

Light-Duty Automotive Technology,  
Carbon Dioxide Emissions, and  
Fuel Economy Trends:  
1975 Through 2013

Trends



Report

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**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

<b>1. Introduction .....</b>	<b>1</b>
<b>2. Fleetwide Trends Overview.....</b>	<b>3</b>
A. Overview of Final MY 2012 Data .....	3
B. Overview of Preliminary MY 2013 Data .....	3
C. Overview of Long-Term Trends .....	5
<b>3. Vehicle Class, Type, and Attributes.....</b>	<b>12</b>
A. Vehicle Class .....	12
B. Vehicle Type .....	13
C. Vehicle Attributes .....	20
<b>4. Manufacturers and Makes .....</b>	<b>30</b>
A. Manufacturer and Make Definitions .....	30
B. Manufacturer and Make Trends .....	32
<b>5. Powertrain Technologies .....</b>	<b>43</b>
A. Trends in Engine Power and Size (cylinders and displacement).....	43
B. Trends in Fuel Delivery Methods and Valvetrains .....	47
C. New Powertrain Strategies: Turbo Downsizing, Hybrids, and Diesels .....	50
D. Trends in Transmission Types.....	64
E. Trends in Drive Types .....	68
<b>6. Technology Adoption Rates .....</b>	<b>74</b>
A. Industry-Wide Technology Adoption Since 1975 .....	74
B. Technology Adoption By Manufacturers .....	76
C. Technology Adoption In the Last 5 Years .....	81
<b>7. Alternative Fuel Vehicles.....</b>	<b>83</b>
A. Methodology .....	83
B. Historical Trends .....	84
C. MY 2013 Vehicles .....	87
<b>8. High Fuel Economy and Low CO<sub>2</sub> Choices.....</b>	<b>96</b>
A. Methodology .....	96
B. High Fuel Economy Vehicle Offerings .....	98
C. High Fuel Economy Ranges within Models.....	99
D. Advanced Technology Vehicle Offerings.....	100
<b>9. Regulatory Context.....</b>	<b>101</b>
A. Personal Vehicle Fuel Economy and Greenhouse Gas Emissions Standards .....	101
B. Current Vehicles That Meet Future EPA CO <sub>2</sub> Emissions Compliance Targets .....	102
C. Comparison of EPA and NHTSA Fuel Economy Data, 1975-2013 .....	104
D. Comparison of MY 2012 Unadjusted, Laboratory and Estimated CAFE Data by Manufacturer .....	106
<b>10. Additional Database and Report Details .....</b>	<b>108</b>
A. Sources of Input Data.....	108
B. Harmonic Averaging of Fuel Economy Values .....	109
C. Adjusted vs. Unadjusted, Laboratory Values.....	111
D. Other Database Methodology Issues.....	118
E. Comparison of Preliminary and Final Fleetwide Fuel Economy Values .....	121
F. Definitions and Acronyms.....	123
G. Links for More Information .....	125
H. Authors and Acknowledgements .....	126
<b>11. References.....</b>	<b>127</b>

## LIST OF FIGURES

Figure 2.1 Adjusted CO <sub>2</sub> Emissions for MY 1975-MY 2013 .....	5
Figure 2.2 Adjusted Fuel Economy for MY 1975-MY 2013 .....	6
Figure 2.3 Adjusted Fuel Economy, Weight, and Horsepower for MY 1975-2013.....	7
Figure 2.4 Production-Weighted Adjusted Fuel Economy Distribution for MY 1975-MY 2013 .....	9
Figure 3.1 Car and Truck Production Share for MY 1975-2013.....	13
Figure 3.2 Adjusted Fuel Economy vs. Interior Volume for High Volume Manufacturers MY 1978 and MY 2013 Car Type Only .....	15
Figure 3.3 Vehicle Type Production Share by Model Year .....	17
Figure 3.4 Adjusted CO <sub>2</sub> Emissions, Adjusted Fuel Economy and Other Key Parameters by Vehicle Type MY 1975-2013.....	24
Figure 3.5 Car and Truck Production Share by Vehicle Inertia Weight Class.....	25
Figure 3.6 Unadjusted, Laboratory Fuel Consumption vs. Footprint Cars and Trucks, MY 2012 .....	26
Figure 3.7 Unadjusted, Laboratory Fuel Consumption vs. Inertia Weight Cars and Trucks, MY 1975 and 2012 ...	27
Figure 3.8 Unadjusted, Laboratory Fuel Consumption vs. 0-60 Acceleration Time Cars and Trucks MY 1975.....	28
Figure 3.9 Unadjusted, Laboratory Fuel Consumption vs. Car Interior Volume Cars, MY 1978 and 2012 .....	29
Figure 4.1 Adjusted Fuel Economy and Percent Truck by Manufacturer for MY 1975-2013.....	42
Figure 5.1 Engine Displacement and Power .....	44
Figure 5.2 Percent Change for Specific Engine Metrics .....	45
Figure 5.3 Production Share by Number of Cylinders.....	46
Figure 5.4 Production Share by Engine Technology .....	48
Figure 5.5 Engine Metrics for Different Engine Technology Packages.....	49
Figure 5.6 Market Share of Gasoline Turbo Vehicles .....	51
Figure 5.7 Distribution of Gasoline Turbo Vehicles by Displacement and Horsepower, MY 2010 – MY 2013.....	52
Figure 5.8 Hybrid Production MY 2000 – MY 2013 (With 3-Year Moving Average) .....	53
Figure 5.9 Hybrid Adjusted Fuel Economy Distribution by Year.....	55
Figure 5.10 Highway/City Fuel Economy Ratio for Hybrids and Non hybrids.....	56
Figure 5.11 Percent Improvement in Adjusted Fuel Consumption for Hybrid Vehicles, MY 2012 .....	57
Figure 5.12 Percent Improvement in Adjusted Fuel Consumption for Diesel Vehicles, MY 2012 .....	59
Figure 5.13 Percent Improvement in CO <sub>2</sub> Emissions for Diesel Vehicles, MY 2012 .....	60
Figure 5.14 Transmission Production Share by Model Year .....	65
Figure 5.15 Average Number of Transmission Gears for New Vehicles (excluding CVTs).....	66
Figure 5.16 Comparison of Manual and Automatic Transmission Adjusted Fuel Economy, MY 1980 – MY 2013 .	67
Figure 5.17 Front, Rear, and Four Wheel Drive Usage - Production Share by Vehicle Type.....	69
Figure 5.18 Differences in Adjusted Fuel Consumption Trends for FWD, RWD, and 4WD/AWD Vehicles .....	70
Figure 6.1 Industry-Wide Car Technology Penetration After First Significant Use.....	75
Figure 6.2 Manufacturer Specific Technology Adoption over Time for Key Technologies.....	77
Figure 6.3 Maximum Three and Five Year Adoption for Key Technologies .....	79
Figure 6.4 VVT Adoption Details by Manufacturer .....	80
Figure 6.5 Five Year Change in Light Duty Vehicle Technology Penetration Share.....	82
Figure 7.1 Historical Production of EVs, PHEVs, and Dedicated CNG Vehicles .....	86
Figure 8.1 Number of Models Meeting Fuel Economy Thresholds in MY 2008 and MY 2013 .....	98
Figure 8.2 Number of Models Meeting Fuel Economy Spread Thresholds in MY 2008 and MY 2013 .....	99
Figure 8.3 Advanced Technology and Alternative Fueled Vehicle Models in MY 2008 and MY 2013.....	100
Figure 9.1 MY 2013 Vehicle Production Share (Projected) That Meets Future CO <sub>2</sub> Emissions Targets.....	103

