BMW	Car	All	1988	31.1%	67.7%			100.0%			93.3%		6.7%				69.7%	30.3%	0.0%
BMW	Car	All	1989	26.2%	72.5%			100.0%			98.7%		1.3%				85.0%	15.0%	
BMW	Car	All	1990	27.8%	71.4%			100.0%			98.6%		1.4%				80.5%	19.5%	
BMW	Car	All	1991	41.3%	57.6%			100.0%			45.6%		54.4%		22.8%		87.7%	12.3%	
BMW	Car	All	1992	33.0%	67.0%			100.0%			17.5%		82.5%		71.8%		95.3%	4.7%	
BMW	Car	All	1993	28.9%	71.1%			100.0%			3.3%		96.7%		65.7%		85.5%	14.5%	0.0%
BMW	Car	All	1994	24.9%	75.1%			100.0%			0.6%		99.4%		62.8%		88.2%	11.8%	0.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
BMW	Car	All	1995	25.1	17.6	25.4	20.8	3760	99.7	167	203	9.6	1.226	0.0536	47.1	2505	4701		
BMW	Car	All	1996	27.1	19.0	26.8	22.3	3453	87.9	161	181	9.8	1.141	0.0517	46.7	2366	4117		
BMW	Car	All	1997	25.5	17.7	25.4	21.1	3572	92.7	182	202	9.2	1.125	0.0561	45.5	2356	4254		
BMW	Car	All	1998	25.2	17.4	25.0	20.7	3595	92.6	184	205	9.1	1.124	0.0567	45.2	2326	4229		
BMW	Car	All	1999	25.2	17.3	25.0	20.7	3676	96.2	179	199	9.5	1.115	0.0540	46.2	2422	4484		
BMW	Car	All	2000	24.6	16.8	24.4	20.2	3681	95.4	179	198	9.5	1.108	0.0537	45.3	2357	4380		
BMW	Car	All	2001	24.7	16.8	24.2	20.2	3734	96.7	184	220	8.8	1.206	0.0591	46.2	2399	4507		7.1%
BMW	Car	All	2002	26.0	17.6	25.2	21.1	3684	97.9	174	217	9.0	1.253	0.0585	48.0	2565	4724	8.7%	9.0%
BMW	Car	All	2003	26.5	17.8	25.7	21.5	3586	94.7	168	210	9.1	1.259	0.0579	47.6	2528	4548	14.4%	9.4%
BMW	Car	All	2004	26.2	17.4	25.5	21.2	3596	97.2	171	214	8.9	1.261	0.0589	47.2	2561	4597	13.7%	8.5%
BMW	Car	All	2005	26.9	17.8	25.8	21.6	3509	93.1	163	208	9.0	1.300	0.0583	47.3	2526	4415	28.0%	6.6%
BMW	Car	All	2006	27.0	17.8	26.1	21.7	3628	100.5	185	229	8.6	1.254	0.0623	49.2	2738	4955	16.7%	
BMW	Car	All	2007	27.5	18.1	26.7	22.1	3697	100.6	185	243	8.3	1.327	0.0647	51.2	2801	5150	14.3%	18.6%
BMW	Car	All	2008	27.2	17.8	26.4	21.9	3794	102.0	185	256	8.1	1.394	0.0666	52.0	2810	5300	13.9%	20.2%
BMW	Car	All	2009	28.4	18.7	27.4	22.8	3692	99.1	172	242	8.4	1.411	0.0644	53.0	2868	5236	22.1%	20.8%
BMW	Car	All	2010	28.5	18.8	27.3	22.8	3706	100.4	170	248	8.3	1.470	0.0655	53.3	2910	5344	28.4%	24.6%
BMW	Car	All	2011	29.1	19.1	28.0	23.3	3857	103.0	177	255	8.2	1.442	0.0652	56.7	3052	5870	14.0%	29.5%
BMW	Car	All	2012	30.9	20.3	28.7	24.4	3840	100.9	161	269	8.2	1.657	0.0678	60.3	3209	6125	28.7%	16.5%
BMW	Truck	All	1975																
BMW	Truck	All	1976																
BMW	Truck	All	1977																
BMW	Truck	All	1978																
BMW	Truck	All	1979																
BMW	Truck	All	1980																
BMW	Truck	All	1981																
BMW	Truck	All	1982																
BMW	Truck	All	1983																
BMW	Truck	All	1984																
BMW	Truck	All	1985																
BMW	Truck	All	1986																
BMW	Truck	All	1987																
BMW	Truck	All	1988																
BMW	Truck	All	1989																
BMW	Truck	All	1990																
BMW	Truck	All	1991																
BMW	Truck	All	1992																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
BMW	Car	All	1995	27.0%	73.0%			100.0%			0.8%		99.2%		59.5%		84.8%	15.2%	0.0%
BMW	Car	All	1996	37.9%	62.1%			100.0%			2.4%		97.6%		99.7%		89.1%	0.3%	10.6%
BMW	Car	All	1997	30.9%	69.1%			100.0%			0.6%		99.4%		99.9%		86.4%	3.5%	10.1%
BMW	Car	All	1998	32.0%	68.0%			100.0%			0.9%		99.1%		100.0%		84.8%	4.0%	11.1%
BMW	Car	All	1999	32.1%	67.9%			100.0%			0.6%		99.4%		99.7%		92.4%	2.2%	5.4%
BMW	Car	All	2000	27.9%	72.1%			100.0%			0.1%		99.9%		99.9%		90.3%	3.0%	6.7%
BMW	Car	All	2001	23.6%	76.4%			100.0%			0.4%		99.6%		99.9%		87.4%	4.1%	8.5%
BMW	Car	All	2002	28.9%	69.5%	1.6%		100.0%			0.1%		99.9%		91.3%		90.7%	0.0%	9.3%
BMW	Car	All	2003	25.4%	70.7%	3.9%		100.0%					100.0%		85.6%		90.7%		9.3%
BMW	Car	All	2004	22.9%	72.9%	4.2%		100.0%					100.0%		86.3%		71.4%	21.4%	7.2%
BMW	Car	All	2005	25.9%	66.6%	7.5%		100.0%					100.0%		72.0%		78.6%	17.0%	4.4%
BMW	Car	All	2006	17.6%	78.5%	3.9%		100.0%					100.0%		83.4%		74.1%	16.7%	9.1%
BMW	Car	All	2007	15.9%	83.5%	0.6%	7.8%	92.2%					100.0%		97.5%		74.2%	19.9%	5.9%
BMW	Car	All	2008	14.9%	84.5%	0.5%	10.0%	90.0%					100.0%		98.1%		67.1%	28.3%	4.7%
BMW	Car	All	2009	18.3%	81.7%		30.5%	68.8%		0.6%			100.0%		100.0%		82.6%	12.9%	4.5%
BMW	Car	All	2010	13.9%	86.1%		36.8%	62.0%		1.2%			100.0%		98.8%		70.2%	23.3%	6.5%
BMW	Car	All	2011	10.5%	85.5%		38.8%	59.0%		2.2%			100.0%		97.8%	0.2%	74.8%	20.0%	5.2%
BMW	Car	All	2012	17.0%	78.7%		71.7%	28.3%					100.0%		100.0%	0.8%	68.5%	21.4%	10.1%
BMW	Truck	All	1975																
BMW	Truck	All	1976																
BMW	Truck	All	1977																
BMW	Truck	All	1978																
BMW	Truck	All	1979																
BMW	Truck	All	1980																
BMW	Truck	All	1981																
BMW	Truck	All	1982																
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BMW	Truck	All	1986																
BMW	Truck	All	1987																
BMW	Truck	All	1988																
BMW	Truck	All	1989																
BMW	Truck	All	1990																
BMW	Truck	All	1991																
BMW	Truck	All	1992																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
BMW	Truck	All	1993																
BMW	Truck	All	1994																
BMW	Truck	All	1995																
BMW	Truck	All	1996																
BMW	Truck	All	1997																
BMW	Truck	All	1998																
BMW	Truck	All	1999																
BMW	Truck	All	2000	17.5	12.4	16.5	14.3	5000		268	282	9.0	1.052	0.0564	43.6				
BMW	Truck	All	2001	19.2	13.5	18.1	15.7	4797		212	247	9.8	1.183	0.0514	46.1				100.0%
BMW	Truck	All	2002	20.1	14.0	18.9	16.3	5000		203	243	10.3	1.211	0.0485	50.4				100.0%
BMW	Truck	All	2003	20.0	13.9	18.7	16.2	5000		205	244	10.2	1.206	0.0488	50.2				100.0%
BMW	Truck	All	2004	21.5	14.5	20.7	17.4	4508		185	228	10.0	1.231	0.0506	48.3				100.0%
BMW	Truck	All	2005	21.3	14.3	20.4	17.2	4562		194	239	9.6	1.237	0.0526	48.4				100.0%
BMW	Truck	All	2006	21.2	14.2	20.4	17.2	4543		196	242	9.5	1.239	0.0536	48.1				100.0%
BMW	Truck	All	2007	23.4	15.8	22.0	18.8	4581		204	275	8.6	1.363	0.0603	53.5				100.0%
BMW	Truck	All	2008	22.9	15.5	21.6	18.5	4753		204	278	8.8	1.383	0.0588	54.4				100.0%
BMW	Truck	All	2009	22.7	15.3	21.4	18.3	4984		205	284	8.7	1.404	0.0571	56.9				100.0%
BMW	Truck	All	2010	23.6	15.9	22.0	18.9	4935		199	292	8.3	1.460	0.0592	59.0				100.0%
BMW	Truck	All	2011	25.3	17.0	23.9	20.3	4964		193	300	8.0	1.548	0.0604	63.4				100.0%
BMW	Truck	All	2012	24.6	16.5	23.4	19.8	4947		197	306	8.3	1.553	0.0616	61.4				100.0%
BMW	All	All	1975	17.2	13.4	16.7	14.7	3214		161	138	11.5	0.865	0.0423	28.4				
BMW	All	All	1976	18.4	14.5	17.4	15.6	3178		159	133	11.8	0.854	0.0414	29.2				
BMW	All	All	1977	19.8	15.5	19.0	16.9	3056	95.3	148	129	11.5	0.895	0.0420	30.5	1951	2905		
BMW	All	All	1978	19.2	14.7	19.0	16.4	3065	95.8	147	128	11.5	0.893	0.0416	29.5	1885	2821		
BMW	All	All	1979	19.5	15.0	19.3	16.7	3151	96.7	150	132	11.4	0.912	0.0419	30.8	1933	2982		
BMW	All	All	1980	25.0	19.6	23.7	21.3	3064	95.9	136	122	12.0	0.928	0.0394	38.8	2491	3715		
BMW	All	All	1981	25.6	20.1	24.2	21.8	3005	95.8	131	117	12.2	0.925	0.0387	38.9	2539	3725		
BMW	All	All	1982	25.4	19.9	24.0	21.6	2980	97.3	142	118	12.0	0.869	0.0395	38.4	2547	3727		
BMW	All	All	1983	25.3	19.8	24.1	21.6	3019	97.7	146	126	11.7	0.881	0.0413	38.5	2519	3756		
BMW	All	All	1984	27.0	20.9	26.2	23.0	2905	97.3	143	122	11.5	0.877	0.0417	39.3	2671	3824		
BMW	All	All	1985	25.4	19.4	25.3	21.7	3191	97.6	160	129	11.9	0.822	0.0402	40.8	2533	3986		
BMW	All	All	1986	25.0	18.9	24.9	21.2	3232	97.3	175	132	11.7	0.758	0.0409	40.7	2473	3957		
BMW	All	All	1987	23.9	18.0	23.9	20.3	3236	96.9	171	147	10.9	0.868	0.0455	39.1	2361	3789		
BMW	All	All	1988	21.3	15.9	21.1	18.0	3577	102.1	185	177	10.3	0.964	0.0492	38.4	2206	3914	1.9%	
BMW	All	All	1989	21.7	16.3	21.3	18.3	3494	99.0	176	184	9.6	1.068	0.0529	38.0	2164	3766		3.4%
BMW	All	All	1990	21.9	16.2	21.7	18.4	3584	101.6	179	187	9.6	1.064	0.0522	39.2	2229	3988		1.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
BMW	Truck	All	1993																
BMW	Truck	All	1994																
BMW	Truck	All	1995																
BMW	Truck	All	1996																
BMW	Truck	All	1997																
BMW	Truck	All	1998																
BMW	Truck	All	1999																
BMW	Truck	All	2000		100.0%			100.0%					100.0%		100.0%				100.0%
BMW	Truck	All	2001	4.1%	95.9%			100.0%					100.0%		100.0%				100.0%
BMW	Truck	All	2002	2.0%	98.0%			100.0%					100.0%		100.0%				100.0%
BMW	Truck	All	2003	1.6%	98.4%			100.0%					100.0%		100.0%				100.0%
BMW	Truck	All	2004	8.7%	91.3%			100.0%					100.0%		100.0%			100.0%	
BMW	Truck	All	2005	1.9%	98.1%			100.0%					100.0%		100.0%			83.7%	16.3%
BMW	Truck	All	2006	1.2%	98.8%			100.0%					100.0%		100.0%			45.7%	54.3%
BMW	Truck	All	2007	1.0%	99.0%			100.0%					100.0%		100.0%				100.0%
BMW	Truck	All	2008	0.7%	99.3%		6.3%	93.7%					100.0%		100.0%				100.0%
BMW	Truck	All	2009	0.2%	99.8%		12.9%	79.0%		8.1%			100.0%		100.0%				100.0%
BMW	Truck	All	2010	0.5%	98.4%		14.5%	67.1%		18.4%			100.0%		81.6%	1.2%			100.0%
BMW	Truck	All	2011		99.9%		60.2%	24.0%		15.9%			100.0%		84.1%	0.1%			100.0%
BMW	Truck	All	2012		100.0%		65.3%	28.1%		6.5%			100.0%		93.5%				100.0%
BMW	All	All	1975	57.8%				48.1%									100.0%		
BMW	All	All	1976	40.6%				41.7%									100.0%		
BMW	All	All	1977	67.7%				96.3%									100.0%		
BMW	All	All	1978	62.8%				97.0%									100.0%		
BMW	All	All	1979	67.5%				96.7%									100.0%		
BMW	All	All	1980	69.5%				97.7%									100.0%		
BMW	All	All	1981	71.0%				100.0%									98.2%	1.8%	
BMW	All	All	1982	62.8%				100.0%									97.6%	2.4%	
BMW	All	All	1983	63.3%				100.0%									99.5%	0.5%	
BMW	All	All	1984	64.9%				100.0%									99.2%	0.8%	
BMW	All	All	1985	52.0%	46.7%			97.0%		3.0%							99.0%	1.0%	0.0%
BMW	All	All	1986	49.8%	49.0%			98.8%		1.2%	100.0%						99.1%	0.8%	0.0%
BMW	All	All	1987	56.9%	42.1%			100.0%			100.0%						99.3%	0.7%	0.0%
BMW	All	All	1988	31.1%	67.7%			100.0%			93.3%		6.7%				69.7%	30.3%	0.0%
BMW	All	All	1989	26.2%	72.5%			100.0%			98.7%		1.3%				85.0%	15.0%	
BMW	All	All	1990	27.8%	71.4%			100.0%			98.6%		1.4%				80.5%	19.5%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
BMW	All	All	1991	22.8	16.6	22.8	19.1	3557	98.7	164	183	9.9	1.146	0.0510	40.7	2291	4027		
BMW	All	All	1992	23.8	17.1	24.1	19.9	3648	97.9	156	186	9.8	1.205	0.0509	43.4	2337	4256		
BMW	All	All	1993	25.0	17.8	25.4	20.9	3640	99.5	161	194	9.6	1.221	0.0530	45.6	2505	4539		
BMW	All	All	1994	24.9	17.5	25.3	20.8	3660	98.0	164	198	9.6	1.218	0.0536	45.6	2447	4465		
BMW	All	All	1995	25.1	17.6	25.4	20.8	3760	99.7	167	203	9.6	1.226	0.0536	47.1	2505	4701		
BMW	All	All	1996	27.1	19.0	26.8	22.3	3453	87.9	161	181	9.8	1.141	0.0517	46.7	2366	4117		
BMW	All	All	1997	25.5	17.7	25.4	21.1	3572	92.7	182	202	9.2	1.125	0.0561	45.5	2356	4254		
BMW	All	All	1998	25.2	17.4	25.0	20.7	3595	92.6	184	205	9.1	1.124	0.0567	45.2	2326	4229		
BMW	All	All	1999	25.2	17.3	25.0	20.7	3676	96.2	179	199	9.5	1.115	0.0540	46.2	2422	4484		
BMW	All	All	2000	24.3	16.6	24.1	19.9	3721		182	201	9.5	1.107	0.0538	45.3				
BMW	All	All	2001	23.3	16.0	22.6	19.0	3959		190	226	9.0	1.201	0.0574	46.2				26.7%
BMW	All	All	2002	24.7	16.8	23.9	20.1	3911		179	222	9.2	1.246	0.0568	48.4			7.2%	24.7%
BMW	All	All	2003	25.2	17.0	24.2	20.4	3811		174	215	9.2	1.250	0.0565	48.1			12.1%	23.8%
BMW	All	All	2004	24.9	16.6	24.2	20.2	3807		174	217	9.2	1.254	0.0570	47.4			10.6%	29.6%
BMW	All	All	2005	25.1	16.7	24.0	20.2	3803		171	217	9.2	1.283	0.0567	47.6			20.2%	32.6%
BMW	All	All	2006	25.8	17.1	24.9	20.8	3779		187	231	8.7	1.252	0.0608	49.0			14.0%	16.5%
BMW	All	All	2007	26.7	17.6	25.7	21.5	3860		189	249	8.3	1.334	0.0639	51.6			11.7%	33.6%
BMW	All	All	2008	26.3	17.4	25.4	21.2	3961		188	260	8.3	1.392	0.0652	52.4			11.5%	34.1%
BMW	All	All	2009	27.3	18.0	26.2	21.9	3903		178	249	8.4	1.410	0.0632	53.6			18.5%	33.7%
BMW	All	All	2010	27.6	18.3	26.3	22.1	3899		174	255	8.3	1.468	0.0645	54.2			23.9%	36.5%
BMW	All	All	2011	28.4	18.7	27.2	22.7	4045		180	262	8.2	1.460	0.0644	57.9			11.6%	41.5%
BMW	All	All	2012	29.1	19.2	27.2	23.1	4109		170	278	8.2	1.632	0.0663	60.5			21.8%	36.8%
Subaru	Car	Car	1975	27.1	21.4	25.5	23.1	2250		83	58	16.5	0.699	0.0258	30.6			100.0%	
Subaru	Car	Car	1976	30.5	24.3	28.3	26.0	2307		87	61	16.3	0.696	0.0263	35.4			100.0%	
Subaru	Car	Car	1977	30.3	23.5	29.5	25.9	2250	83.0	97	65	15.1	0.674	0.0291	34.4	2540	2857	100.0%	
Subaru	Car	Car	1978	32.9	25.9	31.2	28.0	2250	82.0	97	67	14.8	0.691	0.0298	37.7	2745	3089	100.0%	
Subaru	Car	Car	1979	31.7	24.8	30.3	27.0	2275	82.9	97	67	15.0	0.691	0.0295	36.5	2664	3025	100.0%	
Subaru	Car	Car	1980	29.3	22.7	28.5	25.0	2330	89.5	99	69	14.9	0.692	0.0295	34.7	2682	3109	80.9%	19.1%
Subaru	Car	Car	1981	32.8	26.1	30.6	27.9	2307	89.4	105	70	14.6	0.664	0.0303	38.2	2971	3414	90.3%	9.7%
Subaru	Car	Car	1982	33.0	26.2	30.7	28.0	2439	89.4	107	70	15.2	0.659	0.0288	40.3	2964	3607	92.7%	7.3%
Subaru	Car	Car	1983	32.5	25.6	30.6	27.7	2464	89.4	108	73	15.0	0.675	0.0295	40.1	2915	3588	93.2%	6.8%
Subaru	Car	Car	1984	32.4	25.6	30.4	27.6	2477	89.4	107	73	15.0	0.681	0.0295	40.4	2922	3610	87.9%	12.1%
Subaru	Car	Car	1985	31.8	25.4	29.4	27.0	2501	89.7	108	84	13.6	0.774	0.0335	40.0	2875	3586	88.5%	11.5%
Subaru	Car	Car	1986	30.8	24.5	28.3	26.1	2618	95.3	108	90	13.4	0.830	0.0342	40.5	2957	3852	76.8%	23.2%
Subaru	Car	Car	1987	30.9	24.4	28.2	26.1	2605	95.8	104	89	13.5	0.855	0.0341	40.6	3014	3876	74.2%	25.8%
Subaru	Car	Car	1988	32.9	25.7	30.0	27.6	2456	92.8	101	87	13.2	0.864	0.0350	40.7	3132	3768	69.9%	30.1%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
BMW	All	All	1991	41.3%	57.6%			100.0%			45.6%		54.4%		22.8%		87.7%	12.3%	
BMW	All	All	1992	33.0%	67.0%			100.0%			17.5%		82.5%		71.8%		95.3%	4.7%	
BMW	All	All	1993	28.9%	71.1%			100.0%			3.3%		96.7%		65.7%		85.5%	14.5%	0.0%
BMW	All	All	1994	24.9%	75.1%			100.0%			0.6%		99.4%		62.8%		88.2%	11.8%	0.0%
BMW	All	All	1995	27.0%	73.0%			100.0%			0.8%		99.2%		59.5%		84.8%	15.2%	0.0%
BMW	All	All	1996	37.9%	62.1%			100.0%			2.4%		97.6%		99.7%		89.1%	0.3%	10.6%
BMW	All	All	1997	30.9%	69.1%			100.0%			0.6%		99.4%		99.9%		86.4%	3.5%	10.1%
BMW	All	All	1998	32.0%	68.0%			100.0%			0.9%		99.1%		100.0%		84.8%	4.0%	11.1%
BMW	All	All	1999	32.1%	67.9%			100.0%			0.6%		99.4%		99.7%		92.4%	2.2%	5.4%
BMW	All	All	2000	27.1%	72.9%			100.0%			0.1%		99.9%		99.9%		87.6%	2.9%	9.5%
BMW	All	All	2001	19.5%	80.5%			100.0%			0.3%		99.7%		100.0%		69.0%	3.2%	27.8%
BMW	All	All	2002	24.2%	74.4%	1.3%		100.0%			0.0%		100.0%		92.8%		75.1%	0.0%	24.9%
BMW	All	All	2003	21.6%	75.1%	3.2%		100.0%					100.0%		87.9%		76.3%		23.7%
BMW	All	All	2004	19.7%	77.1%	3.2%		100.0%					100.0%		89.4%		54.9%	39.6%	5.5%
BMW	All	All	2005	19.2%	75.4%	5.4%		100.0%					100.0%		79.8%		56.7%	35.6%	7.7%
BMW	All	All	2006	14.9%	81.9%	3.2%		100.0%					100.0%		86.1%		61.9%	21.5%	16.6%
BMW	All	All	2007	13.1%	86.4%	0.5%	6.3%	93.7%					100.0%		98.0%		60.5%	16.2%	23.3%
BMW	All	All	2008	12.4%	87.1%	0.4%	9.4%	90.6%					100.0%		98.4%		55.4%	23.3%	21.3%
BMW	All	All	2009	15.4%	84.6%		27.7%	70.5%		1.9%			100.0%		100.0%		69.1%	10.8%	20.1%
BMW	All	All	2010	11.8%	88.0%		33.3%	62.8%		3.9%			100.0%		96.1%	0.2%	59.2%	19.6%	21.2%
BMW	All	All	2011	8.7%	88.0%		42.4%	53.1%		4.5%			100.0%		95.5%	0.2%	62.1%	16.6%	21.4%
BMW	All	All	2012	12.9%	83.9%		70.2%	28.2%		1.6%			100.0%		98.4%	0.6%	51.8%	16.2%	31.9%
Subaru	Car	Car	1975	100.0%													100.0%		
Subaru	Car	Car	1976	69.0%													100.0%		
Subaru	Car	Car	1977	80.9%													100.0%		
Subaru	Car	Car	1978	72.5%													100.0%		
Subaru	Car	Car	1979	73.9%													100.0%		
Subaru	Car	Car	1980	80.4%													100.0%		
Subaru	Car	Car	1981	83.2%													100.0%		
Subaru	Car	Car	1982	76.8%													100.0%		
Subaru	Car	Car	1983	72.2%	27.8%												100.0%		
Subaru	Car	Car	1984	63.3%	36.7%			2.8%									100.0%		
Subaru	Car	Car	1985	61.1%	35.6%			28.1%									100.0%		
Subaru	Car	Car	1986	61.2%	31.0%			34.3%	20.4%		100.0%						100.0%		
Subaru	Car	Car	1987	54.0%	35.1%			27.4%	39.8%		88.6%	11.4%					100.0%		
Subaru	Car	Car	1988	63.1%	32.3%			22.1%	36.3%		65.6%	34.4%					100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Subaru	Car	Car	1989	32.7	25.7	29.3	27.3	2500	94.1	98	85	13.7	0.871	0.0338	41.2	3142	3869	86.9%	13.1%
Subaru	Car	Car	1990	28.8	21.9	27.0	24.1	2906	101.9	121	113	12.3	0.938	0.0387	41.8	2961	4260	61.3%	38.7%
Subaru	Car	Car	1991	28.9	21.8	27.0	24.0	2911	101.0	120	114	12.3	0.945	0.0388	42.0	2948	4245	20.0%	80.0%
Subaru	Car	Car	1992	27.9	20.7	26.3	23.2	3133	102.0	135	144	11.2	1.071	0.0458	43.5	2876	4437	57.6%	42.4%
Subaru	Car	Car	1993	29.8	22.0	27.9	24.6	2900	100.2	120	115	12.0	0.961	0.0397	43.1	2996	4325	49.8%	50.2%
Subaru	Car	Car	1994	29.0	20.9	27.4	23.8	2973	99.2	129	130	11.4	0.998	0.0430	43.0	2917	4270	73.2%	26.8%
Subaru	Car	Car	1995	28.9	20.9	27.4	23.8	3085	100.4	131	131	11.4	1.001	0.0424	44.6	2913	4484	27.1%	72.9%
Subaru	Car	Car	1996	28.3	20.3	26.7	23.2	3122	100.9	136	138	11.0	1.008	0.0441	44.1	2865	4455	0.5%	99.5%
Subaru	Car	Car	1997	28.9	20.6	27.3	23.6	3149	101.5	139	146	10.6	1.042	0.0461	45.5	2946	4620	4.2%	95.8%
Subaru	Car	Car	1998	28.4	20.2	26.2	23.0	3221	102.2	143	151	10.4	1.059	0.0470	45.6	2905	4667	0.1%	99.9%
Subaru	Car	Car	1999	28.0	19.8	26.0	22.7	3352	102.3	143	155	10.6	1.079	0.0463	46.9	2868	4811		100.0%
Subaru	Car	Car	2000	28.0	19.7	25.6	22.5	3342	101.1	149	163	10.1	1.096	0.0490	46.8	2831	4740		100.0%
Subaru	Car	Car	2001	27.9	19.6	25.4	22.4	3501	101.6	149	164	10.5	1.098	0.0473	48.9	2840	4982		100.0%
Subaru	Car	Car	2002	27.0	18.6	25.1	21.7	3539	100.4	138	201	9.1	1.500	0.0570	47.8	2713	4802		100.0%
Subaru	Car	Car	2003	27.2	18.6	25.3	21.8	3550	101.5	142	190	9.5	1.376	0.0538	48.3	2767	4911		100.0%
Subaru	Car	Car	2004	26.1	17.7	24.3	20.9	3524	100.4	142	218	8.7	1.560	0.0619	46.2	2633	4640		100.0%
Subaru	Car	Car	2005	26.6	17.9	24.8	21.3	3494	101.8	148	217	8.6	1.477	0.0619	46.9	2738	4779		100.0%
Subaru	Car	Car	2006	27.5	18.6	25.3	21.9	3500	101.1	150	208	8.9	1.389	0.0595	48.6	2809	4915		100.0%
Subaru	Car	Car	2007	28.1	19.0	25.5	22.2	3524	100.7	150	199	9.2	1.320	0.0563	49.7	2842	5006		100.0%
Subaru	Car	Car	2008	28.8	19.5	26.3	22.8	3532	105.3	151	181	9.8	1.201	0.0511	51.0	3041	5365		100.0%
Subaru	Car	Car	2009	29.0	19.6	26.4	23.0	3515	105.2	151	178	9.9	1.182	0.0506	51.1	3058	5371		100.0%
Subaru	Car	Car	2010	31.0	20.9	28.0	24.4	3528	114.1	157	181	9.9	1.152	0.0511	55.1	3574	6298		100.0%
Subaru	Car	Car	2011	31.0	20.8	28.1	24.4	3528	114.1	157	191	9.6	1.220	0.0541	55.1	3578	6304		100.0%
Subaru	Car	Car	2012	32.7	21.9	29.7	25.7	3458	114.6	151	184	9.7	1.221	0.0531	57.2	3805	6551		100.0%
Subaru	Car	Wagon	1975	25.5	20.1	23.9	21.7	2500		83	58	18.0	0.699	0.0232	32.0			100.0%	
Subaru	Car	Wagon	1976	28.0	22.7	25.3	23.8	2500		90	62	17.2	0.695	0.0249	35.1			100.0%	
Subaru	Car	Wagon	1977	29.9	23.6	28.1	25.5	2500	100.0	97	65	16.4	0.673	0.0261	37.7	3019	3773	100.0%	
Subaru	Car	Wagon	1978	27.5	21.5	26.3	23.4	2500	97.0	97	67	16.0	0.691	0.0268	34.4	2673	3341	100.0%	
Subaru	Car	Wagon	1979	28.1	22.1	26.7	23.9	2500	100.5	97	67	16.0	0.691	0.0268	35.2	2832	3541	30.2%	69.8%
Subaru	Car	Wagon	1980	26.7	20.5	26.3	22.8	2500	107.3	98	68	15.8	0.696	0.0273	33.4	2871	3589	45.5%	54.5%
Subaru	Car	Wagon	1981	29.7	23.8	27.4	25.3	2500	107.3	109	71	15.3	0.651	0.0284	37.3	3204	4005	53.7%	46.3%
Subaru	Car	Wagon	1982	30.5	24.3	28.3	26.0	2609	107.3	109	71	15.9	0.651	0.0273	40.0	3299	4288	55.6%	44.4%
Subaru	Car	Wagon	1983	30.2	23.9	28.3	25.7	2643	107.4	109	74	15.6	0.675	0.0279	40.1	3266	4303	47.5%	52.5%
Subaru	Car	Wagon	1984	29.9	23.6	28.0	25.4	2696	106.9	109	74	15.9	0.677	0.0274	40.4	3214	4322	44.0%	56.0%
Subaru	Car	Wagon	1985	29.6	23.4	27.7	25.1	2733	119.0	109	88	14.1	0.803	0.0320	40.6	3541	4826	42.2%	57.8%
Subaru	Car	Wagon	1986	29.2	23.0	27.1	24.7	2746	122.3	109	88	14.2	0.804	0.0319	40.2	3586	4915	39.4%	60.6%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Subaru	Car	Car	1989	35.0%	43.4%	19.7%		19.2%	39.2%		60.8%	39.2%					100.0%		
Subaru	Car	Car	1990	30.7%	63.1%	4.5%		76.2%	19.8%		20.0%	14.6%	65.4%				100.0%		
Subaru	Car	Car	1991	25.8%	64.9%	6.8%		76.7%	18.2%		21.5%	16.9%	61.7%				100.0%		
Subaru	Car	Car	1992	21.4%	70.2%	0.4%		76.8%	22.0%		31.5%	2.1%	66.3%				100.0%		
Subaru	Car	Car	1993	30.1%	68.3%	1.0%		87.4%	12.6%		12.6%	5.3%	82.1%				100.0%		
Subaru	Car	Car	1994	30.9%	69.1%			100.0%			43.4%	9.9%	46.6%				100.0%		
Subaru	Car	Car	1995	17.1%	82.9%			100.0%					100.0%				100.0%		
Subaru	Car	Car	1996	23.6%	76.4%			100.0%					100.0%				100.0%		
Subaru	Car	Car	1997	21.9%	78.1%			100.0%					100.0%				100.0%		
Subaru	Car	Car	1998	18.8%	81.2%			100.0%					100.0%				100.0%		
Subaru	Car	Car	1999	19.5%	80.5%			100.0%					100.0%				100.0%		
Subaru	Car	Car	2000	26.0%	74.0%			100.0%					100.0%				100.0%		
Subaru	Car	Car	2001	23.5%	76.5%			100.0%					100.0%				100.0%		
Subaru	Car	Car	2002	56.1%	43.9%			100.0%					100.0%				100.0%		
Subaru	Car	Car	2003	41.1%	58.9%			100.0%					100.0%				100.0%		
Subaru	Car	Car	2004	58.9%	41.1%			100.0%					100.0%		4.1%		100.0%		
Subaru	Car	Car	2005	44.7%	55.3%			100.0%					100.0%		53.4%		100.0%		
Subaru	Car	Car	2006	46.1%	53.9%			100.0%					100.0%		73.9%		100.0%		
Subaru	Car	Car	2007	39.3%	60.7%			100.0%					100.0%		56.0%		100.0%		
Subaru	Car	Car	2008	26.0%	74.0%			100.0%					100.0%		17.4%		100.0%		
Subaru	Car	Car	2009	18.3%	81.7%			100.0%					100.0%		47.1%		100.0%		
Subaru	Car	Car	2010	13.4%	28.9%	57.7%		100.0%					100.0%		100.0%		30.4%	69.6%	
Subaru	Car	Car	2011	17.9%	20.2%	61.9%		100.0%					100.0%		100.0%		29.9%	70.1%	
Subaru	Car	Car	2012	28.7%	8.4%	62.8%		100.0%					100.0%		100.0%		33.2%	66.8%	
Subaru	Car	Wagon	1975	77.2%													100.0%		
Subaru	Car	Wagon	1976	52.5%													100.0%		
Subaru	Car	Wagon	1977	84.9%													100.0%		
Subaru	Car	Wagon	1978	89.3%													100.0%		
Subaru	Car	Wagon	1979	91.9%													100.0%		
Subaru	Car	Wagon	1980	89.0%													100.0%		
Subaru	Car	Wagon	1981	90.3%													100.0%		
Subaru	Car	Wagon	1982	85.3%													100.0%		
Subaru	Car	Wagon	1983	71.9%	28.1%			2.8%									100.0%		
Subaru	Car	Wagon	1984	71.1%	28.9%			4.0%									100.0%		
Subaru	Car	Wagon	1985	64.7%	18.7%			23.9%									84.1%	15.9%	
Subaru	Car	Wagon	1986	65.0%	17.7%			15.6%	15.3%		100.0%						100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Subaru	Car	Wagon	1987	28.1	22.0	26.0	23.7	2855	122.3	109	90	14.3	0.829	0.0317	40.2	3448	4911	30.7%	69.3%
Subaru	Car	Wagon	1988	29.4	23.3	26.5	24.7	2844	122.3	109	94	13.8	0.863	0.0331	41.9	3613	5127	39.7%	60.3%
Subaru	Car	Wagon	1989	29.3	23.0	26.2	24.4	2866	119.2	109	93	14.0	0.853	0.0324	42.0	3503	5019	27.5%	72.5%
Subaru	Car	Wagon	1990	27.3	20.6	25.8	22.8	3252	126.7	127	119	12.8	0.929	0.0364	44.3	3465	5619	31.9%	68.1%
Subaru	Car	Wagon	1991	27.5	20.7	25.8	22.9	3267	126.5	126	116	13.1	0.916	0.0355	44.9	3491	5684	8.0%	92.0%
Subaru	Car	Wagon	1992	28.3	21.2	26.4	23.5	3255	126.2	125	151	11.3	1.241	0.0470	46.0	3579	5808	30.0%	70.0%
Subaru	Car	Wagon	1993	28.4	21.0	26.6	23.5	3237	123.1	125	119	12.8	0.950	0.0367	45.9	3500	5667	8.7%	91.3%
Subaru	Car	Wagon	1994	27.5	20.2	25.8	22.7	3360	126.1	129	124	12.7	0.955	0.0368	46.2	3476	5836	18.6%	81.4%
Subaru	Car	Wagon	1995	28.1	20.3	26.8	23.2	3289	128.7	134	133	11.7	0.999	0.0408	46.2	3620	5959	2.7%	97.3%
Subaru	Car	Wagon	1996	27.2	19.5	25.6	22.3	3399	130.0	141	143	11.4	1.013	0.0421	46.2	3539	6016	0.0%	100.0%
Subaru	Car	Wagon	1997	27.8	19.8	26.2	22.7	3368	128.1	144	153	10.7	1.064	0.0455	46.8	3561	6003	0.0%	100.0%
Subaru	Car	Wagon	1998	27.7	19.8	25.6	22.5	3398	129.1	145	156	10.7	1.072	0.0459	47.1	3581	6090	0.0%	100.0%
Subaru	Car	Wagon	1999	27.5	19.5	25.5	22.3	3408	128.8	145	158	10.6	1.084	0.0463	46.9	3548	6055		100.0%
Subaru	Car	Wagon	2000	28.0	19.8	25.5	22.5	3454	128.1	148	163	10.4	1.095	0.0471	48.3	3583	6197		100.0%
Subaru	Car	Wagon	2001	27.7	19.4	25.3	22.2	3838	129.3	155	172	10.9	1.108	0.0449	53.1	3578	6871		100.0%
Subaru	Car	Wagon	2002	27.3	19.0	24.9	21.9	3766	123.7	151	178	10.5	1.196	0.0476	51.5	3386	6398		100.0%
Subaru	Car	Wagon	2003	27.3	18.7	25.1	21.8	3824	127.2	153	176	10.7	1.154	0.0462	52.2	3477	6659		100.0%
Subaru	Car	Wagon	2004	27.4	18.6	25.2	21.8	3798	124.6	153	178	10.6	1.182	0.0472	52.0	3415	6505		100.0%
Subaru	Car	Wagon	2005	27.7	18.8	25.2	22.0	3615	127.6	153	189	9.7	1.237	0.0519	50.2	3556	6409		100.0%
Subaru	Car	Wagon	2006	28.2	19.2	25.6	22.4	3567	127.8	153	186	9.6	1.217	0.0521	50.4	3617	6440		100.0%
Subaru	Car	Wagon	2007	28.6	19.4	25.8	22.6	3536	125.3	151	181	9.7	1.194	0.0511	50.6	3588	6339		100.0%
Subaru	Car	Wagon	2008	28.7	19.4	26.0	22.7	3534	125.2	151	183	9.8	1.206	0.0516	50.7	3599	6356		100.0%
Subaru	Car	Wagon	2009	28.8	19.6	25.9	22.7	3519	124.4	151	179	9.9	1.188	0.0508	50.7	3585	6306		100.0%
Subaru	Car	Wagon	2010	28.6	19.5	25.5	22.5	3500	113.0	153	182	9.8	1.187	0.0519	50.1	3234	5660		100.0%