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## LIST OF TABLES

Table 2.1 Adjusted CO <sub>2</sub> Emissions, Adjusted Fuel Economy, and Key Parameters for MY 1975-2013.....	4
Table 2.2 Comparison of MY 2012 with MY 2008 and MY 2004 .....	9
Table 2.3 Top Ten Highest Unadjusted, Laboratory Fuel Economy Gasoline/Diesel Vehicles for MY 1975-MY 2013 .....	11
Table 3.1 Vehicle Type Production Share by Model Year .....	18
Table 3.2 Car-Truck Classification of SUVs with Inertia Weights of 4000 Pounds or Less.....	19
Table 3.3.1 Car Adjusted CO <sub>2</sub> Emissions, Adjusted Fuel Economy, and Key Parameters for MY 1975-2013.....	22
Table 3.3.2 Truck Adjusted CO <sub>2</sub> Emissions, Adjusted Fuel Economy, and Key Parameters for MY 1975-2013.....	23
Table 4.1 Manufacturers and Makes for MY 2011-2013 .....	31
Table 4.2 Adjusted Fuel Economy (MPG) by Manufacturer and Make for MY 2011-2013 .....	33
Table 4.3 Adjusted CO <sub>2</sub> Emissions (g/mi) by Manufacturer and Make for MY 2011-2013 .....	35
Table 4.4 Unadjusted, Laboratory Fuel Economy (MPG) by Manufacturer and Make for MY 2011—2013 .....	37
Table 4.5 Unadjusted, Laboratory CO <sub>2</sub> Emissions (g/mi) by Manufacturer and Make for MY 2011-2013 .....	38
Table 4.6 Footprint (square feet) by Manufacturer for MY 2011—2013 .....	39
Table 4.7 Adjusted Fuel Economy and Production Share by Vehicle Classification and Type for MY 2012.....	40
Table 4.8 Vehicle Footprint, Weight, and Horsepower by Manufacturer for MY 2012.....	41
Table 5.1 Distribution of MY 2013 Turbocharged Engines (Excludes Diesel).....	51
Table 5.2.1 Engine Characteristics of MY 1975 to MY 2013 Both Cars and Trucks.....	61
Table 5.2.2 Engine Characteristics of MY 1975 to MY 2013 Cars Only .....	62
Table 5.2.3 Engine Characteristics of MY 1975 to MY 2013 Trucks Only.....	63
Table 5.3.1 Transmission and Drive Characteristics of MY 1975 to MY 2013 Both Cars and Trucks .....	71
Table 5.3.2 Transmission and Drive Characteristics of MY 1975 to MY 2013 Cars Only.....	72
Table 5.3.3 Transmission and Drive Characteristics of MY 1975 to MY 2013 Trucks Only.....	73
Table 7.1 MY 2013 Alternative Fuel Vehicle Classification and Size .....	87
Table 7.2 MY 2013 Alternative Fuel Vehicle Powertrain and Range.....	88
Table 7.3 MY 2013 Alternative Fuel Vehicle Fuel Economy Label Metrics .....	90
Table 7.4 MY 2013 Alternative Fuel Vehicle Label Tailpipe CO <sub>2</sub> Emissions Metrics .....	92
Table 7.5 MY 2013 Alternative Fuel Vehicle Upstream CO <sub>2</sub> Emission Metrics.....	95
Table 9.1 EPA Adjusted, EPA Unadjusted Laboratory, and CAFE Values by Model Year.....	105
Table 9.2 Comparison of MY 2012 EPA Unadjusted, Laboratory and Estimated CAFE (MPG) Values by Manufacturer.....	107
Table 10.1 Unadjusted, Laboratory and Adjusted Fuel Economy (MPG) for MY 1975-MY 2013 Cars and Trucks	113
Table 10.2 Four Different Fuel Economy Metrics for the MY 2005 Honda Insight.....	118
Table 10.3 Factors for Converting Industry-wide Fuel Economy Values from this Report to Carbon Dioxide Emissions Values .....	120
Table 10.4 Comparison of Preliminary and Final Adjusted and Unadjusted Fuel Economy Values Both Cars and Trucks .....	122

# 1 Introduction

This annual report (often referred to as the “Trends” report) is the authoritative reference on **new** light-duty (or personal) vehicle carbon dioxide (CO<sub>2</sub>) emissions, fuel economy, and powertrain technology trends in the United States. These vehicles include passenger cars, sport utility vehicles, minivans, and all but the largest pickup trucks and vans. This report uses the most comprehensive database of its kind, both because it is comprised of detailed new vehicle test data provided, under statute, to EPA by automobile manufacturers, and because the database has been rigorously maintained since 1975. Since major methodological changes are propagated backwards through the historical database in order to maintain the integrity of long-term trends, this report supersedes all previous versions in the series and should **not** be compared to past reports.

Except where noted, all data in this report reflect the 99+ percent of all new personal vehicles that are dedicated to or are expected to operate primarily on gasoline or diesel fuel (including flexible fuel and conventional hybrid vehicles). Section 7 provides relevant data from the increasing number of electric, plug-in hybrid electric, and compressed natural gas vehicles produced for the U.S. market in 2013.