Subaru	Car	Wagon	2011	28.5	19.4	25.8	22.6	3500	113.4	153	202	9.3	1.319	0.0576	50.0	3241	5672		100.0%
Subaru	Car	Wagon	2012	38.2	25.5	33.8	29.6	3278	119.5	125	159	10.4	1.262	0.0484	63.3	4623	7568		100.0%
Subaru	Truck	Truck SUV	1975																
Subaru	Truck	Truck SUV	1976																
Subaru	Truck	Truck SUV	1977																
Subaru	Truck	Truck SUV	1978																
Subaru	Truck	Truck SUV	1979																
Subaru	Truck	Truck SUV	1980																
Subaru	Truck	Truck SUV	1981																
Subaru	Truck	Truck SUV	1982																
Subaru	Truck	Truck SUV	1983																
Subaru	Truck	Truck SUV	1984																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Subaru	Car	Wagon	1987	57.5%	18.6%			14.0%	34.4%		100.0%						100.0%		
Subaru	Car	Wagon	1988	58.1%	19.2%			16.2%	83.8%		100.0%						100.0%		
Subaru	Car	Wagon	1989	51.7%	25.0%			11.7%	88.3%		100.0%						39.2%	60.8%	
Subaru	Car	Wagon	1990	39.7%	54.0%			73.2%	26.8%		30.1%		69.9%				100.0%		
Subaru	Car	Wagon	1991	40.3%	53.0%			65.9%	34.1%		34.1%		65.9%				100.0%		
Subaru	Car	Wagon	1992	46.4%	50.9%			87.1%	12.9%		38.6%		61.4%				100.0%		
Subaru	Car	Wagon	1993	34.7%	62.4%			83.3%	16.7%		16.7%		83.3%				100.0%		
Subaru	Car	Wagon	1994	40.2%	57.2%			100.0%			73.6%		26.4%				100.0%		
Subaru	Car	Wagon	1995	31.9%	68.1%			100.0%					100.0%				13.3%	86.7%	
Subaru	Car	Wagon	1996	29.6%	70.4%			100.0%					100.0%				10.7%	89.3%	
Subaru	Car	Wagon	1997	26.9%	73.1%			100.0%					100.0%				19.5%	80.5%	
Subaru	Car	Wagon	1998	26.8%	73.2%			100.0%					100.0%				14.7%	85.3%	
Subaru	Car	Wagon	1999	26.7%	73.3%			100.0%					100.0%				16.2%	83.8%	
Subaru	Car	Wagon	2000	24.6%	75.4%			100.0%					100.0%				10.8%	89.2%	
Subaru	Car	Wagon	2001	17.8%	82.2%			100.0%					100.0%				4.7%	95.3%	
Subaru	Car	Wagon	2002	28.0%	72.0%			100.0%					100.0%				29.6%	70.4%	
Subaru	Car	Wagon	2003	19.7%	80.3%			100.0%					100.0%				13.6%	86.4%	
Subaru	Car	Wagon	2004	22.9%	77.1%			100.0%					100.0%		16.1%		25.6%	74.4%	
Subaru	Car	Wagon	2005	19.1%	80.9%			100.0%					100.0%		21.0%		14.8%	85.2%	
Subaru	Car	Wagon	2006	18.3%	81.7%			100.0%					100.0%		11.9%		24.1%	75.9%	
Subaru	Car	Wagon	2007	20.5%	79.5%			100.0%					100.0%		18.8%		25.8%	74.2%	
Subaru	Car	Wagon	2008	22.5%	77.5%			100.0%					100.0%		10.2%		33.6%	66.4%	
Subaru	Car	Wagon	2009	21.9%	78.1%			100.0%					100.0%		41.9%		38.0%	62.0%	
Subaru	Car	Wagon	2010	32.9%	67.1%			100.0%					100.0%		100.0%		100.0%		
Subaru	Car	Wagon	2011	42.2%	57.8%			100.0%					100.0%		100.0%		100.0%		
Subaru	Car	Wagon	2012	24.7%		75.3%		100.0%					100.0%		100.0%		100.0%		
Subaru	Truck	Truck SUV	1975																
Subaru	Truck	Truck SUV	1976																
Subaru	Truck	Truck SUV	1977																
Subaru	Truck	Truck SUV	1978																
Subaru	Truck	Truck SUV	1979																
Subaru	Truck	Truck SUV	1980																
Subaru	Truck	Truck SUV	1981																
Subaru	Truck	Truck SUV	1982																
Subaru	Truck	Truck SUV	1983																
Subaru	Truck	Truck SUV	1984																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Subaru	Truck	Truck SUV	1985																
Subaru	Truck	Truck SUV	1986																
Subaru	Truck	Truck SUV	1987																
Subaru	Truck	Truck SUV	1988																
Subaru	Truck	Truck SUV	1989																
Subaru	Truck	Truck SUV	1990																
Subaru	Truck	Truck SUV	1991																
Subaru	Truck	Truck SUV	1992																
Subaru	Truck	Truck SUV	1993																
Subaru	Truck	Truck SUV	1994																
Subaru	Truck	Truck SUV	1995																
Subaru	Truck	Truck SUV	1996																
Subaru	Truck	Truck SUV	1997																
Subaru	Truck	Truck SUV	1998	26.8	19.2	24.7	21.8	3500		150	165	10.4	1.100	0.0471	46.9				100.0%
Subaru	Truck	Truck SUV	1999	27.0	19.3	24.5	21.8	3500		150	165	10.4	1.100	0.0471	47.3				100.0%
Subaru	Truck	Truck SUV	2000	27.8	19.7	25.4	22.4	3500		150	165	10.4	1.100	0.0471	48.7				100.0%
Subaru	Truck	Truck SUV	2001	27.9	19.7	25.0	22.3	3500		150	165	10.4	1.100	0.0471	48.8				100.0%
Subaru	Truck	Truck SUV	2002	28.0	19.5	25.2	22.3	3500		150	165	10.4	1.100	0.0471	48.9				100.0%
Subaru	Truck	Truck SUV	2003	27.5	19.1	24.7	21.9	3500		150	165	10.4	1.100	0.0471	48.2				100.0%
Subaru	Truck	Truck SUV	2004	27.1	18.7	24.5	21.6	3500		150	173	10.1	1.153	0.0494	47.7				100.0%
Subaru	Truck	Truck SUV	2005	28.6	19.5	25.6	22.6	3500		150	170	10.2	1.134	0.0486	50.2				100.0%
Subaru	Truck	Truck SUV	2006	26.4	18.1	23.7	20.9	3856		162	203	9.6	1.243	0.0522	50.9				100.0%
Subaru	Truck	Truck SUV	2007	27.3	18.7	24.4	21.6	3708		157	191	9.7	1.213	0.0514	50.6				100.0%
Subaru	Truck	Truck SUV	2008	26.4	18.1	23.7	20.9	3882		178	206	9.6	1.161	0.0526	51.2				100.0%
Subaru	Truck	Truck SUV	2009	28.4	19.4	25.3	22.4	3571		155	179	10.0	1.152	0.0499	50.7				100.0%
Subaru	Truck	Truck SUV	2010	29.6	20.1	26.4	23.3	3694		157	176	10.4	1.123	0.0477	54.9				100.0%
Subaru	Truck	Truck SUV	2011	30.4	20.6	27.2	23.9	3815		160	181	10.5	1.128	0.0475	58.3				100.0%
Subaru	Truck	Truck SUV	2012	30.5	20.7	27.1	24.0	3769		158	177	10.5	1.121	0.0470	57.7				100.0%
Subaru	Truck	Pickup	1975																
Subaru	Truck	Pickup	1976																
Subaru	Truck	Pickup	1977																
Subaru	Truck	Pickup	1978	27.2	21.2	26.3	23.2	2500		97	67	16.0	0.691	0.0268	34.2				100.0%
Subaru	Truck	Pickup	1979	27.5	21.7	26.1	23.5	2500		97	67	16.0	0.691	0.0268	34.5				100.0%
Subaru	Truck	Pickup	1980	26.0	20.1	25.5	22.2	2500		97	67	16.0	0.691	0.0268	32.5				100.0%
Subaru	Truck	Pickup	1981	28.4	22.8	26.0	24.1	2500		109	71	15.3	0.651	0.0284	35.5				100.0%
Subaru	Truck	Pickup	1982	29.8	24.1	27.0	25.3	2500		109	74	14.8	0.683	0.0298	37.3				100.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Subaru	Truck	Truck SUV	1985																
Subaru	Truck	Truck SUV	1986																
Subaru	Truck	Truck SUV	1987																
Subaru	Truck	Truck SUV	1988																
Subaru	Truck	Truck SUV	1989																
Subaru	Truck	Truck SUV	1990																
Subaru	Truck	Truck SUV	1991																
Subaru	Truck	Truck SUV	1992																
Subaru	Truck	Truck SUV	1993																
Subaru	Truck	Truck SUV	1994																
Subaru	Truck	Truck SUV	1995																
Subaru	Truck	Truck SUV	1996																
Subaru	Truck	Truck SUV	1997																
Subaru	Truck	Truck SUV	1998	24.8%	75.2%			100.0%					100.0%				100.0%		
Subaru	Truck	Truck SUV	1999	23.3%	76.7%			100.0%					100.0%				100.0%		
Subaru	Truck	Truck SUV	2000	23.7%	76.3%			100.0%					100.0%				100.0%		
Subaru	Truck	Truck SUV	2001	20.1%	79.9%			100.0%					100.0%				100.0%		
Subaru	Truck	Truck SUV	2002	17.8%	82.2%			100.0%					100.0%				100.0%		
Subaru	Truck	Truck SUV	2003	16.7%	83.3%			100.0%					100.0%				100.0%		
Subaru	Truck	Truck SUV	2004	17.2%	82.8%			100.0%					100.0%				100.0%		
Subaru	Truck	Truck SUV	2005	17.0%	83.0%			100.0%					100.0%				100.0%		
Subaru	Truck	Truck SUV	2006	8.6%	91.4%			100.0%					100.0%		39.4%		64.4%	35.6%	
Subaru	Truck	Truck SUV	2007	11.2%	88.8%			100.0%					100.0%		24.8%		79.2%	20.8%	
Subaru	Truck	Truck SUV	2008	7.9%	92.1%			100.0%					100.0%		40.7%		61.8%	38.2%	
Subaru	Truck	Truck SUV	2009	9.3%	90.7%			100.0%					100.0%		11.8%			100.0%	
Subaru	Truck	Truck SUV	2010	7.6%	60.1%	32.3%		100.0%					100.0%		100.0%			100.0%	
Subaru	Truck	Truck SUV	2011	4.7%	44.5%	50.7%		100.0%					100.0%		100.0%			100.0%	
Subaru	Truck	Truck SUV	2012	7.7%	47.1%	45.3%		100.0%					100.0%		100.0%			100.0%	
Subaru	Truck	Pickup	1975																
Subaru	Truck	Pickup	1976																
Subaru	Truck	Pickup	1977																
Subaru	Truck	Pickup	1978	100.0%													100.0%		
Subaru	Truck	Pickup	1979	100.0%													100.0%		
Subaru	Truck	Pickup	1980	100.0%													100.0%		
Subaru	Truck	Pickup	1981	100.0%													100.0%		
Subaru	Truck	Pickup	1982	100.0%													100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Subaru	Truck	Pickup	1983	29.5	23.6	27.2	25.1	2513		109	74	15.0	0.680	0.0295	37.2				100.0%
Subaru	Truck	Pickup	1984	29.7	23.6	27.7	25.3	2514		109	74	14.9	0.681	0.0295	37.4				100.0%
Subaru	Truck	Pickup	1985	29.6	23.5	27.4	25.2	2500		109	73	15.0	0.670	0.0292	37.0				100.0%
Subaru	Truck	Pickup	1986	30.0	23.6	27.9	25.4	2500		109	73	15.0	0.670	0.0292	37.5				100.0%
Subaru	Truck	Pickup	1987	29.8	23.4	27.5	25.1	2500		109	73	15.0	0.670	0.0292	37.2				100.0%
Subaru	Truck	Pickup	1988																
Subaru	Truck	Pickup	1989																
Subaru	Truck	Pickup	1990																
Subaru	Truck	Pickup	1991																
Subaru	Truck	Pickup	1992																
Subaru	Truck	Pickup	1993																
Subaru	Truck	Pickup	1994																
Subaru	Truck	Pickup	1995																
Subaru	Truck	Pickup	1996																
Subaru	Truck	Pickup	1997																
Subaru	Truck	Pickup	1998																
Subaru	Truck	Pickup	1999																
Subaru	Truck	Pickup	2000																
Subaru	Truck	Pickup	2001																
Subaru	Truck	Pickup	2002																
Subaru	Truck	Pickup	2003	26.3	18.3	23.8	21.0	3859		150	165	11.2	1.100	0.0429	50.9				100.0%
Subaru	Truck	Pickup	2004	25.4	17.4	23.3	20.3	4000		150	187	10.6	1.247	0.0468	51.3				100.0%
Subaru	Truck	Pickup	2005	25.8	17.6	23.5	20.5	4000		150	184	10.7	1.229	0.0461	52.0				100.0%
Subaru	Truck	Pickup	2006	26.9	18.3	24.3	21.3	3921		150	178	10.8	1.187	0.0455	52.9				100.0%
Subaru	Truck	Pickup	2007																
Subaru	Truck	Pickup	2008																
Subaru	Truck	Pickup	2009																
Subaru	Truck	Pickup	2010																
Subaru	Truck	Pickup	2011																
Subaru	Truck	Pickup	2012																
Subaru	Car	All	1975	26.5	20.9	24.9	22.5	2346		83	58	17.1	0.699	0.0248	31.2			100.0%	
Subaru	Car	All	1976	29.7	23.8	27.3	25.3	2366		88	61	16.6	0.696	0.0259	35.3			100.0%	
Subaru	Car	All	1977	30.2	23.5	28.9	25.7	2353	90.0	97	65	15.6	0.674	0.0278	35.8	2737	3235	100.0%	
Subaru	Car	All	1978	29.9	23.5	28.5	25.5	2376	89.6	97	67	15.4	0.691	0.0283	36.0	2709	3216	100.0%	
Subaru	Car	All	1979	29.5	23.2	28.1	25.2	2404	93.0	97	67	15.6	0.691	0.0279	35.8	2761	3320	60.0%	40.0%
Subaru	Car	All	1980	28.1	21.7	27.6	24.0	2402	97.0	99	69	15.3	0.694	0.0286	34.2	2761	3310	66.0%	34.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Subaru	Truck	Pickup	1983	75.4%	24.6%				5.2%								100.0%		
Subaru	Truck	Pickup	1984	82.1%	17.9%			5.8%									100.0%		
Subaru	Truck	Pickup	1985	95.6%	4.4%												100.0%		
Subaru	Truck	Pickup	1986	100.0%													100.0%		
Subaru	Truck	Pickup	1987	100.0%													100.0%		
Subaru	Truck	Pickup	1988																
Subaru	Truck	Pickup	1989																
Subaru	Truck	Pickup	1990																
Subaru	Truck	Pickup	1991																
Subaru	Truck	Pickup	1992																
Subaru	Truck	Pickup	1993																
Subaru	Truck	Pickup	1994																
Subaru	Truck	Pickup	1995																
Subaru	Truck	Pickup	1996																
Subaru	Truck	Pickup	1997																
Subaru	Truck	Pickup	1998																
Subaru	Truck	Pickup	1999																
Subaru	Truck	Pickup	2000																
Subaru	Truck	Pickup	2001																
Subaru	Truck	Pickup	2002																
Subaru	Truck	Pickup	2003	28.3%	71.7%			100.0%					100.0%				100.0%		
Subaru	Truck	Pickup	2004	21.6%	78.4%			100.0%					100.0%				100.0%		
Subaru	Truck	Pickup	2005	20.6%	79.4%			100.0%					100.0%				100.0%		
Subaru	Truck	Pickup	2006	21.4%	78.6%			100.0%					100.0%				100.0%		
Subaru	Truck	Pickup	2007																
Subaru	Truck	Pickup	2008																
Subaru	Truck	Pickup	2009																
Subaru	Truck	Pickup	2010																
Subaru	Truck	Pickup	2011																
Subaru	Truck	Pickup	2012																
Subaru	Car	All	1975	91.3%													100.0%		
Subaru	Car	All	1976	63.9%													100.0%		
Subaru	Car	All	1977	82.5%													100.0%		
Subaru	Car	All	1978	81.0%													100.0%		
Subaru	Car	All	1979	84.2%													100.0%		
Subaru	Car	All	1980	84.0%													100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Subaru	Car	All	1981	31.3	24.9	28.9	26.6	2400	98.0	107	70	15.0	0.658	0.0294	37.8	3083	3698	72.7%	27.3%
Subaru	Car	All	1982	31.7	25.2	29.4	26.9	2526	98.6	108	71	15.5	0.655	0.0280	40.1	3136	3957	73.6%	26.4%
Subaru	Car	All	1983	31.3	24.7	29.4	26.6	2557	98.8	108	73	15.3	0.675	0.0286	40.1	3098	3960	69.4%	30.6%
Subaru	Car	All	1984	31.1	24.6	29.2	26.5	2583	97.9	108	73	15.4	0.679	0.0285	40.4	3063	3954	66.7%	33.3%
Subaru	Car	All	1985	30.5	24.2	28.4	25.9	2632	106.3	109	86	13.9	0.791	0.0327	40.3	3251	4287	62.3%	37.7%
Subaru	Car	All	1986	30.1	23.9	27.8	25.5	2672	106.7	108	89	13.7	0.819	0.0332	40.4	3222	4300	61.0%	39.0%
Subaru	Car	All	1987	29.5	23.2	27.1	24.8	2727	108.7	107	90	13.9	0.842	0.0329	40.4	3226	4383	52.9%	47.1%
Subaru	Car	All	1988	31.4	24.7	28.5	26.3	2613	104.7	104	90	13.4	0.863	0.0342	41.2	3326	4317	57.7%	42.3%
Subaru	Car	All	1989	31.5	24.7	28.2	26.3	2621	102.4	102	88	13.8	0.865	0.0334	41.5	3262	4250	67.2%	32.8%
Subaru	Car	All	1990	28.0	21.2	26.4	23.4	3080	114.4	124	116	12.5	0.933	0.0376	43.1	3215	4943	46.5%	53.5%
Subaru	Car	All	1991	28.2	21.2	26.4	23.5	3079	113.0	123	115	12.7	0.932	0.0372	43.4	3203	4922	14.3%	85.7%
Subaru	Car	All	1992	28.1	20.9	26.3	23.3	3188	112.9	131	147	11.2	1.148	0.0463	44.7	3194	5057	45.1%	54.9%
Subaru	Car	All	1993	29.2	21.6	27.4	24.1	3037	109.6	122	117	12.3	0.957	0.0385	44.3	3202	4872	33.1%	66.9%
Subaru	Car	All	1994	28.2	20.5	26.6	23.2	3172	113.0	129	127	12.1	0.976	0.0398	44.7	3205	5077	45.0%	55.0%
Subaru	Car	All	1995	28.5	20.6	27.1	23.4	3193	115.5	132	132	11.6	1.000	0.0416	45.5	3289	5269	14.1%	85.9%
Subaru	Car	All	1996	27.4	19.7	25.9	22.5	3333	123.1	140	142	11.3	1.012	0.0426	45.7	3379	5647	0.2%	99.8%
Subaru	Car	All	1997	28.0	19.9	26.4	22.9	3325	122.8	143	152	10.7	1.060	0.0456	46.5	3439	5728	0.9%	99.1%
Subaru	Car	All	1998	27.8	19.9	25.7	22.6	3363	123.8	145	155	10.6	1.069	0.0461	46.8	3446	5806	0.0%	100.0%
Subaru	Car	All	1999	27.6	19.5	25.6	22.4	3396	123.5	145	157	10.6	1.083	0.0463	46.9	3410	5803		100.0%
Subaru	Car	All	2000	28.0	19.8	25.5	22.5	3431	122.5	148	163	10.4	1.095	0.0475	48.0	3426	5893		100.0%
Subaru	Car	All	2001	27.7	19.4	25.3	22.3	3776	124.2	154	170	10.8	1.106	0.0453	52.3	3443	6525		100.0%
Subaru	Car	All	2002	27.2	18.9	25.0	21.8	3698	116.8	147	185	10.1	1.287	0.0504	50.4	3185	5922		100.0%
Subaru	Car	All	2003	27.3	18.7	25.1	21.8	3749	120.2	150	180	10.4	1.215	0.0483	51.1	3281	6178		100.0%
Subaru	Car	All	2004	26.9	18.3	24.9	21.5	3706	116.5	149	192	9.9	1.308	0.0521	50.1	3154	5882		100.0%
Subaru	Car	All	2005	27.3	18.5	25.0	21.7	3575	119.0	151	198	9.3	1.317	0.0553	49.1	3283	5865		100.0%
Subaru	Car	All	2006	28.0	18.9	25.5	22.2	3544	118.6	152	194	9.4	1.277	0.0547	49.8	3338	5913		100.0%
Subaru	Car	All	2007	28.4	19.3	25.7	22.5	3531	115.6	151	188	9.5	1.244	0.0532	50.2	3293	5812		100.0%
Subaru	Car	All	2008	28.7	19.4	26.1	22.7	3533	118.1	151	182	9.8	1.204	0.0514	50.8	3400	6002		100.0%
Subaru	Car	All	2009	28.9	19.6	26.1	22.8	3518	115.9	151	179	9.9	1.185	0.0507	50.8	3352	5893		100.0%
Subaru	Car	All	2010	30.2	20.5	27.2	23.8	3519	113.7	156	181	9.8	1.163	0.0514	53.5	3467	6097		100.0%
Subaru	Car	All	2011	30.2	20.4	27.4	23.9	3520	113.9	156	194	9.5	1.247	0.0550	53.7	3485	6130		100.0%
Subaru	Car	All	2012	35.0	23.4	31.4	27.4	3376	116.8	139	173	10.0	1.239	0.0510	59.9	4175	7010		100.0%
Subaru	Truck	All	1975																
Subaru	Truck	All	1976																
Subaru	Truck	All	1977																
Subaru	Truck	All	1978	27.2	21.2	26.3	23.2	2500		97	67	16.0	0.691	0.0268	34.2				100.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Subaru	Car	All	1981	86.6%													100.0%		
Subaru	Car	All	1982	81.2%													100.0%		
Subaru	Car	All	1983	72.1%	27.9%			1.4%									100.0%		
Subaru	Car	All	1984	67.1%	32.9%			3.4%									100.0%		
Subaru	Car	All	1985	63.1%	26.1%			25.7%									91.0%	9.0%	
Subaru	Car	All	1986	62.8%	25.4%			26.4%	18.2%		100.0%						100.0%		
Subaru	Car	All	1987	55.7%	27.0%			20.8%	37.1%		94.2%	5.8%					100.0%		
Subaru	Car	All	1988	61.1%	27.0%			19.7%	55.5%		79.5%	20.5%					100.0%		
Subaru	Car	All	1989	40.5%	37.3%	13.2%		16.7%	55.5%		73.8%	26.2%					79.9%	20.1%	
Subaru	Car	All	1990	35.2%	58.5%	2.3%		74.7%	23.3%		25.1%	7.3%	67.6%				100.0%		
Subaru	Car	All	1991	32.6%	59.3%	3.6%		71.6%	25.7%		27.4%	8.9%	63.7%				100.0%		
Subaru	Car	All	1992	32.7%	61.5%	0.2%		81.4%	17.9%		34.8%	1.2%	64.1%				100.0%		
Subaru	Car	All	1993	32.0%	65.9%	0.6%		85.7%	14.3%		14.3%	3.1%	82.6%				100.0%		
Subaru	Car	All	1994	35.7%	63.0%			100.0%			59.0%	4.8%	36.2%				100.0%		
Subaru	Car	All	1995	24.9%	75.1%			100.0%					100.0%				53.9%	46.1%	
Subaru	Car	All	1996	28.1%	71.9%			100.0%					100.0%				31.8%	68.2%	
Subaru	Car	All	1997	25.9%	74.1%			100.0%					100.0%				35.5%	64.5%	
Subaru	Car	All	1998	25.2%	74.8%			100.0%					100.0%				31.8%	68.2%	
Subaru	Car	All	1999	25.2%	74.8%			100.0%					100.0%				33.1%	66.9%	
Subaru	Car	All	2000	24.9%	75.1%			100.0%					100.0%				29.4%	70.6%	
Subaru	Car	All	2001	18.8%	81.2%			100.0%					100.0%				22.2%	77.8%	
Subaru	Car	All	2002	36.4%	63.6%			100.0%					100.0%				50.6%	49.4%	
Subaru	Car	All	2003	25.6%	74.4%			100.0%					100.0%				37.3%	62.7%	
Subaru	Car	All	2004	35.0%	65.0%			100.0%					100.0%		12.1%		50.5%	49.5%	
Subaru	Car	All	2005	27.6%	72.4%			100.0%					100.0%		31.8%		43.2%	56.8%	
Subaru	Car	All	2006	27.9%	72.1%			100.0%					100.0%		33.3%		50.4%	49.6%	
Subaru	Car	All	2007	27.9%	72.1%			100.0%					100.0%		33.5%		55.1%	44.9%	
Subaru	Car	All	2008	23.7%	76.3%			100.0%					100.0%		12.8%		57.3%	42.7%	
Subaru	Car	All	2009	20.3%	79.7%			100.0%					100.0%		44.2%		65.4%	34.6%	
Subaru	Car	All	2010	19.5%	40.9%	39.6%		100.0%					100.0%		100.0%		52.3%	47.7%	
Subaru	Car	All	2011	24.6%	30.5%	44.9%		100.0%					100.0%		100.0%		49.2%	50.8%	
Subaru	Car	All	2012	26.9%	4.6%	68.4%		100.0%					100.0%		100.0%		63.4%	36.6%	
Subaru	Truck	All	1975																
Subaru	Truck	All	1976																
Subaru	Truck	All	1977																
Subaru	Truck	All	1978	100.0%													100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Subaru	Truck	All	1979	27.5	21.7	26.1	23.5	2500		97	67	16.0	0.691	0.0268	34.5				100.0%
Subaru	Truck	All	1980	26.0	20.1	25.5	22.2	2500		97	67	16.0	0.691	0.0268	32.5				100.0%
Subaru	Truck	All	1981	28.4	22.8	26.0	24.1	2500		109	71	15.3	0.651	0.0284	35.5				100.0%
Subaru	Truck	All	1982	29.8	24.1	27.0	25.3	2500		109	74	14.8	0.683	0.0298	37.3				100.0%
Subaru	Truck	All	1983	29.5	23.6	27.2	25.1	2513		109	74	15.0	0.680	0.0295	37.2				100.0%
Subaru	Truck	All	1984	29.7	23.6	27.7	25.3	2514		109	74	14.9	0.681	0.0295	37.4				100.0%
Subaru	Truck	All	1985	29.6	23.5	27.4	25.2	2500		109	73	15.0	0.670	0.0292	37.0				100.0%
Subaru	Truck	All	1986	30.0	23.6	27.9	25.4	2500		109	73	15.0	0.670	0.0292	37.5				100.0%
Subaru	Truck	All	1987	29.8	23.4	27.5	25.1	2500		109	73	15.0	0.670	0.0292	37.2				100.0%
Subaru	Truck	All	1988																
Subaru	Truck	All	1989																
Subaru	Truck	All	1990																
Subaru	Truck	All	1991																
Subaru	Truck	All	1992																
Subaru	Truck	All	1993																
Subaru	Truck	All	1994																
Subaru	Truck	All	1995																
Subaru	Truck	All	1996																
Subaru	Truck	All	1997																
Subaru	Truck	All	1998	26.8	19.2	24.7	21.8	3500		150	165	10.4	1.100	0.0471	46.9				100.0%
Subaru	Truck	All	1999	27.0	19.3	24.5	21.8	3500		150	165	10.4	1.100	0.0471	47.3				100.0%
Subaru	Truck	All	2000	27.8	19.7	25.4	22.4	3500		150	165	10.4	1.100	0.0471	48.7				100.0%
Subaru	Truck	All	2001	27.9	19.7	25.0	22.3	3500		150	165	10.4	1.100	0.0471	48.8				100.0%
Subaru	Truck	All	2002	28.0	19.5	25.2	22.3	3500		150	165	10.4	1.100	0.0471	48.9				100.0%
Subaru	Truck	All	2003	27.3	19.0	24.5	21.7	3567		150	165	10.6	1.100	0.0464	48.7				100.0%
Subaru	Truck	All	2004	27.1	18.6	24.5	21.5	3517		150	173	10.1	1.156	0.0493	47.8				100.0%
Subaru	Truck	All	2005	28.2	19.2	25.3	22.3	3570		150	172	10.3	1.147	0.0482	50.4				100.0%
Subaru	Truck	All	2006	26.5	18.2	23.7	21.0	3861		161	201	9.7	1.239	0.0517	51.1				100.0%
Subaru	Truck	All	2007	27.3	18.7	24.4	21.6	3708		157	191	9.7	1.213	0.0514	50.6				100.0%
Subaru	Truck	All	2008	26.4	18.1	23.7	20.9	3882		178	206	9.6	1.161	0.0526	51.2				100.0%
Subaru	Truck	All	2009	28.4	19.4	25.3	22.4	3571		155	179	10.0	1.152	0.0499	50.7				100.0%
Subaru	Truck	All	2010	29.6	20.1	26.4	23.3	3694		157	176	10.4	1.123	0.0477	54.9				100.0%
Subaru	Truck	All	2011	30.4	20.6	27.2	23.9	3815		160	181	10.5	1.128	0.0475	58.3				100.0%
Subaru	Truck	All	2012	30.5	20.7	27.1	24.0	3769		158	177	10.5	1.121	0.0470	57.7				100.0%
Subaru	All	All	1975	26.5	20.9	24.9	22.5	2346		83	58	17.1	0.699	0.0248	31.2			100.0%	
Subaru	All	All	1976	29.7	23.8	27.3	25.3	2366		88	61	16.6	0.696	0.0259	35.3			100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Subaru	Truck	All	1979	100.0%													100.0%		
Subaru	Truck	All	1980	100.0%													100.0%		
Subaru	Truck	All	1981	100.0%													100.0%		
Subaru	Truck	All	1982	100.0%													100.0%		
Subaru	Truck	All	1983	75.4%	24.6%				5.2%								100.0%		
Subaru	Truck	All	1984	82.1%	17.9%			5.8%									100.0%		
Subaru	Truck	All	1985	95.6%	4.4%												100.0%		
Subaru	Truck	All	1986	100.0%													100.0%		
Subaru	Truck	All	1987	100.0%													100.0%		
Subaru	Truck	All	1988																
Subaru	Truck	All	1989																
Subaru	Truck	All	1990																
Subaru	Truck	All	1991																
Subaru	Truck	All	1992																
Subaru	Truck	All	1993																
Subaru	Truck	All	1994																
Subaru	Truck	All	1995																
Subaru	Truck	All	1996																
Subaru	Truck	All	1997																
Subaru	Truck	All	1998	24.8%	75.2%			100.0%					100.0%				100.0%		
Subaru	Truck	All	1999	23.3%	76.7%			100.0%					100.0%				100.0%		
Subaru	Truck	All	2000	23.7%	76.3%			100.0%					100.0%				100.0%		
Subaru	Truck	All	2001	20.1%	79.9%			100.0%					100.0%				100.0%		
Subaru	Truck	All	2002	17.8%	82.2%			100.0%					100.0%				100.0%		
Subaru	Truck	All	2003	18.8%	81.2%			100.0%					100.0%				100.0%		
Subaru	Truck	All	2004	17.3%	82.7%			100.0%					100.0%				100.0%		
Subaru	Truck	All	2005	17.5%	82.5%			100.0%					100.0%				100.0%		
Subaru	Truck	All	2006	9.6%	90.4%			100.0%					100.0%		36.2%		67.3%	32.7%	
Subaru	Truck	All	2007	11.2%	88.8%			100.0%					100.0%		24.8%		79.2%	20.8%	
Subaru	Truck	All	2008	7.9%	92.1%			100.0%					100.0%		40.7%		61.8%	38.2%	
Subaru	Truck	All	2009	9.3%	90.7%			100.0%					100.0%		11.8%			100.0%	
Subaru	Truck	All	2010	7.6%	60.1%	32.3%		100.0%					100.0%		100.0%			100.0%	
Subaru	Truck	All	2011	4.7%	44.5%	50.7%		100.0%					100.0%		100.0%			100.0%	
Subaru	Truck	All	2012	7.7%	47.1%	45.3%		100.0%					100.0%		100.0%			100.0%	
Subaru	All	All	1975	91.3%													100.0%		
Subaru	All	All	1976	63.9%													100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Subaru	All	All	1977	30.2	23.5	28.9	25.7	2353	90.0	97	65	15.6	0.674	0.0278	35.8	2737	3235	100.0%	
Subaru	All	All	1978	29.3	23.0	28.0	25.0	2401		97	67	15.5	0.691	0.0280	35.7			80.1%	19.9%
Subaru	All	All	1979	28.9	22.7	27.5	24.6	2432		97	67	15.7	0.691	0.0276	35.4			42.4%	57.6%
Subaru	All	All	1980	27.9	21.5	27.3	23.8	2412		99	68	15.3	0.693	0.0284	34.0			59.4%	40.6%
Subaru	All	All	1981	30.9	24.7	28.6	26.3	2410		107	70	15.0	0.657	0.0293	37.5			65.1%	34.9%
Subaru	All	All	1982	31.6	25.1	29.3	26.8	2525		108	71	15.5	0.657	0.0281	40.0			70.2%	29.8%
Subaru	All	All	1983	31.2	24.7	29.3	26.6	2556		108	73	15.3	0.675	0.0287	40.0			67.1%	32.9%
Subaru	All	All	1984	31.1	24.6	29.2	26.4	2581		108	73	15.4	0.679	0.0285	40.3			64.6%	35.4%
Subaru	All	All	1985	30.5	24.2	28.4	25.9	2629		109	86	13.9	0.788	0.0326	40.2			60.8%	39.2%
Subaru	All	All	1986	30.1	23.8	27.8	25.5	2668		108	88	13.8	0.816	0.0331	40.3			59.7%	40.3%
Subaru	All	All	1987	29.5	23.2	27.1	24.8	2726		107	90	13.9	0.841	0.0329	40.4			52.6%	47.4%
Subaru	All	All	1988	31.4	24.7	28.5	26.3	2613	104.7	104	90	13.4	0.863	0.0342	41.2	3326	4317	57.7%	42.3%
Subaru	All	All	1989	31.5	24.7	28.2	26.3	2621	102.4	102	88	13.8	0.865	0.0334	41.5	3262	4250	67.2%	32.8%
Subaru	All	All	1990	28.0	21.2	26.4	23.4	3080	114.4	124	116	12.5	0.933	0.0376	43.1	3215	4943	46.5%	53.5%
Subaru	All	All	1991	28.2	21.2	26.4	23.5	3079	113.0	123	115	12.7	0.932	0.0372	43.4	3203	4922	14.3%	85.7%
Subaru	All	All	1992	28.1	20.9	26.3	23.3	3188	112.9	131	147	11.2	1.148	0.0463	44.7	3194	5057	45.1%	54.9%
Subaru	All	All	1993	29.2	21.6	27.4	24.1	3037	109.6	122	117	12.3	0.957	0.0385	44.3	3202	4872	33.1%	66.9%
Subaru	All	All	1994	28.2	20.5	26.6	23.2	3172	113.0	129	127	12.1	0.976	0.0398	44.7	3205	5077	45.0%	55.0%
Subaru	All	All	1995	28.5	20.6	27.1	23.4	3193	115.5	132	132	11.6	1.000	0.0416	45.5	3289	5269	14.1%	85.9%
Subaru	All	All	1996	27.4	19.7	25.9	22.5	3333	123.1	140	142	11.3	1.012	0.0426	45.7	3379	5647	0.2%	99.8%