*Trends uses the term “fleetwide” to represent gasoline and diesel fueled vehicles, which represent 99+% of all vehicles produced since 1975.*

*Trends uses harmonic averaging for fuel economy, which is essential to maintain mathematical integrity.*

The CO<sub>2</sub> emissions and fuel economy data in this report are generated from the longstanding EPA test procedures that were first developed in the 1970s and refined in the subsequent decades. The CO<sub>2</sub> emissions data in this report reflect the sum of the vehicle tailpipe emissions of CO<sub>2</sub>, carbon monoxide, and hydrocarbons, with the latter two converted to equivalent CO<sub>2</sub> levels on a mass basis. While carbon monoxide and hydrocarbon emissions add, on average, less than one percent to overall CO<sub>2</sub> emissions values, these compounds are included here because they are converted to CO<sub>2</sub> relatively quickly in the atmosphere, and to maintain consistency with the methods used for greenhouse gas (GHG) emissions standards compliance. The CO<sub>2</sub> emissions data do **not** reflect other vehicle greenhouse gases (such as methane, nitrous oxide, or air conditioner refrigerants) or CO<sub>2</sub> emissions associated with vehicle production and disposal, or fuel production and distribution.

The data presented in this report are tabulated on a model year (MY), not calendar year, basis and reflect MY 1975-2013. Data through MY 2012 are **final** (at the time of publication, EPA is in the process of submitting final manufacturer-specific CAFE values to NHTSA and the manufacturers), while data for MY 2013 are **preliminary** and will be finalized in next year’s report. Vehicle population data represent production volumes delivered for sale in the U.S. market, rather than actual sales data.

Most of the data in this report reflect arithmetic production-weighted averages of individual CO<sub>2</sub> emissions values and harmonic production-weighted averages of individual fuel economy values (see Section 10 for details on harmonic averaging). The data in Sections 7 and 8 reflect individual models independent of production volumes.

*Trends uses vehicle production data, not vehicle sales data, and aggregates production data for model years, not calendar years.*

Unless noted, the CO<sub>2</sub> emissions and fuel economy values in this report are expressed as **adjusted** values based on EPA’s 5-cycle test methodology (reflecting urban commuting, rural highway, high speed/acceleration, high temperature/air conditioning, and cold temperature operation). These adjusted values use a 43 percent city/57 percent highway weighting in order to be consistent with the national driving activity analysis underlying the development of the 5-cycle test methodology, and therefore yield EPA’s best estimate of **real world** CO<sub>2</sub> emissions and fuel consumption. See Section 10 for a more detailed explanation of the methodology for how these adjusted values are calculated.

<i>Type of CO<sub>2</sub> and Fuel Economy Data</i>	<i>Purpose</i>	<i>City/Highway Weighting</i>	<i>Test Basis</i>
<i>Adjusted</i>	<i>Best estimate of <u>real world</u> performance</i>	<i>43%/57%</i>	<i>5-cycle (see text)</i>
<i>Unadjusted, Laboratory</i>	<i>Basis for automaker <u>compliance</u> with standards</i>	<i>55%/45%</i>	<i>2-cycle (see text)</i>

This report occasionally provides **unadjusted, laboratory** CO<sub>2</sub> emissions and fuel economy values based on EPA’s 2-cycle test methodology (reflecting urban commuting and rural highway operation only). These unadjusted values are weighted 55 percent city/45 percent highway when used as the basis for **automaker compliance** with GHG emissions and corporate average fuel economy (CAFE) standards. Adjusted CO<sub>2</sub> emissions values are, on average, about 25% higher than unadjusted CO<sub>2</sub> values, and adjusted fuel economy values are about 20% lower than unadjusted fuel economy values. While the unadjusted values form the starting point for GHG emissions and CAFE standards compliance, they do not reflect various credits, incentives, and adjustments available to automakers.

In early 2014, EPA intends to publish a separate, annual GHG Report at [epa.gov/otag/regs/ld-hwy/greenhouse/ld-ghg.htm](http://epa.gov/otag/regs/ld-hwy/greenhouse/ld-ghg.htm) that will summarize individual manufacturer performance relative to the MY 2012 GHG emissions standards. The Department of Transportation’s National Highway Traffic Safety Administration (NHTSA, at [nhtsa.dot.gov/fuel-economy](http://nhtsa.dot.gov/fuel-economy)) also publishes a separate document entitled “Summary of Fuel Economy Performance” and will update this document after receiving final CAFE compliance data from EPA for all manufacturers.

This report has been extensively rewritten this year to focus on those trends and themes that we believe are the most important to a wide range of readers and users.

**Important changes to this year’s report:**

- *It includes several new sections and many new tables and figures*
- *The vehicle classification schema has been simplified*
- *There is no longer a separate CO<sub>2</sub> emissions section*
- *The Executive Summary is now a separate document*
- *A few Appendices have been deleted*

## 2 Fleetwide Trends Overview

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This section provides an overview of important fleetwide data for MY 1975-2013, including a reference table for CO<sub>2</sub> emissions, fuel economy, and several other key parameters. As discussed above, fleetwide refers to the production-weighted analysis of the 99+% of **new** vehicles that are dedicated to or are expected to operate primarily on gasoline or diesel fuel. Unless otherwise noted, all CO<sub>2</sub> emissions and fuel economy data are adjusted values that reflect real world performance, and are not comparable to unadjusted, laboratory values used for EPA emissions and NHTSA fuel economy standards compliance. Subsequent sections of the report analyze the Trends data in more detail.

### A. OVERVIEW OF FINAL MY 2012 DATA

Table 2.1 shows that the fleetwide average real world CO<sub>2</sub> emissions rate for new vehicles produced in MY 2012 is 376 grams per mile (g/mi), a 22 g/mi decrease from MY 2011. The MY 2012 fuel economy value is 23.6 miles per gallon (mpg), a 1.2 mpg increase from MY 2011. These MY 2012 values, which represent an all-time record low for CO<sub>2</sub> emissions and record high for fuel economy, are based on final data. Both CO<sub>2</sub> emissions and fuel economy have improved in seven of the last eight years. The 1.2 mpg annual fuel economy increase is the fourth highest ever, exceeded only by the increases from MY 1979-1980, MY 1980-1981, and MY 2008-2009. It is likely that the CO<sub>2</sub> emissions and fuel economy improvements in MY 2012 are slightly larger than they otherwise would have been due to the impacts of the earthquake, tsunami, and nuclear tragedy in Japan in March 2011, which lowered MY 2011 car and car parts production in Japan.

Car production share of the overall personal vehicle market increased by 6 percentage points in MY 2012. Car-truck production share has been very volatile in recent years, and the increased car share in MY 2012 had significant impacts on other parameters. Average personal vehicle weight fell by 150 pounds (4%) in MY 2012, to its second lowest level in the last decade. Power decreased by 8 horsepower (3%), though it remains at its second highest level ever. Average vehicle footprint fell by 0.7 square foot (1%), remaining within a fairly narrow band over the last few years.

Tables 3.3.1 and 3.3.2, shown later in this report, disaggregate the data in Table 2.1 for the individual car and truck fleets, respectively, for MY 1975-2013.

### B. OVERVIEW OF PRELIMINARY MY 2013 DATA

Preliminary values for MY 2013 are 370 g/mi CO<sub>2</sub> emissions and 24.0 mpg and are based on projected vehicle production values provided to EPA by manufacturers prior to the beginning of the model year. Final values for MY 2013 will be published in next year's report. The preliminary data suggest that truck production share will remain unchanged and that vehicle weight, horsepower, and footprint will all increase somewhat in MY 2013, with power levels tying an all-time high.

**Table 2.1****Adjusted CO<sub>2</sub> Emissions, Adjusted Fuel Economy, and Key Parameters for MY 1975-2013**

Model Year	Production (000)	New Gasoline and Diesel Vehicles								Gasoline and Diesel Share of All Vehicle Production
		Adj CO <sub>2</sub> (g/mi)	Adj Fuel Economy (MPG)	Weight (lb)	HP	Footprint (sq ft)	0-to-60 Time (sec)	Car Production	Truck Production	
1975	10,224	681	13.1	4060	137	-	14.1	80.7%	19.3%	100.0%
1976	12,334	625	14.2	4079	135	-	14.3	78.9%	21.1%	100.0%
1977	14,123	590	15.1	3982	136	-	13.8	80.1%	19.9%	100.0%
1978	14,448	562	15.8	3715	129	-	13.6	77.5%	22.5%	100.0%
1979	13,882	560	15.9	3655	124	-	13.9	77.9%	22.1%	100.0%
1980	11,306	466	19.2	3228	104	-	14.3	83.5%	16.5%	100.0%
1981	10,554	436	20.5	3202	102	-	14.4	82.8%	17.2%	100.0%
1982	9,732	425	21.1	3202	103	-	14.4	80.5%	19.5%	100.0%
1983	10,302	426	21.0	3257	107	-	14.1	78.0%	22.0%	100.0%
1984	14,020	424	21.0	3262	109	-	14.0	76.5%	23.5%	100.0%
1985	14,460	417	21.3	3271	114	-	13.5	75.2%	24.8%	100.0%
1986	15,365	407	21.8	3238	114	-	13.4	72.1%	27.9%	100.0%
1987	14,865	405	22.0	3221	118	-	13.1	72.8%	27.2%	100.0%
1988	15,295	407	21.9	3283	123	-	12.8	70.9%	29.1%	100.0%
1989	14,453	415	21.4	3351	129	-	12.5	70.1%	29.9%	100.0%
1990	12,615	420	21.2	3426	135	-	12.2	70.4%	29.6%	100.0%
1991	12,573	418	21.3	3410	138	-	12.1	69.6%	30.4%	100.0%
1992	12,172	427	20.8	3512	145	-	11.8	68.6%	31.4%	100.0%
1993	13,211	426	20.9	3519	147	-	11.8	67.6%	32.4%	100.0%
1994	14,125	436	20.4	3603	152	-	11.7	61.9%	38.1%	100.0%
1995	15,145	434	20.5	3613	158	-	11.3	63.5%	36.5%	100.0%
1996	13,144	435	20.4	3659	164	-	11.1	62.2%	37.8%	100.0%
1997	14,458	441	20.2	3727	169	-	11.0	60.1%	39.9%	100.0%
1998	14,456	442	20.1	3744	171	-	10.9	58.3%	41.7%	100.0%
1999	15,215	451	19.7	3835	179	-	10.7	58.3%	41.7%	100.0%
2000	16,571	450	19.8	3821	181	-	10.6	58.8%	41.2%	100.0%
2001	15,605	453	19.6	3879	187	-	10.5	58.6%	41.4%	100.0%
2002	16,115	457	19.5	3951	195	-	10.2	55.3%	44.7%	100.0%
2003	15,773	454	19.6	3999	199	-	10.2	53.9%	46.1%	100.0%
2004	15,709	461	19.3	4111	211	-	9.9	52.0%	48.0%	100.0%
2005	15,892	447	19.9	4059	209	-	9.9	55.6%	44.4%	100.0%
2006	15,104	442	20.1	4067	213	-	9.8	57.9%	42.1%	100.0%
2007	15,276	431	20.6	4093	217	-	9.7	58.9%	41.1%	100.0%
2008	13,898	424	21.0	4085	219	48.9	9.7	59.3%	40.7%	100.0%
2009	9,315	397	22.4	3914	208	48.1	9.7	67.0%	33.0%	100.0%
2010	11,110	394	22.6	4002	214	48.6	9.6	62.7%	37.3%	100.0%
2011	12,003	398	22.4	4127	230	49.5	9.4	57.8%	42.2%	99.9%
2012	13,438	376	23.6	3977	222	48.8	9.4	64.4%	35.6%	99.6%
2013	-	370	24.0	4041	230	49.1	9.3	64.4%	35.6%	-

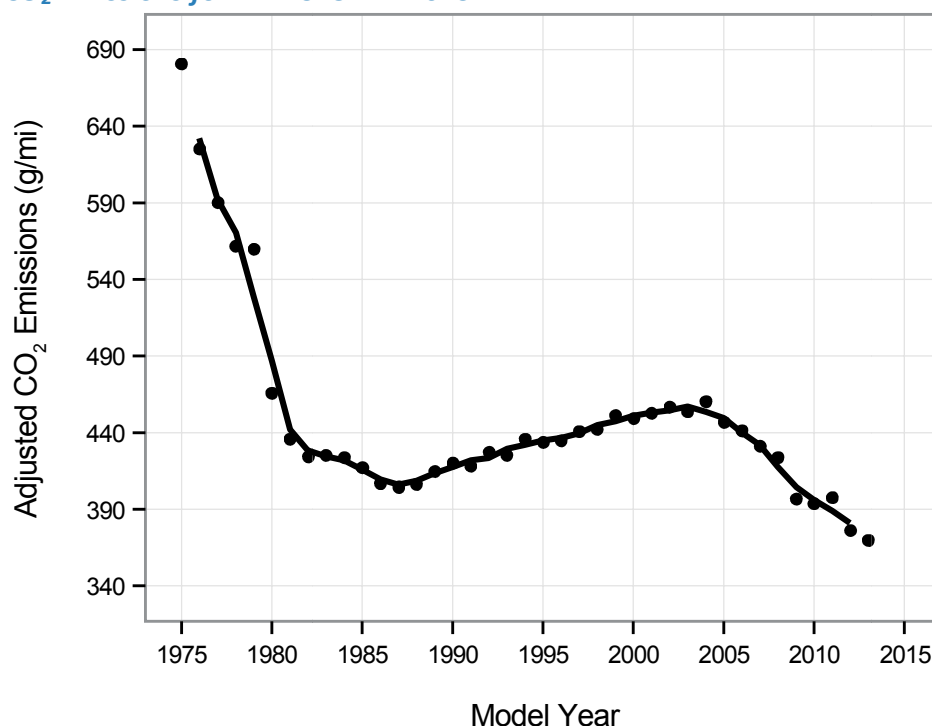
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## C. OVERVIEW OF LONG-TERM TRENDS

While the most recent annual changes often receive the most public attention, the greatest value of the Trends database is to document long-term trends. This is because: 1) year-to-year variability can reflect short-term trends (recent examples include the economic recession and Cash for Clunkers rebates in 2009, the impact of the tsunami aftermath on Japan-based manufacturers in 2011, and changes in gasoline prices) that may not be meaningful from a long-term perspective, and 2) the magnitude of year-to-year changes in annual CO<sub>2</sub> emissions and fuel economy tend to be small relative to longer, multi-year trends.