Subaru	All	All	1997	28.0	19.9	26.4	22.9	3325	122.8	143	152	10.7	1.060	0.0456	46.5	3439	5728	0.9%	99.1%
Subaru	All	All	1998	27.5	19.7	25.4	22.4	3401		146	158	10.6	1.078	0.0464	46.8			0.0%	100.0%
Subaru	All	All	1999	27.4	19.5	25.3	22.2	3427		146	159	10.5	1.088	0.0465	47.0				100.0%
Subaru	All	All	2000	28.0	19.8	25.5	22.5	3445		149	163	10.4	1.096	0.0474	48.1				100.0%
Subaru	All	All	2001	27.8	19.5	25.2	22.3	3674		152	168	10.7	1.104	0.0460	51.0				100.0%
Subaru	All	All	2002	27.4	19.1	25.0	22.0	3644		148	180	10.2	1.236	0.0495	50.0				100.0%
Subaru	All	All	2003	27.3	18.8	24.9	21.8	3671		150	174	10.5	1.166	0.0475	50.1				100.0%
Subaru	All	All	2004	27.0	18.4	24.7	21.5	3632		149	184	10.0	1.249	0.0510	49.2				100.0%
Subaru	All	All	2005	27.6	18.7	25.1	21.9	3573		151	191	9.6	1.270	0.0533	49.5				100.0%
Subaru	All	All	2006	27.3	18.6	24.7	21.6	3680		156	197	9.5	1.260	0.0534	50.3				100.0%
Subaru	All	All	2007	28.0	19.1	25.2	22.1	3595		153	189	9.6	1.233	0.0525	50.3				100.0%
Subaru	All	All	2008	28.1	19.1	25.4	22.3	3620		158	188	9.8	1.193	0.0517	50.9				100.0%
Subaru	All	All	2009	28.7	19.5	25.7	22.6	3543		153	179	9.9	1.169	0.0503	50.8				100.0%
Subaru	All	All	2010	29.7	20.2	26.6	23.4	3645		156	177	10.2	1.134	0.0488	54.5				100.0%
Subaru	All	All	2011	30.4	20.6	27.3	23.9	3719		159	185	10.2	1.167	0.0500	56.8				100.0%
Subaru	All	All	2012	32.1	21.7	28.6	25.2	3618		150	175	10.3	1.167	0.0486	58.6				100.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Subaru	All	All	1977	82.5%													100.0%		
Subaru	All	All	1978	84.7%													100.0%		
Subaru	All	All	1979	88.9%													100.0%		
Subaru	All	All	1980	85.6%													100.0%		
Subaru	All	All	1981	88.0%													100.0%		
Subaru	All	All	1982	82.1%													100.0%		
Subaru	All	All	1983	72.2%	27.8%			1.4%	0.2%								100.0%		
Subaru	All	All	1984	67.5%	32.5%			3.5%									100.0%		
Subaru	All	All	1985	63.9%	25.5%			25.1%									91.2%	8.8%	
Subaru	All	All	1986	63.6%	24.8%			25.9%	17.8%		97.8%						100.0%		
Subaru	All	All	1987	56.0%	26.9%			20.7%	36.9%		93.7%	5.8%					100.0%		
Subaru	All	All	1988	61.1%	27.0%			19.7%	55.5%		79.5%	20.5%					100.0%		
Subaru	All	All	1989	40.5%	37.3%	13.2%		16.7%	55.5%		73.8%	26.2%					79.9%	20.1%	
Subaru	All	All	1990	35.2%	58.5%	2.3%		74.7%	23.3%		25.1%	7.3%	67.6%				100.0%		
Subaru	All	All	1991	32.6%	59.3%	3.6%		71.6%	25.7%		27.4%	8.9%	63.7%				100.0%		
Subaru	All	All	1992	32.7%	61.5%	0.2%		81.4%	17.9%		34.8%	1.2%	64.1%				100.0%		
Subaru	All	All	1993	32.0%	65.9%	0.6%		85.7%	14.3%		14.3%	3.1%	82.6%				100.0%		
Subaru	All	All	1994	35.7%	63.0%			100.0%			59.0%	4.8%	36.2%				100.0%		
Subaru	All	All	1995	24.9%	75.1%			100.0%					100.0%				53.9%	46.1%	
Subaru	All	All	1996	28.1%	71.9%			100.0%					100.0%				31.8%	68.2%	
Subaru	All	All	1997	25.9%	74.1%			100.0%					100.0%				35.5%	64.5%	
Subaru	All	All	1998	25.1%	74.9%			100.0%					100.0%				50.6%	49.4%	
Subaru	All	All	1999	24.6%	75.4%			100.0%					100.0%				52.9%	47.1%	
Subaru	All	All	2000	24.6%	75.4%			100.0%					100.0%				43.7%	56.3%	
Subaru	All	All	2001	19.3%	80.7%			100.0%					100.0%				50.9%	49.1%	
Subaru	All	All	2002	31.3%	68.7%			100.0%					100.0%				64.0%	36.0%	
Subaru	All	All	2003	22.7%	77.3%			100.0%					100.0%				64.1%	35.9%	
Subaru	All	All	2004	28.0%	72.0%			100.0%					100.0%		7.3%		70.0%	30.0%	
Subaru	All	All	2005	24.8%	75.2%			100.0%					100.0%		23.0%		59.0%	41.0%	
Subaru	All	All	2006	20.0%	80.0%			100.0%					100.0%		34.6%		57.7%	42.3%	
Subaru	All	All	2007	21.8%	78.2%			100.0%					100.0%		30.3%		63.9%	36.1%	
Subaru	All	All	2008	19.8%	80.2%			100.0%					100.0%		19.7%		58.4%	41.6%	
Subaru	All	All	2009	15.1%	84.9%			100.0%					100.0%		28.8%		34.3%	65.7%	
Subaru	All	All	2010	11.0%	54.7%	34.3%		100.0%					100.0%		100.0%		14.7%	85.3%	
Subaru	All	All	2011	11.2%	40.0%	48.8%		100.0%					100.0%		100.0%		16.1%	83.9%	
Subaru	All	All	2012	15.1%	30.7%	54.2%		100.0%					100.0%		100.0%		24.4%	75.6%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Daimler	Car	Car	1975	17.3	13.5	16.5	14.7	3934		205	124	16.0	0.587	0.0306	36.2				
Daimler	Car	Car	1976	18.6	14.7	17.6	15.9	3924		196	110	17.5	0.550	0.0277	39.0				
Daimler	Car	Car	1977	19.2	15.4	17.5	16.3	3931	101.0	199	117	17.1	0.571	0.0291	40.1	2119	4100		
Daimler	Car	Car	1978	18.7	14.7	17.6	15.9	3971	95.9	208	128	15.5	0.606	0.0319	39.8	1979	3884		
Daimler	Car	Car	1979	20.3	16.2	18.8	17.3	3947	95.3	204	119	16.6	0.567	0.0297	43.4	2185	4252		
Daimler	Car	Car	1980	23.9	19.4	21.4	20.3	3767	95.5	196	103	17.3	0.515	0.0270	46.2	2403	4496		
Daimler	Car	Car	1981	25.4	21.0	22.3	21.6	3736	95.8	184	103	17.0	0.549	0.0272	48.8	2566	4767		
Daimler	Car	Car	1982	26.1	21.4	23.1	22.2	3884	97.4	186	115	15.8	0.611	0.0294	52.3	2683	5195		
Daimler	Car	Car	1983	26.4	21.3	23.8	22.4	3468	105.9	167	107	15.0	0.638	0.0308	46.5	2857	4914	48.7%	
Daimler	Car	Car	1984	25.9	20.8	23.8	22.1	3319	106.4	166	114	13.7	0.695	0.0343	43.8	2830	4643	55.2%	
Daimler	Car	Car	1985	23.0	18.4	21.0	19.5	3688	96.3	196	135	13.0	0.704	0.0366	43.4	2299	4206		
Daimler	Car	Car	1986	21.1	16.6	19.8	17.9	3686	99.3	226	180	10.4	0.830	0.0484	39.5	2183	3965		
Daimler	Car	Car	1987	21.9	17.2	20.4	18.5	3639	100.1	219	177	10.4	0.840	0.0484	41.0	2309	4145		
Daimler	Car	Car	1988	21.1	16.4	19.8	17.8	3638	97.0	220	183	10.1	0.871	0.0498	38.8	2127	3797		
Daimler	Car	Car	1989	21.2	16.4	19.8	17.8	3735	100.4	216	186	10.1	0.898	0.0496	40.2	2192	4054		
Daimler	Car	Car	1990	21.2	16.1	20.1	17.8	3824	101.5	205	190	10.2	0.952	0.0495	40.9	2195	4144		
Daimler	Car	Car	1991	22.2	16.6	21.4	18.6	3831	98.2	205	188	10.5	0.935	0.0485	43.2	2253	4242		
Daimler	Car	Car	1992	21.8	16.1	21.1	18.2	3996	102.2	207	215	9.9	1.025	0.0527	44.0	2293	4505		2.0%
Daimler	Car	Car	1993	22.7	16.7	21.8	18.9	4150	105.6	206	216	10.0	1.043	0.0515	47.4	2441	5020		0.6%
Daimler	Car	Car	1994	23.5	17.0	22.8	19.5	4103	102.4	211	229	9.3	1.094	0.0556	48.4	2452	4987		
Daimler	Car	Car	1995	24.5	17.6	23.6	20.3	4086	103.2	203	218	9.8	1.078	0.0529	50.5	2592	5233		
Daimler	Car	Car	1996	25.2	17.8	24.7	20.8	4016	104.7	194	200	10.4	1.027	0.0489	50.9	2689	5346		
Daimler	Car	Car	1997	25.0	17.4	24.9	20.6	4014	105.9	208	225	9.3	1.082	0.0556	50.4	2688	5355		
Daimler	Car	Car	1998	27.0	18.8	26.5	22.2	3873	96.0	190	212	9.5	1.123	0.0543	52.7	2647	5100		
Daimler	Car	Car	1999	26.3	18.2	25.6	21.5	3875	96.5	197	223	9.0	1.151	0.0575	51.2	2567	4972		
Daimler	Car	Car	2000	24.9	17.1	24.2	20.3	4018	103.8	222	243	8.6	1.122	0.0602	50.2	2600	5220		
Daimler	Car	Car	2001	24.8	17.0	24.0	20.2	3939	99.6	224	241	8.6	1.091	0.0610	48.9	2471	4896		4.7%
Daimler	Car	Car	2002	24.6	16.8	23.4	19.9	3881	100.7	209	230	8.9	1.122	0.0588	47.7	2483	4825		4.3%
Daimler	Car	Car	2003	24.4	16.5	23.3	19.7	3921	97.2	222	249	8.5	1.160	0.0629	48.2	2415	4720		2.4%
Daimler	Car	Car	2004	24.5	16.5	23.4	19.8	3934	98.9	214	245	8.7	1.193	0.0616	48.7	2478	4845		16.2%
Daimler	Car	Car	2005	25.1	16.8	23.6	20.1	3859	96.4	201	240	8.7	1.263	0.0616	48.9	2472	4760		16.5%
Daimler	Car	Car	2006	24.3	16.2	23.2	19.6	4024	96.0	226	265	8.3	1.193	0.0656	49.6	2372	4802		10.7%
Daimler	Car	Car	2007	23.3	15.5	22.6	18.9	4188	104.7	243	297	7.8	1.238	0.0700	49.1	2462	5157		19.3%
Daimler	Car	Car	2008	25.5	17.0	24.3	20.5	3924	98.3	219	268	8.3	1.224	0.0660	50.3	2528	4960		26.0%
Daimler	Car	Car	2009	25.8	17.1	24.6	20.7	3889	93.2	213	261	8.5	1.228	0.0649	50.4	2434	4716		25.5%
Daimler	Car	Car	2010	24.8	16.5	23.7	20.0	4145	104.7	222	273	8.2	1.235	0.0653	51.6	2608	5410		38.1%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Daimler	Car	Car	1975	9.5%				38.4%		34.7%							76.1%	23.9%	
Daimler	Car	Car	1976	5.3%				26.9%		49.5%							89.3%	10.7%	
Daimler	Car	Car	1977	9.6%				48.1%		49.2%							87.1%	12.9%	
Daimler	Car	Car	1978	6.3%				48.9%		50.0%							88.8%	11.2%	
Daimler	Car	Car	1979	8.4%				36.4%		63.6%							89.5%	10.5%	
Daimler	Car	Car	1980	9.8%				26.9%		73.1%							94.8%	5.2%	
Daimler	Car	Car	1981	10.9%				24.1%		75.9%							96.5%	3.5%	
Daimler	Car	Car	1982	9.5%				21.5%		78.5%							94.5%	5.5%	
Daimler	Car	Car	1983	3.6%				11.9%	19.3%	39.4%							47.4%	52.6%	
Daimler	Car	Car	1984	2.8%				29.6%	12.9%	23.9%							42.6%	57.4%	
Daimler	Car	Car	1985	3.4%				63.5%		36.5%							90.2%	9.8%	
Daimler	Car	Car	1986	3.9%				92.2%		7.8%	98.5%		1.5%				66.7%	33.3%	
Daimler	Car	Car	1987	1.2%				81.0%		19.0%	99.1%		0.9%				68.5%	31.5%	
Daimler	Car	Car	1988	0.5%				99.1%		0.9%	100.0%						75.5%	24.5%	
Daimler	Car	Car	1989	0.4%				99.5%		0.5%	100.0%						76.2%	23.8%	
Daimler	Car	Car	1990	0.6%				96.4%		3.6%	86.4%		13.6%				74.9%	25.1%	
Daimler	Car	Car	1991	2.9%				91.5%		8.5%	83.6%		16.4%				78.9%	21.1%	
Daimler	Car	Car	1992	0.4%				93.6%		6.4%	62.7%		37.3%		32.5%		75.7%		24.3%
Daimler	Car	Car	1993	1.6%				100.0%			34.5%		65.5%		28.2%		71.9%	0.4%	27.7%
Daimler	Car	Car	1994					98.8%		1.2%	1.2%		98.8%		29.0%		81.3%		18.7%
Daimler	Car	Car	1995					94.1%		5.9%	0.4%		99.6%		25.1%		79.1%		20.9%
Daimler	Car	Car	1996		16.5%			95.7%		4.3%			100.0%		17.1%		49.2%	30.6%	20.1%
Daimler	Car	Car	1997		100.0%			97.4%		2.6%		11.4%	88.6%		32.2%		36.1%	49.1%	14.8%
Daimler	Car	Car	1998		100.0%			96.9%		3.1%		45.7%	54.3%		16.7%		56.5%	35.1%	8.4%
Daimler	Car	Car	1999	1.9%	98.1%			96.6%		3.4%		61.4%	38.6%		9.9%		56.1%	35.1%	8.8%
Daimler	Car	Car	2000	0.5%	99.5%			100.0%				61.1%	38.9%		0.2%		41.0%	29.4%	29.6%
Daimler	Car	Car	2001	2.3%	97.7%			100.0%				95.5%	4.5%		4.5%		48.5%	29.8%	21.7%
Daimler	Car	Car	2002	3.2%	96.8%			100.0%				86.2%	13.8%		13.8%		65.9%	16.9%	17.2%
Daimler	Car	Car	2003	0.7%	99.3%			100.0%				89.0%	11.0%		11.0%		59.1%	30.1%	10.8%
Daimler	Car	Car	2004	1.1%	98.9%			100.0%				82.7%	17.3%		17.3%		60.7%	27.8%	11.5%
Daimler	Car	Car	2005	0.6%	99.4%			96.0%		4.0%		63.7%	36.3%		34.2%		69.9%	23.3%	6.8%
Daimler	Car	Car	2006	1.6%	98.4%			96.1%		3.9%		38.5%	61.5%		58.5%		81.4%	8.3%	10.3%
Daimler	Car	Car	2007	0.6%	99.4%			98.7%		1.3%		2.4%	97.6%		36.0%		49.8%	27.6%	22.6%
Daimler	Car	Car	2008	0.3%	89.3%			98.3%		1.7%		0.7%	99.3%		24.4%		67.2%	20.1%	12.7%
Daimler	Car	Car	2009	0.1%	89.2%			99.1%		0.9%		3.0%	97.0%		57.2%		78.8%	13.5%	7.8%
Daimler	Car	Car	2010	0.3%	97.4%			100.0%				0.3%	99.7%		100.0%	1.0%	51.5%	37.6%	10.9%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Daimler	Car	Car	2011	25.3	16.8	24.2	20.4	4141	102.3	219	270	8.2	1.239	0.0647	52.5	2601	5393		38.1%
Daimler	Car	Car	2012	28.7	18.8	27.7	23.0	4051	96.4	198	288	7.8	1.493	0.0700	58.4	2801	5706		28.1%
Daimler	Car	Wagon	1975																
Daimler	Car	Wagon	1976																
Daimler	Car	Wagon	1977																
Daimler	Car	Wagon	1978																
Daimler	Car	Wagon	1979	24.6	20.3	21.6	20.9	4000	134.9	183	110	16.1	0.601	0.0275	49.3	3324	6648		
Daimler	Car	Wagon	1980	24.9	20.7	21.6	21.1	4000	134.9	183	83	20.2	0.454	0.0208	49.8	3358	6717		
Daimler	Car	Wagon	1981	29.2	24.1	25.7	24.8	4000	134.9	183	110	16.4	0.601	0.0275	58.5	3944	7889		
Daimler	Car	Wagon	1982	29.3	24.1	25.9	24.9	4000	134.9	183	120	15.0	0.656	0.0300	58.7	3957	7913		
Daimler	Car	Wagon	1983	29.4	24.2	25.9	24.9	4000	134.9	183	120	15.0	0.656	0.0300	58.8	3967	7935		
Daimler	Car	Wagon	1984	29.0	23.9	25.4	24.6	4000	135.2	183	121	14.9	0.660	0.0302	58.0	3921	7842		
Daimler	Car	Wagon	1985	26.9	21.9	24.0	22.8	4000	135.2	183	122	14.8	0.665	0.0304	53.8	3636	7272		
Daimler	Car	Wagon	1986																
Daimler	Car	Wagon	1987	26.6	21.5	23.4	22.4	4000	136.2	183	143	13.0	0.781	0.0358	53.2	3620	7240		
Daimler	Car	Wagon	1988	20.8	16.3	19.0	17.5	4000	136.2	181	177	11.0	0.978	0.0443	41.5	2828	5655		
Daimler	Car	Wagon	1989	21.0	16.4	18.9	17.5	4000	136.2	181	177	11.0	0.978	0.0443	41.9	2853	5707		
Daimler	Car	Wagon	1990	21.1	16.0	19.9	17.7	4000	136.2	181	177	11.0	0.978	0.0443	42.2	2874	5747		30.4%
Daimler	Car	Wagon	1991	21.2	15.9	20.2	17.7	4000	136.2	181	177	11.0	0.978	0.0443	42.4	2890	5780		50.3%
Daimler	Car	Wagon	1992	21.3	16.0	19.8	17.7	4000	136.2	181	177	11.0	0.978	0.0443	42.5	2897	5794		37.2%
Daimler	Car	Wagon	1993	23.5	17.3	22.2	19.5	4000	136.2	191	206	9.8	1.076	0.0515	47.1	3205	6410		27.5%
Daimler	Car	Wagon	1994	24.7	18.0	23.8	20.5	4000	136.2	195	217	9.3	1.113	0.0543	49.5	3370	6739		
Daimler	Car	Wagon	1995	25.6	18.4	24.6	21.1	4000	136.2	195	217	9.3	1.113	0.0543	51.2	3485	6971		
Daimler	Car	Wagon	1996																
Daimler	Car	Wagon	1997																
Daimler	Car	Wagon	1998	27.2	18.8	26.7	22.3	4000	141.5	195	221	9.2	1.133	0.0553	54.4	3845	7690		
Daimler	Car	Wagon	1999	26.7	18.5	25.8	21.8	4000	141.5	195	218	9.3	1.120	0.0546	53.4	3777	7554		
Daimler	Car	Wagon	2000	26.7	18.4	25.8	21.8	4000	141.5	195	221	9.2	1.133	0.0553	53.5	3783	7567		
Daimler	Car	Wagon	2001	26.1	17.8	25.3	21.3	4000	141.5	195	221	9.2	1.133	0.0553	52.3	3701	7402		55.7%
Daimler	Car	Wagon	2002	25.5	17.4	24.3	20.6	4000	130.9	195	217	9.3	1.112	0.0542	50.9	3333	6667		30.5%
Daimler	Car	Wagon	2003	25.3	17.4	23.5	20.3	3858	125.2	173	202	9.6	1.173	0.0523	48.8	3171	6129		23.3%
Daimler	Car	Wagon	2004	24.2	16.4	22.7	19.5	4209	131.5	204	219	9.8	1.082	0.0519	51.1	3195	6716		57.5%
Daimler	Car	Wagon	2005	23.8	16.2	21.9	19.0	4224	129.2	206	222	10.0	1.079	0.0520	50.4	3087	6513		71.4%
Daimler	Car	Wagon	2006	23.5	15.8	22.2	18.9	4432	143.8	221	271	8.4	1.235	0.0624	52.1	3404	7517		51.7%
Daimler	Car	Wagon	2007	21.5	14.7	19.9	17.3	5402	159.2	219	268	10.1	1.229	0.0498	58.8	3465	9373		99.5%
Daimler	Car	Wagon	2008	21.7	15.0	19.7	17.4	5277	158.7	211	264	9.7	1.251	0.0503	57.6	3461	9152		79.1%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Daimler	Car	Car	2011	0.2%	97.8%		0.8%	97.0%		2.2%		0.2%	99.8%		99.9%	0.2%	56.9%	36.7%	6.4%
Daimler	Car	Car	2012	0.1%	97.8%		78.3%	19.7%		2.1%		0.1%	99.9%		99.2%	1.3%	71.6%	21.8%	6.6%
Daimler	Car	Wagon	1975																
Daimler	Car	Wagon	1976																
Daimler	Car	Wagon	1977																
Daimler	Car	Wagon	1978																
Daimler	Car	Wagon	1979							100.0%								100.0%	
Daimler	Car	Wagon	1980							100.0%								100.0%	
Daimler	Car	Wagon	1981							100.0%								100.0%	
Daimler	Car	Wagon	1982							100.0%								100.0%	
Daimler	Car	Wagon	1983							100.0%								100.0%	
Daimler	Car	Wagon	1984							100.0%								100.0%	
Daimler	Car	Wagon	1985							100.0%								100.0%	
Daimler	Car	Wagon	1986																
Daimler	Car	Wagon	1987							100.0%	100.0%							100.0%	
Daimler	Car	Wagon	1988					100.0%			100.0%							100.0%	
Daimler	Car	Wagon	1989					100.0%			100.0%							100.0%	
Daimler	Car	Wagon	1990					100.0%			100.0%							100.0%	
Daimler	Car	Wagon	1991					100.0%			100.0%							100.0%	
Daimler	Car	Wagon	1992					100.0%			100.0%							100.0%	
Daimler	Car	Wagon	1993					100.0%			27.5%		72.5%					100.0%	
Daimler	Car	Wagon	1994					100.0%					100.0%					100.0%	
Daimler	Car	Wagon	1995					100.0%					100.0%					100.0%	
Daimler	Car	Wagon	1996																
Daimler	Car	Wagon	1997																
Daimler	Car	Wagon	1998		100.0%			100.0%				100.0%						100.0%	
Daimler	Car	Wagon	1999		100.0%			100.0%				100.0%						100.0%	
Daimler	Car	Wagon	2000		100.0%			100.0%				100.0%						100.0%	
Daimler	Car	Wagon	2001		100.0%			100.0%				100.0%						100.0%	
Daimler	Car	Wagon	2002		100.0%			100.0%				100.0%					49.0%	51.0%	
Daimler	Car	Wagon	2003	0.3%	99.7%			100.0%				100.0%					75.8%	24.2%	
Daimler	Car	Wagon	2004		100.0%			100.0%				100.0%					32.1%	67.9%	
Daimler	Car	Wagon	2005		100.0%			100.0%				100.0%					45.4%	54.6%	
Daimler	Car	Wagon	2006		100.0%			100.0%				30.5%	69.5%		90.8%			72.1%	27.9%
Daimler	Car	Wagon	2007		100.0%			89.1%		10.9%		8.3%	91.7%		70.3%			9.8%	90.2%
Daimler	Car	Wagon	2008		100.0%			90.8%		9.2%			100.0%		78.8%			12.0%	88.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Daimler	Car	Wagon	2009	21.8	15.0	19.8	17.4	5248	155.4	211	264	9.6	1.250	0.0508	57.4	3401	8956		99.4%
Daimler	Car	Wagon	2010																
Daimler	Car	Wagon	2011	24.4	16.4	23.1	19.6	4500	135.7	213	268	8.6	1.258	0.0596	54.9	3312	7453		100.0%
Daimler	Car	Wagon	2012	27.7	18.3	26.7	22.3	4500	135.7	221	317	7.7	1.427	0.0704	62.5	3773	8490		93.1%
Daimler	Car	Non-Truck SUV	1975																
Daimler	Car	Non-Truck SUV	1976																
Daimler	Car	Non-Truck SUV	1977																
Daimler	Car	Non-Truck SUV	1978																
Daimler	Car	Non-Truck SUV	1979																
Daimler	Car	Non-Truck SUV	1980																
Daimler	Car	Non-Truck SUV	1981																
Daimler	Car	Non-Truck SUV	1982																
Daimler	Car	Non-Truck SUV	1983																
Daimler	Car	Non-Truck SUV	1984																
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Daimler	Car	Non-Truck SUV	2002																
Daimler	Car	Non-Truck SUV	2003																
Daimler	Car	Non-Truck SUV	2004																
Daimler	Car	Non-Truck SUV	2005																
Daimler	Car	Non-Truck SUV	2006																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Daimler	Car	Wagon	2009		100.0%			91.4%		8.6%			100.0%		66.8%			25.2%	74.8%
Daimler	Car	Wagon	2010																
Daimler	Car	Wagon	2011		100.0%			100.0%					100.0%		100.0%			100.0%	
Daimler	Car	Wagon	2012		100.0%		100.0%						100.0%		100.0%			100.0%	
Daimler	Car	Non-Truck SUV	1975																
Daimler	Car	Non-Truck SUV	1976																
Daimler	Car	Non-Truck SUV	1977																
Daimler	Car	Non-Truck SUV	1978																
Daimler	Car	Non-Truck SUV	1979																
Daimler	Car	Non-Truck SUV	1980																
Daimler	Car	Non-Truck SUV	1981																
Daimler	Car	Non-Truck SUV	1982																
Daimler	Car	Non-Truck SUV	1983																
Daimler	Car	Non-Truck SUV	1984																
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Daimler	Car	Non-Truck SUV	1987																
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Daimler	Car	Non-Truck SUV	1995																
Daimler	Car	Non-Truck SUV	1996																
Daimler	Car	Non-Truck SUV	1997																
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Daimler	Car	Non-Truck SUV	2004																
Daimler	Car	Non-Truck SUV	2005																
Daimler	Car	Non-Truck SUV	2006																

2012 FE Trends Report

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Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Daimler	Car	Non-Truck SUV	2007																
Daimler	Car	Non-Truck SUV	2008																
Daimler	Car	Non-Truck SUV	2009																
Daimler	Car	Non-Truck SUV	2010	23.8	16.1	22.1	19.1	4500	125.0	213	268	8.6	1.258	0.0596	53.6	2976	6695		
Daimler	Car	Non-Truck SUV	2011	23.5	15.9	22.0	18.9	4000	126.2	213	268	7.9	1.258	0.0670	47.0	2968	5936		
Daimler	Car	Non-Truck SUV	2012	23.6	16.1	22.2	19.1	4185	125.0	213	268	8.1	1.258	0.0642	49.3	2945	6162		
Daimler	Truck	Truck SUV	1975																
Daimler	Truck	Truck SUV	1976																
Daimler	Truck	Truck SUV	1977																
Daimler	Truck	Truck SUV	1978																
Daimler	Truck	Truck SUV	1979																
Daimler	Truck	Truck SUV	1980																
Daimler	Truck	Truck SUV	1981																
Daimler	Truck	Truck SUV	1982																
Daimler	Truck	Truck SUV	1983																
Daimler	Truck	Truck SUV	1984																
Daimler	Truck	Truck SUV	1985																
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Daimler	Truck	Truck SUV	1987																
Daimler	Truck	Truck SUV	1988																
Daimler	Truck	Truck SUV	1989																
Daimler	Truck	Truck SUV	1990																
Daimler	Truck	Truck SUV	1991																
Daimler	Truck	Truck SUV	1992																
Daimler	Truck	Truck SUV	1993																
Daimler	Truck	Truck SUV	1994																
Daimler	Truck	Truck SUV	1995																
Daimler	Truck	Truck SUV	1996																
Daimler	Truck	Truck SUV	1997																
Daimler	Truck	Truck SUV	1998	21.3	15.4	19.8	17.4	4500		195	215	10.3	1.103	0.0478	48.0				
Daimler	Truck	Truck SUV	1999	20.3	14.7	18.6	16.6	5000		216	232	10.7	1.080	0.0464	50.9				31.6%
Daimler	Truck	Truck SUV	2000	20.4	14.8	18.5	16.6	5500		214	231	11.6	1.084	0.0419	56.3				25.2%
Daimler	Truck	Truck SUV	2001	20.8	14.8	19.0	16.8	5500		214	231	11.6	1.085	0.0420	57.2				100.0%
Daimler	Truck	Truck SUV	2002	19.1	13.7	17.0	15.4	5000		227	237	10.5	1.059	0.0475	47.8				100.0%
Daimler	Truck	Truck SUV	2003	18.8	13.5	16.6	15.1	5138		239	243	10.5	1.024	0.0472	48.3				100.0%
Daimler	Truck	Truck SUV	2004	18.8	13.5	16.4	15.0	5535		245	246	11.0	1.007	0.0444	52.0				100.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Daimler	Car	Non-Truck SUV	2007																
Daimler	Car	Non-Truck SUV	2008																
Daimler	Car	Non-Truck SUV	2009																
Daimler	Car	Non-Truck SUV	2010		100.0%			100.0%					100.0%		100.0%			100.0%	
Daimler	Car	Non-Truck SUV	2011		100.0%			100.0%					100.0%		100.0%			100.0%	
Daimler	Car	Non-Truck SUV	2012		100.0%			100.0%					100.0%		100.0%			100.0%	
Daimler	Truck	Truck SUV	1975																
Daimler	Truck	Truck SUV	1976																
Daimler	Truck	Truck SUV	1977																
Daimler	Truck	Truck SUV	1978																
Daimler	Truck	Truck SUV	1979																
Daimler	Truck	Truck SUV	1980																
Daimler	Truck	Truck SUV	1981																
Daimler	Truck	Truck SUV	1982																
Daimler	Truck	Truck SUV	1983																
Daimler	Truck	Truck SUV	1984																
Daimler	Truck	Truck SUV	1985																
Daimler	Truck	Truck SUV	1986																
Daimler	Truck	Truck SUV	1987																
Daimler	Truck	Truck SUV	1988																
Daimler	Truck	Truck SUV	1989																
Daimler	Truck	Truck SUV	1990																
Daimler	Truck	Truck SUV	1991																
Daimler	Truck	Truck SUV	1992																
Daimler	Truck	Truck SUV	1993																
Daimler	Truck	Truck SUV	1994																
Daimler	Truck	Truck SUV	1995																
Daimler	Truck	Truck SUV	1996																
Daimler	Truck	Truck SUV	1997																
Daimler	Truck	Truck SUV	1998		100.0%			100.0%				100.0%							100.0%
Daimler	Truck	Truck SUV	1999		100.0%			100.0%				100.0%						68.4%	31.6%
Daimler	Truck	Truck SUV	2000		100.0%			100.0%				74.8%	25.2%						100.0%
Daimler	Truck	Truck SUV	2001		100.0%			100.0%				100.0%							100.0%
Daimler	Truck	Truck SUV	2002		100.0%			100.0%				100.0%							100.0%
Daimler	Truck	Truck SUV	2003		100.0%			100.0%				100.0%						1.4%	98.6%
Daimler	Truck	Truck SUV	2004		100.0%			100.0%				100.0%							100.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Daimler	Truck	Truck SUV	2005	18.7	13.3	16.4	14.9	5048		247	252	10.1	1.018	0.0497	47.3				100.0%
Daimler	Truck	Truck SUV	2006	20.9	14.4	19.2	16.8	5005		233	276	9.2	1.201	0.0551	52.7				100.0%
Daimler	Truck	Truck SUV	2007	20.2	14.0	18.4	16.2	5290		252	303	8.7	1.204	0.0570	53.9				100.0%
Daimler	Truck	Truck SUV	2008	20.8	14.3	19.0	16.6	5478		248	298	8.9	1.208	0.0543	57.4				100.0%
Daimler	Truck	Truck SUV	2009	20.8	14.3	19.0	16.7	5385		244	295	8.9	1.215	0.0547	56.4				94.5%
Daimler	Truck	Truck SUV	2010	21.4	14.7	19.6	17.2	5121		232	284	8.9	1.231	0.0557	55.1				90.3%
Daimler	Truck	Truck SUV	2011	21.1	14.5	19.3	16.9	5302		236	288	9.0	1.222	0.0544	56.4				61.6%
Daimler	Truck	Truck SUV	2012	22.5	15.4	20.6	18.0	5250		229	289	8.6	1.268	0.0555	60.0				100.0%
Daimler	Car	All	1975	17.3	13.5	16.5	14.7	3934		205	124	16.0	0.587	0.0306	36.2				
Daimler	Car	All	1976	18.6	14.7	17.6	15.9	3924		196	110	17.5	0.550	0.0277	39.0				
Daimler	Car	All	1977	19.2	15.4	17.5	16.3	3931	101.0	199	117	17.1	0.571	0.0291	40.1	2119	4100		
Daimler	Car	All	1978	18.7	14.7	17.6	15.9	3971	95.9	208	128	15.5	0.606	0.0319	39.8	1979	3884		
Daimler	Car	All	1979	20.5	16.4	18.9	17.4	3950	97.0	203	119	16.5	0.569	0.0296	43.7	2236	4359		
Daimler	Car	All	1980	23.9	19.5	21.4	20.3	3781	98.0	195	102	17.4	0.512	0.0266	46.4	2462	4632		
Daimler	Car	All	1981	25.6	21.1	22.5	21.7	3747	97.5	184	103	17.0	0.551	0.0272	49.3	2625	4901		
Daimler	Car	All	1982	26.3	21.5	23.3	22.3	3890	99.2	185	115	15.8	0.613	0.0294	52.6	2745	5328		
Daimler	Car	All	1983	26.4	21.4	23.9	22.4	3478	106.5	167	107	15.0	0.638	0.0308	46.7	2878	4973	47.8%	
Daimler	Car	All	1984	26.0	20.9	23.8	22.1	3330	106.8	166	114	13.7	0.694	0.0343	44.0	2847	4692	54.4%	
Daimler	Car	All	1985	23.1	18.6	21.1	19.6	3700	97.8	195	134	13.1	0.703	0.0364	43.8	2351	4325		
Daimler	Car	All	1986	21.1	16.6	19.8	17.9	3686	99.3	226	180	10.4	0.830	0.0484	39.5	2183	3965		
Daimler	Car	All	1987	22.0	17.3	20.5	18.6	3648	101.0	218	176	10.4	0.839	0.0481	41.3	2342	4223		
Daimler	Car	All	1988	21.1	16.3	19.7	17.8	3650	98.3	218	182	10.1	0.875	0.0496	38.9	2152	3863		
Daimler	Car	All	1989	21.2	16.4	19.8	17.8	3743	101.5	215	186	10.1	0.901	0.0495	40.2	2212	4105		
Daimler	Car	All	1990	21.2	16.1	20.1	17.8	3829	102.5	204	190	10.2	0.952	0.0493	41.0	2215	4191		0.9%
Daimler	Car	All	1991	22.2	16.5	21.3	18.6	3836	99.4	204	188	10.5	0.937	0.0484	43.1	2274	4292		1.6%