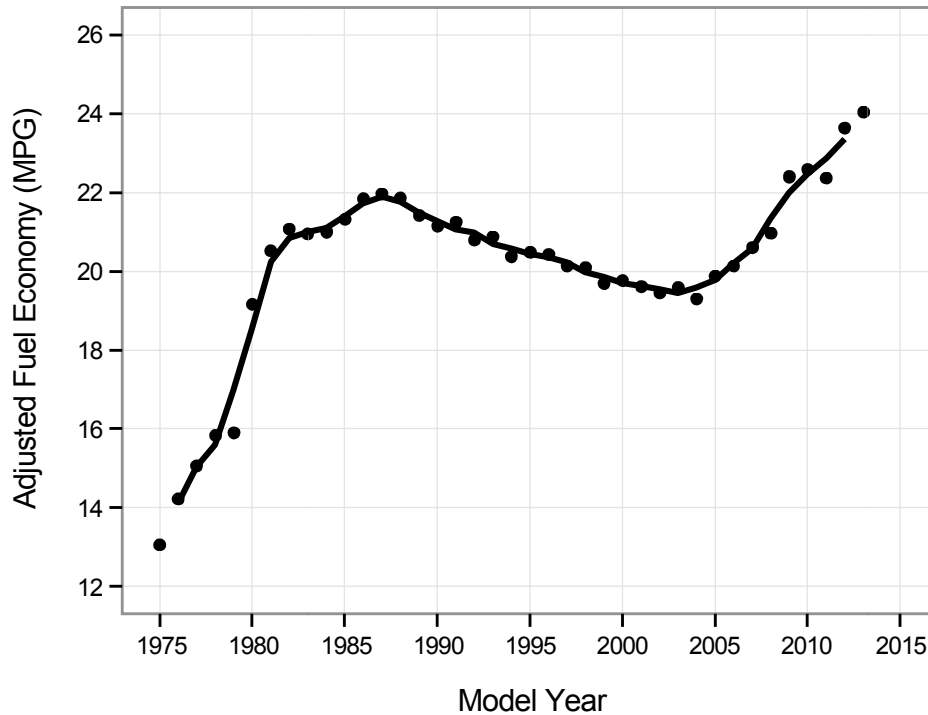
Figures 2.1 and 2.2 show fleetwide adjusted CO<sub>2</sub> emissions and fuel economy from Table 2.1 for MY 1975-2013. For both figures, the individual data points represent annual values, and the curves represent 3-year moving averages (where each year represents the average of that model year, the model year prior, and the model year following, e.g., the value for MY 2012 represents the average of MY 2011-2013) which “smooth out” the year-to-year volatility. The two curves are essentially “inversely proportional” to each other, i.e., vehicle tailpipe CO<sub>2</sub> emissions (grams per mile) are proportional to fuel consumption (gallons per mile), which is the reciprocal of fuel economy (miles per gallon).

**Figure 2.1**  
**Adjusted CO<sub>2</sub> Emissions for MY 1975-MY 2013**



**Figure 2.2**

**Adjusted Fuel Economy for MY 1975-MY 2013**



These two figures show that fleetwide adjusted CO<sub>2</sub> emissions and fuel economy have undergone four clearly defined phases since 1975. Figure 2.3 shows fleetwide adjusted fuel economy, weight, and horsepower data for MY 1975-2013 from Table 2.1. All of the data in Figure 2.3 are presented as percentage changes since 1975. Vehicle weight and horsepower are critical vehicle attributes in that higher values, other things being equal, will increase CO<sub>2</sub> emissions and decrease fuel economy.

**Long-Term CO<sub>2</sub> Emissions and Fuel Economy Phases:**

- *Rapid improvements from MY 1975 through MY 1981, with fleet-wide adjusted CO<sub>2</sub> emissions decreasing by 36% and fuel economy increasing by 56% over those six years*
- *Slower improvements from MY 1982 through MY 1987*
- *A slow, but steady reversal of improvements from MY 1988 through MY 2004, with CO<sub>2</sub> emissions increasing by 14% and fuel economy decreasing by 12%, even as technology innovation continued to evolve*
- *A very favorable trend beginning in 2005, with annual CO<sub>2</sub> emissions and fuel economy improvements in seven of the eight individual years, and with CO<sub>2</sub> emissions decreasing by 18% and fuel economy increasing by 22% since MY 2004*