Daimler	Car	All	1992	21.8	16.1	21.0	18.2	3996	103.5	206	213	10.0	1.023	0.0524	43.9	2315	4552		3.3%
Daimler	Car	All	1993	22.7	16.7	21.9	18.9	4147	106.2	206	216	10.0	1.043	0.0515	47.4	2456	5048		1.1%
Daimler	Car	All	1994	23.6	17.1	22.8	19.6	4099	103.9	210	228	9.3	1.095	0.0555	48.5	2492	5063		
Daimler	Car	All	1995	24.5	17.7	23.7	20.3	4082	104.7	203	218	9.7	1.080	0.0529	50.6	2633	5313		
Daimler	Car	All	1996	25.2	17.8	24.7	20.8	4016	104.7	194	200	10.4	1.027	0.0489	50.9	2689	5346		
Daimler	Car	All	1997	25.0	17.4	24.9	20.6	4014	105.9	208	225	9.3	1.082	0.0556	50.4	2688	5355		
Daimler	Car	All	1998	27.0	18.8	26.5	22.2	3878	97.9	191	213	9.5	1.124	0.0544	52.8	2697	5209		
Daimler	Car	All	1999	26.3	18.2	25.6	21.5	3880	98.3	197	223	9.0	1.150	0.0574	51.2	2615	5074		
Daimler	Car	All	2000	24.9	17.2	24.2	20.4	4018	105.2	221	242	8.7	1.122	0.0600	50.3	2645	5309		
Daimler	Car	All	2001	24.9	17.0	24.1	20.3	3941	101.2	223	241	8.6	1.092	0.0608	49.1	2517	4989		6.6%
Daimler	Car	All	2002	24.6	16.8	23.5	20.0	3887	102.2	208	229	8.9	1.122	0.0586	47.9	2524	4913		5.6%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Daimler	Truck	Truck SUV	2005		100.0%			100.0%				100.0%							100.0%
Daimler	Truck	Truck SUV	2006		100.0%			100.0%				100.0%			77.8%				100.0%
Daimler	Truck	Truck SUV	2007		100.0%			91.5%		8.5%		4.0%	96.0%						100.0%
Daimler	Truck	Truck SUV	2008		100.0%			83.3%		16.7%		1.6%	98.4%						100.0%
Daimler	Truck	Truck SUV	2009		100.0%			86.0%		14.0%		5.9%	94.1%		75.0%				100.0%
Daimler	Truck	Truck SUV	2010		99.0%	1.0%		92.3%		7.7%		0.5%	99.5%		100.0%	1.0%		33.8%	66.2%
Daimler	Truck	Truck SUV	2011		99.9%	0.1%		88.1%		11.9%		1.2%	98.8%		87.0%	0.1%		16.0%	84.0%
Daimler	Truck	Truck SUV	2012		100.0%		23.0%	57.4%		19.6%			100.0%		80.4%			33.6%	66.4%
Daimler	Car	All	1975	9.5%				38.4%		34.7%							76.1%	23.9%	
Daimler	Car	All	1976	5.3%				26.9%		49.5%							89.3%	10.7%	
Daimler	Car	All	1977	9.6%				48.1%		49.2%							87.1%	12.9%	
Daimler	Car	All	1978	6.3%				48.9%		50.0%							88.8%	11.2%	
Daimler	Car	All	1979	8.1%				34.7%		65.3%							85.4%	14.6%	
Daimler	Car	All	1980	9.2%				25.3%		74.7%							89.0%	11.0%	
Daimler	Car	All	1981	10.5%				23.1%		76.9%							92.3%	7.7%	
Daimler	Car	All	1982	9.0%				20.4%		79.6%							89.9%	10.1%	
Daimler	Car	All	1983	3.6%				11.7%	18.9%	40.5%							46.5%	53.5%	
Daimler	Car	All	1984	2.8%				29.2%	12.7%	25.0%							42.0%	58.0%	
Daimler	Car	All	1985	3.2%				61.1%		38.9%							86.7%	13.3%	
Daimler	Car	All	1986	3.9%				92.2%		7.8%	98.5%		1.5%				66.7%	33.3%	
Daimler	Car	All	1987	1.2%				79.0%		21.0%	99.1%		0.9%				66.8%	33.2%	
Daimler	Car	All	1988	0.5%				99.2%		0.8%	100.0%						72.8%	27.2%	
Daimler	Car	All	1989	0.4%				99.6%		0.4%	100.0%						73.9%	26.1%	
Daimler	Car	All	1990	0.6%				96.5%		3.5%	86.8%		13.2%				72.7%	27.3%	
Daimler	Car	All	1991	2.8%				91.8%		8.2%	84.1%		15.9%				76.3%	23.7%	
Daimler	Car	All	1992	0.4%				93.9%		6.1%	64.1%		35.9%		31.4%		72.9%	3.6%	23.5%
Daimler	Car	All	1993	1.6%				100.0%			34.4%		65.6%		27.6%		70.4%	2.4%	27.2%
Daimler	Car	All	1994					98.8%		1.2%	1.2%		98.8%		27.8%		77.8%	4.3%	17.9%
Daimler	Car	All	1995					94.4%		5.6%	0.4%		99.6%		23.9%		75.4%	4.6%	20.0%
Daimler	Car	All	1996		16.5%			95.7%		4.3%			100.0%		17.1%		49.2%	30.6%	20.1%
Daimler	Car	All	1997		100.0%			97.4%		2.6%		11.4%	88.6%		32.2%		36.1%	49.1%	14.8%
Daimler	Car	All	1998		100.0%			97.0%		3.0%		48.0%	52.0%		16.0%		54.1%	37.8%	8.1%
Daimler	Car	All	1999	1.8%	98.2%			96.7%		3.3%		63.0%	37.0%		9.5%		53.9%	37.6%	8.5%
Daimler	Car	All	2000	0.5%	99.5%			100.0%				62.6%	37.4%		0.2%		39.5%	32.1%	28.5%
Daimler	Car	All	2001	2.2%	97.8%			100.0%				95.6%	4.4%		4.4%		46.7%	32.4%	20.9%
Daimler	Car	All	2002	3.0%	97.0%			100.0%				86.9%	13.1%		13.1%		65.1%	18.5%	16.4%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Daimler	Car	All	2003	24.4	16.6	23.3	19.8	3920	97.8	220	248	8.5	1.161	0.0626	48.3	2432	4752		2.8%
Daimler	Car	All	2004	24.5	16.5	23.3	19.8	3949	100.7	213	243	8.8	1.186	0.0610	48.8	2518	4951		18.5%
Daimler	Car	All	2005	25.0	16.8	23.6	20.1	3869	97.3	201	239	8.8	1.258	0.0613	48.9	2489	4808		18.0%
Daimler	Car	All	2006	24.0	16.1	22.9	19.4	4159	111.8	225	267	8.3	1.207	0.0645	50.4	2713	5699		24.2%
Daimler	Car	All	2007	23.2	15.5	22.4	18.8	4272	108.5	241	295	8.0	1.237	0.0686	49.8	2532	5449		24.8%
Daimler	Car	All	2008	25.3	16.8	24.0	20.3	3998	101.6	219	268	8.4	1.226	0.0652	50.7	2579	5188		28.9%
Daimler	Car	All	2009	25.6	17.0	24.4	20.6	3930	95.1	212	261	8.5	1.229	0.0645	50.6	2464	4845		27.8%
Daimler	Car	All	2010	24.7	16.5	23.6	19.9	4170	106.2	222	273	8.2	1.237	0.0648	51.8	2634	5501		35.4%
Daimler	Car	All	2011	25.1	16.7	24.0	20.2	4139	104.3	218	270	8.2	1.240	0.0647	52.2	2635	5462		37.0%
Daimler	Car	All	2012	28.3	18.6	27.3	22.7	4061	98.2	199	287	7.8	1.480	0.0697	58.0	2815	5748		26.9%
Daimler	Truck	All	1975																
Daimler	Truck	All	1976																
Daimler	Truck	All	1977																
Daimler	Truck	All	1978																
Daimler	Truck	All	1979																
Daimler	Truck	All	1980																
Daimler	Truck	All	1981																
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Daimler	Truck	All	1995																
Daimler	Truck	All	1996																
Daimler	Truck	All	1997																
Daimler	Truck	All	1998	21.3	15.4	19.8	17.4	4500		195	215	10.3	1.103	0.0478	48.0				
Daimler	Truck	All	1999	20.3	14.7	18.6	16.6	5000		216	232	10.7	1.080	0.0464	50.9				31.6%
Daimler	Truck	All	2000	20.4	14.8	18.5	16.6	5500		214	231	11.6	1.084	0.0419	56.3				25.2%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Daimler	Car	All	2003	0.7%	99.3%			100.0%				89.2%	10.8%		10.8%		59.5%	30.0%	10.5%
Daimler	Car	All	2004	1.0%	99.0%			100.0%				83.7%	16.3%		16.3%		59.1%	30.1%	10.8%
Daimler	Car	All	2005	0.6%	99.4%			96.1%		3.9%		64.7%	35.3%		33.2%		69.2%	24.2%	6.6%
Daimler	Car	All	2006	1.1%	98.9%			97.4%		2.6%		35.9%	64.1%		69.2%		54.5%	29.4%	16.1%
Daimler	Car	All	2007	0.6%	99.4%			98.0%		2.0%		2.8%	97.2%		38.4%		46.4%	26.4%	27.3%
Daimler	Car	All	2008	0.2%	89.9%			97.9%		2.1%		0.7%	99.3%		27.3%		63.5%	19.6%	16.8%
Daimler	Car	All	2009	0.1%	89.5%			98.9%		1.1%		2.9%	97.1%		57.5%		76.4%	13.8%	9.8%
Daimler	Car	All	2010	0.3%	97.6%			100.0%				0.3%	99.7%		100.0%	1.0%	47.9%	42.0%	10.1%
Daimler	Car	All	2011	0.1%	98.0%		0.7%	97.2%		2.1%		0.2%	99.8%		99.9%	0.2%	52.6%	41.5%	5.9%
Daimler	Car	All	2012	0.1%	98.0%		74.1%	23.9%		1.9%		0.1%	99.9%		99.2%	1.3%	67.3%	26.5%	6.2%
Daimler	Truck	All	1975																
Daimler	Truck	All	1976																
Daimler	Truck	All	1977																
Daimler	Truck	All	1978																
Daimler	Truck	All	1979																
Daimler	Truck	All	1980																
Daimler	Truck	All	1981																
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Daimler	Truck	All	1993																
Daimler	Truck	All	1994																
Daimler	Truck	All	1995																
Daimler	Truck	All	1996																
Daimler	Truck	All	1997																
Daimler	Truck	All	1998		100.0%			100.0%				100.0%							100.0%
Daimler	Truck	All	1999		100.0%			100.0%				100.0%						68.4%	31.6%
Daimler	Truck	All	2000		100.0%			100.0%				74.8%	25.2%						100.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Daimler	Truck	All	2001	20.8	14.8	19.0	16.8	5500		214	231	11.6	1.085	0.0420	57.2				100.0%
Daimler	Truck	All	2002	19.1	13.7	17.0	15.4	5000		227	237	10.5	1.059	0.0475	47.8				100.0%
Daimler	Truck	All	2003	18.8	13.5	16.6	15.1	5138		239	243	10.5	1.024	0.0472	48.3				100.0%
Daimler	Truck	All	2004	18.8	13.5	16.4	15.0	5535		245	246	11.0	1.007	0.0444	52.0				100.0%
Daimler	Truck	All	2005	18.7	13.3	16.4	14.9	5048		247	252	10.1	1.018	0.0497	47.3				100.0%
Daimler	Truck	All	2006	20.9	14.4	19.2	16.8	5005		233	276	9.2	1.201	0.0551	52.7				100.0%
Daimler	Truck	All	2007	20.2	14.0	18.4	16.2	5290		252	303	8.7	1.204	0.0570	53.9				100.0%
Daimler	Truck	All	2008	20.8	14.3	19.0	16.6	5478		248	298	8.9	1.208	0.0543	57.4				100.0%
Daimler	Truck	All	2009	20.8	14.3	19.0	16.7	5385		244	295	8.9	1.215	0.0547	56.4				94.5%
Daimler	Truck	All	2010	21.4	14.7	19.6	17.2	5121		232	284	8.9	1.231	0.0557	55.1				90.3%
Daimler	Truck	All	2011	21.1	14.5	19.3	16.9	5302		236	288	9.0	1.222	0.0544	56.4				61.6%
Daimler	Truck	All	2012	22.5	15.4	20.6	18.0	5250		229	289	8.6	1.268	0.0555	60.0				100.0%
Daimler	All	All	1975	17.3	13.5	16.5	14.7	3934		205	124	16.0	0.587	0.0306	36.2				
Daimler	All	All	1976	18.6	14.7	17.6	15.9	3924		196	110	17.5	0.550	0.0277	39.0				
Daimler	All	All	1977	19.2	15.4	17.5	16.3	3931	101.0	199	117	17.1	0.571	0.0291	40.1	2119	4100		
Daimler	All	All	1978	18.7	14.7	17.6	15.9	3971	95.9	208	128	15.5	0.606	0.0319	39.8	1979	3884		
Daimler	All	All	1979	20.5	16.4	18.9	17.4	3950	97.0	203	119	16.5	0.569	0.0296	43.7	2236	4359		
Daimler	All	All	1980	23.9	19.5	21.4	20.3	3781	98.0	195	102	17.4	0.512	0.0266	46.4	2462	4632		
Daimler	All	All	1981	25.6	21.1	22.5	21.7	3747	97.5	184	103	17.0	0.551	0.0272	49.3	2625	4901		
Daimler	All	All	1982	26.3	21.5	23.3	22.3	3890	99.2	185	115	15.8	0.613	0.0294	52.6	2745	5328		
Daimler	All	All	1983	26.4	21.4	23.9	22.4	3478	106.5	167	107	15.0	0.638	0.0308	46.7	2878	4973	47.8%	
Daimler	All	All	1984	26.0	20.9	23.8	22.1	3330	106.8	166	114	13.7	0.694	0.0343	44.0	2847	4692	54.4%	
Daimler	All	All	1985	23.1	18.6	21.1	19.6	3700	97.8	195	134	13.1	0.703	0.0364	43.8	2351	4325		
Daimler	All	All	1986	21.1	16.6	19.8	17.9	3686	99.3	226	180	10.4	0.830	0.0484	39.5	2183	3965		
Daimler	All	All	1987	22.0	17.3	20.5	18.6	3648	101.0	218	176	10.4	0.839	0.0481	41.3	2342	4223		
Daimler	All	All	1988	21.1	16.3	19.7	17.8	3650	98.3	218	182	10.1	0.875	0.0496	38.9	2152	3863		
Daimler	All	All	1989	21.2	16.4	19.8	17.8	3743	101.5	215	186	10.1	0.901	0.0495	40.2	2212	4105		
Daimler	All	All	1990	21.2	16.1	20.1	17.8	3829	102.5	204	190	10.2	0.952	0.0493	41.0	2215	4191		0.9%
Daimler	All	All	1991	22.2	16.5	21.3	18.6	3836	99.4	204	188	10.5	0.937	0.0484	43.1	2274	4292		1.6%
Daimler	All	All	1992	21.8	16.1	21.0	18.2	3996	103.5	206	213	10.0	1.023	0.0524	43.9	2315	4552		3.3%
Daimler	All	All	1993	22.7	16.7	21.9	18.9	4147	106.2	206	216	10.0	1.043	0.0515	47.4	2456	5048		1.1%
Daimler	All	All	1994	23.6	17.1	22.8	19.6	4099	103.9	210	228	9.3	1.095	0.0555	48.5	2492	5063		
Daimler	All	All	1995	24.5	17.7	23.7	20.3	4082	104.7	203	218	9.7	1.080	0.0529	50.6	2633	5313		
Daimler	All	All	1996	25.2	17.8	24.7	20.8	4016	104.7	194	200	10.4	1.027	0.0489	50.9	2689	5346		
Daimler	All	All	1997	25.0	17.4	24.9	20.6	4014	105.9	208	225	9.3	1.082	0.0556	50.4	2688	5355		
Daimler	All	All	1998	25.3	17.7	24.4	20.7	4040		192	213	9.7	1.118	0.0526	51.5				

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Daimler	Truck	All	2001		100.0%			100.0%				100.0%							100.0%
Daimler	Truck	All	2002		100.0%			100.0%				100.0%							100.0%
Daimler	Truck	All	2003		100.0%			100.0%				100.0%						1.4%	98.6%
Daimler	Truck	All	2004		100.0%			100.0%				100.0%							100.0%
Daimler	Truck	All	2005		100.0%			100.0%				100.0%							100.0%
Daimler	Truck	All	2006		100.0%			100.0%				100.0%			77.8%				100.0%
Daimler	Truck	All	2007		100.0%			91.5%		8.5%		4.0%	96.0%						100.0%
Daimler	Truck	All	2008		100.0%			83.3%		16.7%		1.6%	98.4%						100.0%
Daimler	Truck	All	2009		100.0%			86.0%		14.0%		5.9%	94.1%		75.0%				100.0%
Daimler	Truck	All	2010		99.0%	1.0%		92.3%		7.7%		0.5%	99.5%		100.0%	1.0%		33.8%	66.2%
Daimler	Truck	All	2011		99.9%	0.1%		88.1%		11.9%		1.2%	98.8%		87.0%	0.1%		16.0%	84.0%
Daimler	Truck	All	2012		100.0%		23.0%	57.4%		19.6%			100.0%		80.4%			33.6%	66.4%
Daimler	All	All	1975	9.5%				38.4%		34.7%							76.1%	23.9%	
Daimler	All	All	1976	5.3%				26.9%		49.5%							89.3%	10.7%	
Daimler	All	All	1977	9.6%				48.1%		49.2%							87.1%	12.9%	
Daimler	All	All	1978	6.3%				48.9%		50.0%							88.8%	11.2%	
Daimler	All	All	1979	8.1%				34.7%		65.3%							85.4%	14.6%	
Daimler	All	All	1980	9.2%				25.3%		74.7%							89.0%	11.0%	
Daimler	All	All	1981	10.5%				23.1%		76.9%							92.3%	7.7%	
Daimler	All	All	1982	9.0%				20.4%		79.6%							89.9%	10.1%	
Daimler	All	All	1983	3.6%				11.7%	18.9%	40.5%							46.5%	53.5%	
Daimler	All	All	1984	2.8%				29.2%	12.7%	25.0%							42.0%	58.0%	
Daimler	All	All	1985	3.2%				61.1%		38.9%							86.7%	13.3%	
Daimler	All	All	1986	3.9%				92.2%		7.8%	98.5%		1.5%				66.7%	33.3%	
Daimler	All	All	1987	1.2%				79.0%		21.0%	99.1%		0.9%				66.8%	33.2%	
Daimler	All	All	1988	0.5%				99.2%		0.8%	100.0%						72.8%	27.2%	
Daimler	All	All	1989	0.4%				99.6%		0.4%	100.0%						73.9%	26.1%	
Daimler	All	All	1990	0.6%				96.5%		3.5%	86.8%		13.2%				72.7%	27.3%	
Daimler	All	All	1991	2.8%				91.8%		8.2%	84.1%		15.9%				76.3%	23.7%	
Daimler	All	All	1992	0.4%				93.9%		6.1%	64.1%		35.9%		31.4%		72.9%	3.6%	23.5%
Daimler	All	All	1993	1.6%				100.0%			34.4%		65.6%		27.6%		70.4%	2.4%	27.2%
Daimler	All	All	1994					98.8%		1.2%	1.2%		98.8%		27.8%		77.8%	4.3%	17.9%
Daimler	All	All	1995					94.4%		5.6%	0.4%		99.6%		23.9%		75.4%	4.6%	20.0%
Daimler	All	All	1996		16.5%			95.7%		4.3%			100.0%		17.1%		49.2%	30.6%	20.1%
Daimler	All	All	1997		100.0%			97.4%		2.6%		11.4%	88.6%		32.2%		36.1%	49.1%	14.8%
Daimler	All	All	1998		100.0%			97.8%		2.2%		61.5%	38.5%		11.8%		40.0%	28.0%	32.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Daimler	All	All	1999	24.4	17.1	23.3	20.0	4171		202	225	9.4	1.132	0.0545	51.2				8.2%
Daimler	All	All	2000	23.6	16.5	22.5	19.3	4390		219	239	9.4	1.113	0.0555	51.8				6.3%
Daimler	All	All	2001	23.9	16.5	22.8	19.4	4266		221	239	9.2	1.091	0.0569	50.8				26.1%
Daimler	All	All	2002	23.2	16.1	21.7	18.8	4120		212	231	9.3	1.109	0.0563	47.9				25.4%
Daimler	All	All	2003	23.4	16.0	22.0	18.9	4098		223	247	8.8	1.141	0.0604	48.3				17.0%
Daimler	All	All	2004	23.7	16.1	22.3	19.1	4131		217	244	9.0	1.166	0.0591	49.2				27.8%
Daimler	All	All	2005	24.1	16.3	22.5	19.3	4001		207	241	8.9	1.231	0.0600	48.7				27.1%
Daimler	All	All	2006	23.4	15.7	22.1	18.8	4323		226	269	8.5	1.206	0.0627	50.8				38.9%
Daimler	All	All	2007	22.4	15.1	21.3	18.1	4516		244	297	8.1	1.229	0.0659	50.8				42.8%
Daimler	All	All	2008	24.0	16.2	22.6	19.3	4351		226	275	8.5	1.221	0.0626	52.3				45.9%
Daimler	All	All	2009	24.3	16.3	23.0	19.5	4263		220	269	8.6	1.226	0.0623	51.9				43.0%
Daimler	All	All	2010	23.6	15.9	22.1	18.9	4474		225	277	8.5	1.235	0.0619	52.8				53.0%
Daimler	All	All	2011	23.7	16.0	22.3	19.1	4501		224	276	8.5	1.235	0.0615	53.5				44.6%
Daimler	All	All	2012	26.7	17.8	25.4	21.4	4335		206	287	8.0	1.431	0.0664	58.4				43.8%
Mazda	Car	Car	1975	15.8	12.2	15.4	13.5	2900		152	129	10.9	0.849	0.0445	22.9				
Mazda	Car	Car	1976	22.0	17.1	21.4	18.8	2870		142	117	12.5	0.804	0.0401	32.3				
Mazda	Car	Car	1977	29.8	23.7	27.7	25.3	2499	83.3	105	79	15.6	0.724	0.0303	38.2	2600	3175		
Mazda	Car	Car	1978	35.8	29.2	32.1	30.4	2261	85.9	79	53	18.0	0.666	0.0234	40.9	3120	3520		
Mazda	Car	Car	1979	24.9	19.2	24.4	21.3	2562	71.0	117	96	13.0	0.806	0.0368	33.0	1985	2445		
Mazda	Car	Car	1980	25.5	19.8	24.8	21.8	2583	78.1	115	80	14.6	0.698	0.0308	33.9	2172	2740		
Mazda	Car	Car	1981	30.9	24.7	28.6	26.3	2449	85.5	113	77	14.3	0.688	0.0318	38.6	2815	3378	38.5%	
Mazda	Car	Car	1982	29.3	23.3	27.2	24.9	2524	81.6	117	79	14.4	0.681	0.0316	37.9	2565	3199	30.7%	
Mazda	Car	Car	1983	28.8	22.6	27.5	24.5	2493	81.4	120	85	13.5	0.714	0.0342	37.6	2625	3246	60.4%	
Mazda	Car	Car	1984	30.1	23.4	29.0	25.6	2549	90.0	118	85	13.8	0.720	0.0332	39.7	2942	3726	75.5%	
Mazda	Car	Car	1985	29.7	23.1	28.7	25.3	2547	88.7	118	85	13.8	0.719	0.0333	39.3	2875	3641	73.1%	
Mazda	Car	Car	1986	29.4	22.6	28.6	25.0	2696	99.0	122	103	12.6	0.838	0.0379	40.3	3021	4026	77.3%	
Mazda	Car	Car	1987	29.0	22.0	28.4	24.6	2727	91.1	123	106	12.5	0.847	0.0383	40.2	2804	3742	75.1%	
Mazda	Car	Car	1988	28.4	21.5	27.5	24.0	2874	100.3	129	114	12.2	0.876	0.0391	41.1	2951	4178	75.4%	
Mazda	Car	Car	1989	29.4	22.2	28.2	24.7	2859	106.5	125	108	12.6	0.858	0.0374	42.2	3187	4522	86.1%	0.0%
Mazda	Car	Car	1990	29.9	22.3	28.8	25.0	2870	95.4	123	114	12.0	0.935	0.0396	43.1	2898	4176	67.2%	0.7%
Mazda	Car	Car	1991	30.2	22.4	28.9	25.2	2866	98.5	122	113	12.1	0.927	0.0393	43.4	3018	4335	75.2%	0.1%
Mazda	Car	Car	1992	30.5	22.6	28.9	25.3	2898	99.6	121	119	11.9	0.976	0.0404	44.2	3075	4446	72.8%	
Mazda	Car	Car	1993	30.1	22.0	28.6	24.9	2890	99.5	125	123	11.5	0.987	0.0424	43.8	3047	4398	83.6%	
Mazda	Car	Car	1994	30.3	22.0	28.8	25.0	2877	100.6	123	119	11.7	0.974	0.0414	43.9	3098	4460	79.8%	
Mazda	Car	Car	1995	30.6	21.9	29.5	25.2	2981	103.4	120	123	11.9	1.028	0.0410	46.0	3226	4791	89.7%	
Mazda	Car	Car	1996	31.5	22.4	29.9	25.8	2895	102.5	115	118	12.0	1.019	0.0406	46.0	3293	4780	89.1%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Daimler	All	All	1999	1.4%	98.6%			97.6%		2.4%		72.6%	27.4%		7.0%		39.9%	45.6%	14.5%
Daimler	All	All	2000	0.4%	99.6%			100.0%				65.7%	34.3%		0.2%		29.5%	24.0%	46.4%
Daimler	All	All	2001	1.7%	98.3%			100.0%				96.6%	3.4%		3.4%		36.9%	25.7%	37.4%
Daimler	All	All	2002	2.4%	97.6%			100.0%				89.6%	10.4%		10.4%		51.4%	14.6%	34.0%
Daimler	All	All	2003	0.6%	99.4%			100.0%				90.8%	9.2%		9.2%		50.8%	25.8%	23.4%
Daimler	All	All	2004	0.9%	99.1%			100.0%				85.6%	14.4%		14.4%		52.3%	26.6%	21.0%
Daimler	All	All	2005	0.6%	99.4%			96.5%		3.5%		68.6%	31.4%		29.5%		61.5%	21.5%	17.0%
Daimler	All	All	2006	0.9%	99.1%			97.9%		2.1%		48.3%	51.7%		70.9%		43.9%	23.7%	32.4%
Daimler	All	All	2007	0.4%	99.6%			96.5%		3.5%		3.1%	96.9%		29.2%		35.3%	20.0%	44.7%
Daimler	All	All	2008	0.2%	92.3%			94.4%		5.6%		0.9%	99.1%		20.8%		48.4%	14.9%	36.7%
Daimler	All	All	2009	0.1%	91.9%			95.9%		4.1%		3.6%	96.4%		61.5%		58.9%	10.7%	30.4%
Daimler	All	All	2010	0.2%	98.0%	0.3%		97.5%		2.5%		0.3%	99.7%		100.0%	1.0%	32.6%	39.4%	28.1%
Daimler	All	All	2011	0.1%	98.6%	0.0%	0.5%	94.4%		5.1%		0.5%	99.5%		95.9%	0.1%	36.3%	33.6%	30.1%
Daimler	All	All	2012	0.1%	98.4%		62.4%	31.6%		6.0%		0.1%	99.9%		94.9%	1.0%	51.8%	28.1%	20.1%
Mazda	Car	Car	1975	50.3%													100.0%		
Mazda	Car	Car	1976	55.6%													100.0%		
Mazda	Car	Car	1977	81.6%													100.0%		
Mazda	Car	Car	1978	75.4%													100.0%		
Mazda	Car	Car	1979	81.5%													100.0%		
Mazda	Car	Car	1980	80.0%													100.0%		
Mazda	Car	Car	1981	78.6%													100.0%		
Mazda	Car	Car	1982	75.8%													100.0%		
Mazda	Car	Car	1983	78.7%													100.0%		
Mazda	Car	Car	1984	70.8%	2.1%				5.5%	0.6%							100.0%		
Mazda	Car	Car	1985	68.5%	3.5%			3.9%		0.6%							100.0%		
Mazda	Car	Car	1986	64.6%	4.0%			100.0%			100.0%						100.0%		
Mazda	Car	Car	1987	62.3%	23.8%			100.0%			100.0%						100.0%		
Mazda	Car	Car	1988	54.4%	45.6%			100.0%			48.8%	49.8%	1.3%				50.2%	49.8%	
Mazda	Car	Car	1989	47.3%	52.7%			100.0%			41.8%	58.2%	0.0%				41.8%	58.2%	
Mazda	Car	Car	1990	54.8%	45.2%			100.0%			27.5%	40.2%	32.3%				54.4%	45.6%	
Mazda	Car	Car	1991	51.4%	48.6%			100.0%			26.7%	43.3%	30.0%				52.9%	47.1%	
Mazda	Car	Car	1992	45.2%	54.8%			100.0%			16.6%	16.2%	67.2%				69.8%	30.2%	
Mazda	Car	Car	1993	43.7%	56.3%			100.0%			20.8%		79.2%				58.6%	41.4%	
Mazda	Car	Car	1994	35.9%	64.1%			100.0%			1.3%		98.7%				63.8%	36.2%	
Mazda	Car	Car	1995	25.6%	74.4%			100.0%			0.5%		99.5%				64.0%	36.0%	
Mazda	Car	Car	1996	30.6%	69.4%			100.0%					100.0%				55.7%	44.3%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Mazda	Car	Car	1997	30.8	21.8	29.1	25.1	2914	103.1	116	119	12.0	1.022	0.0406	45.2	3222	4710	89.4%	
Mazda	Car	Car	1998	30.0	21.1	28.2	24.4	3018	109.9	118	125	11.9	1.050	0.0409	45.4	3331	4985	100.0%	
Mazda	Car	Car	1999	30.2	21.3	27.9	24.4	2926	100.1	118	129	11.2	1.089	0.0441	44.2	3044	4477	100.0%	
Mazda	Car	Car	2000	30.0	21.1	27.5	24.1	2955	103.1	118	129	11.2	1.092	0.0435	44.5	3124	4611	91.5%	
Mazda	Car	Car	2001	29.3	20.5	26.8	23.5	3036	100.3	123	135	11.0	1.098	0.0444	44.6	2964	4503	86.6%	
Mazda	Car	Car	2002	29.6	20.5	26.7	23.6	3076	105.0	127	138	10.9	1.088	0.0447	45.6	3124	4806	92.5%	
Mazda	Car	Car	2003	30.0	20.6	27.0	23.8	3160	105.1	134	152	10.4	1.127	0.0477	47.4	3167	5019	91.8%	
Mazda	Car	Car	2004	28.1	19.2	25.7	22.4	3282	106.2	150	183	9.3	1.220	0.0554	46.5	3047	4981	75.2%	
Mazda	Car	Car	2005	29.5	20.0	26.6	23.3	3233	108.4	135	171	9.6	1.332	0.0527	48.0	3246	5228	87.4%	
Mazda	Car	Car	2006	30.7	20.6	28.0	24.3	3183	103.4	138	173	9.3	1.284	0.0543	49.1	3217	5130	81.9%	3.7%
Mazda	Car	Car	2007	31.4	21.1	28.5	24.8	3167	106.0	133	166	9.6	1.269	0.0524	49.9	3366	5333	88.9%	1.1%
Mazda	Car	Car	2008	32.0	21.5	28.9	25.2	3133	105.5	131	162	9.8	1.245	0.0517	50.2	3399	5344	90.5%	
Mazda	Car	Car	2009	31.2	20.9	28.6	24.7	3292	110.1	144	175	9.6	1.250	0.0530	51.6	3470	5714	92.3%	
Mazda	Car	Car	2010	33.4	22.3	30.5	26.3	3246	109.0	138	164	9.9	1.192	0.0504	54.3	3669	5950	96.1%	
Mazda	Car	Car	2011	34.5	23.0	31.2	27.0	3127	107.2	130	154	10.2	1.185	0.0489	53.9	3723	5811	95.8%	
Mazda	Car	Car	2012	34.7	23.1	31.3	27.1	3226	112.3	137	159	10.1	1.166	0.0492	56.3	3940	6356	96.3%	
Mazda	Car	Wagon	1975	18.2	14.1	17.6	15.5	2749		131	105	13.0	0.781	0.0374	25.8				
Mazda	Car	Wagon	1976	21.8	17.0	20.9	18.6	2820		137	111	12.8	0.795	0.0388	31.3				
Mazda	Car	Wagon	1977	27.6	21.7	26.2	23.5	2638	101.0	107	79	16.0	0.714	0.0292	37.6	2880	3772		
Mazda	Car	Wagon	1978	20.5	16.1	19.7	17.5	3000	114.0	160	135	10.8	0.844	0.0450	31.0	2353	3529		
Mazda	Car	Wagon	1979	31.4	25.0	29.2	26.7	2500	107.5	86	64	16.8	0.742	0.0255	39.4	3388	4234		
Mazda	Car	Wagon	1980	32.0	25.5	29.6	27.2	2327	107.5	86	65	15.6	0.756	0.0280	37.3	3459	4010		
Mazda	Car	Wagon	1981	33.2	26.7	30.3	28.2	2441	107.5	91	68	15.6	0.747	0.0279	40.7	3588	4377		
Mazda	Car	Wagon	1982	33.3	26.8	30.4	28.3	2475	109.7	91	67	16.0	0.739	0.0272	41.4	3676	4547		
Mazda	Car	Wagon	1983	31.2	25.5	27.9	26.5	2497	109.7	91	63	16.9	0.692	0.0252	39.3	3453	4311		
Mazda	Car	Wagon	1984	27.8	23.1	24.1	23.5	2452	109.7	91	64	16.7	0.703	0.0262	34.1	3063	3745		
Mazda	Car	Wagon	1985	27.7	23.1	24.1	23.5	2457	109.7	91	64	16.7	0.703	0.0261	34.2	3058	3749		
Mazda	Car	Wagon	1986	29.2	23.7	25.9	24.7	2489	117.9	91	64	16.7	0.703	0.0257	36.6	3470	4316		
Mazda	Car	Wagon	1987	33.6	26.0	31.8	28.4	2500	117.9	98	83	13.7	0.847	0.0332	42.1	3975	4969	100.0%	
Mazda	Car	Wagon	1988	32.0	24.8	29.6	26.9	2500	117.9	98	82	13.9	0.837	0.0328	40.3	3798	4748	100.0%	
Mazda	Car	Wagon	1989	31.0	23.9	28.5	25.9	2500	117.9	98	82	13.9	0.837	0.0328	38.9	3667	4584	100.0%	
Mazda	Car	Wagon	1990																
Mazda	Car	Wagon	1991																
Mazda	Car	Wagon	1992																
Mazda	Car	Wagon	1993																
Mazda	Car	Wagon	1994																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Mazda	Car	Car	1997	28.2%	71.8%			100.0%					100.0%				54.5%	45.5%	
Mazda	Car	Car	1998	16.7%	83.3%			100.0%					100.0%				46.7%	53.3%	
Mazda	Car	Car	1999	23.6%	76.4%			100.0%					100.0%				58.3%	41.7%	
Mazda	Car	Car	2000	20.2%	79.8%			100.0%					100.0%				59.8%	40.2%	
Mazda	Car	Car	2001	20.0%	80.0%			100.0%					100.0%				62.0%	38.0%	
Mazda	Car	Car	2002	22.3%	77.7%			100.0%					100.0%				72.9%	27.1%	
Mazda	Car	Car	2003	29.1%	70.9%			100.0%					100.0%		36.1%		63.9%	36.1%	
Mazda	Car	Car	2004	34.1%	65.9%			100.0%			18.6%		81.4%		79.7%		63.3%	35.0%	1.7%
Mazda	Car	Car	2005	25.2%	74.8%			100.0%			10.2%		89.8%		89.8%		62.5%	37.5%	
Mazda	Car	Car	2006	31.0%	69.0%			100.0%			3.4%		96.6%		96.6%		65.1%	34.9%	
Mazda	Car	Car	2007	23.6%	76.4%			100.0%			3.0%		97.0%		97.0%		70.3%	29.7%	
Mazda	Car	Car	2008	22.2%	77.8%		4.2%	95.8%			1.1%		98.9%		98.9%		72.7%	27.3%	
Mazda	Car	Car	2009	18.9%	81.1%		3.0%	97.0%			3.2%		96.8%		96.8%		55.2%	44.8%	
Mazda	Car	Car	2010	16.8%	83.2%		2.6%	97.4%			0.6%		99.4%		99.4%		76.0%	24.0%	
Mazda	Car	Car	2011	15.4%	84.6%		2.1%	97.9%			0.5%		99.5%		99.5%		80.6%	19.4%	
Mazda	Car	Car	2012	17.4%	82.6%		16.8%	83.2%					100.0%		100.0%		62.6%	23.2%	14.2%
Mazda	Car	Wagon	1975	69.2%													100.0%		
Mazda	Car	Wagon	1976	43.9%													100.0%		
Mazda	Car	Wagon	1977	76.6%													100.0%		
Mazda	Car	Wagon	1978	56.1%													100.0%		
Mazda	Car	Wagon	1979	70.9%													100.0%		
Mazda	Car	Wagon	1980	69.3%													100.0%		
Mazda	Car	Wagon	1981	73.3%													100.0%		
Mazda	Car	Wagon	1982	68.3%													100.0%		
Mazda	Car	Wagon	1983	61.1%													100.0%		
Mazda	Car	Wagon	1984	24.6%													100.0%		
Mazda	Car	Wagon	1985	23.9%													100.0%		
Mazda	Car	Wagon	1986	52.8%							100.0%						100.0%		
Mazda	Car	Wagon	1987	58.8%				100.0%			100.0%						100.0%		
Mazda	Car	Wagon	1988	40.0%				100.0%			100.0%						100.0%		
Mazda	Car	Wagon	1989	19.9%				100.0%			100.0%						100.0%		
Mazda	Car	Wagon	1990																
Mazda	Car	Wagon	1991																
Mazda	Car	Wagon	1992																
Mazda	Car	Wagon	1993																
Mazda	Car	Wagon	1994																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Mazda	Car	Wagon	1995																
Mazda	Car	Wagon	1996																
Mazda	Car	Wagon	1997																
Mazda	Car	Wagon	1998																