**Figure 2.3**

**Adjusted Fuel Economy, Weight, and Horsepower for MY 1975-2013**

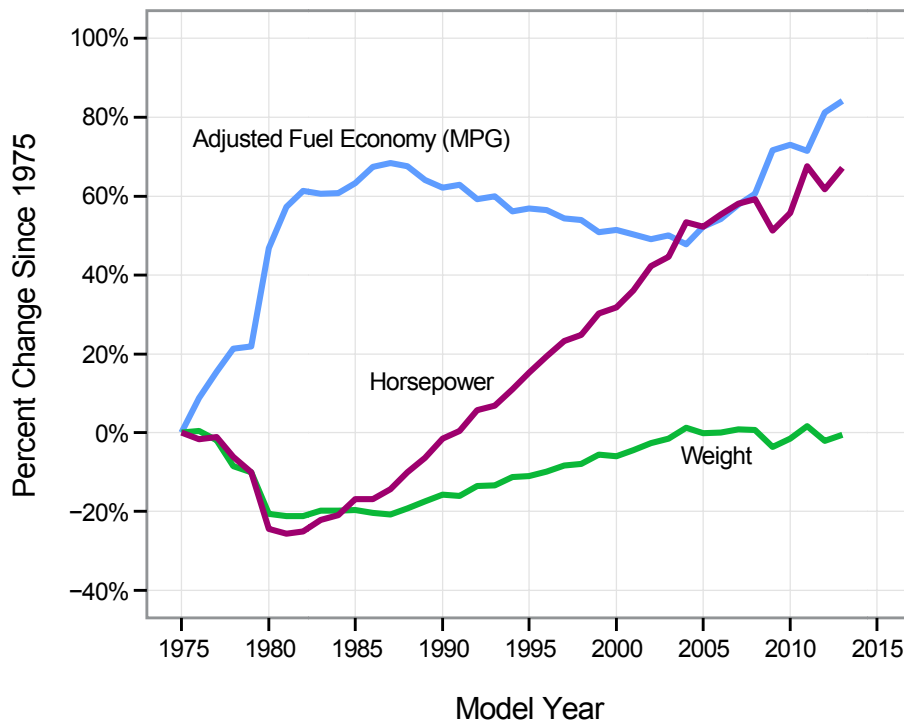


Figure 2.3 shows some very significant long-term trends. Both average vehicle weight and horsepower decreased in the late 1970s as fuel economy increased. During the two decades from the mid-1980s to the mid-2000s, vehicle weight and horsepower rose consistently and significantly, while fuel economy steadily decreased. It is clear from Figure 2.3 that the considerable technology innovation during these two decades, on a fleet-wide basis, supported attributes such as vehicle weight and power (and associated utility functions such as vehicle size, acceleration performance, safety features and content), but did not improve fuel economy. Since MY 2005, new automotive technology has improved both fuel economy and power, while keeping vehicle weight relatively constant. As a result, recent vehicles have greater acceleration performance, higher fuel economy, and lower CO<sub>2</sub> emissions.

Table 2.1 shows data for vehicle footprint and estimated 0-60 miles per hour acceleration time. Footprint is a critical vehicle attribute since it is the basis for current and future GHG emissions and fuel economy standards. The Trends database includes footprint data from external sources beginning in MY 2008, but because footprint data has only been provided by automakers since MY 2011, it is impossible to discern any long-term footprint trends at this time. Estimated 0-60 acceleration times are calculated based on a relationship between acceleration, horsepower, and weight (see Section 10). For more detail on weight,

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horsepower, footprint, and 0-60 acceleration times, see Section 3.

Table 2.1 also shows that truck share increased consistently from 1980 through 2004. The truck share increases from 1988 through 2004 were a critical underlying factor in the increase in fleet-wide weight and power discussed above, as well as in the higher fleet-wide CO<sub>2</sub> emissions and lower fleet-wide fuel economy over that same period. Since 2004, truck share has been volatile, affected by factors such as the economic recession of 2009, the Car Allowance Rebate System (also known as Cash for Clunkers) in 2009, and the aftermath of the earthquake and tsunami in Japan in 2011. For more data and discussion of relative car/truck production share, as well as data for the separate car and truck fleets, see Section 3.

Table 2.2 shows a comparison, for fuel economy and several other key attributes, of final MY 2012 data with MY 2008 and MY 2004 data, all taken from Table 2.1.

MY 2008 is selected for comparison for three reasons: 1) four years provide a sufficient time to see meaningful multi-year trends, 2) it preceded a multi-year period of variability beginning in MY 2009, and 3) there have only been relatively minor changes in key vehicle attributes that influence fuel economy in the four years that followed. From MY 2008 to MY 2012, weight decreased by 2.6% (which would be expected to result in a slight increase in fuel economy, other things being equal), while horsepower increased by 1.4% (which would be expected to result in a slight decrease in fuel economy), so these two impacts counter balance to some degree. Footprint remained essentially unchanged. Fuel economy, on the other hand, increased by 2.6 mpg, or 12%, from MY 2008 to MY 2012.

MY 2004 is shown in Table 2.2 primarily because it is the “valley year,” i.e., it is the year with the lowest adjusted fuel economy since MY 1980 and therefore now represents a 32-year low. As with the comparison of MY 2008 and MY 2012 above, the changes in weight and horsepower from MY 2004 to MY 2012 have gone in opposite directions—weight has decreased by 3.3% and horsepower has increased by 5.2%. We do not have footprint data for MY 2004. From MY 2004 to MY 2012, fuel economy has increased by 4.3 mpg, or 22%.

These fuel economy increases of 12% since MY 2008 and 22% since MY 2004 are unprecedented over the last 30 years. As shown in Table 2.1, the only other period with a greater and more rapid fuel economy increase was from MY 1975 through MY 1981.

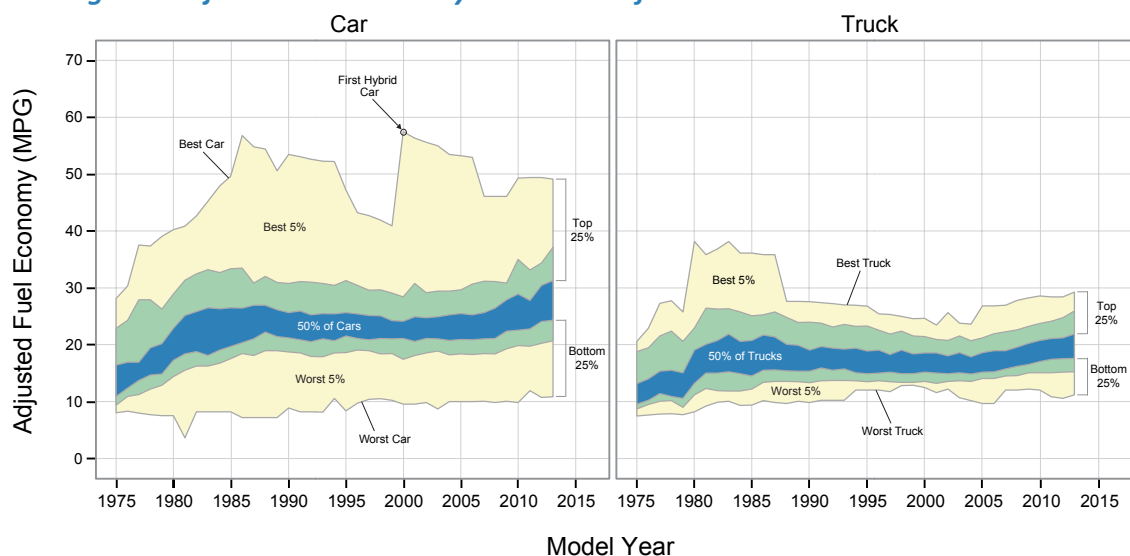
**Table 2.2****Comparison of MY 2012 with MY 2008 and MY 2004**

MY 2012 Relative to MY 2008				
Fuel Economy		Weight	Horsepower	Footprint
MPG	%	%	%	%
+2.6	+12	-2.6	+1.4	-0.2

MY 2012 Relative to MY 2004				
Fuel Economy		Weight	Horsepower	Footprint
MPG	%	%	%	%
+4.3	+22	-3.3	+5.2	-

Figure 2.4 shows the production-weighted distribution of adjusted fuel economy by model year, for gasoline (including conventional hybrids) and diesel vehicles (no electric or natural gas fuel vehicles are included in Figure 2.4). It is important to note that the methodology used in this report for calculating adjusted fuel economy values has changed over time (see Section 10 for a detailed explanation). For example, the adjusted fuel economy for a 1980s vehicle in the Trends database is somewhat higher than it would be if the same vehicle were being produced today. These changes are small for most vehicles, but larger for very-high fuel economy vehicles. For example, the “Best Car” line in Figure 2.4 for MY 2000 through MY 2006 represents the original Honda Insight hybrid, and the several miles per gallon decrease over that period is primarily due to the change in methodology for adjusted fuel economy values, with just a 1 mpg decrease due to minor vehicle design changes during that time.