Mazda	Car	Wagon	1999																
Mazda	Car	Wagon	2000																
Mazda	Car	Wagon	2001																
Mazda	Car	Wagon	2002																
Mazda	Car	Wagon	2003																
Mazda	Car	Wagon	2004	25.4	17.0	24.4	20.5	3500	131.6	183	218	8.3	1.191	0.0623	44.4	3338	5841	100.0%	
Mazda	Car	Wagon	2005	26.4	17.5	25.2	21.2	3500	131.6	183	218	8.3	1.191	0.0623	46.2	3475	6081	100.0%	
Mazda	Car	Wagon	2006	27.2	18.7	24.2	21.5	3500	141.4	143	161	10.6	1.125	0.0460	47.6	3850	6738	100.0%	
Mazda	Car	Wagon	2007	27.2	18.7	24.1	21.5	3500	141.8	141	159	10.6	1.123	0.0454	47.6	3857	6750	100.0%	
Mazda	Car	Wagon	2008																
Mazda	Car	Wagon	2009																
Mazda	Car	Wagon	2010																
Mazda	Car	Wagon	2011																
Mazda	Car	Wagon	2012																
Mazda	Car	Non-Truck SUV	1975																
Mazda	Car	Non-Truck SUV	1976																
Mazda	Car	Non-Truck SUV	1977																
Mazda	Car	Non-Truck SUV	1978																
Mazda	Car	Non-Truck SUV	1979																
Mazda	Car	Non-Truck SUV	1980																
Mazda	Car	Non-Truck SUV	1981																
Mazda	Car	Non-Truck SUV	1982																
Mazda	Car	Non-Truck SUV	1983																
Mazda	Car	Non-Truck SUV	1984																
Mazda	Car	Non-Truck SUV	1985																
Mazda	Car	Non-Truck SUV	1986																
Mazda	Car	Non-Truck SUV	1987																
Mazda	Car	Non-Truck SUV	1988																
Mazda	Car	Non-Truck SUV	1989																
Mazda	Car	Non-Truck SUV	1990																
Mazda	Car	Non-Truck SUV	1991																
Mazda	Car	Non-Truck SUV	1992	21.4	15.8	20.6	17.9	4000	125.0	231	170	11.3	0.736	0.0425	42.8	2676	5352		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Mazda	Car	Wagon	1995																
Mazda	Car	Wagon	1996																
Mazda	Car	Wagon	1997																
Mazda	Car	Wagon	1998																
Mazda	Car	Wagon	1999																
Mazda	Car	Wagon	2000																
Mazda	Car	Wagon	2001																
Mazda	Car	Wagon	2002																
Mazda	Car	Wagon	2003																
Mazda	Car	Wagon	2004	7.9%	92.1%			100.0%					100.0%		100.0%			100.0%	
Mazda	Car	Wagon	2005	12.2%	87.8%			100.0%					100.0%		100.0%			100.0%	
Mazda	Car	Wagon	2006	9.8%	90.2%			100.0%					100.0%		7.2%			100.0%	
Mazda	Car	Wagon	2007	5.8%	94.2%			100.0%					100.0%		100.0%			100.0%	
Mazda	Car	Wagon	2008																
Mazda	Car	Wagon	2009																
Mazda	Car	Wagon	2010																
Mazda	Car	Wagon	2011																
Mazda	Car	Wagon	2012																
Mazda	Car	Non-Truck SUV	1975																
Mazda	Car	Non-Truck SUV	1976																
Mazda	Car	Non-Truck SUV	1977																
Mazda	Car	Non-Truck SUV	1978																
Mazda	Car	Non-Truck SUV	1979																
Mazda	Car	Non-Truck SUV	1980																
Mazda	Car	Non-Truck SUV	1981																
Mazda	Car	Non-Truck SUV	1982																
Mazda	Car	Non-Truck SUV	1983																
Mazda	Car	Non-Truck SUV	1984																
Mazda	Car	Non-Truck SUV	1985																
Mazda	Car	Non-Truck SUV	1986																
Mazda	Car	Non-Truck SUV	1987																
Mazda	Car	Non-Truck SUV	1988																
Mazda	Car	Non-Truck SUV	1989																
Mazda	Car	Non-Truck SUV	1990																
Mazda	Car	Non-Truck SUV	1991																
Mazda	Car	Non-Truck SUV	1992	31.5%	68.5%			100.0%			100.0%							100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Mazda	Car	Non-Truck SUV	1993	21.8	15.9	21.1	18.2	4000	125.0	231	170	11.3	0.736	0.0425	43.6	2728	5456		
Mazda	Car	Non-Truck SUV	1994	21.4	15.6	20.6	17.8	4000	125.0	231	170	11.3	0.736	0.0425	42.9	2684	5367		
Mazda	Car	Non-Truck SUV	1995																
Mazda	Car	Non-Truck SUV	1996																
Mazda	Car	Non-Truck SUV	1997																
Mazda	Car	Non-Truck SUV	1998																
Mazda	Car	Non-Truck SUV	1999																
Mazda	Car	Non-Truck SUV	2000																
Mazda	Car	Non-Truck SUV	2001	24.6	17.0	23.4	20.0	3500	125.0	176	193	9.3	1.095	0.0550	43.3	3090	5407	100.0%	
Mazda	Car	Non-Truck SUV	2002	25.1	17.4	23.4	20.2	3500	125.0	178	195	9.2	1.097	0.0557	44.0	3141	5497	100.0%	
Mazda	Car	Non-Truck SUV	2003	25.2	17.2	23.6	20.3	3500	125.0	179	196	9.1	1.097	0.0561	44.1	3149	5511	100.0%	
Mazda	Car	Non-Truck SUV	2004	25.2	17.1	23.6	20.2	3500	125.0	178	195	9.2	1.097	0.0558	44.2	3155	5522	100.0%	
Mazda	Car	Non-Truck SUV	2005	26.5	18.3	23.3	20.9	3500	125.0	164	180	9.8	1.096	0.0515	46.5	3323	5816	100.0%	
Mazda	Car	Non-Truck SUV	2006	27.2	18.9	23.5	21.3	3500	125.0	156	171	10.3	1.095	0.0487	47.7	3406	5960	100.0%	
Mazda	Car	Non-Truck SUV	2007	24.2	16.5	22.1	19.3	4000	125.0	140	244	8.5	1.743	0.0610	48.4	3022	6045	100.0%	
Mazda	Car	Non-Truck SUV	2008	26.6	18.1	24.0	21.1	3767	125.0	143	204	9.5	1.433	0.0538	50.2	3345	6275	100.0%	
Mazda	Car	Non-Truck SUV	2009	26.9	18.4	24.1	21.3	3839	125.0	145	221	9.0	1.537	0.0574	51.9	3393	6485	100.0%	
Mazda	Car	Non-Truck SUV	2010	29.4	19.7	27.2	23.4	3564	125.0	151	173	10.3	1.148	0.0483	52.4	3685	6555	100.0%	
Mazda	Car	Non-Truck SUV	2011	29.7	19.9	27.4	23.6	3518	125.0	153	165	10.5	1.082	0.0468	52.3	3718	6536	100.0%	
Mazda	Car	Non-Truck SUV	2012	29.3	19.6	26.5	23.0	4000	125.0	152	168	11.6	1.108	0.0419	58.7	3669	7337	100.0%	
Mazda	Truck	Van	1975																
Mazda	Truck	Van	1976																
Mazda	Truck	Van	1977																
Mazda	Truck	Van	1978																
Mazda	Truck	Van	1979																
Mazda	Truck	Van	1980																
Mazda	Truck	Van	1981																
Mazda	Truck	Van	1982																
Mazda	Truck	Van	1983																
Mazda	Truck	Van	1984																
Mazda	Truck	Van	1985																
Mazda	Truck	Van	1986																
Mazda	Truck	Van	1987																
Mazda	Truck	Van	1988																
Mazda	Truck	Van	1989	22.5	16.9	22.0	19.0	3998		174	142	13.1	0.814	0.0356	45.1				4.8%
Mazda	Truck	Van	1990	20.2	15.3	19.3	17.0	4000		177	147	12.8	0.825	0.0366	40.6				88.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Mazda	Car	Non-Truck SUV	1993	24.6%	75.4%			100.0%			100.0%							100.0%	
Mazda	Car	Non-Truck SUV	1994	31.7%	68.3%			100.0%			100.0%							100.0%	
Mazda	Car	Non-Truck SUV	1995																
Mazda	Car	Non-Truck SUV	1996																
Mazda	Car	Non-Truck SUV	1997																
Mazda	Car	Non-Truck SUV	1998																
Mazda	Car	Non-Truck SUV	1999																
Mazda	Car	Non-Truck SUV	2000																
Mazda	Car	Non-Truck SUV	2001	10.6%	89.4%			100.0%					100.0%					100.0%	
Mazda	Car	Non-Truck SUV	2002	7.1%	92.9%			100.0%					100.0%					100.0%	
Mazda	Car	Non-Truck SUV	2003	5.3%	94.7%			100.0%					100.0%					100.0%	
Mazda	Car	Non-Truck SUV	2004	6.6%	93.4%			100.0%					100.0%					100.0%	
Mazda	Car	Non-Truck SUV	2005	5.6%	94.4%			100.0%					100.0%					100.0%	
Mazda	Car	Non-Truck SUV	2006	7.8%	92.2%			100.0%					100.0%					100.0%	
Mazda	Car	Non-Truck SUV	2007		100.0%			100.0%					100.0%		100.0%			100.0%	
Mazda	Car	Non-Truck SUV	2008	2.8%	96.2%	1.0%	52.4%	47.6%					100.0%		100.0%	1.0%		100.0%	
Mazda	Car	Non-Truck SUV	2009	2.9%	95.6%	1.5%	66.3%	33.7%					100.0%		100.0%	1.5%		100.0%	
Mazda	Car	Non-Truck SUV	2010	0.4%	99.5%	0.0%	12.7%	87.3%					100.0%		100.0%	0.0%		100.0%	
Mazda	Car	Non-Truck SUV	2011	0.4%	99.6%		3.6%	96.4%					100.0%		100.0%			100.0%	
Mazda	Car	Non-Truck SUV	2012		100.0%		8.1%	91.9%					100.0%		100.0%			100.0%	
Mazda	Truck	Van	1975																
Mazda	Truck	Van	1976																
Mazda	Truck	Van	1977																
Mazda	Truck	Van	1978																
Mazda	Truck	Van	1979																
Mazda	Truck	Van	1980																
Mazda	Truck	Van	1981																
Mazda	Truck	Van	1982																
Mazda	Truck	Van	1983																
Mazda	Truck	Van	1984																
Mazda	Truck	Van	1985																
Mazda	Truck	Van	1986																
Mazda	Truck	Van	1987																
Mazda	Truck	Van	1988																
Mazda	Truck	Van	1989	5.7%	94.3%			100.0%										100.0%	
Mazda	Truck	Van	1990	3.5%	96.5%			100.0%										100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Mazda	Truck	Van	1991	20.3	15.2	19.3	17.0	3999		177	146	12.8	0.824	0.0365	40.8				86.7%
Mazda	Truck	Van	1992	21.3	15.7	20.6	17.8	4081		179	153	12.6	0.855	0.0375	43.5				16.3%
Mazda	Truck	Van	1993	21.4	15.7	20.7	17.9	4050		180	155	12.3	0.861	0.0383	43.4				10.1%
Mazda	Truck	Van	1994	21.3	15.5	20.7	17.7	4067		179	151	12.7	0.841	0.0371	43.4				95.5%
Mazda	Truck	Van	1995	20.9	15.1	20.1	17.3	4089		180	152	12.6	0.844	0.0372	42.7				100.0%
Mazda	Truck	Van	1996	20.8	15.0	20.0	17.2	4133		180	152	12.7	0.844	0.0369	42.9				26.6%
Mazda	Truck	Van	1997	20.5	14.8	19.5	16.9	4178		180	152	12.8	0.844	0.0365	42.9				35.6%
Mazda	Truck	Van	1998	20.0	14.4	18.9	16.4	4287		180	152	13.1	0.844	0.0356	42.9				57.4%
Mazda	Truck	Van	1999																
Mazda	Truck	Van	2000	23.1	16.3	21.4	18.7	4000		152	170	11.3	1.118	0.0425	46.2			100.0%	
Mazda	Truck	Van	2001	23.2	16.3	21.4	18.7	4000		152	160	11.9	1.053	0.0400	46.3			100.0%	
Mazda	Truck	Van	2002	23.7	16.2	22.9	19.3	4000		183	200	10.0	1.093	0.0500	47.4			100.0%	
Mazda	Truck	Van	2003	23.8	16.1	22.9	19.3	4000		183	200	10.0	1.093	0.0500	47.5			100.0%	
Mazda	Truck	Van	2004	23.7	16.0	22.8	19.2	4000		183	200	10.0	1.093	0.0500	47.5			100.0%	
Mazda	Truck	Van	2005	23.7	15.8	22.6	19.1	4000		183	200	10.0	1.093	0.0500	47.4			100.0%	
Mazda	Truck	Van	2006	23.6	15.8	22.5	19.0	4000		183	200	10.0	1.093	0.0500	47.2			100.0%	
Mazda	Truck	Van	2007																
Mazda	Truck	Van	2008	30.7	20.9	27.3	24.1	3500		140	153	11.1	1.093	0.0437	53.7			100.0%	
Mazda	Truck	Van	2009	30.3	20.7	26.8	23.8	3500		140	153	11.1	1.093	0.0437	53.0			100.0%	
Mazda	Truck	Van	2010	30.7	20.9	27.3	24.1	3500		140	153	11.1	1.093	0.0437	53.7			100.0%	
Mazda	Truck	Van	2011																
Mazda	Truck	Van	2012																
Mazda	Truck	Truck SUV	1975																
Mazda	Truck	Truck SUV	1976																
Mazda	Truck	Truck SUV	1977																
Mazda	Truck	Truck SUV	1978																
Mazda	Truck	Truck SUV	1979																
Mazda	Truck	Truck SUV	1980																
Mazda	Truck	Truck SUV	1981																
Mazda	Truck	Truck SUV	1982																
Mazda	Truck	Truck SUV	1983																
Mazda	Truck	Truck SUV	1984																
Mazda	Truck	Truck SUV	1985																
Mazda	Truck	Truck SUV	1986																
Mazda	Truck	Truck SUV	1987																
Mazda	Truck	Truck SUV	1988																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Mazda	Truck	Van	1991	2.4%	97.6%			100.0%										100.0%	
Mazda	Truck	Van	1992		100.0%			100.0%										100.0%	
Mazda	Truck	Van	1993		100.0%			100.0%										100.0%	
Mazda	Truck	Van	1994		100.0%			100.0%				100.0%						100.0%	
Mazda	Truck	Van	1995		100.0%			100.0%				100.0%						100.0%	
Mazda	Truck	Van	1996		100.0%			100.0%				100.0%						100.0%	
Mazda	Truck	Van	1997		100.0%			100.0%				100.0%						100.0%	
Mazda	Truck	Van	1998		100.0%			100.0%					100.0%					100.0%	
Mazda	Truck	Van	1999																
Mazda	Truck	Van	2000		100.0%			100.0%					100.0%					100.0%	
Mazda	Truck	Van	2001		100.0%			100.0%					100.0%					100.0%	
Mazda	Truck	Van	2002		100.0%			100.0%					100.0%		100.0%			100.0%	
Mazda	Truck	Van	2003		100.0%			100.0%					100.0%		100.0%			100.0%	
Mazda	Truck	Van	2004		100.0%			100.0%					100.0%		100.0%			100.0%	
Mazda	Truck	Van	2005		100.0%			100.0%					100.0%					100.0%	
Mazda	Truck	Van	2006		100.0%			100.0%					100.0%		100.0%			100.0%	
Mazda	Truck	Van	2007																
Mazda	Truck	Van	2008	4.9%	95.1%			100.0%					100.0%		100.0%		100.0%		
Mazda	Truck	Van	2009	4.8%	95.2%			100.0%					100.0%		100.0%		100.0%		
Mazda	Truck	Van	2010	6.7%	93.3%			100.0%					100.0%		100.0%		100.0%		
Mazda	Truck	Van	2011																
Mazda	Truck	Van	2012																
Mazda	Truck	Truck SUV	1975																
Mazda	Truck	Truck SUV	1976																
Mazda	Truck	Truck SUV	1977																
Mazda	Truck	Truck SUV	1978																
Mazda	Truck	Truck SUV	1979																
Mazda	Truck	Truck SUV	1980																
Mazda	Truck	Truck SUV	1981																
Mazda	Truck	Truck SUV	1982																
Mazda	Truck	Truck SUV	1983																
Mazda	Truck	Truck SUV	1984																
Mazda	Truck	Truck SUV	1985																
Mazda	Truck	Truck SUV	1986																
Mazda	Truck	Truck SUV	1987																
Mazda	Truck	Truck SUV	1988																

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Mazda	Truck	Truck SUV	1989																
Mazda	Truck	Truck SUV	1990																
Mazda	Truck	Truck SUV	1991	20.5	15.2	19.8	17.2	4330		231	170	12.0	0.736	0.0394	44.3				100.0%
Mazda	Truck	Truck SUV	1992	20.5	15.3	19.5	17.1	4500		231	170	12.4	0.736	0.0378	46.2				100.0%
Mazda	Truck	Truck SUV	1993	20.6	15.1	19.7	17.1	4500		231	170	12.4	0.736	0.0378	46.3				100.0%
Mazda	Truck	Truck SUV	1994	20.3	14.9	19.4	16.9	4383		231	170	12.2	0.736	0.0389	44.6				100.0%
Mazda	Truck	Truck SUV	1995																
Mazda	Truck	Truck SUV	1996																
Mazda	Truck	Truck SUV	1997																
Mazda	Truck	Truck SUV	1998																
Mazda	Truck	Truck SUV	1999																
Mazda	Truck	Truck SUV	2000																
Mazda	Truck	Truck SUV	2001	23.6	16.4	22.3	19.2	3500		180	197	9.1	1.098	0.0563	41.3				100.0%
Mazda	Truck	Truck SUV	2002	23.8	16.5	22.2	19.2	3500		180	198	9.0	1.098	0.0566	41.7				100.0%
Mazda	Truck	Truck SUV	2003	23.6	16.2	22.0	19.0	3500		181	199	9.0	1.098	0.0569	41.4				100.0%
Mazda	Truck	Truck SUV	2004	23.7	16.2	21.8	19.0	3500		181	199	9.0	1.098	0.0568	41.4				100.0%
Mazda	Truck	Truck SUV	2005	24.0	16.8	21.2	19.0	3916		175	192	10.1	1.098	0.0489	47.1				100.0%
Mazda	Truck	Truck SUV	2006	24.8	17.3	21.8	19.6	3850		169	186	10.3	1.096	0.0480	47.8				100.0%
Mazda	Truck	Truck SUV	2007	23.2	15.7	21.6	18.6	4211		171	252	8.6	1.526	0.0599	48.9			22.0%	78.0%
Mazda	Truck	Truck SUV	2008	23.5	16.0	21.6	18.8	4303		199	256	8.7	1.324	0.0593	50.5			31.4%	68.6%
Mazda	Truck	Truck SUV	2009	23.1	15.7	21.5	18.5	4357		202	263	8.6	1.343	0.0604	50.4			31.1%	68.9%
Mazda	Truck	Truck SUV	2010	23.2	15.7	21.6	18.6	4408		211	266	8.6	1.292	0.0604	51.1			37.4%	62.6%
Mazda	Truck	Truck SUV	2011	24.6	16.7	22.6	19.6	4423		215	268	8.5	1.263	0.0605	54.5			37.5%	62.5%
Mazda	Truck	Truck SUV	2012	24.6	16.6	22.7	19.6	4469		221	271	8.5	1.241	0.0607	55.0			43.4%	56.6%
Mazda	Truck	Pickup	1975	16.8	12.8	17.0	14.4	3000		85	114	13.2	1.391	0.0381	25.8				
Mazda	Truck	Pickup	1976	18.2	13.9	18.2	15.5	3000		86	110	13.7	1.329	0.0367	28.0				
Mazda	Truck	Pickup	1977	24.5	18.9	24.0	20.9	3000		96	98	14.9	1.098	0.0326	39.0				
Mazda	Truck	Pickup	1978	31.7	25.5	29.0	26.9	3000		110	67	18.5	0.607	0.0223	47.7				
Mazda	Truck	Pickup	1979	30.2	23.9	28.2	25.7	3000		120	72	17.4	0.600	0.0240	45.3				
Mazda	Truck	Pickup	1980	30.1	23.8	28.2	25.6	2907		120	76	16.3	0.633	0.0262	43.8				
Mazda	Truck	Pickup	1981	31.0	24.3	29.4	26.4	2885		120	76	16.2	0.634	0.0264	44.7				
Mazda	Truck	Pickup	1982	31.6	25.0	29.7	26.9	2921		123	72	17.2	0.588	0.0247	46.3				
Mazda	Truck	Pickup	1983	30.6	24.1	28.9	26.1	2908		121	75	16.6	0.621	0.0258	44.6				
Mazda	Truck	Pickup	1984	29.7	23.5	27.9	25.3	2860		120	77	16.0	0.639	0.0269	42.7				
Mazda	Truck	Pickup	1985																
Mazda	Truck	Pickup	1986	27.7	21.4	26.7	23.6	3000		122	80	16.0	0.656	0.0267	41.6				

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Mazda	Truck	Truck SUV	1989																
Mazda	Truck	Truck SUV	1990																
Mazda	Truck	Truck SUV	1991	34.1%	65.9%			100.0%										100.0%	
Mazda	Truck	Truck SUV	1992	46.0%	54.0%			100.0%										100.0%	
Mazda	Truck	Truck SUV	1993	32.1%	67.9%			100.0%										100.0%	
Mazda	Truck	Truck SUV	1994	23.4%	76.6%			100.0%			100.0%							100.0%	
Mazda	Truck	Truck SUV	1995																
Mazda	Truck	Truck SUV	1996																
Mazda	Truck	Truck SUV	1997																
Mazda	Truck	Truck SUV	1998																
Mazda	Truck	Truck SUV	1999																
Mazda	Truck	Truck SUV	2000																
Mazda	Truck	Truck SUV	2001	4.1%	95.9%			100.0%					100.0%					100.0%	
Mazda	Truck	Truck SUV	2002	2.9%	97.1%			100.0%					100.0%					100.0%	
Mazda	Truck	Truck SUV	2003	1.2%	98.8%			100.0%					100.0%					100.0%	
Mazda	Truck	Truck SUV	2004	1.7%	98.3%			100.0%					100.0%					100.0%	
Mazda	Truck	Truck SUV	2005	0.9%	99.1%			100.0%					100.0%					100.0%	
Mazda	Truck	Truck SUV	2006	4.4%	95.1%	0.5%		100.0%					100.0%			0.5%		100.0%	
Mazda	Truck	Truck SUV	2007		100.0%			100.0%					100.0%		100.0%			57.9%	42.1%
Mazda	Truck	Truck SUV	2008		99.9%	0.1%	23.9%	76.1%					100.0%		100.0%	0.1%		34.3%	65.7%
Mazda	Truck	Truck SUV	2009		99.8%	0.2%	25.3%	74.7%					100.0%		96.9%	0.2%		28.6%	71.4%
Mazda	Truck	Truck SUV	2010		100.0%	0.0%	15.7%	84.3%					100.0%		100.0%	0.0%		18.5%	81.5%
Mazda	Truck	Truck SUV	2011		100.0%		10.4%	89.6%					100.0%		100.0%			13.3%	86.7%
Mazda	Truck	Truck SUV	2012		100.0%		6.3%	93.7%					100.0%		100.0%			6.3%	93.7%
Mazda	Truck	Pickup	1975	77.4%													100.0%		
Mazda	Truck	Pickup	1976	87.7%													100.0%		
Mazda	Truck	Pickup	1977	93.2%													45.5%	54.5%	
Mazda	Truck	Pickup	1978	100.0%														100.0%	
Mazda	Truck	Pickup	1979	100.0%														100.0%	
Mazda	Truck	Pickup	1980	100.0%														100.0%	
Mazda	Truck	Pickup	1981	100.0%														100.0%	
Mazda	Truck	Pickup	1982	100.0%						22.4%								100.0%	
Mazda	Truck	Pickup	1983	97.0%						5.1%								100.0%	
Mazda	Truck	Pickup	1984	91.5%						1.9%								100.0%	
Mazda	Truck	Pickup	1985																
Mazda	Truck	Pickup	1986	100.0%														100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Mazda	Truck	Pickup	1987	26.2	20.2	25.1	22.2	3062		131	85	15.7	0.648	0.0276	40.3				12.0%
Mazda	Truck	Pickup	1988	26.4	20.2	25.1	22.2	3030		135	86	15.3	0.639	0.0284	40.0				6.1%
Mazda	Truck	Pickup	1989	26.2	20.0	24.7	22.0	3055		136	89	15.1	0.653	0.0290	40.0				11.0%
Mazda	Truck	Pickup	1990	25.9	19.7	24.1	21.6	3116		140	95	14.7	0.675	0.0303	40.4				12.4%
Mazda	Truck	Pickup	1991	25.6	19.5	23.8	21.4	3166		142	98	14.5	0.687	0.0309	40.6				13.0%
Mazda	Truck	Pickup	1992	25.6	19.3	23.6	21.2	3178		142	98	14.6	0.684	0.0306	40.6				15.0%
Mazda	Truck	Pickup	1993	25.9	19.4	23.9	21.4	3091		137	91	15.0	0.663	0.0295	40.1				16.5%
Mazda	Truck	Pickup	1994	24.5	18.0	23.1	20.2	3573		181	136	12.5	0.749	0.0377	44.0				20.6%
Mazda	Truck	Pickup	1995	26.8	19.6	25.0	22.0	3592		157	123	13.4	0.789	0.0340	48.4				13.0%
Mazda	Truck	Pickup	1996																
Mazda	Truck	Pickup	1997																
Mazda	Truck	Pickup	1998	24.8	17.9	22.8	20.2	3612		178	133	12.7	0.757	0.0368	45.4				21.2%
Mazda	Truck	Pickup	1999	24.0	17.2	22.2	19.5	3664		177	134	12.8	0.763	0.0364	44.6				20.2%
Mazda	Truck	Pickup	2000	23.8	16.9	21.8	19.3	3638		177	139	12.4	0.787	0.0381	43.8				17.5%
Mazda	Truck	Pickup	2001	23.1	16.3	21.2	18.6	3617		180	147	11.8	0.822	0.0406	42.2				14.4%
Mazda	Truck	Pickup	2002	23.5	16.6	21.3	18.9	3734		178	151	11.9	0.858	0.0404	44.6				16.1%
Mazda	Truck	Pickup	2003	24.9	17.5	22.2	19.8	3720		171	150	11.9	0.890	0.0403	47.0				8.3%
Mazda	Truck	Pickup	2004	25.0	17.4	22.4	19.9	3699		171	153	11.7	0.908	0.0412	47.0				13.9%
Mazda	Truck	Pickup	2005	25.0	17.3	22.2	19.8	3699		170	153	11.7	0.912	0.0412	46.8				16.8%
Mazda	Truck	Pickup	2006	26.0	17.9	23.3	20.6	3643		161	150	11.6	0.949	0.0412	48.0				10.9%
Mazda	Truck	Pickup	2007	26.2	18.1	23.2	20.7	3628		157	149	11.6	0.967	0.0412	48.1				8.3%
Mazda	Truck	Pickup	2008	26.3	18.3	23.1	20.8	3598		160	155	11.2	0.987	0.0429	48.2				18.2%
Mazda	Truck	Pickup	2009	28.5	19.9	24.4	22.3	3545		149	149	11.4	1.006	0.0418	51.6				9.1%
Mazda	Truck	Pickup	2010																
Mazda	Truck	Pickup	2011																
Mazda	Truck	Pickup	2012																
Mazda	Car	All	1975	17.1	13.3	16.6	14.6	2812		140	115	12.1	0.810	0.0404	24.6				
Mazda	Car	All	1976	21.9	17.0	21.2	18.7	2853		140	115	12.6	0.801	0.0397	32.0				
Mazda	Car	All	1977	29.3	23.3	27.4	25.0	2525	86.5	105	79	15.7	0.722	0.0301	38.1	2652	3284		
Mazda	Car	All	1978	35.5	28.9	31.8	30.2	2269	86.3	80	54	17.9	0.668	0.0237	40.8	3112	3520		
Mazda	Car	All	1979	25.6	19.8	25.0	21.9	2554	75.8	113	92	13.5	0.798	0.0354	33.9	2167	2678		
Mazda	Car	All	1980	26.0	20.2	25.1	22.2	2559	80.9	112	78	14.7	0.703	0.0305	34.2	2292	2858		
Mazda	Car	All	1981	31.1	24.8	28.7	26.4	2449	87.2	111	77	14.4	0.692	0.0315	38.7	2872	3453	35.6%	
Mazda	Car	All	1982	29.4	23.4	27.3	25.0	2523	82.5	116	79	14.5	0.683	0.0314	38.0	2602	3243	29.7%	
Mazda	Car	All	1983	28.9	22.6	27.5	24.6	2493	82.3	119	85	13.6	0.713	0.0339	37.6	2650	3278	58.6%	
Mazda	Car	All	1984	30.0	23.4	28.9	25.6	2548	90.2	118	85	13.9	0.720	0.0332	39.7	2943	3726	74.9%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Mazda	Truck	Pickup	1987	92.2%	7.8%													100.0%	
Mazda	Truck	Pickup	1988	88.6%	11.4%													100.0%	
Mazda	Truck	Pickup	1989	87.2%	12.8%			11.0%										100.0%	
Mazda	Truck	Pickup	1990	79.3%	20.7%			38.0%										100.0%	
Mazda	Truck	Pickup	1991	79.8%	20.2%			46.6%										100.0%	
Mazda	Truck	Pickup	1992	82.1%	17.9%			41.5%										100.0%	
Mazda	Truck	Pickup	1993	85.6%	14.4%			25.5%										100.0%	
Mazda	Truck	Pickup	1994	68.9%	31.1%			100.0%			100.0%							100.0%	
Mazda	Truck	Pickup	1995	83.4%	16.6%			100.0%			100.0%							100.0%	
Mazda	Truck	Pickup	1996																
Mazda	Truck	Pickup	1997																
Mazda	Truck	Pickup	1998	57.3%	42.7%			100.0%			100.0%							100.0%	
Mazda	Truck	Pickup	1999	53.4%	46.6%			100.0%			100.0%							100.0%	
Mazda	Truck	Pickup	2000	48.1%	51.9%			100.0%			100.0%							100.0%	
Mazda	Truck	Pickup	2001	40.8%	59.2%			100.0%			87.3%		12.7%					100.0%	
Mazda	Truck	Pickup	2002	35.4%	64.6%			100.0%			69.4%		30.6%					100.0%	
Mazda	Truck	Pickup	2003	40.3%	59.7%			100.0%			55.3%		44.7%					100.0%	
Mazda	Truck	Pickup	2004	44.0%	56.0%			100.0%			48.9%		51.1%					100.0%	
Mazda	Truck	Pickup	2005	33.9%	66.1%			100.0%			46.7%		53.3%					100.0%	
Mazda	Truck	Pickup	2006	42.0%	58.0%			100.0%			33.2%		66.8%					100.0%	
Mazda	Truck	Pickup	2007	46.0%	54.0%			100.0%			27.4%		72.6%		72.6%			89.5%	10.5%
Mazda	Truck	Pickup	2008	47.4%	52.6%			100.0%			19.6%		80.4%		80.4%			80.4%	19.6%
Mazda	Truck	Pickup	2009	47.3%	52.7%			100.0%			9.1%		90.9%		90.9%			90.9%	9.1%
Mazda	Truck	Pickup	2010																
Mazda	Truck	Pickup	2011																
Mazda	Truck	Pickup	2012																
Mazda	Car	All	1975	61.3%													100.0%		
Mazda	Car	All	1976	51.5%													100.0%		
Mazda	Car	All	1977	80.7%													100.0%		
Mazda	Car	All	1978	75.2%													100.0%		
Mazda	Car	All	1979	80.2%													100.0%		
Mazda	Car	All	1980	79.0%													100.0%		
Mazda	Car	All	1981	78.2%													100.0%		
Mazda	Car	All	1982	75.6%													100.0%		
Mazda	Car	All	1983	78.2%													100.0%		
Mazda	Car	All	1984	70.4%	2.1%				5.4%	0.6%							100.0%		

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Mazda	Car	All	1985	29.7	23.1	28.6	25.3	2547	88.9	118	85	13.8	0.719	0.0332	39.2	2877	3642	72.4%	
Mazda	Car	All	1986	29.4	22.6	28.5	25.0	2693	99.3	122	102	12.6	0.836	0.0377	40.2	3027	4031	76.2%	
Mazda	Car	All	1987	29.2	22.2	28.5	24.7	2716	92.5	122	104	12.6	0.847	0.0380	40.3	2863	3804	76.3%	
Mazda	Car	All	1988	28.4	21.5	27.6	24.0	2870	100.5	129	113	12.2	0.875	0.0390	41.1	2959	4184	75.6%	
Mazda	Car	All	1989	29.5	22.2	28.2	24.7	2857	106.6	125	108	12.6	0.858	0.0374	42.2	3190	4523	86.2%	0.0%
Mazda	Car	All	1990	29.9	22.3	28.8	25.0	2870	95.4	123	114	12.0	0.935	0.0396	43.1	2898	4176	67.2%	0.7%
Mazda	Car	All	1991	30.2	22.4	28.9	25.2	2866	98.5	122	113	12.1	0.927	0.0393	43.4	3018	4335	75.2%	0.1%
Mazda	Car	All	1992	30.2	22.4	28.6	25.1	2921	100.2	123	120	11.9	0.971	0.0404	44.1	3067	4464	71.3%	
Mazda	Car	All	1993	30.0	22.0	28.6	24.8	2895	99.6	125	123	11.5	0.986	0.0424	43.8	3046	4403	83.2%	
Mazda	Car	All	1994	30.2	21.9	28.7	24.9	2885	100.7	124	120	11.7	0.972	0.0414	43.9	3096	4467	79.2%	
Mazda	Car	All	1995	30.6	21.9	29.5	25.2	2981	103.4	120	123	11.9	1.028	0.0410	46.0	3226	4791	89.7%	
Mazda	Car	All	1996	31.5	22.4	29.9	25.8	2895	102.5	115	118	12.0	1.019	0.0406	46.0	3293	4780	89.1%	
Mazda	Car	All	1997	30.8	21.8	29.1	25.1	2914	103.1	116	119	12.0	1.022	0.0406	45.2	3222	4710	89.4%	
Mazda	Car	All	1998	30.0	21.1	28.2	24.4	3018	109.9	118	125	11.9	1.050	0.0409	45.4	3331	4985	100.0%	
Mazda	Car	All	1999	30.2	21.3	27.9	24.4	2926	100.1	118	129	11.2	1.089	0.0441	44.2	3044	4477	100.0%	
Mazda	Car	All	2000	30.0	21.1	27.5	24.1	2955	103.1	118	129	11.2	1.092	0.0435	44.5	3124	4611	91.5%	
Mazda	Car	All	2001	28.4	19.8	26.2	22.9	3109	104.2	131	144	10.8	1.097	0.0461	44.4	2984	4647	88.8%	
Mazda	Car	All	2002	28.9	20.1	26.3	23.1	3125	107.3	133	145	10.7	1.089	0.0460	45.4	3126	4886	93.4%	
Mazda	Car	All	2003	29.2	20.1	26.5	23.2	3207	107.8	140	158	10.2	1.123	0.0489	46.9	3165	5087	92.9%	
Mazda	Car	All	2004	27.8	18.9	25.5	22.1	3308	108.8	154	185	9.2	1.209	0.0558	46.3	3068	5060	78.2%	
Mazda	Car	All	2005	29.0	19.7	26.0	22.9	3277	111.3	140	173	9.6	1.294	0.0527	47.8	3261	5331	89.5%	
Mazda	Car	All	2006	30.0	20.2	27.1	23.6	3245	109.2	140	172	9.5	1.250	0.0529	48.8	3295	5365	85.5%	2.9%
Mazda	Car	All	2007	29.9	20.1	27.1	23.6	3305	111.2	135	176	9.5	1.324	0.0531	49.5	3353	5532	91.2%	0.8%
Mazda	Car	All	2008	30.9	20.8	27.9	24.4	3238	108.8	133	169	9.7	1.277	0.0521	50.2	3390	5499	92.1%	
Mazda	Car	All	2009	30.7	20.6	28.0	24.2	3354	111.8	144	181	9.5	1.283	0.0535	51.6	3462	5800	93.1%	
Mazda	Car	All	2010	32.8	21.8	29.9	25.8	3293	111.4	140	165	10.0	1.185	0.0501	54.1	3671	6040	96.7%	
Mazda	Car	All	2011	33.4	22.3	30.4	26.3	3205	110.7	135	156	10.3	1.164	0.0485	53.6	3722	5955	96.6%	
Mazda	Car	All	2012	34.5	22.9	31.1	27.0	3255	112.8	138	159	10.2	1.164	0.0489	56.4	3930	6393	96.4%	
Mazda	Truck	All	1975	16.8	12.8	17.0	14.4	3000		85	114	13.2	1.391	0.0381	25.8				
Mazda	Truck	All	1976	18.2	13.9	18.2	15.5	3000		86	110	13.7	1.329	0.0367	28.0				
Mazda	Truck	All	1977	24.5	18.9	24.0	20.9	3000		96	98	14.9	1.098	0.0326	39.0				
Mazda	Truck	All	1978	31.7	25.5	29.0	26.9	3000		110	67	18.5	0.607	0.0223	47.7				
Mazda	Truck	All	1979	30.2	23.9	28.2	25.7	3000		120	72	17.4	0.600	0.0240	45.3				
Mazda	Truck	All	1980	30.1	23.8	28.2	25.6	2907		120	76	16.3	0.633	0.0262	43.8				
Mazda	Truck	All	1981	31.0	24.3	29.4	26.4	2885		120	76	16.2	0.634	0.0264	44.7				
Mazda	Truck	All	1982	31.6	25.0	29.7	26.9	2921		123	72	17.2	0.588	0.0247	46.3				

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Mazda	Car	All	1985	68.0%	3.4%			3.9%		0.6%							100.0%		
Mazda	Car	All	1986	64.4%	3.9%			98.5%			100.0%						100.0%		
Mazda	Car	All	1987	62.1%	22.6%			100.0%			100.0%						100.0%		
Mazda	Car	All	1988	54.3%	45.1%			100.0%			49.3%	49.3%	1.3%				50.7%	49.3%	
Mazda	Car	All	1989	47.2%	52.5%			100.0%			42.0%	57.9%	0.0%				42.1%	57.9%	
Mazda	Car	All	1990	54.8%	45.2%			100.0%			27.5%	40.2%	32.3%				54.4%	45.6%	
Mazda	Car	All	1991	51.4%	48.6%			100.0%			26.7%	43.3%	30.0%				52.9%	47.1%	
Mazda	Car	All	1992	44.9%	55.1%			100.0%			18.3%	15.9%	65.8%				68.4%	31.6%	
Mazda	Car	All	1993	43.6%	56.4%			100.0%			21.2%		78.8%				58.2%	41.8%	
Mazda	Car	All	1994	35.8%	64.2%			100.0%			2.0%		98.0%				63.4%	36.6%	
Mazda	Car	All	1995	25.6%	74.4%			100.0%			0.5%		99.5%				64.0%	36.0%	
Mazda	Car	All	1996	30.6%	69.4%			100.0%					100.0%				55.7%	44.3%	
Mazda	Car	All	1997	28.2%	71.8%			100.0%					100.0%				54.5%	45.5%	
Mazda	Car	All	1998	16.7%	83.3%			100.0%					100.0%				46.7%	53.3%	
Mazda	Car	All	1999	23.6%	76.4%			100.0%					100.0%				58.3%	41.7%	
Mazda	Car	All	2000	20.2%	79.8%			100.0%					100.0%				59.8%	40.2%	
Mazda	Car	All	2001	18.5%	81.5%			100.0%					100.0%				52.1%	47.9%	
Mazda	Car	All	2002	20.5%	79.5%			100.0%					100.0%				64.4%	35.6%	
Mazda	Car	All	2003	25.8%	74.2%			100.0%					100.0%		31.2%		55.0%	45.0%	
Mazda	Car	All	2004	30.9%	69.1%			100.0%			16.4%		83.6%		74.6%		55.7%	42.8%	1.5%
Mazda	Car	All	2005	22.1%	77.9%			100.0%			8.5%		91.5%		76.4%		52.0%	48.0%	
Mazda	Car	All	2006	26.6%	73.4%			100.0%			2.7%		97.3%		78.3%		52.3%	47.7%	
Mazda	Car	All	2007	19.1%	80.9%			100.0%			2.4%		97.6%		97.6%		55.6%	44.4%	
Mazda	Car	All	2008	19.0%	80.8%	0.2%	12.2%	87.8%			0.9%		99.1%		99.1%	0.2%	60.6%	39.4%	
Mazda	Car	All	2009	17.1%	82.8%	0.2%	10.1%	89.9%			2.8%		97.2%		97.2%	0.2%	49.0%	51.0%	
Mazda	Car	All	2010	14.3%	85.7%	0.0%	4.1%	95.9%			0.5%		99.5%		99.5%	0.0%	64.7%	35.3%	
Mazda	Car	All	2011	12.4%	87.6%		2.4%	97.6%			0.4%		99.6%		99.6%		64.6%	35.4%	
Mazda	Car	All	2012	16.7%	83.3%		16.5%	83.5%					100.0%		100.0%		60.3%	26.1%	13.7%
Mazda	Truck	All	1975	77.4%													100.0%		
Mazda	Truck	All	1976	87.7%													100.0%		
Mazda	Truck	All	1977	93.2%													45.5%	54.5%	
Mazda	Truck	All	1978	100.0%														100.0%	
Mazda	Truck	All	1979	100.0%														100.0%	
Mazda	Truck	All	1980	100.0%														100.0%	
Mazda	Truck	All	1981	100.0%														100.0%	
Mazda	Truck	All	1982	100.0%						22.4%								100.0%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Mazda	Truck	All	1983	30.6	24.1	28.9	26.1	2908		121	75	16.6	0.621	0.0258	44.6				
Mazda	Truck	All	1984	29.7	23.5	27.9	25.3	2860		120	77	16.0	0.639	0.0269	42.7				
Mazda	Truck	All	1985																
Mazda	Truck	All	1986	27.7	21.4	26.7	23.6	3000		122	80	16.0	0.656	0.0267	41.6				
Mazda	Truck	All	1987	26.2	20.2	25.1	22.2	3062		131	85	15.7	0.648	0.0276	40.3				12.0%
Mazda	Truck	All	1988	26.4	20.2	25.1	22.2	3030		135	86	15.3	0.639	0.0284	40.0				6.1%
Mazda	Truck	All	1989	25.2	19.1	23.9	21.1	3291		145	102	14.6	0.693	0.0307	41.3				9.5%
Mazda	Truck	All	1990	23.3	17.7	21.9	19.5	3472		155	116	13.9	0.736	0.0328	40.5				42.9%
Mazda	Truck	All	1991	22.8	17.2	21.4	19.0	3608		165	124	13.6	0.743	0.0340	41.1				50.3%
Mazda	Truck	All	1992	23.2	17.3	21.9	19.3	3653		163	126	13.6	0.764	0.0341	42.2				19.9%
Mazda	Truck	All	1993	23.3	17.3	22.0	19.4	3616		163	125	13.6	0.757	0.0340	42.0				19.0%
Mazda	Truck	All	1994	23.6	17.3	22.4	19.5	3708		183	140	12.5	0.766	0.0376	43.9				38.9%
Mazda	Truck	All	1995	24.4	17.7	23.1	20.1	3768		165	133	13.1	0.809	0.0351	46.4				43.8%
Mazda	Truck	All	1996	20.8	15.0	20.0	17.2	4133		180	152	12.7	0.844	0.0369	42.9				26.6%
Mazda	Truck	All	1997	20.5	14.8	19.5	16.9	4178		180	152	12.8	0.844	0.0365	42.9				35.6%
Mazda	Truck	All	1998	23.4	16.8	21.6	19.1	3785		178	138	12.8	0.780	0.0365	44.7				30.4%
Mazda	Truck	All	1999	24.0	17.2	22.2	19.5	3664		177	134	12.8	0.763	0.0364	44.6				20.2%
Mazda	Truck	All	2000	23.3	16.6	21.6	18.9	3861		162	158	11.8	0.991	0.0408	45.2			61.5%	6.8%
Mazda	Truck	All	2001	23.3	16.3	21.6	18.8	3727		169	168	11.0	1.000	0.0454	43.5			38.6%	36.4%
Mazda	Truck	All	2002	23.7	16.4	22.1	19.1	3744		181	184	10.2	1.023	0.0494	44.5			34.5%	40.0%
Mazda	Truck	All	2003	24.0	16.5	22.4	19.3	3778		179	187	10.1	1.043	0.0496	45.5			44.3%	32.2%
Mazda	Truck	All	2004	24.0	16.3	22.4	19.3	3782		180	190	10.0	1.056	0.0502	45.5			48.1%	33.8%
Mazda	Truck	All	2005	24.0	16.4	21.9	19.2	3924		178	190	10.3	1.073	0.0484	47.2			41.4%	48.2%
Mazda	Truck	All	2006	24.5	16.7	22.4	19.5	3877		174	185	10.4	1.069	0.0476	47.6			42.3%	41.9%
Mazda	Truck	All	2007	23.4	15.9	21.7	18.8	4168		170	245	8.8	1.486	0.0586	48.8			20.4%	72.9%
Mazda	Truck	All	2008	24.8	16.9	22.7	19.8	4105		185	230	9.3	1.264	0.0554	51.2			45.9%	52.0%
Mazda	Truck	All	2009	26.5	18.0	24.0	21.0	3896		169	204	9.9	1.207	0.0514	51.8			66.7%	31.9%
Mazda	Truck	All	2010	25.2	17.1	23.2	20.1	4110		188	229	9.4	1.227	0.0549	52.0			58.0%	42.0%
Mazda	Truck	All	2011	24.6	16.7	22.6	19.6	4423		215	268	8.5	1.263	0.0605	54.5			37.5%	62.5%
Mazda	Truck	All	2012	24.6	16.6	22.7	19.6	4469		221	271	8.5	1.241	0.0607	55.0			43.4%	56.6%
Mazda	All	All	1975	17.1	13.2	16.6	14.6	2823		137	115	12.2	0.843	0.0402	24.6				
Mazda	All	All	1976	21.3	16.5	20.7	18.2	2873		133	114	12.8	0.875	0.0392	31.4				
Mazda	All	All	1977	28.8	22.7	27.0	24.5	2572		104	81	15.6	0.759	0.0303	38.2				
Mazda	All	All	1978	35.3	28.7	31.6	29.9	2312		82	55	18.0	0.664	0.0236	41.2				
Mazda	All	All	1979	25.8	20.0	25.1	22.0	2574		113	91	13.7	0.789	0.0349	34.4				
Mazda	All	All	1980	26.2	20.4	25.3	22.3	2578		113	78	14.8	0.699	0.0303	34.8				

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Mazda	Truck	All	1983	97.0%						5.1%								100.0%	
Mazda	Truck	All	1984	91.5%						1.9%								100.0%	
Mazda	Truck	All	1985																
Mazda	Truck	All	1986	100.0%														100.0%	
Mazda	Truck	All	1987	92.2%	7.8%													100.0%	
Mazda	Truck	All	1988	88.6%	11.4%													100.0%	
Mazda	Truck	All	1989	66.9%	33.1%			33.2%										100.0%	
Mazda	Truck	All	1990	48.7%	51.3%			63.0%										100.0%	
Mazda	Truck	All	1991	45.9%	54.1%			72.5%										100.0%	
Mazda	Truck	All	1992	43.2%	56.8%			70.9%										100.0%	
Mazda	Truck	All	1993	43.4%	56.6%			64.0%										100.0%	
Mazda	Truck	All	1994	53.4%	46.6%			100.0%			80.8%	19.2%						100.0%	
Mazda	Truck	All	1995	53.9%	46.1%			100.0%			64.6%	35.4%						100.0%	
Mazda	Truck	All	1996		100.0%			100.0%				100.0%						100.0%	
Mazda	Truck	All	1997		100.0%			100.0%				100.0%						100.0%	
Mazda	Truck	All	1998	42.6%	57.4%			100.0%			74.4%		25.6%					100.0%	
Mazda	Truck	All	1999	53.4%	46.6%			100.0%			100.0%							100.0%	
Mazda	Truck	All	2000	18.5%	81.5%			100.0%			38.5%		61.5%					100.0%	
Mazda	Truck	All	2001	13.2%	86.8%			100.0%			25.5%		74.5%					100.0%	
Mazda	Truck	All	2002	11.8%	88.2%			100.0%			21.2%		78.8%		34.5%			100.0%	
Mazda	Truck	All	2003	10.6%	89.4%			100.0%			14.1%		85.9%		44.3%			100.0%	
Mazda	Truck	All	2004	9.8%	90.2%			100.0%			10.3%		89.7%		48.1%			100.0%	
Mazda	Truck	All	2005	4.6%	95.4%			100.0%			5.8%		94.2%					100.0%	
Mazda	Truck	All	2006	9.2%	90.6%	0.2%		100.0%			5.9%		94.1%		42.3%	0.2%		100.0%	
Mazda	Truck	All	2007	3.3%	96.7%			100.0%			2.0%		98.0%		98.0%			60.2%	39.8%
Mazda	Truck	All	2008	2.3%	97.6%	0.1%	18.0%	82.0%			0.5%		99.5%		99.5%	0.1%	22.4%	27.8%	49.8%
Mazda	Truck	All	2009	3.2%	96.7%	0.1%	11.7%	88.3%			0.1%		99.9%		98.5%	0.1%	52.3%	14.6%	33.1%
Mazda	Truck	All	2010	2.2%	97.8%	0.0%	10.6%	89.4%					100.0%		100.0%	0.0%	32.8%	12.4%	54.8%
Mazda	Truck	All	2011		100.0%		10.4%	89.6%					100.0%		100.0%			13.3%	86.7%
Mazda	Truck	All	2012		100.0%		6.3%	93.7%					100.0%		100.0%			6.3%	93.7%
Mazda	All	All	1975	62.2%													100.0%		
Mazda	All	All	1976	56.6%													100.0%		
Mazda	All	All	1977	81.9%													94.6%	5.4%	
Mazda	All	All	1978	76.6%													94.1%	5.9%	
Mazda	All	All	1979	81.1%													95.5%	4.5%	
Mazda	All	All	1980	80.1%													94.5%	5.5%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
Mazda	All	All	1981	31.1	24.8	28.8	26.4	2493		112	76	14.6	0.686	0.0310	39.3			32.0%	
Mazda	All	All	1982	29.7	23.6	27.6	25.2	2578		117	78	14.9	0.670	0.0305	39.2			25.6%	
Mazda	All	All	1983	29.4	23.0	27.9	25.0	2614		120	82	14.4	0.686	0.0315	39.7			41.5%	
Mazda	All	All	1984	29.9	23.4	28.4	25.4	2702		119	81	14.9	0.680	0.0301	41.1			38.1%	
Mazda	All	All	1985	29.7	23.1	28.6	25.3	2547	88.9	118	85	13.8	0.719	0.0332	39.2	2877	3642	72.4%	
Mazda	All	All	1986	28.7	22.1	27.7	24.3	2828		122	93	14.1	0.757	0.0328	40.8			42.7%	
Mazda	All	All	1987	27.7	21.2	26.8	23.4	2882		126	95	14.1	0.751	0.0330	40.3			39.7%	5.8%
Mazda	All	All	1988	27.9	21.2	26.9	23.5	2909		130	107	13.0	0.819	0.0364	40.8			57.5%	1.5%
Mazda	All	All	1989	27.7	20.9	26.4	23.2	3022		133	106	13.4	0.795	0.0348	41.9			53.4%	3.6%
Mazda	All	All	1990	27.4	20.6	26.2	22.9	3063		133	115	12.6	0.871	0.0374	42.3			45.7%	14.2%
Mazda	All	All	1991	27.1	20.3	25.8	22.6	3123		137	117	12.6	0.863	0.0374	42.6			49.1%	17.5%
Mazda	All	All	1992	27.7	20.5	26.2	23.0	3143		135	122	12.4	0.908	0.0385	43.6			49.6%	6.0%
Mazda	All	All	1993	28.6	21.0	27.1	23.6	3023		132	124	11.9	0.945	0.0409	43.5			68.5%	3.4%
Mazda	All	All	1994	27.5	20.1	26.1	22.7	3170		144	127	12.0	0.901	0.0401	43.9			51.8%	13.5%
Mazda	All	All	1995	29.5	21.1	28.3	24.3	3096		126	125	12.0	0.996	0.0401	46.0			76.6%	6.4%
Mazda	All	All	1996	30.3	21.6	28.8	24.8	2991		120	120	12.1	1.006	0.0403	45.8			82.3%	2.1%
Mazda	All	All	1997	29.8	21.1	28.2	24.3	3004		120	121	12.1	1.010	0.0403	45.0			83.1%	2.5%
Mazda	All	All	1998	27.9	19.8	26.1	22.7	3219		134	128	12.1	0.979	0.0398	45.2			73.7%	8.0%
Mazda	All	All	1999	28.9	20.4	26.7	23.4	3054		128	129	11.4	1.032	0.0427	44.3			82.7%	3.5%
Mazda	All	All	2000	27.6	19.5	25.4	22.3	3228		131	138	11.4	1.061	0.0427	44.7			82.5%	2.0%
Mazda	All	All	2001	26.3	18.4	24.3	21.2	3338		145	153	10.8	1.061	0.0458	44.1			70.3%	13.4%
Mazda	All	All	2002	27.4	19.0	25.1	21.9	3287		145	155	10.6	1.072	0.0469	45.2			77.9%	10.5%
Mazda	All	All	2003	27.4	18.8	25.1	21.9	3379		152	167	10.2	1.099	0.0491	46.5			78.3%	9.7%
Mazda	All	All	2004	27.0	18.4	24.9	21.5	3392		158	186	9.4	1.182	0.0548	46.1			72.8%	6.0%
Mazda	All	All	2005	27.9	19.0	25.2	22.1	3394		147	176	9.7	1.254	0.0519	47.7			80.9%	8.7%
Mazda	All	All	2006	29.4	19.9	26.6	23.2	3303		143	173	9.6	1.233	0.0525	48.7			81.5%	6.5%
Mazda	All	All	2007	28.6	19.3	26.1	22.7	3442		140	187	9.4	1.350	0.0540	49.4			80.0%	12.2%
Mazda	All	All	2008	29.2	19.7	26.5	23.1	3448		145	184	9.6	1.274	0.0529	50.4			80.9%	12.6%
Mazda	All	All	2009	29.3	19.8	26.7	23.2	3509		151	187	9.6	1.261	0.0529	51.6			85.6%	9.1%
Mazda	All	All	2010	30.9	20.7	28.3	24.4	3454		150	178	9.9	1.193	0.0510	53.6			89.0%	8.3%
Mazda	All	All	2011	31.7	21.2	28.8	25.0	3394		147	173	10.0	1.180	0.0503	53.7			87.4%	9.7%
Mazda	All	All	2012	33.0	22.0	29.8	25.9	3390		147	172	10.0	1.173	0.0502	56.2			90.5%	6.3%
All	Car	Car	1975	15.8	12.3	15.1	13.4	4071		293	137	14.1	0.506	0.0333	32.4			6.5%	
All	Car	Car	1976	17.5	13.7	16.6	14.9	4044		288	134	14.4	0.500	0.0326	35.4			6.0%	
All	Car	Car	1977	18.4	14.4	17.4	15.6	3936	106.9	281	134	13.9	0.516	0.0337	36.4	2031	3894	6.8%	
All	Car	Car	1978	20.0	15.6	19.2	17.0	3572	106.0	252	124	13.6	0.537	0.0344	35.9	2193	3816	9.9%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
Mazda	All	All	1981	80.4%													89.8%	10.2%	
Mazda	All	All	1982	79.0%						3.1%							86.1%	13.9%	
Mazda	All	All	1983	83.7%						1.5%							70.8%	29.2%	
Mazda	All	All	1984	80.8%	1.1%				2.8%	1.2%							50.8%	49.2%	
Mazda	All	All	1985	68.0%	3.4%			3.9%		0.6%							100.0%		
Mazda	All	All	1986	80.0%	2.2%			55.3%			56.1%						56.1%	43.9%	
Mazda	All	All	1987	76.6%	15.5%			52.0%			52.0%						52.0%	48.0%	
Mazda	All	All	1988	62.5%	37.0%			76.0%			37.5%	37.5%	1.0%				38.5%	61.5%	
Mazda	All	All	1989	54.7%	45.1%			74.6%			26.0%	35.9%	0.0%				26.1%	73.9%	
Mazda	All	All	1990	52.9%	47.1%			88.2%			18.7%	27.3%	22.0%				37.0%	63.0%	
Mazda	All	All	1991	49.5%	50.5%			90.4%			17.4%	28.3%	19.6%				34.5%	65.5%	
Mazda	All	All	1992	44.4%	55.6%			91.1%			12.7%	11.0%	45.8%				47.6%	52.4%	
Mazda	All	All	1993	43.6%	56.4%			93.6%			17.5%		64.8%				47.9%	52.1%	
Mazda	All	All	1994	41.9%	58.1%			100.0%			29.3%	6.7%	64.0%				41.4%	58.6%	
Mazda	All	All	1995	29.7%	70.3%			100.0%			9.8%	5.1%	85.1%				54.7%	45.3%	
Mazda	All	All	1996	28.2%	71.8%			100.0%				7.7%	92.3%				51.4%	48.6%	
Mazda	All	All	1997	26.2%	73.8%			100.0%				7.1%	92.9%				50.6%	49.4%	
Mazda	All	All	1998	23.5%	76.5%			100.0%			19.5%		80.5%				34.5%	65.5%	
Mazda	All	All	1999	28.8%	71.2%			100.0%			17.3%		82.7%				48.2%	51.8%	
Mazda	All	All	2000	19.7%	80.3%			100.0%			11.6%		88.4%				41.8%	58.2%	
Mazda	All	All	2001	16.6%	83.4%			100.0%			9.4%		90.6%				32.9%	67.1%	
Mazda	All	All	2002	18.2%	81.8%			100.0%			5.6%		94.4%		9.0%		47.5%	52.5%	
Mazda	All	All	2003	21.2%	78.8%			100.0%			4.3%		95.7%		35.1%		38.5%	61.5%	
Mazda	All	All	2004	27.1%	72.9%			100.0%			15.3%		84.7%		69.9%		45.8%	53.0%	1.2%
Mazda	All	All	2005	18.9%	81.1%			100.0%			8.0%		92.0%		62.7%		42.7%	57.3%	
Mazda	All	All	2006	25.0%	74.9%	0.0%		100.0%			3.0%		97.0%		75.0%	0.0%	47.5%	52.5%	
Mazda	All	All	2007	16.6%	83.4%			100.0%			2.3%		97.7%		97.7%		46.8%	46.9%	6.3%
Mazda	All	All	2008	15.0%	84.9%	0.1%	13.6%	86.4%			0.8%		99.2%		99.2%	0.1%	51.4%	36.6%	12.0%
Mazda	All	All	2009	13.1%	86.7%	0.1%	10.5%	89.5%			2.1%		97.9%		97.5%	0.1%	49.9%	40.6%	9.5%
Mazda	All	All	2010	11.9%	88.1%	0.0%	5.4%	94.6%			0.4%		99.6%		99.6%	0.0%	58.4%	30.8%	10.8%
Mazda	All	All	2011	10.5%	89.5%		3.6%	96.4%			0.4%		99.6%		99.6%		54.6%	32.0%	13.5%
Mazda	All	All	2012	14.9%	85.1%		15.3%	84.7%					100.0%		100.0%		53.6%	23.9%	22.6%
All	Car	Car	1975	18.9%	0.3%			5.5%		0.3%							56.2%	22.4%	21.4%
All	Car	Car	1976	17.0%				3.3%		0.3%							58.0%	22.6%	19.3%
All	Car	Car	1977	16.6%				4.3%		0.5%							54.7%	22.2%	23.1%
All	Car	Car	1978	19.8%	7.0%			5.3%		1.0%							46.2%	33.3%	20.4%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
All	Car	Car	1979	20.3	16.0	19.3	17.3	3468	105.9	239	120	13.7	0.546	0.0341	35.4	2210	3770	12.8%	
All	Car	Car	1980	23.5	18.3	22.6	20.0	3092	102.4	188	101	14.2	0.584	0.0324	36.5	2462	3756	31.1%	0.6%
All	Car	Car	1981	25.1	19.5	24.2	21.4	3079	104.5	184	99	14.3	0.589	0.0321	38.9	2689	4081	36.5%	0.4%
All	Car	Car	1982	26.1	20.1	25.6	22.3	3039	103.4	175	99	14.3	0.610	0.0322	40.1	2779	4161	46.1%	0.4%
All	Car	Car	1983	25.7	19.8	25.4	22.0	3121	106.7	185	105	13.9	0.613	0.0334	40.5	2835	4331	48.1%	0.5%
All	Car	Car	1984	26.3	20.2	26.0	22.4	3091	105.1	180	106	13.7	0.636	0.0341	41.0	2843	4309	52.8%	0.4%
All	Car	Car	1985	26.9	20.6	26.7	23.0	3091	106.0	179	112	13.2	0.670	0.0358	41.9	2928	4448	62.3%	0.1%
All	Car	Car	1986	28.0	21.3	27.7	23.8	3026	105.0	168	111	13.1	0.702	0.0363	42.6	3006	4479	71.2%	0.3%
All	Car	Car	1987	28.2	21.3	27.8	23.9	3013	104.4	162	113	13.0	0.732	0.0367	42.7	3001	4460	77.5%	0.3%
All	Car	Car	1988	28.6	21.5	28.3	24.2	3035	105.4	160	116	12.7	0.759	0.0376	43.7	3083	4615	82.2%	0.4%
All	Car	Car	1989	28.2	20.9	27.9	23.8	3088	106.4	162	121	12.4	0.784	0.0388	43.7	3052	4659	83.1%	0.6%
All	Car	Car	1990	27.8	20.5	27.5	23.4	3167	105.8	163	129	12.1	0.830	0.0402	44.2	2987	4687	85.3%	0.4%
All	Car	Car	1991	28.0	20.5	27.6	23.4	3147	105.6	163	133	11.8	0.852	0.0415	44.2	3007	4680	83.8%	0.9%
All	Car	Car	1992	27.6	20.0	27.5	23.1	3234	107.3	170	141	11.5	0.868	0.0429	44.8	3011	4819	81.2%	0.7%
All	Car	Car	1993	28.1	20.2	27.8	23.4	3210	107.1	167	140	11.5	0.868	0.0429	45.3	3059	4859	85.3%	0.6%
All	Car	Car	1994	28.0	20.0	27.7	23.2	3251	107.2	168	143	11.4	0.885	0.0434	45.7	3049	4900	84.4%	0.2%
All	Car	Car	1995	28.3	19.9	28.1	23.4	3266	107.8	168	154	10.8	0.948	0.0463	46.3	3098	4998	82.2%	0.6%
All	Car	Car	1996	28.3	19.8	28.0	23.4	3276	108.2	166	154	10.8	0.958	0.0465	46.5	3106	5036	87.2%	0.6%
All	Car	Car	1997	28.4	19.8	28.0	23.4	3274	108.0	164	157	10.7	0.975	0.0471	46.6	3104	5039	87.3%	0.6%
All	Car	Car	1998	28.5	19.7	28.0	23.4	3304	108.0	164	159	10.6	0.991	0.0476	47.3	3122	5115	88.2%	0.8%
All	Car	Car	1999	28.2	19.4	27.5	23.0	3362	108.4	166	164	10.5	1.007	0.0482	47.5	3088	5157	88.3%	0.9%
All	Car	Car	2000	28.2	19.3	27.3	22.9	3366	108.9	166	168	10.3	1.030	0.0493	47.6	3103	5188	85.8%	0.9%
All	Car	Car	2001	28.5	19.4	27.5	23.1	3366	108.3	165	169	10.3	1.039	0.0495	48.3	3142	5239	85.1%	1.6%
All	Car	Car	2002	28.8	19.5	27.4	23.2	3379	109.1	166	173	10.1	1.063	0.0507	48.9	3190	5342	86.0%	2.3%
All	Car	Car	2003	29.0	19.5	27.6	23.3	3416	108.8	167	178	10.0	1.081	0.0514	49.9	3212	5438	82.6%	2.0%
All	Car	Car	2004	29.0	19.3	27.6	23.2	3444	108.8	170	182	9.8	1.095	0.0522	50.4	3227	5496	82.0%	3.2%
All	Car	Car	2005	29.7	19.7	27.9	23.6	3444	109.6	167	181	9.8	1.104	0.0519	51.8	3353	5703	81.6%	3.5%
All	Car	Car	2006	29.3	19.4	27.7	23.4	3526	109.5	174	195	9.5	1.137	0.0543	52.5	3311	5770	76.7%	3.9%
All	Car	Car	2007	30.5	20.2	28.5	24.2	3503	109.1	167	190	9.6	1.152	0.0533	54.4	3454	5961	80.9%	4.5%
All	Car	Car	2008	30.6	20.2	28.6	24.3	3530	109.0	167	195	9.5	1.175	0.0540	55.1	3471	6025	78.3%	5.7%
All	Car	Car	2009	32.0	21.2	29.7	25.3	3478	109.3	157	187	9.7	1.188	0.0526	56.7	3623	6212	82.9%	5.3%
All	Car	Car	2010	33.1	21.9	30.6	26.1	3490	109.9	159	190	9.5	1.196	0.0533	60.1	3845	6629	81.1%	5.6%
All	Car	Car	2011	32.7	21.5	30.8	26.0	3579	110.9	162	201	9.4	1.248	0.0552	60.0	3778	6673	78.1%	7.7%
All	Car	Car	2012	35.1	23.1	32.5	27.7	3450	109.2	150	194	9.4	1.287	0.0548	62.2	4010	6815	82.6%	5.5%
All	Car	Wagon	1975	16.1	12.5	15.6	13.8	3957		256	129	14.3	0.585	0.0322	32.2			6.6%	
All	Car	Wagon	1976	17.3	13.6	16.4	14.7	4182		276	132	14.7	0.526	0.0312	36.2			4.1%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
All	Car	Car	1979	21.3%	9.2%			5.1%		2.2%							45.3%	33.0%	21.7%
All	Car	Car	1980	30.7%	15.7%			6.5%	0.7%	4.1%							55.0%	34.0%	11.0%
All	Car	Car	1981	29.2%	33.9%			6.3%	2.9%	5.9%							51.4%	36.6%	12.1%
All	Car	Car	1982	29.4%	51.6%			7.5%	10.9%	4.7%							57.6%	30.5%	11.9%
All	Car	Car	1983	25.4%	58.7%			10.1%	19.7%	2.1%							52.6%	32.1%	15.3%
All	Car	Car	1984	24.4%	58.3%			15.9%	24.1%	1.6%							58.6%	28.6%	12.8%
All	Car	Car	1985	22.7%	58.7%			22.4%	33.0%	0.9%							56.3%	28.3%	15.4%
All	Car	Car	1986	25.1%	58.0%			37.3%	28.9%	0.3%	94.8%	3.4%	1.7%				61.2%	26.3%	12.5%
All	Car	Car	1987	25.5%	58.9%			42.0%	30.6%	0.2%	84.9%	9.6%	5.5%				65.0%	22.7%	12.3%
All	Car	Car	1988	24.7%	66.0%			54.0%	29.4%	0.0%	79.4%	10.0%	10.6%				66.3%	20.9%	12.9%
All	Car	Car	1989	21.4%	69.1%	0.1%		62.3%	28.1%	0.0%	75.1%	12.1%	12.8%				59.4%	27.1%	13.5%
All	Car	Car	1990	19.9%	72.7%	0.0%		77.5%	21.2%	0.0%	66.8%	5.6%	27.6%		0.6%		59.3%	27.8%	13.0%
All	Car	Car	1991	20.8%	73.3%	0.0%		77.9%	22.0%	0.1%	65.7%	6.4%	27.9%		2.5%		61.7%	25.9%	12.4%
All	Car	Car	1992	17.5%	76.3%	0.0%		89.6%	10.4%	0.1%	64.7%	4.6%	30.7%		4.7%		56.9%	27.2%	15.9%
All	Car	Car	1993	17.8%	76.8%	0.0%		91.4%	8.6%		62.3%	3.2%	34.5%		5.0%		56.9%	29.2%	13.8%
All	Car	Car	1994	16.8%	79.1%			94.7%	5.3%	0.0%	58.0%	1.9%	40.0%		8.2%		58.6%	25.5%	15.9%
All	Car	Car	1995	16.3%	81.9%			98.7%	1.2%	0.1%	47.2%	1.1%	51.7%	0.0%	10.0%		57.6%	27.9%	14.5%
All	Car	Car	1996	14.9%	83.5%	0.0%		98.8%	1.1%	0.1%	42.7%	1.0%	56.3%	0.0%	11.9%		55.1%	31.0%	14.0%
All	Car	Car	1997	13.4%	85.9%	0.1%		99.1%	0.8%	0.1%	41.2%	1.0%	57.6%	0.1%	11.6%		55.3%	29.8%	14.9%
All	Car	Car	1998	12.2%	87.4%	0.1%		99.7%	0.1%	0.2%	39.0%	1.5%	58.7%	0.8%	18.8%		49.8%	38.4%	11.8%
All	Car	Car	1999	10.8%	88.6%	0.0%		99.7%	0.1%	0.2%	35.7%	2.1%	60.7%	1.5%	17.2%		48.3%	38.7%	13.0%
All	Car	Car	2000	11.2%	87.7%	0.0%		99.7%	0.1%	0.2%	35.4%	1.8%	61.3%	1.6%	23.3%	0.1%	48.3%	32.8%	18.9%
All	Car	Car	2001	11.4%	87.5%	0.2%		99.7%		0.3%	34.2%	2.1%	60.9%	2.8%	28.7%	0.0%	51.0%	31.2%	17.8%
All	Car	Car	2002	11.0%	88.3%	0.4%		99.6%		0.4%	31.5%	2.0%	63.8%	2.7%	34.7%	0.3%	48.3%	35.7%	15.9%
All	Car	Car	2003	11.0%	88.0%	1.0%		99.7%		0.3%	27.7%	2.4%	67.0%	2.9%	41.2%	0.6%	49.5%	33.5%	17.0%
All	Car	Car	2004	10.1%	88.1%	1.5%		99.7%		0.3%	24.3%	1.9%	71.3%	2.4%	44.4%	1.0%	46.9%	36.1%	17.0%
All	Car	Car	2005	9.2%	87.8%	2.8%		99.6%		0.4%	22.2%	2.5%	74.2%	1.1%	52.7%	2.3%	43.6%	39.5%	16.9%
All	Car	Car	2006	9.5%	87.7%	2.7%		99.3%		0.7%	20.4%	1.8%	77.4%	0.3%	62.4%	1.7%	44.5%	33.6%	21.9%
All	Car	Car	2007	8.5%	80.3%	11.2%	0.3%	99.6%		0.0%	15.8%	1.1%	83.1%	0.0%	67.3%	3.7%	43.0%	41.3%	15.7%
All	Car	Car	2008	7.6%	79.6%	12.5%	3.2%	96.7%		0.1%	13.2%	0.7%	86.2%	0.0%	65.2%	3.7%	42.3%	36.8%	20.9%
All	Car	Car	2009	6.3%	81.8%	11.6%	4.7%	94.7%		0.6%	8.8%	0.4%	90.8%	0.0%	80.1%	3.2%	43.9%	37.5%	18.6%
All	Car	Car	2010	5.3%	78.5%	14.6%	6.9%	92.5%		0.7%	7.7%	0.4%	91.9%		90.4%	6.6%	44.8%	40.4%	14.9%
All	Car	Car	2011	4.9%	82.6%	11.8%	16.6%	82.6%		0.8%	6.9%	0.4%	92.7%		94.1%	4.3%	34.4%	46.2%	19.4%
All	Car	Car	2012	8.2%	74.7%	11.3%	30.1%	69.0%		0.9%	2.7%	0.5%	96.8%		97.9%	5.7%	47.3%	40.9%	11.7%
All	Car	Wagon	1975	25.3%				2.7%		0.1%							49.5%	30.0%	20.4%
All	Car	Wagon	1976	17.5%				2.6%		0.1%							33.3%	46.7%	20.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
All	Car	Wagon	1977	18.0	14.3	16.9	15.3	4005	138.1	266	127	14.6	0.523	0.0315	36.3	2559	5018	7.0%	
All	Car	Wagon	1978	19.2	15.1	18.3	16.4	3723	135.7	243	123	14.1	0.548	0.0327	35.8	2642	4875	7.2%	
All	Car	Wagon	1979	19.7	15.6	18.4	16.7	3637	135.6	234	117	14.5	0.535	0.0317	35.8	2694	4864	3.8%	3.5%
All	Car	Wagon	1980	23.6	18.5	22.5	20.1	3231	128.4	189	96	15.2	0.567	0.0297	38.4	3098	4956	11.3%	4.6%
All	Car	Wagon	1981	25.6	20.0	24.6	21.8	3040	126.2	165	94	14.6	0.644	0.0312	39.1	3287	4956	42.4%	4.2%
All	Car	Wagon	1982	25.3	19.6	24.6	21.6	3188	129.4	178	98	14.8	0.603	0.0305	40.4	3334	5245	42.0%	4.2%
All	Car	Wagon	1983	27.2	21.1	26.3	23.2	3047	123.9	161	94	14.8	0.636	0.0305	41.6	3420	5149	41.1%	22.3%
All	Car	Wagon	1984	26.4	20.4	25.9	22.6	3175	131.5	166	100	14.6	0.645	0.0311	42.1	3546	5543	62.9%	7.2%
All	Car	Wagon	1985	27.5	21.2	26.9	23.4	3112	130.2	158	101	14.3	0.677	0.0320	42.7	3638	5580	54.4%	21.5%
All	Car	Wagon	1986	27.1	20.7	26.6	23.0	3215	133.3	162	106	14.1	0.690	0.0327	43.4	3642	5813	69.4%	9.2%
All	Car	Wagon	1987	27.2	20.6	26.7	23.0	3248	133.5	162	112	13.6	0.730	0.0342	44.1	3660	5911	71.5%	10.5%
All	Car	Wagon	1988	27.6	20.7	27.0	23.3	3242	133.6	163	114	13.3	0.745	0.0352	44.6	3708	5987	73.8%	8.5%
All	Car	Wagon	1989	26.9	20.0	26.5	22.6	3327	135.5	171	121	13.0	0.758	0.0363	44.6	3663	6068	71.2%	7.7%
All	Car	Wagon	1990	26.7	19.7	26.4	22.4	3367	135.0	165	127	12.6	0.815	0.0376	45.0	3624	6080	68.9%	13.7%
All	Car	Wagon	1991	28.0	20.5	27.6	23.4	3305	134.0	158	124	12.7	0.823	0.0372	46.3	3783	6218	71.8%	12.4%
All	Car	Wagon	1992	27.5	19.9	27.4	23.0	3391	136.2	171	137	12.1	0.867	0.0403	46.7	3772	6371	70.2%	12.2%
All	Car	Wagon	1993	29.6	21.3	29.1	24.6	3154	129.8	150	117	12.8	0.811	0.0368	46.8	3894	6087	81.3%	10.3%
All	Car	Wagon	1994	29.4	20.9	29.1	24.4	3217	130.5	154	128	12.4	0.848	0.0390	47.5	3896	6196	84.9%	6.2%
All	Car	Wagon	1995	29.6	21.0	29.0	24.4	3189	129.7	147	126	12.4	0.873	0.0390	47.3	3885	6132	77.5%	15.1%
All	Car	Wagon	1996	27.7	19.6	27.0	22.8	3453	131.8	155	144	11.8	0.945	0.0414	47.9	3677	6323	66.7%	28.3%
All	Car	Wagon	1997	28.9	20.4	27.9	23.7	3283	128.0	142	138	11.6	0.972	0.0419	47.5	3741	6086	65.7%	32.9%
All	Car	Wagon	1998	28.3	19.8	27.0	23.1	3359	128.1	143	149	11.1	1.043	0.0442	47.4	3650	6084	50.7%	46.3%