**Figure 2.4****Production-Weighted Adjusted Fuel Economy Distribution for MY 1975-MY 2013**

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Since 1975, half of car production has consistently been within several mpg of each other. The fuel economy difference between the least efficient and most efficient car increased from about 20 mpg in MY 1975 to nearly 50 mpg in MY 1986 (when the most efficient car was the General Motors Sprint ER) and in MY 2000 (when the most efficient car was the original Honda Insight hybrid), and is now about 40 mpg. Hybrids have defined the “Best Car” line since MY 2000. The ratio of the highest-to-lowest fuel economy has increased from about three-to-one in MY 1975 to nearly five-to-one today, as 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 MY 1975.

The overall fuel economy distribution for trucks is narrower than that for cars, with a peak in the fuel economy of the most efficient truck in the early 1980s when small pickup trucks equipped with diesel engines were sold by Volkswagen and General Motors. As a result, the fuel economy range between the most efficient and least efficient truck peaked at about 25 mpg in the early 1980s. The fuel economy range for trucks then narrowed, and is now less than 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.

All of the above data are adjusted, combined city/highway CO<sub>2</sub> emissions and fuel economy values for the combined car and truck fleet. Table 10.1 provides, for the overall car and truck fleets, adjusted and unadjusted, laboratory values for city, highway, and combined city/highway. Appendices B and C provide more detailed data on the distribution of adjusted fuel economy values by model year.

Finally, Table 2.3 shows the highest fuel economy gasoline and diesel vehicles for the MY 1975-2013 time frame (while the Trends report database began in MY 1975, we are confident that these are also the highest fuel economy values of all time for mainstream vehicles in the U.S. market). Note that alternative fuel vehicles, such as electric and plug-in hybrid electric vehicles, are excluded from this table. See Appendix A for a listing of the highest and lowest fuel economy vehicles, based on unadjusted fuel economy values, for each year since 1975.

Unadjusted, laboratory fuel economy (weighted 55% city/45% highway) values are used to rank vehicles in Table 2.3, since the test procedures and methodology for determining unadjusted, laboratory fuel economy values have been unchanged since 1975. Accordingly, unadjusted, laboratory values provide a more equitable fuel economy metric, from a vehicle design perspective, over the historical time frame, than the adjusted fuel economy values used throughout most of this report, as the latter also reflect changes in real world driving behavior such as speed, acceleration, and use of air conditioning.

For Table 2.3, vehicle models with the same powertrain and essentially marketed as the same vehicle to consumers are shown only once. Models are typically sold for several years before being redesigned, so the convention for models with the same fuel economy for several years is to show MY 2013, if applicable, and otherwise to show the first year when the model

achieved its maximum fuel economy. Data are also shown for number of seats, inertia weight class, and projected 0-60 acceleration time.

**Table 2.3**

**Top Ten Highest Unadjusted, Laboratory Fuel Economy Gasoline/Diesel Vehicles for MY 1975-MY 2013**

Model Year	Manufacturer	Model	Powertrain	Unadjusted, Laboratory Combined Fuel Economy (MPG)	Number of Seats	Inertia Weight Class (lbs)	0-to-60 Accel (sec)
2000	Honda	Insight	Gasoline Hybrid	76	2	2000	11
2013	Toyota	Prius	Gasoline Hybrid	71	5	3500	10
2013	Toyota	Prius c	Gasoline Hybrid	71	5	2750	11
1986	GM	Sprint ER	Conv. Gasoline	67	4	1750	16
1989	GM	Metro XFi	Conv. Gasoline	66	4	1750	14
2013	Ford	Fusion	Gasoline Hybrid	66	5	4000	8
1986	Honda	Civic CRX HF	Conv. Gasoline	64	2	2000	15
2013	Honda	Civic	Gasoline Hybrid	63	5	3000	10
2013	VW	Jetta	Gasoline Hybrid	61	5	3500	9
1994	Honda	Civic HB VX	Conv. Gasoline	60	5	2250	12

As expected, all of the vehicles listed in Table 2.3 are cars. The top fuel economy vehicle is the MY 2000 Honda Insight, a two-seater that was the first hybrid vehicle sold in the U.S. market. The MY 2000 Insight had an unadjusted, laboratory value of 76 mpg, 5 mpg higher than the MY 2013 Prius and Prius c vehicles, which are the second and third highest fuel economy vehicles, both of which have unadjusted, laboratory fuel economy values of 71 mpg.

Five of the highest ten fuel economy gasoline and diesel vehicles of all time are on the market in MY 2013, and all of these are conventional hybrids. In addition to the MY 2000 Insight, the remaining four vehicles in Table 2.3 are non-hybrid gasoline vehicles from the late 1980s and early 1990s.

One of the most important lessons from Table 2.3 is that there are important differences between the highest fuel economy vehicles of the past and those of today. All but one of the pre-MY 2013 vehicles in Table 2.3 had 2 or 4 seats, while the MY 2013 vehicles all seat 5 passengers. The pre-MY 2013 vehicles had inertia weight class values of 1750-2250 pounds, while the MY 2013 vehicles are in inertia weight classes of 2750-4000 pounds, or 1000-2000 pounds heavier. While the MY 2013 vehicles have 0-60 acceleration times of 8-11 seconds, three of the pre-MY 2013 vehicles have 0-60 acceleration times of 14 seconds or greater. Though not shown in Table 2.3, MY 2013 vehicles were also required to meet more stringent DOT safety standards than vehicles produced in the earlier model years. One clear conclusion from Table 2.3 is that conventional hybrid technology has enabled manufacturers to offer high fuel economy vehicles with much greater utility than the high fuel economy vehicles of the past.