All	Car	Wagon	1999	27.7	19.2	26.6	22.6	3460	130.8	148	156	10.9	1.062	0.0449	47.9	3650	6280	52.9%	43.3%
All	Car	Wagon	2000	27.7	19.2	26.2	22.4	3468	130.8	147	158	10.9	1.076	0.0454	48.0	3649	6291	58.2%	37.6%
All	Car	Wagon	2001	26.9	18.7	25.1	21.7	3631	127.0	150	162	11.0	1.084	0.0446	49.0	3448	6233	66.2%	32.2%
All	Car	Wagon	2002	26.7	18.4	24.9	21.5	3610	125.4	149	163	10.9	1.109	0.0452	48.4	3378	6090	66.5%	31.5%
All	Car	Wagon	2003	29.1	20.0	26.5	23.2	3425	121.3	135	155	10.9	1.160	0.0453	50.4	3595	6117	73.0%	25.5%
All	Car	Wagon	2004	27.8	19.0	25.4	22.1	3683	130.9	151	187	10.1	1.248	0.0504	51.4	3687	6732	65.8%	33.3%
All	Car	Wagon	2005	28.0	19.0	25.5	22.2	3652	129.7	158	189	9.9	1.220	0.0511	51.4	3705	6678	61.4%	28.2%
All	Car	Wagon	2006	28.4	19.2	25.8	22.5	3603	128.8	154	188	10.0	1.228	0.0514	51.3	3701	6605	67.5%	22.5%
All	Car	Wagon	2007	29.0	19.5	26.5	23.0	3559	123.2	148	179	10.2	1.218	0.0497	51.9	3637	6401	75.5%	21.2%
All	Car	Wagon	2008	30.2	20.4	27.4	23.9	3495	120.8	142	172	10.3	1.216	0.0487	53.1	3715	6427	70.7%	26.1%
All	Car	Wagon	2009	32.7	22.2	28.9	25.5	3324	117.0	129	156	10.6	1.208	0.0465	54.6	3872	6388	79.1%	20.8%
All	Car	Wagon	2010	34.0	23.1	29.7	26.5	3277	117.9	125	151	10.7	1.204	0.0457	56.1	4078	6629	88.2%	10.5%
All	Car	Wagon	2011	34.7	23.8	30.0	27.0	3262	114.9	122	158	10.2	1.307	0.0481	57.2	4047	6542	79.8%	19.0%
All	Car	Wagon	2012	36.7	25.2	31.0	28.2	3174	118.4	117	150	10.2	1.289	0.0472	59.9	4480	7117	83.3%	15.2%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
All	Car	Wagon	1977	18.0%				3.4%		0.3%							30.2%	43.0%	26.8%
All	Car	Wagon	1978	19.5%	7.8%			3.4%		0.5%							31.2%	43.5%	25.3%
All	Car	Wagon	1979	19.0%	4.8%			1.4%		1.1%							29.0%	45.2%	25.8%
All	Car	Wagon	1980	33.8%	31.5%			2.2%		9.3%							46.4%	38.4%	15.2%
All	Car	Wagon	1981	36.8%	27.5%			4.4%	0.0%	6.5%							52.4%	34.1%	13.5%
All	Car	Wagon	1982	28.0%	49.0%			4.3%	0.3%	4.7%							47.0%	35.0%	18.0%
All	Car	Wagon	1983	30.7%	42.1%			4.4%	13.0%	1.5%							56.7%	29.5%	13.9%
All	Car	Wagon	1984	22.1%	58.4%			6.1%	26.7%	2.0%							46.0%	36.4%	17.6%
All	Car	Wagon	1985	23.6%	58.6%			12.1%	22.7%	1.0%							50.5%	34.7%	14.8%
All	Car	Wagon	1986	21.4%	58.3%			29.8%	22.7%	0.4%	100.0%						39.7%	46.6%	13.7%
All	Car	Wagon	1987	17.3%	66.4%			48.2%	29.2%	0.3%	90.5%	2.2%	7.3%				44.7%	44.4%	10.9%
All	Car	Wagon	1988	17.4%	67.1%			48.9%	39.8%		91.9%	0.3%	7.8%				41.3%	46.4%	12.3%
All	Car	Wagon	1989	12.9%	73.3%			64.1%	23.2%		85.6%	1.1%	13.3%				34.5%	51.9%	13.6%
All	Car	Wagon	1990	13.9%	76.5%			76.4%	18.0%		70.8%		29.2%				42.6%	49.1%	8.3%
All	Car	Wagon	1991	14.7%	80.4%			80.8%	19.2%		71.1%		28.9%				57.1%	33.5%	9.4%
All	Car	Wagon	1992	15.2%	80.2%			89.0%	11.0%		74.3%		25.7%		0.7%		46.6%	44.7%	8.7%
All	Car	Wagon	1993	18.6%	78.7%			93.5%	6.5%		79.6%		20.4%		0.3%		62.1%	34.1%	3.8%
All	Car	Wagon	1994	16.4%	81.7%			98.7%	1.3%		80.4%		19.6%		4.4%		57.3%	38.4%	4.4%
All	Car	Wagon	1995	16.9%	81.7%			100.0%			63.5%		36.5%		5.1%		51.5%	45.8%	2.7%
All	Car	Wagon	1996	15.1%	84.9%			99.5%		0.5%	42.9%		57.1%		5.8%		33.5%	63.0%	3.5%
All	Car	Wagon	1997	16.5%	83.5%			100.0%		0.0%	45.9%		54.1%		3.9%		50.0%	50.0%	
All	Car	Wagon	1998	15.7%	84.3%			100.0%			27.7%	1.9%	68.1%	2.3%	6.8%		39.0%	61.0%	
All	Car	Wagon	1999	14.5%	84.8%			100.0%			22.9%	2.3%	66.5%	8.4%	12.3%		30.0%	70.0%	
All	Car	Wagon	2000	11.1%	87.4%			100.0%			20.1%	1.8%	69.1%	9.0%	25.0%		22.4%	77.6%	
All	Car	Wagon	2001	11.6%	88.1%			100.0%			7.3%	1.3%	84.0%	7.5%	22.5%		47.3%	52.7%	
All	Car	Wagon	2002	14.6%	85.1%			99.5%		0.5%	5.9%	1.8%	86.1%	6.3%	18.4%		53.2%	46.8%	
All	Car	Wagon	2003	14.1%	85.9%			98.7%		1.3%	4.9%	0.9%	86.8%	7.4%	42.5%		66.4%	33.6%	
All	Car	Wagon	2004	10.5%	89.5%			99.2%		0.8%	2.8%	1.5%	90.6%	5.1%	41.6%		54.0%	28.4%	17.7%
All	Car	Wagon	2005	10.1%	89.9%			99.0%		1.0%	17.8%	0.6%	79.8%	1.8%	40.9%		50.6%	33.0%	16.4%
All	Car	Wagon	2006	8.5%	91.5%			100.0%			7.9%	2.6%	89.5%	0.0%	44.6%		60.5%	27.0%	12.5%
All	Car	Wagon	2007	8.4%	91.6%			99.8%		0.2%	7.4%	0.2%	92.3%	0.0%	39.9%		63.5%	24.6%	11.9%
All	Car	Wagon	2008	12.7%	87.3%		2.8%	97.0%		0.2%	0.7%		99.3%	0.0%	43.6%		72.2%	23.8%	4.0%
All	Car	Wagon	2009	12.1%	84.4%	3.5%	2.6%	95.2%		2.2%			100.0%		75.7%		86.5%	12.9%	0.6%
All	Car	Wagon	2010	10.2%	68.4%	16.2%	3.2%	91.4%		5.3%			100.0%		92.5%		98.3%	1.7%	
All	Car	Wagon	2011	12.9%	60.6%	26.5%	13.9%	79.3%		6.8%	0.1%		99.9%		91.0%		99.0%	1.0%	
All	Car	Wagon	2012	11.6%	55.7%	28.6%	18.4%	77.1%		4.5%	0.1%		99.9%		93.8%	7.1%	92.7%	7.3%	

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
All	Car	Non-Truck SUV	1975	13.1	10.1	12.6	11.1	4000		262	113	15.6	0.430	0.0282	26.5				
All	Car	Non-Truck SUV	1976	12.4	9.4	12.5	10.6	3986		263	123	14.6	0.467	0.0309	25.9				
All	Car	Non-Truck SUV	1977	14.3	11.2	13.6	12.2	4000	105.1	261	124	14.4	0.477	0.0311	29.5	1562	3124		
All	Car	Non-Truck SUV	1978	13.6	10.4	13.5	11.6	4000	104.6	262	126	14.2	0.481	0.0315	27.9	1471	2943		
All	Car	Non-Truck SUV	1979	16.8	13.9	14.8	14.3	3271	104.1	185	99	14.9	0.576	0.0300	27.8	1823	2890		
All	Car	Non-Truck SUV	1980	17.2	13.9	15.5	14.6	4000	125.0	280	122	15.1	0.436	0.0305	34.6	2162	4325		
All	Car	Non-Truck SUV	1981	17.3	13.7	16.1	14.7	4000	125.0	318	140	13.3	0.440	0.0350	34.5	2158	4315		
All	Car	Non-Truck SUV	1982	23.4	20.2	19.3	19.8	2630	103.4	159	88	13.7	0.557	0.0335	30.7	2425	3202		
All	Car	Non-Truck SUV	1983	24.3	19.5	22.4	20.7	3124	115.6	163	101	14.1	0.617	0.0325	38.4	2833	4523		
All	Car	Non-Truck SUV	1984	22.6	17.5	22.1	19.3	3487	123.6	179	109	14.5	0.615	0.0313	39.7	2829	4925		
All	Car	Non-Truck SUV	1985	23.5	17.6	24.2	20.1	3469	125.0	171	109	14.4	0.637	0.0314	40.8	2940	5100		
All	Car	Non-Truck SUV	1986	22.3	17.1	21.7	18.9	3479	125.0	170	121	13.3	0.713	0.0348	38.9	2795	4858		
All	Car	Non-Truck SUV	1987	22.9	17.1	23.1	19.4	3492	119.0	179	131	12.7	0.730	0.0374	40.0	2725	4756		
All	Car	Non-Truck SUV	1988	22.7	17.1	22.5	19.2	3495	116.2	199	142	11.9	0.719	0.0405	39.9	2650	4628		
All	Car	Non-Truck SUV	1989	22.7	17.1	22.1	19.1	3497	117.0	226	148	11.4	0.668	0.0422	39.8	2658	4647		
All	Car	Non-Truck SUV	1990	22.5	16.9	21.5	18.8	3518	114.7	209	146	11.7	0.714	0.0415	39.6	2580	4530		
All	Car	Non-Truck SUV	1991	21.8	16.4	20.5	18.2	3733	119.8	215	145	12.6	0.680	0.0385	40.7	2628	4896		
All	Car	Non-Truck SUV	1992	21.4	16.1	20.1	17.8	3713	120.0	210	153	12.0	0.734	0.0409	39.9	2594	4802		
All	Car	Non-Truck SUV	1993	20.4	15.0	19.6	17.0	3848	122.4	238	179	10.8	0.757	0.0462	39.5	2524	4847		
All	Car	Non-Truck SUV	1994	21.8	16.1	20.5	18.0	3735	120.3	209	163	11.3	0.791	0.0434	40.6	2632	4904	2.6%	
All	Car	Non-Truck SUV	1995	21.5	15.7	20.5	17.8	3763	122.1	214	165	11.4	0.783	0.0436	40.6	2648	4965	0.1%	
All	Car	Non-Truck SUV	1996	22.4	16.2	21.1	18.4	3710	121.4	215	167	11.0	0.802	0.0448	41.7	2736	5058	6.3%	
All	Car	Non-Truck SUV	1997	23.5	17.1	21.7	19.2	3549	114.7	190	159	11.0	0.875	0.0446	41.9	2716	4803	20.3%	
All	Car	Non-Truck SUV	1998	22.3	16.0	20.8	18.2	3824	120.4	218	168	11.1	0.802	0.0439	42.8	2703	5149	10.3%	
All	Car	Non-Truck SUV	1999	22.7	16.3	21.0	18.5	3831	121.8	211	170	11.1	0.846	0.0442	43.7	2788	5327	15.4%	
All	Car	Non-Truck SUV	2000	22.0	15.7	20.3	17.9	3870	119.8	211	174	11.0	0.857	0.0448	42.8	2661	5137	12.7%	
All	Car	Non-Truck SUV	2001	23.3	16.4	21.4	18.8	3765	121.8	194	180	10.5	0.961	0.0477	44.2	2860	5376	37.1%	
All	Car	Non-Truck SUV	2002	24.0	16.8	22.0	19.3	3747	122.0	183	179	10.4	1.003	0.0479	45.3	2965	5542	55.5%	
All	Car	Non-Truck SUV	2003	24.8	17.2	22.7	19.9	3716	124.1	181	181	10.3	1.014	0.0486	46.4	3114	5773	65.9%	
All	Car	Non-Truck SUV	2004	24.9	17.0	23.1	20.0	3854	126.9	191	198	9.9	1.039	0.0511	48.2	3184	6126	72.9%	3.4%
All	Car	Non-Truck SUV	2005	25.4	17.3	23.2	20.2	3848	132.8	186	192	10.1	1.040	0.0498	49.0	3388	6513	74.0%	14.5%
All	Car	Non-Truck SUV	2006	25.7	17.5	23.5	20.5	3876	133.6	184	192	10.2	1.051	0.0493	50.0	3457	6680	77.7%	8.6%
All	Car	Non-Truck SUV	2007	25.9	17.6	23.8	20.6	3935	133.3	185	208	9.7	1.127	0.0524	51.2	3479	6824	85.4%	4.7%
All	Car	Non-Truck SUV	2008	26.6	18.1	24.4	21.2	3902	131.8	179	204	9.8	1.141	0.0518	52.4	3547	6904	87.0%	5.3%
All	Car	Non-Truck SUV	2009	27.8	18.8	25.3	22.0	3846	131.2	175	206	9.6	1.174	0.0534	53.9	3682	7066	92.2%	2.8%
All	Car	Non-Truck SUV	2010	29.1	19.6	26.5	23.0	3949	132.8	172	213	9.5	1.240	0.0538	57.8	3896	7684	88.4%	8.9%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
All	Car	Non-Truck SUV	1975	68.3%													61.4%	38.6%	
All	Car	Non-Truck SUV	1976	69.1%													63.1%	36.9%	
All	Car	Non-Truck SUV	1977	82.5%													79.5%	20.5%	
All	Car	Non-Truck SUV	1978	84.2%													81.6%	18.4%	
All	Car	Non-Truck SUV	1979	37.7%	3.9%												83.5%	16.5%	
All	Car	Non-Truck SUV	1980	3.9%	86.8%													100.0%	
All	Car	Non-Truck SUV	1981		100.0%													100.0%	
All	Car	Non-Truck SUV	1982	4.6%	8.9%												86.5%	13.5%	
All	Car	Non-Truck SUV	1983	19.3%	43.2%												37.6%	62.4%	
All	Car	Non-Truck SUV	1984	19.4%	64.8%												5.6%	94.4%	
All	Car	Non-Truck SUV	1985	15.9%	84.1%				5.3%									100.0%	
All	Car	Non-Truck SUV	1986	18.1%	81.9%			0.0%	86.8%	0.0%	100.0%						0.0%	100.0%	
All	Car	Non-Truck SUV	1987	14.3%	85.7%			32.8%	67.2%		100.0%						24.1%	75.9%	
All	Car	Non-Truck SUV	1988	24.6%	75.4%			48.2%	51.8%		100.0%						35.2%	64.8%	
All	Car	Non-Truck SUV	1989	27.4%	72.6%			44.7%	53.9%		100.0%						32.0%	68.0%	
All	Car	Non-Truck SUV	1990	35.1%	63.0%			63.3%	31.6%		100.0%						41.2%	58.8%	
All	Car	Non-Truck SUV	1991	22.2%	77.7%			49.3%	49.9%		100.0%						20.9%	79.1%	
All	Car	Non-Truck SUV	1992	24.6%	75.4%			68.4%	30.3%		100.0%						19.9%	80.1%	
All	Car	Non-Truck SUV	1993	10.9%	89.1%			90.6%	8.7%		100.0%						10.2%	89.8%	
All	Car	Non-Truck SUV	1994	21.5%	70.9%			92.1%	7.9%		88.5%		11.5%				18.7%	81.3%	
All	Car	Non-Truck SUV	1995	17.4%	82.6%			90.8%	9.2%		80.9%		19.1%				11.5%	88.5%	
All	Car	Non-Truck SUV	1996	15.4%	84.6%			100.0%			67.6%		32.4%				14.4%	85.6%	
All	Car	Non-Truck SUV	1997	23.2%	70.7%			100.0%			45.4%		54.6%				41.3%	58.7%	
All	Car	Non-Truck SUV	1998	11.1%	88.9%			100.0%			70.8%		29.2%				18.4%	81.6%	
All	Car	Non-Truck SUV	1999	8.4%	91.6%			100.0%			61.6%		38.4%		4.6%		13.5%	85.6%	0.9%
All	Car	Non-Truck SUV	2000	5.7%	94.3%			100.0%			66.0%		34.0%		5.0%		21.2%	78.1%	0.6%
All	Car	Non-Truck SUV	2001	6.2%	93.8%			100.0%			56.9%		43.1%		10.0%		18.7%	75.3%	6.0%
All	Car	Non-Truck SUV	2002	7.5%	92.3%	0.2%		100.0%			29.7%		70.3%		18.2%		18.3%	75.3%	6.4%
All	Car	Non-Truck SUV	2003	7.2%	84.3%	8.5%		100.0%			31.9%		68.1%		19.6%		10.0%	83.4%	6.6%
All	Car	Non-Truck SUV	2004	5.8%	87.9%	6.3%		100.0%			24.5%		75.5%		37.9%		7.0%	78.4%	14.6%
All	Car	Non-Truck SUV	2005	3.7%	91.9%	4.5%		100.0%			32.5%		67.5%		27.3%	0.5%	5.0%	58.8%	36.2%
All	Car	Non-Truck SUV	2006	3.1%	91.7%	5.2%		100.0%			13.2%		86.8%		33.4%	1.1%		65.8%	34.2%
All	Car	Non-Truck SUV	2007	1.6%	94.5%	3.9%		100.0%			17.3%		82.7%		46.8%	1.6%	0.2%	66.3%	33.4%
All	Car	Non-Truck SUV	2008	0.7%	93.6%	5.7%	2.2%	97.8%			10.4%		89.6%		56.4%	2.3%		72.8%	27.2%
All	Car	Non-Truck SUV	2009	0.6%	85.9%	13.5%	1.3%	98.7%			5.9%		94.1%		73.7%	2.7%		75.2%	24.8%
All	Car	Non-Truck SUV	2010	0.2%	91.5%	8.3%	26.2%	73.8%					100.0%		99.9%	1.4%		58.9%	41.1%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
All	Car	Non-Truck SUV	2011	29.9	20.0	27.4	23.6	3890	134.7	166	207	9.7	1.243	0.0530	58.5	4057	7897	88.8%	9.7%
All	Car	Non-Truck SUV	2012	30.6	20.4	28.0	24.1	3908	135.5	163	207	9.7	1.263	0.0527	60.3	4192	8192	86.9%	11.2%
All	Truck	Van	1975	13.1	10.6	11.9	11.1	4196		318	143	13.9	0.448	0.0341	28.1				
All	Truck	Van	1976	13.9	11.1	12.8	11.8	4200		324	146	13.7	0.447	0.0347	29.7				
All	Truck	Van	1977	14.7	11.9	13.3	12.5	4252		332	152	13.3	0.458	0.0359	31.7				
All	Truck	Van	1978	14.2	11.6	12.7	12.1	4250		329	149	13.4	0.453	0.0351	30.8				
All	Truck	Van	1979	13.5	11.1	12.1	11.5	4541		322	144	14.6	0.451	0.0317	31.3				
All	Truck	Van	1980	16.6	13.3	15.4	14.1	4353		288	131	15.2	0.459	0.0299	36.4				
All	Truck	Van	1981	17.5	14.0	16.0	14.8	4324		284	129	15.3	0.458	0.0298	38.0			0.3%	
All	Truck	Van	1982	17.3	13.9	15.9	14.7	4342		287	132	15.2	0.463	0.0303	38.0				
All	Truck	Van	1983	17.7	14.1	16.5	15.1	4414		294	136	15.0	0.466	0.0307	39.7			0.2%	
All	Truck	Van	1984	18.9	15.0	17.7	16.1	4075		249	126	14.9	0.538	0.0307	39.3			22.3%	
All	Truck	Van	1985	19.5	15.5	18.1	16.5	3975		236	129	14.3	0.578	0.0322	39.3			30.4%	0.3%
All	Truck	Van	1986	20.6	16.1	19.4	17.5	3998		228	127	14.5	0.588	0.0317	41.5			24.4%	1.3%
All	Truck	Van	1987	20.9	16.2	19.8	17.7	3972		226	142	13.3	0.657	0.0356	41.7			27.5%	1.9%
All	Truck	Van	1988	21.2	16.2	20.3	17.9	4053		229	147	13.0	0.671	0.0363	43.2			36.3%	0.8%
All	Truck	Van	1989	21.1	16.1	20.2	17.8	4057		225	146	13.1	0.680	0.0360	43.2			34.4%	0.7%
All	Truck	Van	1990	21.2	16.0	20.4	17.8	4095		225	149	13.0	0.682	0.0363	43.8			46.8%	6.6%
All	Truck	Van	1991	21.4	16.0	20.5	17.9	4133		220	149	13.1	0.701	0.0359	44.5			38.2%	10.9%
All	Truck	Van	1992	21.5	15.9	20.5	17.9	4151		222	152	12.9	0.705	0.0366	44.8			45.4%	5.5%
All	Truck	Van	1993	21.9	16.0	21.0	18.2	4105		218	155	12.6	0.730	0.0378	45.0			49.8%	4.5%
All	Truck	Van	1994	21.5	15.7	20.5	17.8	4156		226	159	12.4	0.721	0.0383	44.9			52.3%	6.4%
All	Truck	Van	1995	21.8	15.8	21.0	18.1	4110		231	159	12.3	0.708	0.0387	45.0			61.3%	9.1%
All	Truck	Van	1996	22.2	15.9	21.4	18.3	4195		220	171	11.8	0.790	0.0408	46.8			73.8%	2.3%
All	Truck	Van	1997	22.1	15.7	21.2	18.2	4240		220	174	11.8	0.802	0.0410	46.9			64.8%	4.7%
All	Truck	Van	1998	22.7	16.0	22.0	18.7	4183		217	180	11.3	0.840	0.0431	47.7			78.3%	3.2%
All	Truck	Van	1999	22.3	15.6	21.5	18.3	4306		223	183	11.4	0.832	0.0424	48.1			76.0%	2.7%
All	Truck	Van	2000	22.8	15.9	21.8	18.6	4276		217	183	11.4	0.858	0.0428	48.9			80.6%	2.7%
All	Truck	Van	2001	22.1	15.3	21.1	18.0	4518		229	202	10.9	0.897	0.0447	50.3			69.3%	8.7%
All	Truck	Van	2002	23.1	15.9	21.9	18.7	4394		218	199	10.8	0.929	0.0455	50.9			84.3%	3.0%
All	Truck	Van	2003	23.5	16.0	22.2	19.0	4393		219	202	10.7	0.929	0.0459	51.7			83.5%	5.0%
All	Truck	Van	2004	23.7	16.0	22.7	19.2	4487		219	214	10.4	0.988	0.0477	53.4			86.6%	4.9%
All	Truck	Van	2005	24.0	16.1	22.8	19.3	4430		216	209	10.5	0.976	0.0472	53.2			89.2%	5.5%
All	Truck	Van	2006	24.3	16.2	23.1	19.5	4475		216	211	10.5	0.984	0.0472	54.4			89.8%	4.5%
All	Truck	Van	2007	24.2	16.1	23.1	19.5	4479		219	225	10.0	1.034	0.0503	54.3			93.8%	2.9%
All	Truck	Van	2008	24.6	16.4	23.5	19.8	4527		220	221	10.4	1.010	0.0488	55.9			92.9%	4.0%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
All	Car	Non-Truck SUV	2011	0.5%	91.5%	8.0%	27.6%	72.4%					100.0%		99.8%	0.6%		61.3%	38.7%
All	Car	Non-Truck SUV	2012	0.6%	92.4%	7.0%	39.7%	60.3%					100.0%		100.0%	0.8%		58.3%	41.7%
All	Truck	Van	1975	23.3%					0.2%								0.4%	66.1%	33.6%
All	Truck	Van	1976	20.5%					0.3%								0.3%	61.4%	38.3%
All	Truck	Van	1977	14.3%					0.4%								0.4%	61.0%	38.6%
All	Truck	Van	1978	13.0%					0.4%								0.4%	63.8%	35.8%
All	Truck	Van	1979	14.8%	6.8%				1.8%								1.8%	65.1%	33.1%
All	Truck	Van	1980	26.0%	39.0%				6.5%								6.5%	53.8%	39.7%
All	Truck	Van	1981	21.9%	46.6%				4.6%								4.6%	56.3%	39.2%
All	Truck	Van	1982	15.7%	45.8%				3.0%	1.8%							4.8%	58.0%	37.2%
All	Truck	Van	1983	12.0%	59.3%				3.5%	4.5%							3.7%	60.1%	36.2%
All	Truck	Van	1984	15.5%	45.6%			6.6%	3.1%	1.2%							12.2%	62.1%	25.7%
All	Truck	Van	1985	10.0%	47.4%			6.3%	2.9%	0.3%							10.9%	70.1%	19.0%
All	Truck	Van	1986	8.5%	60.1%			21.8%	16.3%	0.4%							9.8%	74.9%	15.3%
All	Truck	Van	1987	6.4%	67.6%			45.8%	30.2%	0.1%							11.3%	76.2%	12.5%
All	Truck	Van	1988	3.7%	78.7%			56.9%	42.8%	0.1%							4.9%	83.0%	12.1%
All	Truck	Van	1989	2.9%	76.5%			58.1%	41.8%	0.1%							2.8%	86.1%	11.1%
All	Truck	Van	1990	1.8%	93.5%			58.1%	41.9%	0.1%							2.4%	89.1%	8.5%
All	Truck	Van	1991	1.4%	96.5%			63.3%	36.6%	0.1%							1.5%	91.2%	7.3%
All	Truck	Van	1992	1.6%	96.4%			71.9%	28.1%	0.1%							3.3%	89.1%	7.6%
All	Truck	Van	1993	1.2%	97.2%			79.0%	21.0%								0.8%	91.8%	7.4%
All	Truck	Van	1994	0.5%	97.4%			81.2%	18.8%		96.5%	2.1%	1.4%				0.8%	91.4%	7.9%
All	Truck	Van	1995	0.1%	98.2%			87.4%	12.6%		95.5%	1.0%	3.6%				0.4%	93.4%	6.3%
All	Truck	Van	1996	0.0%	98.4%			100.0%			94.3%	1.0%	4.7%				0.1%	92.1%	7.8%
All	Truck	Van	1997		99.6%			100.0%			93.7%	1.1%	5.3%					89.0%	11.0%
All	Truck	Van	1998		100.0%			100.0%			89.6%		10.4%					91.1%	8.9%
All	Truck	Van	1999		100.0%			100.0%			87.5%		12.5%		8.2%			88.3%	11.7%
All	Truck	Van	2000		100.0%			100.0%			78.4%		21.6%		15.0%			90.0%	10.0%
All	Truck	Van	2001		100.0%			100.0%			77.4%		22.6%		17.0%			76.2%	23.8%
All	Truck	Van	2002		100.0%			100.0%			71.6%		28.4%		20.9%			91.0%	9.0%
All	Truck	Van	2003		100.0%			100.0%			74.2%		25.8%		19.6%			91.0%	9.0%
All	Truck	Van	2004		100.0%			100.0%			47.7%		52.3%		46.1%			93.7%	6.3%
All	Truck	Van	2005		94.9%	5.1%		100.0%			62.0%		38.0%		25.0%			96.3%	3.7%
All	Truck	Van	2006		95.3%	4.7%		100.0%			53.2%		46.8%		36.4%			94.0%	6.0%
All	Truck	Van	2007		95.5%	4.5%		100.0%			46.9%		53.1%		48.7%			96.3%	3.7%
All	Truck	Van	2008	0.1%	99.9%			100.0%			47.2%		52.8%		48.1%		2.1%	94.5%	3.4%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
All	Truck	Van	2009	25.0	16.7	23.7	20.1	4572		215	220	10.4	1.033	0.0482	57.2			94.1%	2.5%
All	Truck	Van	2010	25.0	16.7	23.7	20.1	4533		214	212	10.6	1.001	0.0467	56.8			96.3%	1.6%
All	Truck	Van	2011	26.3	17.5	24.7	21.0	4501		212	259	9.0	1.224	0.0574	59.2			91.5%	5.6%
All	Truck	Van	2012	26.3	17.5	24.9	21.1	4485		214	259	9.0	1.217	0.0576	59.1			92.5%	2.9%
All	Truck	Truck SUV	1975	13.0	10.6	11.5	11.0	4214		332	148	13.2	0.443	0.0361	27.2				88.9%
All	Truck	Truck SUV	1976	13.9	11.2	12.5	11.8	4328		339	142	14.0	0.415	0.0333	29.8				89.5%
All	Truck	Truck SUV	1977	15.1	12.2	13.7	12.8	4248		337	145	13.5	0.428	0.0345	32.0				88.4%
All	Truck	Truck SUV	1978	14.5	11.6	13.2	12.3	4282		342	150	13.2	0.435	0.0353	30.8				92.4%
All	Truck	Truck SUV	1979	12.4	10.3	10.8	10.5	4561		337	145	14.4	0.433	0.0323	28.3				72.2%
All	Truck	Truck SUV	1980	15.5	12.5	14.1	13.2	4237		295	131	14.7	0.453	0.0307	32.9				88.9%
All	Truck	Truck SUV	1981	16.8	13.4	15.5	14.3	4208		290	132	14.4	0.460	0.0315	35.4				90.5%
All	Truck	Truck SUV	1982	17.3	13.7	16.2	14.7	4494		305	133	15.1	0.444	0.0300	39.9				86.2%
All	Truck	Truck SUV	1983	18.5	14.5	17.7	15.8	4270		265	127	15.1	0.507	0.0300	40.3				91.3%
All	Truck	Truck SUV	1984	19.0	14.9	18.0	16.2	4049		231	122	15.0	0.554	0.0300	39.0				93.3%
All	Truck	Truck SUV	1985	19.4	15.1	18.7	16.5	4092		222	123	15.1	0.583	0.0299	40.2				91.3%
All	Truck	Truck SUV	1986	20.1	15.6	19.1	17.0	3958		210	128	14.2	0.653	0.0323	40.0				93.3%
All	Truck	Truck SUV	1987	20.4	15.8	19.5	17.3	3882		212	137	13.4	0.680	0.0353	39.7				94.1%
All	Truck	Truck SUV	1988	20.2	15.5	19.2	17.0	3906		222	144	12.9	0.682	0.0369	39.4				94.3%
All	Truck	Truck SUV	1989	19.7	15.0	18.6	16.6	4086		244	156	12.5	0.665	0.0384	40.3				93.5%
All	Truck	Truck SUV	1990	19.6	14.8	18.6	16.4	4098		235	155	12.6	0.694	0.0381	40.1				92.5%
All	Truck	Truck SUV	1991	20.0	15.0	19.1	16.7	4157		233	162	12.3	0.709	0.0391	41.6				96.3%
All	Truck	Truck SUV	1992	19.4	14.5	18.5	16.2	4204		235	170	11.9	0.738	0.0408	40.8				95.4%
All	Truck	Truck SUV	1993	19.6	14.5	18.6	16.3	4331		244	179	11.7	0.753	0.0419	42.3				93.1%
All	Truck	Truck SUV	1994	19.3	14.3	18.2	16.0	4331		245	180	11.6	0.756	0.0420	41.8				95.7%
All	Truck	Truck SUV	1995	19.3	14.2	18.2	16.0	4323		245	177	11.7	0.751	0.0414	41.8				90.1%
All	Truck	Truck SUV	1996	19.6	14.2	18.7	16.2	4386		259	189	11.3	0.744	0.0432	43.1				83.8%
All	Truck	Truck SUV	1997	19.6	14.2	18.4	16.1	4463		255	190	11.4	0.765	0.0427	43.7				81.9%
All	Truck	Truck SUV	1998	19.7	14.1	18.5	16.2	4450		252	192	11.3	0.786	0.0432	43.9				86.2%
All	Truck	Truck SUV	1999	19.6	14.1	18.4	16.1	4518		253	204	10.9	0.837	0.0452	44.4				79.4%
All	Truck	Truck SUV	2000	19.6	14.0	18.2	16.0	4602		253	206	10.9	0.839	0.0449	45.2				83.5%
All	Truck	Truck SUV	2001	20.2	14.4	18.6	16.4	4546		239	213	10.6	0.920	0.0469	46.0			7.4%	76.5%
All	Truck	Truck SUV	2002	20.1	14.1	18.7	16.3	4636		245	229	10.2	0.952	0.0493	46.6			1.7%	74.5%
All	Truck	Truck SUV	2003	20.3	14.1	18.8	16.4	4754		247	233	10.2	0.967	0.0492	48.2			2.6%	73.7%
All	Truck	Truck SUV	2004	20.4	14.1	19.0	16.5	4756		252	240	10.0	0.973	0.0505	48.5			2.8%	74.8%
All	Truck	Truck SUV	2005	20.8	14.3	19.2	16.7	4756		244	244	9.8	1.018	0.0512	49.6			2.9%	77.2%
All	Truck	Truck SUV	2006	21.4	14.7	19.7	17.2	4715		236	240	9.8	1.028	0.0507	50.9			5.1%	77.2%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
All	Truck	Van	2009	0.3%	99.7%			100.0%			41.1%		58.9%		47.1%		6.0%	89.9%	4.1%
All	Truck	Van	2010	0.2%	99.8%			100.0%			48.2%		51.8%		37.7%		3.6%	93.7%	2.7%
All	Truck	Van	2011		96.9%	3.1%		100.0%			3.4%		96.6%		92.5%			96.6%	3.4%
All	Truck	Van	2012		91.8%	8.2%		100.0%			5.0%		95.0%		89.3%			95.8%	4.2%
All	Truck	Truck SUV	1975	39.8%													26.7%	67.3%	6.1%
All	Truck	Truck SUV	1976	32.2%													22.6%	70.5%	6.9%
All	Truck	Truck SUV	1977	32.6%													21.5%	71.9%	6.6%
All	Truck	Truck SUV	1978	32.1%													21.4%	73.3%	5.4%
All	Truck	Truck SUV	1979	33.1%	0.4%					0.2%							23.7%	48.0%	28.3%
All	Truck	Truck SUV	1980	43.6%	26.1%					2.3%							32.9%	54.3%	12.8%
All	Truck	Truck SUV	1981	41.0%	41.1%												31.4%	58.2%	10.4%
All	Truck	Truck SUV	1982	31.9%	45.0%					16.6%							21.1%	64.4%	14.5%
All	Truck	Truck SUV	1983	33.7%	52.3%					7.6%							16.7%	71.4%	11.9%
All	Truck	Truck SUV	1984	30.3%	40.8%					2.5%							24.9%	66.5%	8.6%
All	Truck	Truck SUV	1985	29.5%	56.9%			4.4%	1.0%	1.7%							17.8%	73.3%	8.9%
All	Truck	Truck SUV	1986	38.9%	53.6%			25.9%	20.6%	1.7%							24.7%	67.1%	8.2%
All	Truck	Truck SUV	1987	39.6%	51.0%			33.1%	38.7%	0.5%							29.8%	62.9%	7.3%
All	Truck	Truck SUV	1988	34.5%	57.5%			47.3%	34.8%	0.3%							29.1%	62.9%	8.1%
All	Truck	Truck SUV	1989	26.0%	65.6%			46.3%	46.5%	0.3%							23.6%	67.3%	9.0%
All	Truck	Truck SUV	1990	29.1%	66.8%			56.7%	37.8%	0.3%							25.3%	63.5%	11.2%
All	Truck	Truck SUV	1991	21.8%	76.5%			62.2%	37.2%	0.2%							10.2%	83.5%	6.2%
All	Truck	Truck SUV	1992	21.7%	77.4%			74.5%	25.5%								10.6%	79.5%	9.8%
All	Truck	Truck SUV	1993	19.1%	79.9%			83.0%	17.0%								11.4%	73.2%	15.4%
All	Truck	Truck SUV	1994	15.2%	84.8%			84.7%	15.3%		86.6%	5.4%	8.0%				9.8%	77.1%	13.1%
All	Truck	Truck SUV	1995	15.0%	85.0%			84.9%	15.1%		84.9%		15.1%				10.3%	75.3%	14.4%
All	Truck	Truck SUV	1996	6.1%	93.9%			100.0%		0.0%	86.5%		13.5%				4.9%	80.0%	15.0%
All	Truck	Truck SUV	1997	9.7%	90.3%			100.0%		0.0%	80.9%		19.1%				16.3%	56.9%	26.8%
All	Truck	Truck SUV	1998	7.5%	92.5%			100.0%		0.0%	78.0%	1.9%	20.1%				10.9%	58.9%	30.2%
All	Truck	Truck SUV	1999	5.9%	94.1%			100.0%			73.6%	2.2%	24.2%		2.9%		10.6%	57.4%	32.0%
All	Truck	Truck SUV	2000	4.9%	95.1%			100.0%			77.3%	1.4%	21.3%		2.5%		10.6%	54.7%	34.7%
All	Truck	Truck SUV	2001	3.8%	96.2%			100.0%			60.4%	1.5%	38.1%		14.4%		9.3%	51.1%	39.6%
All	Truck	Truck SUV	2002	3.2%	96.7%	0.0%		100.0%			55.8%	1.2%	43.0%		25.0%		6.8%	37.6%	55.6%
All	Truck	Truck SUV	2003	2.2%	96.5%	1.3%		100.0%			48.4%	1.0%	50.6%		33.4%		5.8%	46.0%	48.2%
All	Truck	Truck SUV	2004	2.2%	96.7%	1.0%		100.0%		0.0%	46.8%	0.5%	52.3%	0.4%	38.4%		5.2%	49.1%	45.7%
All	Truck	Truck SUV	2005	2.2%	96.3%	1.5%		99.7%		0.3%	35.7%	4.2%	59.8%	0.2%	50.0%	0.2%	5.3%	49.0%	45.7%
All	Truck	Truck SUV	2006	2.4%	93.0%	4.6%		99.7%		0.3%	30.2%	6.6%	63.1%	0.1%	60.2%	3.1%	4.4%	54.0%	41.6%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
All	Truck	Truck SUV	2007	22.0	15.1	20.3	17.7	4797		240	252	9.7	1.068	0.0523	53.1			6.5%	75.3%
All	Truck	Truck SUV	2008	22.7	15.5	20.9	18.2	4727		230	250	9.6	1.105	0.0525	54.0			10.1%	75.7%
All	Truck	Truck SUV	2009	24.1	16.4	22.2	19.3	4547		211	244	9.5	1.170	0.0532	55.1			17.5%	75.0%
All	Truck	Truck SUV	2010	24.7	16.8	22.6	19.7	4555		212	243	9.5	1.163	0.0531	56.6			14.2%	77.7%
All	Truck	Truck SUV	2011	24.9	16.9	22.9	19.8	4665		217	257	9.4	1.203	0.0547	58.2			13.8%	77.3%
All	Truck	Truck SUV	2012	25.4	17.2	23.3	20.2	4602		215	261	9.1	1.237	0.0564	58.6			15.4%	76.5%
All	Truck	Pickup	1975	14.0	11.1	13.1	11.9	4012		306	141	13.5	0.491	0.0351	28.8				13.5%
All	Truck	Pickup	1976	14.6	11.7	13.4	12.4	4122		316	139	13.9	0.466	0.0339	30.9				20.9%
All	Truck	Pickup	1977	16.0	12.9	14.5	13.6	4092		313	146	13.3	0.496	0.0357	33.4				21.4%
All	Truck	Pickup	1978	15.7	12.8	14.1	13.3	4104		306	144	13.4	0.496	0.0350	33.1				27.0%
All	Truck	Pickup	1979	15.5	12.7	13.9	13.2	4142		287	136	14.2	0.502	0.0327	32.9				12.6%
All	Truck	Pickup	1980	19.4	15.5	17.9	16.5	3740		236	118	14.4	0.549	0.0315	36.7			1.8%	21.1%
All	Truck	Pickup	1981	21.0	16.7	19.5	17.9	3679		237	115	14.5	0.521	0.0313	39.3			2.3%	16.8%
All	Truck	Pickup	1982	21.7	17.2	20.3	18.5	3629		228	117	14.3	0.545	0.0322	40.1			2.2%	17.7%
All	Truck	Pickup	1983	22.2	17.5	20.9	18.9	3544		212	112	14.4	0.566	0.0317	40.0			1.9%	22.1%
All	Truck	Pickup	1984	21.5	16.9	20.2	18.3	3619		215	114	14.5	0.563	0.0314	39.4			0.6%	24.7%
All	Truck	Pickup	1985	21.4	16.9	20.1	18.2	3642		221	123	13.7	0.588	0.0336	39.6				25.4%
All	Truck	Pickup	1986	22.2	17.5	20.8	18.9	3574		206	120	13.7	0.623	0.0336	40.1				25.2%
All	Truck	Pickup	1987	22.5	17.5	21.2	19.0	3526		202	123	13.4	0.639	0.0347	40.1			0.0%	25.5%
All	Truck	Pickup	1988	21.5	16.5	20.4	18.1	3737		229	138	12.9	0.627	0.0365	40.5			0.0%	28.4%
All	Truck	Pickup	1989	21.2	16.2	20.0	17.8	3803		236	143	12.7	0.633	0.0373	40.5				28.9%
All	Truck	Pickup	1990	20.7	15.7	19.7	17.4	3928		247	152	12.4	0.647	0.0384	41.1				27.9%
All	Truck	Pickup	1991	21.7	16.3	20.7	18.2	3779		232	146	12.4	0.658	0.0385	41.4				24.8%
All	Truck	Pickup	1992	20.9	15.5	20.0	17.5	3976		245	151	12.5	0.644	0.0379	41.8				26.3%
All	Truck	Pickup	1993	21.1	15.6	20.2	17.6	3996		244	156	12.2	0.666	0.0390	42.4			0.0%	27.6%
All	Truck	Pickup	1994	21.0	15.5	19.9	17.4	4056		248	163	12.0	0.687	0.0401	43.0				29.3%
All	Truck	Pickup	1995	20.4	14.9	19.3	16.9	4182		257	167	12.0	0.687	0.0399	43.1				33.0%
All	Truck	Pickup	1996	20.8	15.1	19.7	17.1	4190		251	178	11.5	0.737	0.0422	43.9				29.3%
All	Truck	Pickup	1997	20.4	14.7	19.4	16.8	4415		264	196	11.1	0.756	0.0439	45.3				34.7%
All	Truck	Pickup	1998	20.7	14.8	19.6	17.0	4282		252	190	11.2	0.773	0.0439	44.6				34.8%
All	Truck	Pickup	1999	19.9	14.2	18.6	16.3	4486		267	205	10.9	0.776	0.0453	44.7				45.3%
All	Truck	Pickup	2000	20.5	14.6	18.9	16.7	4340		255	203	10.8	0.803	0.0462	44.4				38.4%
All	Truck	Pickup	2001	19.6	13.9	18.1	16.0	4551		269	216	10.6	0.812	0.0470	44.7				38.7%
All	Truck	Pickup	2002	19.5	13.8	17.8	15.8	4690		271	226	10.4	0.838	0.0480	45.6				42.4%
All	Truck	Pickup	2003	19.9	14.0	18.2	16.1	4642		264	223	10.5	0.847	0.0475	46.3				39.5%
All	Truck	Pickup	2004	19.6	13.7	17.8	15.7	4939		281	249	10.1	0.885	0.0501	48.2				46.3%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
All	Truck	Truck SUV	2007	2.1%	92.1%	5.8%		99.7%		0.3%	38.2%	1.9%	59.9%		54.3%	1.4%	4.3%	46.4%	49.2%
All	Truck	Truck SUV	2008	1.7%	91.6%	6.7%	2.0%	97.6%		0.4%	28.2%	1.7%	70.1%		60.5%	2.4%	4.9%	51.1%	44.0%
All	Truck	Truck SUV	2009	1.2%	88.2%	10.7%	7.6%	91.9%		0.5%	17.7%	0.7%	81.6%		69.1%	1.6%	3.3%	56.3%	40.4%
All	Truck	Truck SUV	2010	1.8%	86.8%	10.6%	12.2%	87.2%		0.6%	17.3%	2.0%	80.8%		83.0%	1.5%	4.3%	56.8%	38.9%
All	Truck	Truck SUV	2011	1.2%	87.4%	11.4%	15.1%	84.1%		0.8%	16.4%	1.7%	81.9%		92.6%	0.6%		54.5%	45.5%
All	Truck	Truck SUV	2012	2.0%	86.7%	11.4%	15.9%	83.3%		0.8%	13.1%	2.0%	84.9%		96.4%	1.6%		49.3%	50.7%
All	Truck	Pickup	1975	41.1%													11.9%	4.2%	83.9%
All	Truck	Pickup	1976	38.8%													9.3%	2.9%	87.8%
All	Truck	Pickup	1977	35.9%													11.7%	3.4%	84.9%
All	Truck	Pickup	1978	37.4%						1.2%							11.6%	3.3%	85.0%
All	Truck	Pickup	1979	39.9%	1.3%					2.5%							16.2%	4.6%	79.2%
All	Truck	Pickup	1980	58.8%	21.9%				1.0%	4.2%							31.5%	6.8%	61.7%
All	Truck	Pickup	1981	57.7%	27.5%				0.6%	7.1%							25.6%	9.1%	65.3%
All	Truck	Pickup	1982	53.9%	29.5%				0.2%	10.3%							24.0%	21.9%	54.1%
All	Truck	Pickup	1983	56.3%	28.0%				0.1%	4.4%							19.2%	38.2%	42.7%
All	Truck	Pickup	1984	54.9%	29.3%			1.0%		2.7%							20.7%	34.4%	44.9%
All	Truck	Pickup	1985	51.6%	33.7%			11.4%	4.5%	1.2%							23.9%	29.7%	46.4%
All	Truck	Pickup	1986	58.4%	30.4%			21.2%	17.6%	0.6%							29.4%	31.1%	39.5%
All	Truck	Pickup	1987	58.5%	28.9%			26.9%	32.0%	0.3%							20.5%	49.0%	30.5%
All	Truck	Pickup	1988	51.0%	38.8%			35.4%	48.3%	0.2%							13.8%	42.9%	43.3%
All	Truck	Pickup	1989	52.4%	41.5%			38.8%	51.1%	0.2%							15.9%	39.8%	44.4%
All	Truck	Pickup	1990	45.8%	49.8%			52.4%	41.4%	0.2%							15.8%	32.7%	51.5%
All	Truck	Pickup	1991	52.2%	46.4%			47.9%	48.7%	0.2%							16.1%	45.5%	38.4%
All	Truck	Pickup	1992	47.1%	52.1%			58.0%	38.6%	0.1%							13.7%	38.9%	47.4%
All	Truck	Pickup	1993	43.9%	55.3%			61.2%	36.7%								13.1%	37.1%	49.7%
All	Truck	Pickup	1994	40.0%	59.0%			69.5%	29.7%		97.8%	2.1%	0.1%				13.4%	39.0%	47.6%
All	Truck	Pickup	1995	39.6%	59.5%			69.5%	30.5%		94.5%		5.5%				13.1%	30.8%	56.0%
All	Truck	Pickup	1996	34.6%	64.0%			99.8%		0.2%	86.7%	4.5%	8.7%				11.3%	35.7%	53.0%
All	Truck	Pickup	1997	25.3%	74.7%			99.9%		0.1%	93.3%	5.4%	1.3%				5.4%	28.7%	65.9%
All	Truck	Pickup	1998	27.3%	71.1%			100.0%		0.0%	88.8%		11.2%				10.8%	34.3%	54.9%
All	Truck	Pickup	1999	17.5%	81.5%			100.0%		0.0%	92.3%		7.7%				8.4%	29.9%	61.7%
All	Truck	Pickup	2000	16.7%	82.5%			100.0%			87.3%		12.7%				3.9%	29.3%	66.8%
All	Truck	Pickup	2001	12.0%	87.1%			100.0%			87.2%		12.8%				3.2%	21.6%	75.1%
All	Truck	Pickup	2002	9.5%	89.6%			100.0%			82.2%		17.8%				8.3%	19.6%	72.1%
All	Truck	Pickup	2003	10.3%	88.8%			100.0%			85.5%		14.5%				7.9%	21.3%	70.8%
All	Truck	Pickup	2004	7.0%	92.1%			100.0%			67.6%	14.3%	18.1%		18.9%	0.0%	6.4%	15.1%	78.5%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
All	Truck	Pickup	2005	19.7	13.6	18.1	15.8	4988		284	260	9.8	0.917	0.0520	49.1				46.7%
All	Truck	Pickup	2006	20.1	13.9	18.4	16.1	4968		278	256	9.9	0.925	0.0514	49.8				45.8%
All	Truck	Pickup	2007	20.1	13.8	18.5	16.2	5144		286	269	9.8	0.938	0.0519	51.6				45.4%
All	Truck	Pickup	2008	20.5	14.1	18.9	16.5	5161		286	276	9.7	0.962	0.0531	53.0				47.5%
All	Truck	Pickup	2009	21.0	14.4	19.5	16.9	5176		287	278	9.5	0.971	0.0534	54.3				50.6%
All	Truck	Pickup	2010	20.9	14.3	19.4	16.9	5309		293	289	9.4	0.987	0.0542	55.5				57.0%
All	Truck	Pickup	2011	21.4	14.6	19.9	17.2	5268		282	304	9.1	1.086	0.0571	56.3				60.3%
All	Truck	Pickup	2012	21.5	14.7	20.0	17.3	5301		285	312	8.9	1.109	0.0585	57.1				53.5%
All	Car	All	1975	15.8	12.3	15.2	13.5	4057		288	136	14.2	0.515	0.0331	32.3			6.5%	
All	Car	All	1976	17.5	13.7	16.6	14.9	4059		287	134	14.4	0.502	0.0324	35.5			5.8%	
All	Car	All	1977	18.3	14.4	17.4	15.6	3944	110.4	279	133	14.0	0.516	0.0335	36.4	2090	4020	6.8%	
All	Car	All	1978	19.9	15.5	19.1	16.9	3588	109.0	251	124	13.7	0.538	0.0342	35.9	2239	3924	9.6%	
All	Car	All	1979	20.2	15.9	19.2	17.2	3485	108.9	238	119	13.8	0.545	0.0338	35.4	2257	3877	11.9%	0.3%
All	Car	All	1980	23.5	18.3	22.6	20.0	3101	104.2	188	100	14.3	0.583	0.0322	36.6	2507	3841	29.7%	0.9%
All	Car	All	1981	25.1	19.5	24.2	21.4	3076	106.5	182	99	14.4	0.594	0.0320	38.9	2743	4161	37.0%	0.7%
All	Car	All	1982	26.0	20.1	25.5	22.2	3053	106.1	175	99	14.4	0.609	0.0320	40.1	2836	4272	45.6%	0.8%
All	Car	All	1983	25.9	19.9	25.5	22.1	3112	108.7	182	104	14.0	0.615	0.0330	40.7	2903	4427	47.1%	3.1%
All	Car	All	1984	26.3	20.2	25.9	22.4	3101	107.6	179	106	13.8	0.637	0.0338	41.1	2909	4428	53.5%	1.0%
All	Car	All	1985	26.9	20.6	26.7	23.0	3096	108.4	177	111	13.3	0.671	0.0354	41.9	2992	4556	61.1%	2.1%
All	Car	All	1986	27.9	21.2	27.6	23.7	3043	107.4	167	111	13.2	0.701	0.0360	42.6	3055	4586	70.7%	1.0%
All	Car	All	1987	28.0	21.2	27.7	23.8	3035	106.7	162	113	13.0	0.732	0.0365	42.7	3048	4571	76.4%	1.1%
All	Car	All	1988	28.5	21.4	28.1	24.1	3051	107.1	161	116	12.8	0.758	0.0375	43.7	3114	4693	80.9%	0.8%
All	Car	All	1989	28.1	20.8	27.8	23.6	3104	107.8	163	121	12.4	0.782	0.0387	43.7	3076	4723	81.6%	1.0%
All	Car	All	1990	27.7	20.4	27.4	23.3	3178	107.1	163	129	12.1	0.829	0.0401	44.2	3011	4745	84.0%	1.0%
All	Car	All	1991	27.8	20.4	27.4	23.3	3168	107.1	164	133	11.9	0.847	0.0413	44.2	3030	4750	81.1%	1.3%
All	Car	All	1992	27.4	19.8	27.2	22.9	3254	108.7	171	141	11.5	0.864	0.0427	44.7	3027	4875	78.4%	1.1%
All	Car	All	1993	27.6	19.9	27.3	23.0	3241	109.2	170	140	11.5	0.859	0.0427	45.1	3076	4925	80.6%	1.1%
All	Car	All	1994	27.7	19.8	27.4	23.0	3268	108.7	169	144	11.4	0.880	0.0432	45.5	3068	4953	81.3%	0.4%
All	Car	All	1995	28.1	19.8	27.9	23.3	3274	109.0	168	153	10.9	0.941	0.0460	46.2	3119	5043	80.1%	1.1%
All	Car	All	1996	28.0	19.7	27.6	23.1	3297	109.5	167	155	10.8	0.952	0.0463	46.4	3112	5079	83.7%	1.4%
All	Car	All	1997	28.2	19.7	27.6	23.2	3285	108.9	165	156	10.7	0.970	0.0468	46.5	3110	5065	83.8%	1.7%
All	Car	All	1998	28.1	19.5	27.5	23.0	3334	109.3	167	160	10.6	0.983	0.0473	47.1	3115	5145	82.9%	2.1%
All	Car	All	1999	27.8	19.2	27.0	22.7	3390	109.8	168	164	10.5	1.000	0.0479	47.3	3088	5199	83.2%	2.1%
All	Car	All	2000	27.7	19.0	26.7	22.5	3401	110.2	168	168	10.4	1.021	0.0489	47.3	3092	5219	80.4%	2.0%
All	Car	All	2001	27.9	19.1	26.7	22.6	3411	110.3	167	169	10.3	1.035	0.0491	48.0	3134	5299	80.3%	3.0%
All	Car	All	2002	28.3	19.2	26.8	22.8	3415	110.8	167	173	10.2	1.061	0.0502	48.6	3184	5393	82.9%	3.6%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
All	Truck	Pickup	2005	5.7%	94.3%			100.0%			59.1%	14.0%	26.8%		39.1%	0.0%	0.4%	9.4%	90.2%
All	Truck	Pickup	2006	6.2%	93.8%			100.0%			51.0%	14.9%	34.2%		47.5%	0.1%	0.3%	12.5%	87.1%
All	Truck	Pickup	2007	4.4%	95.6%			100.0%			60.0%	12.5%	27.5%		40.0%	0.0%		12.5%	87.5%
All	Truck	Pickup	2008	4.0%	96.0%			100.0%			58.7%	11.0%	30.2%		37.8%			15.5%	84.5%
All	Truck	Pickup	2009	4.1%	95.7%	0.2%		100.0%			57.6%	16.4%	26.0%		36.8%	0.2%		18.6%	81.4%
All	Truck	Pickup	2010	2.4%	97.5%	0.1%		100.0%			40.1%	29.8%	30.1%		62.2%	0.1%		12.0%	88.0%
All	Truck	Pickup	2011	2.1%	97.8%	0.1%	7.6%	92.4%			49.9%		50.1%		86.1%	0.1%		1.4%	98.6%
All	Truck	Pickup	2012	2.7%	97.1%	0.2%	9.7%	90.3%			44.7%		55.3%		91.9%	0.2%		2.3%	97.7%
All	Car	All	1975	19.7%	0.3%			5.1%		0.2%							55.4%	23.3%	21.2%
All	Car	All	1976	17.2%				3.2%		0.3%							55.4%	25.2%	19.4%
All	Car	All	1977	16.9%				4.2%		0.5%							52.0%	24.5%	23.5%
All	Car	All	1978	19.9%	7.1%			5.1%		0.9%							44.7%	34.4%	20.9%
All	Car	All	1979	21.1%	8.8%			4.7%		2.1%							43.7%	34.2%	22.1%
All	Car	All	1980	30.9%	16.8%			6.2%	0.7%	4.4%							54.4%	34.4%	11.3%
All	Car	All	1981	29.9%	33.3%			6.1%	2.6%	5.9%							51.5%	36.4%	12.2%
All	Car	All	1982	29.2%	51.3%			7.2%	9.8%	4.7%							56.6%	30.9%	12.5%
All	Car	All	1983	26.0%	56.7%			9.4%	18.8%	2.1%							53.0%	31.9%	15.0%
All	Car	All	1984	24.1%	58.3%			14.9%	24.3%	1.7%							57.1%	29.7%	13.2%
All	Car	All	1985	22.8%	58.9%			21.3%	31.8%	0.9%							55.3%	29.5%	15.2%
All	Car	All	1986	24.7%	58.1%			36.5%	28.7%	0.3%	95.3%	3.2%	1.6%				59.2%	28.3%	12.5%
All	Car	All	1987	24.8%	59.7%			42.4%	30.8%	0.2%	85.4%	9.0%	5.6%				63.2%	24.8%	12.1%
All	Car	All	1988	24.3%	66.2%			53.7%	30.2%	0.0%	80.3%	9.4%	10.3%				64.5%	22.8%	12.7%
All	Car	All	1989	21.1%	69.3%	0.1%		62.2%	28.1%	0.0%	75.9%	11.5%	12.7%				58.0%	28.7%	13.4%
All	Car	All	1990	19.8%	72.8%	0.0%		77.4%	21.2%	0.0%	67.2%	5.3%	27.4%		0.6%		58.4%	28.9%	12.7%
All	Car	All	1991	20.6%	73.7%	0.0%		77.2%	22.6%	0.1%	66.8%	6.0%	27.2%		2.4%		60.4%	27.6%	12.0%
All	Car	All	1992	17.6%	76.4%	0.0%		88.9%	11.0%	0.1%	66.0%	4.3%	29.7%		4.4%		55.5%	29.4%	15.2%
All	Car	All	1993	17.5%	77.6%	0.0%		91.5%	8.5%		65.2%	2.8%	31.9%		4.5%		54.7%	32.7%	12.6%
All	Car	All	1994	16.9%	78.9%			94.8%	5.2%	0.0%	60.1%	1.8%	38.1%		7.7%		57.0%	28.2%	14.8%
All	Car	All	1995	16.3%	81.9%			98.6%	1.3%	0.1%	48.6%	1.1%	50.3%	0.0%	9.6%		56.3%	30.0%	13.7%
All	Car	All	1996	14.9%	83.6%	0.0%		98.8%	1.1%	0.1%	43.6%	0.9%	55.5%	0.0%	11.3%		52.9%	33.9%	13.2%
All	Car	All	1997	13.9%	85.2%	0.1%		99.2%	0.8%	0.1%	41.6%	1.0%	57.4%	0.1%	10.8%		54.5%	31.7%	13.7%
All	Car	All	1998	12.2%	87.4%	0.1%		99.7%	0.1%	0.2%	40.4%	1.4%	57.4%	0.8%	17.4%		47.7%	41.4%	10.8%
All	Car	All	1999	10.8%	88.6%	0.0%		99.8%	0.1%	0.2%	36.8%	2.0%	59.6%	1.6%	16.4%		45.8%	42.2%	12.0%
All	Car	All	2000	10.8%	88.1%	0.0%		99.7%	0.1%	0.2%	36.8%	1.7%	59.8%	1.7%	22.2%	0.1%	45.8%	37.1%	17.1%
All	Car	All	2001	11.0%	88.0%	0.2%		99.8%		0.2%	34.7%	1.9%	60.6%	2.8%	26.9%	0.0%	48.2%	35.8%	16.0%
All	Car	All	2002	10.9%	88.4%	0.4%		99.6%		0.4%	30.1%	1.9%	65.4%	2.7%	32.8%	0.3%	46.6%	39.0%	14.5%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
All	Car	All	2003	28.7	19.3	27.1	23.0	3437	110.6	166	176	10.0	1.082	0.0508	49.7	3229	5501	80.9%	3.2%
All	Car	All	2004	28.5	19.1	27.0	22.9	3492	111.7	170	184	9.8	1.101	0.0520	50.3	3255	5629	80.2%	5.3%
All	Car	All	2005	29.1	19.4	27.2	23.1	3498	113.4	168	183	9.9	1.108	0.0516	51.5	3385	5857	79.2%	6.6%
All	Car	All	2006	28.9	19.2	27.1	23.0	3563	113.4	173	194	9.6	1.138	0.0536	52.2	3360	5926	75.9%	6.0%
All	Car	All	2007	29.8	19.8	27.8	23.7	3551	112.5	167	191	9.6	1.154	0.0530	53.9	3469	6079	81.0%	5.6%
All	Car	All	2008	30.1	20.0	28.0	23.9	3569	112.4	166	194	9.6	1.174	0.0534	54.6	3496	6151	78.8%	7.1%
All	Car	All	2009	31.6	21.0	29.2	25.0	3502	112.1	157	186	9.8	1.189	0.0522	56.3	3649	6309	83.5%	6.3%
All	Car	All	2010	32.6	21.7	29.9	25.7	3536	113.4	158	190	9.6	1.203	0.0528	59.6	3867	6767	82.5%	6.3%
All	Car	All	2011	32.3	21.3	30.1	25.6	3617	115.2	161	200	9.5	1.250	0.0544	59.6	3840	6879	80.1%	8.6%
All	Car	All	2012	34.6	22.9	31.8	27.3	3482	112.6	150	192	9.5	1.284	0.0541	61.9	4058	6981	83.1%	6.7%
All	Truck	All	1975	13.7	10.9	12.7	11.6	4073		311	142	13.6	0.476	0.0349	28.5				17.2%
All	Truck	All	1976	14.4	11.6	13.2	12.2	4155		320	141	13.8	0.458	0.0340	30.5				23.0%
All	Truck	All	1977	15.6	12.6	14.2	13.3	4136		318	147	13.3	0.482	0.0356	33.0				23.8%
All	Truck	All	1978	15.3	12.4	13.7	12.9	4152		315	146	13.4	0.481	0.0351	32.4				29.1%
All	Truck	All	1979	14.7	12.1	13.1	12.5	4257		299	138	14.3	0.485	0.0325	32.1				18.1%
All	Truck	All	1980	18.6	14.8	17.1	15.8	3869		248	121	14.5	0.528	0.0313	36.3			1.4%	25.0%
All	Truck	All	1981	20.1	16.0	18.6	17.1	3806		247	119	14.6	0.508	0.0311	38.8			1.9%	20.1%
All	Truck	All	1982	20.5	16.3	19.0	17.4	3813		244	120	14.5	0.524	0.0317	39.7			1.7%	20.2%
All	Truck	All	1983	20.8	16.5	19.6	17.7	3773		232	118	14.6	0.542	0.0313	39.9			1.4%	26.1%
All	Truck	All	1984	20.4	16.1	19.3	17.4	3787		225	118	14.7	0.556	0.0310	39.3			5.0%	31.5%
All	Truck	All	1985	20.5	16.2	19.3	17.5	3803		225	124	14.1	0.585	0.0326	39.6			7.3%	31.3%
All	Truck	All	1986	21.4	16.8	20.1	18.2	3741		212	123	14.0	0.619	0.0330	40.4			5.9%	30.7%
All	Truck	All	1987	21.6	16.8	20.4	18.3	3718		211	131	13.4	0.652	0.0351	40.5			7.6%	32.2%
All	Truck	All	1988	21.1	16.2	20.1	17.8	3850		228	141	13.0	0.649	0.0365	40.9			9.2%	34.1%
All	Truck	All	1989	20.9	15.9	19.8	17.6	3932		234	146	12.8	0.653	0.0371	41.3			10.1%	32.8%
All	Truck	All	1990	20.7	15.6	19.8	17.4	4014		237	151	12.6	0.667	0.0377	41.8			15.8%	31.8%
All	Truck	All	1991	21.2	15.9	20.2	17.8	3961		229	150	12.5	0.681	0.0379	42.3			10.3%	37.3%
All	Truck	All	1992	20.8	15.4	19.9	17.3	4078		236	155	12.5	0.682	0.0380	42.6			14.5%	33.4%
All	Truck	All	1993	21.0	15.5	20.1	17.5	4098		235	160	12.2	0.705	0.0391	43.2			16.8%	32.7%
All	Truck	All	1994	20.7	15.2	19.6	17.2	4149		241	166	12.0	0.713	0.0401	43.2			13.8%	39.2%
All	Truck	All	1995	20.5	14.9	19.4	17.0	4201		245	168	12.0	0.712	0.0400	43.3			18.4%	42.3%
All	Truck	All	1996	20.8	15.0	19.8	17.2	4255		245	179	11.6	0.755	0.0421	44.5			20.9%	39.2%
All	Truck	All	1997	20.5	14.7	19.4	16.8	4394		251	189	11.4	0.769	0.0428	45.1			14.2%	45.2%
All	Truck	All	1998	20.8	14.8	19.7	17.1	4317		244	188	11.2	0.794	0.0435	45.1			19.3%	45.1%
All	Truck	All	1999	20.3	14.5	19.1	16.6	4457		252	199	11.0	0.811	0.0446	45.4			17.5%	48.1%
All	Truck	All	2000	20.7	14.7	19.3	16.8	4421		245	199	11.0	0.830	0.0448	45.8			20.0%	46.3%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
All	Car	All	2003	10.9%	87.7%	1.4%		99.7%		0.3%	26.6%	2.2%	68.3%	3.0%	39.8%	0.6%	47.8%	36.9%	15.3%
All	Car	All	2004	9.8%	88.2%	1.7%		99.7%		0.3%	22.9%	1.8%	73.0%	2.4%	43.7%	0.9%	44.3%	38.9%	16.8%
All	Car	All	2005	8.8%	88.4%	2.8%		99.6%		0.4%	22.8%	2.1%	74.1%	1.1%	49.4%	1.9%	40.6%	40.7%	18.6%
All	Car	All	2006	8.8%	88.4%	2.7%		99.4%		0.6%	18.7%	1.7%	79.3%	0.2%	58.2%	1.5%	42.2%	35.8%	22.1%
All	Car	All	2007	7.8%	82.5%	9.7%	0.3%	99.7%		0.0%	15.4%	0.9%	83.7%	0.0%	63.3%	3.2%	40.0%	42.7%	17.3%
All	Car	All	2008	7.2%	81.7%	10.8%	3.1%	96.9%		0.1%	12.0%	0.5%	87.4%	0.0%	62.7%	3.3%	39.6%	40.0%	20.4%
All	Car	All	2009	6.2%	82.4%	11.1%	4.2%	95.2%		0.6%	7.8%	0.3%	91.9%	0.0%	79.1%	2.9%	43.0%	39.3%	17.8%
All	Car	All	2010	5.0%	79.5%	13.9%	9.2%	89.9%		0.9%	6.2%	0.3%	93.5%		91.8%	5.5%	42.4%	40.3%	17.3%
All	Car	All	2011	4.6%	83.0%	11.9%	18.4%	80.7%		0.9%	5.4%	0.3%	94.3%		94.9%	3.4%	31.8%	46.5%	21.7%
All	Car	All	2012	7.6%	75.4%	11.9%	30.4%	68.6%		1.1%	2.2%	0.4%	97.3%		97.9%	5.3%	45.0%	40.7%	14.2%
All	Truck	All	1975	36.9%					0.1%								10.6%	24.1%	65.3%
All	Truck	All	1976	34.7%					0.1%								8.7%	20.2%	71.0%
All	Truck	All	1977	31.6%					0.1%								10.6%	20.4%	69.0%
All	Truck	All	1978	32.1%					0.1%	0.8%							10.6%	22.7%	66.7%
All	Truck	All	1979	35.1%	2.1%				0.3%	1.8%							14.9%	19.5%	65.6%
All	Truck	All	1980	53.0%	24.5%				1.7%	3.5%							28.4%	17.6%	54.0%
All	Truck	All	1981	51.6%	31.1%				1.1%	5.6%							23.2%	19.1%	57.7%
All	Truck	All	1982	45.9%	33.4%				0.7%	9.4%							20.6%	31.1%	48.2%
All	Truck	All	1983	46.3%	36.0%				0.6%	4.8%							16.3%	45.6%	38.1%
All	Truck	All	1984	42.5%	34.6%			2.0%	0.6%	2.4%							19.7%	45.6%	34.7%
All	Truck	All	1985	37.6%	41.1%			8.9%	3.5%	1.1%							19.7%	47.2%	33.1%
All	Truck	All	1986	43.0%	41.5%			22.1%	17.8%	0.7%							23.8%	47.8%	28.4%
All	Truck	All	1987	40.5%	43.8%			33.3%	32.8%	0.3%							19.8%	59.2%	21.1%
All	Truck	All	1988	35.8%	52.5%			43.2%	44.3%	0.2%							14.5%	57.0%	28.5%
All	Truck	All	1989	32.8%	56.4%			45.9%	47.5%	0.2%							13.5%	58.7%	27.9%
All	Truck	All	1990	28.1%	67.5%			55.0%	40.9%	0.2%							12.9%	57.0%	30.1%
All	Truck	All	1991	31.5%	66.8%			55.3%	42.8%	0.1%							10.8%	66.5%	22.7%
All	Truck	All	1992	27.5%	71.3%			65.7%	32.6%	0.1%							9.8%	63.0%	27.2%
All	Truck	All	1993	24.7%	74.2%			71.5%	27.5%								8.7%	62.6%	28.8%
All	Truck	All	1994	23.7%	75.3%			76.2%	23.4%		94.8%	2.9%	2.3%				9.2%	61.9%	28.9%
All	Truck	All	1995	20.7%	78.5%			79.4%	20.6%		92.0%	0.3%	7.7%				8.5%	62.5%	29.1%
All	Truck	All	1996	15.6%	83.4%			99.9%		0.1%	88.8%	2.1%	9.1%				6.1%	66.0%	27.9%
All	Truck	All	1997	14.1%	85.8%			100.0%		0.0%	88.9%	2.5%	8.6%				8.2%	52.2%	39.7%
All	Truck	All	1998	13.6%	85.8%			100.0%		0.0%	85.2%	0.7%	14.2%				8.2%	57.0%	34.8%
All	Truck	All	1999	9.2%	90.4%			100.0%		0.0%	84.3%	0.8%	14.9%		3.0%		7.3%	53.5%	39.2%
All	Truck	All	2000	8.2%	91.5%			100.0%			81.4%	0.5%	18.1%		4.6%		5.4%	53.7%	40.9%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Fuel Economy				Weight	Volume (cu ft)	Engine		0-60 Time	HP/ CID	HP/ Weight	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain	
				Lab 55/45	Adj City	Adj Hwy	Adj Comp			CID	HP							Front	4WD
All	Truck	All	2001	20.3	14.4	18.8	16.5	4543		249	212	10.6	0.873	0.0465	46.3			16.3%	48.8%
All	Truck	All	2002	20.3	14.3	18.8	16.5	4612		249	223	10.3	0.911	0.0482	47.0			15.4%	51.6%
All	Truck	All	2003	20.7	14.4	19.1	16.7	4655		248	224	10.4	0.920	0.0481	48.1			15.4%	50.4%
All	Truck	All	2004	20.5	14.2	18.9	16.5	4783		258	240	10.1	0.946	0.0500	49.0			12.5%	56.5%
All	Truck	All	2005	21.0	14.4	19.5	16.9	4763		251	242	10.0	0.976	0.0506	50.2			20.1%	52.2%
All	Truck	All	2006	21.4	14.6	19.7	17.2	4758		247	240	10.0	0.985	0.0503	51.2			18.9%	53.1%
All	Truck	All	2007	21.6	14.8	20.0	17.4	4871		253	254	9.8	1.020	0.0519	52.8			16.1%	55.5%
All	Truck	All	2008	22.2	15.1	20.5	17.8	4837		246	254	9.7	1.046	0.0522	53.9			18.4%	56.8%
All	Truck	All	2009	23.1	15.7	21.4	18.5	4753		236	252	9.7	1.089	0.0527	55.1			21.0%	58.4%
All	Truck	All	2010	23.4	15.9	21.7	18.8	4784		237	253	9.7	1.087	0.0526	56.3			20.9%	61.0%
All	Truck	All	2011	23.9	16.2	22.1	19.1	4824		236	271	9.2	1.171	0.0557	57.8			17.7%	65.0%
All	Truck	All	2012	24.3	16.4	22.5	19.4	4779		234	275	9.0	1.198	0.0571	58.2			22.1%	59.6%
All	All	All	1975	15.3	12.0	14.6	13.1	4060		293	137	14.1	0.507	0.0335	31.6			5.3%	3.3%
All	All	All	1976	16.7	13.2	15.7	14.2	4079		294	135	14.3	0.493	0.0328	34.4			4.6%	4.8%
All	All	All	1977	17.7	14.0	16.6	15.1	3982		287	136	13.8	0.510	0.0339	35.7			5.5%	4.7%
All	All	All	1978	18.6	14.7	17.5	15.8	3715		266	129	13.6	0.525	0.0344	35.1			7.4%	6.6%
All	All	All	1979	18.7	14.9	17.4	15.9	3655		252	124	13.9	0.532	0.0335	34.7			9.2%	4.3%
All	All	All	1980	22.5	17.6	21.5	19.2	3228		198	104	14.3	0.574	0.0320	36.6			25.0%	4.9%
All	All	All	1981	24.1	18.8	23.0	20.5	3202		193	102	14.4	0.580	0.0318	38.9			31.0%	4.0%
All	All	All	1982	24.7	19.2	23.9	21.1	3202		188	103	14.4	0.593	0.0320	40.0			37.0%	4.6%
All	All	All	1983	24.6	19.0	23.9	21.0	3257		193	107	14.1	0.599	0.0327	40.5			37.0%	8.1%
All	All	All	1984	24.6	19.1	24.0	21.0	3262		190	109	14.0	0.618	0.0332	40.7			42.1%	8.2%
All	All	All	1985	25.0	19.3	24.4	21.3	3271		189	114	13.5	0.650	0.0347	41.4			47.8%	9.3%
All	All	All	1986	25.7	19.8	25.0	21.8	3238		180	114	13.4	0.678	0.0351	42.0			52.6%	9.3%
All	All	All	1987	25.9	19.8	25.3	22.0	3221		175	118	13.1	0.710	0.0361	42.1			57.7%	9.6%
All	All	All	1988	25.9	19.6	25.2	21.9	3283		180	123	12.8	0.726	0.0372	42.9			60.0%	10.5%
All	All	All	1989	25.4	19.1	24.8	21.4	3351		185	129	12.5	0.743	0.0382	43.0			60.2%	10.5%
All	All	All	1990	25.2	18.7	24.6	21.2	3426		185	135	12.2	0.781	0.0394	43.5			63.8%	10.1%
All	All	All	1991	25.4	18.8	24.7	21.3	3410		184	138	12.1	0.796	0.0402	43.6			59.6%	12.3%
All	All	All	1992	24.9	18.2	24.4	20.8	3512		191	145	11.8	0.807	0.0413	44.1			58.4%	11.2%
All	All	All	1993	25.1	18.2	24.4	20.9	3519		191	147	11.8	0.809	0.0416	44.5			59.9%	11.3%
All	All	All	1994	24.6	17.8	23.8	20.4	3603		197	152	11.7	0.816	0.0420	44.6			55.6%	15.2%
All	All	All	1995	24.7	17.7	24.1	20.5	3613		196	158	11.3	0.857	0.0438	45.2			57.6%	16.2%
All	All	All	1996	24.8	17.6	24.0	20.4	3659		197	164	11.1	0.878	0.0447	45.6			60.0%	15.7%
All	All	All	1997	24.5	17.4	23.6	20.2	3727		199	169	11.0	0.890	0.0452	45.9			56.1%	19.0%
All	All	All	1998	24.5	17.2	23.6	20.1	3744		199	171	10.9	0.904	0.0457	46.3			56.4%	20.1%

2012 FE Trends Report

Appendix P: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Number of Valves				VVT	Hybrid	Vehicle Size		
				Manual	Lockup	CVT	GDI	Port	TBI	Diesel	Two	Three	Four	Five			Small	Mid	Large
All	Truck	All	2001	6.3%	93.4%			100.0%			74.1%	0.6%	25.2%		9.3%		5.2%	44.4%	50.4%
All	Truck	All	2002	4.7%	94.9%	0.0%		100.0%			67.2%	0.6%	32.1%		16.0%		6.1%	40.9%	53.0%
All	Truck	All	2003	4.6%	94.4%	0.6%		100.0%			65.4%	0.5%	34.1%		19.7%		5.5%	45.2%	49.3%
All	Truck	All	2004	3.5%	95.6%	0.6%		100.0%		0.0%	53.8%	5.0%	40.9%	0.2%	32.9%	0.0%	4.9%	43.4%	51.6%
All	Truck	All	2005	2.9%	95.3%	1.8%		99.9%		0.1%	48.9%	6.5%	44.5%	0.1%	41.2%	0.1%	2.6%	46.0%	51.4%
All	Truck	All	2006	3.3%	93.7%	3.1%		99.9%		0.1%	41.6%	8.2%	50.1%	0.1%	51.5%	1.5%	2.2%	47.1%	50.7%
All	Truck	All	2007	2.6%	93.8%	3.7%		99.9%		0.1%	46.7%	5.2%	48.1%		48.7%	0.8%	2.3%	41.7%	56.0%
All	Truck	All	2008	2.2%	94.1%	3.6%	1.1%	98.7%		0.2%	40.5%	4.4%	55.0%		51.6%	1.3%	3.0%	45.9%	51.2%
All	Truck	All	2009	2.0%	92.0%	6.0%	4.2%	95.5%		0.3%	33.4%	5.7%	61.0%		56.0%	0.9%	2.6%	48.2%	49.2%
All	Truck	All	2010	1.8%	91.9%	5.9%	6.8%	92.9%		0.4%	28.5%	10.3%	61.2%		70.5%	0.9%	2.9%	48.0%	49.2%
All	Truck	All	2011	1.3%	91.4%	7.3%	11.3%	88.1%		0.5%	24.8%	1.0%	74.1%		90.7%	0.4%		43.4%	56.6%
All	Truck	All	2012	1.9%	90.3%	7.8%	11.9%	87.6%		0.5%	20.7%	1.2%	78.2%		94.2%	1.0%		42.9%	57.1%
All	All	All	1975	23.0%	0.2%			4.1%	0.0%	0.2%							46.8%	23.5%	29.8%
All	All	All	1976	20.9%				2.5%	0.0%	0.2%							45.6%	24.2%	30.3%
All	All	All	1977	19.8%				3.4%	0.0%	0.4%							43.7%	23.7%	32.5%
All	All	All	1978	22.7%	5.5%			3.9%	0.0%	0.9%							37.0%	31.7%	31.2%
All	All	All	1979	24.2%	7.3%			3.7%	0.1%	2.0%							37.3%	30.9%	31.7%
All	All	All	1980	34.6%	18.1%			5.2%	0.8%	4.3%							50.1%	31.6%	18.3%
All	All	All	1981	33.6%	33.0%			5.1%	2.4%	5.9%							46.6%	33.4%	20.0%
All	All	All	1982	32.4%	47.8%			5.8%	8.0%	5.6%							49.6%	31.0%	19.5%
All	All	All	1983	30.5%	52.1%			7.3%	14.8%	2.7%							44.9%	34.9%	20.1%
All	All	All	1984	28.4%	52.8%			11.9%	18.7%	1.8%							48.4%	33.4%	18.2%
All	All	All	1985	26.5%	54.5%			18.2%	24.8%	0.9%							46.5%	33.9%	19.7%
All	All	All	1986	29.8%	53.5%			32.5%	25.7%	0.4%	68.7%	2.3%	1.1%				49.3%	33.7%	17.0%
All	All	All	1987	29.1%	55.4%			39.9%	31.4%	0.3%	62.2%	6.6%	4.0%				51.4%	34.1%	14.5%
All	All	All	1988	27.6%	62.2%			50.6%	34.3%	0.1%	57.0%	6.6%	7.3%				50.0%	32.7%	17.3%
All	All	All	1989	24.6%	65.5%	0.1%		57.3%	33.9%	0.1%	53.2%	8.0%	8.9%				44.7%	37.6%	17.7%
All	All	All	1990	22.2%	71.2%	0.0%		70.8%	27.0%	0.1%	47.3%	3.8%	19.3%		0.4%		44.9%	37.2%	17.8%
All	All	All	1991	23.9%	71.6%	0.0%		70.6%	28.7%	0.1%	46.5%	4.2%	18.9%		1.7%		45.3%	39.4%	15.2%
All	All	All	1992	20.7%	74.8%	0.0%		81.6%	17.8%	0.1%	45.3%	3.0%	20.3%		3.0%		41.1%	39.9%	19.0%
All	All	All	1993	19.8%	76.5%	0.0%		85.0%	14.6%		44.1%	1.9%	21.6%		3.0%		39.8%	42.4%	17.8%
All	All	All	1994	19.5%	77.6%			87.7%	12.1%	0.0%	73.3%	2.2%	24.5%		4.8%		38.8%	41.0%	20.1%
All	All	All	1995	17.9%	80.7%			91.6%	8.4%	0.0%	64.4%	0.8%	34.8%	0.0%	6.1%		38.8%	41.9%	19.3%
All	All	All	1996	15.2%	83.5%	0.0%		99.3%	0.7%	0.1%	60.7%	1.3%	38.0%	0.0%	7.0%		35.2%	46.0%	18.7%
All	All	All	1997	14.0%	85.5%	0.0%		99.5%	0.5%	0.1%	60.4%	1.6%	37.9%	0.1%	6.5%		36.0%	39.9%	24.1%
All	All	All	1998	12.8%	86.7%	0.0%		99.8%	0.1%	0.1%	59.1%	1.1%	39.4%	0.5%	10.1%		31.2%	47.9%	20.8%



March 2013



March 2013