# 3 Vehicle Class, Type, and Attributes

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## A. VEHICLE CLASS

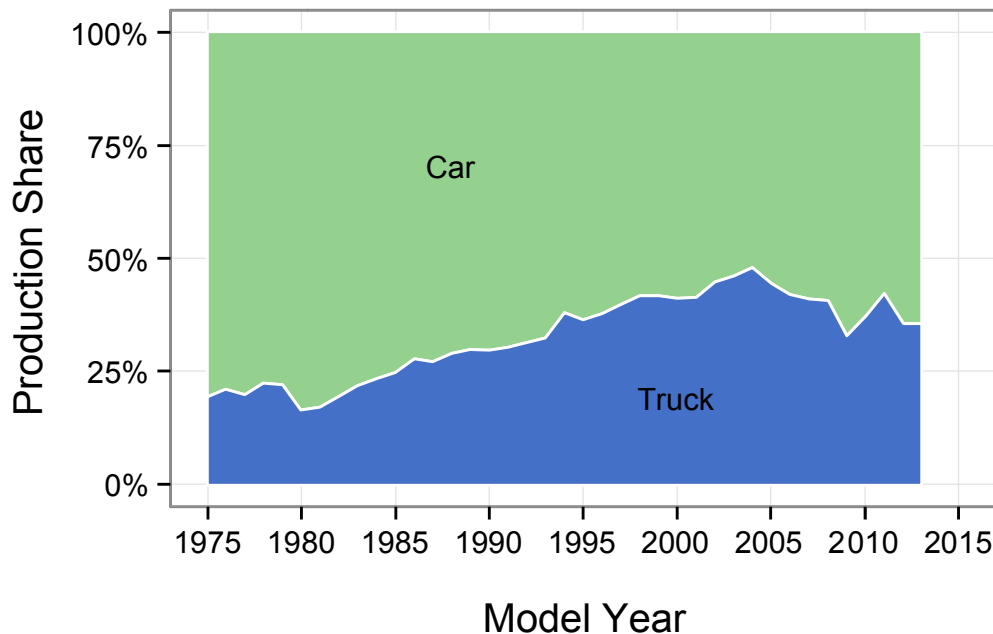
We use “class” to refer to the overall division of light-duty (or personal) vehicles into the two classes of “cars” and “trucks.” This car-truck distinction has been recognized since the database was originated in the 1970s, though the precise definitions associated with these two classes have changed somewhat over time. Car-truck classification is important both because of functional differences between the design of many cars and trucks, and because there are now separate footprint-based CO<sub>2</sub> emissions and fuel economy standards curves for cars and trucks. The regulatory challenge has been where to draw the line between the highest-utility cars and the lowest-utility trucks, and this has been why car-truck definitions have evolved over time.

Car and truck classifications in this report are based on the current regulatory definitions used by both EPA and NHTSA for CO<sub>2</sub> emissions and fuel economy standards. These current definitions are somewhat different than those used in older versions of this report. The most important recent change was re-classification of many small and mid-sized, 2-wheel drive sport utility vehicles (SUVs) from the truck category to the car category. As with other such changes in this report, this change has been propagated back throughout the entire historical database. This re-classification reduced the absolute truck share by approximately 10% for recent years. A second recent change was the inclusion of medium-duty passenger vehicles (MDPVs), those SUVs and passenger vans with gross vehicle weight ratings between 8500 and 10,000 pounds and which previously had been treated as heavy-duty vehicles, into the light-duty truck category. But, this is a far less important change, since the number of MDPVs is much smaller than it once was (e.g., only 6500 MDPVs were sold in MY 2012). In this report, “cars” include passenger cars and most small and mid-sized, 2 wheel-drive SUVs, while “trucks” include all other SUVs, minivans and vans, and pickup trucks below 8500 pounds gross vehicle weight rating.

Figure 3.1 shows the car and truck production volume shares for MY 1975-2013 using the current car-truck definitions throughout the database.

**Figure 3.1**

*Car and Truck Production Share for MY 1975-2013*



Truck share was around 20% from MY 1975-1982, and then started to increase steadily through MY 2004, when it peaked at 48%. The truck share increases from MY 1988-2004, a period during which inflation-adjusted gasoline prices remained at or near historical lows, were a critical factor in the increased fleetwide CO<sub>2</sub> emissions and decrease in fleetwide fuel economy over that same period. Since 2004, truck share has been volatile, affected by factors such as the economic recession of 2009, the Car Allowance Rebate System (also known as Cash for Clunkers) in 2009, and the earthquake and tsunami aftermath in Japan in 2011.

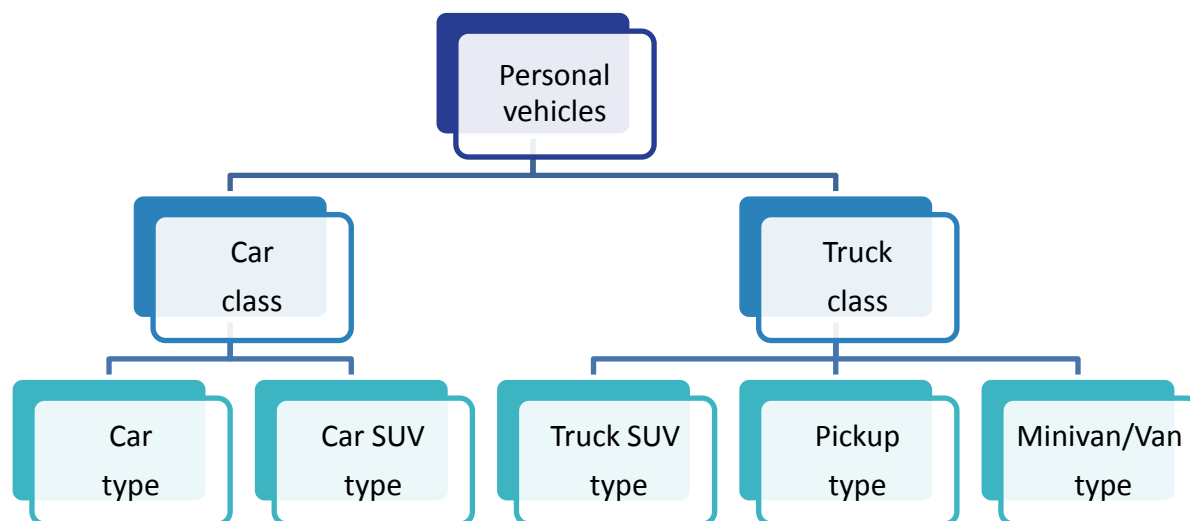
The final truck share value for MY 2012 is 36%, a 6 percentage point decrease relative to MY 2011 and 12 percentage points lower than the peak truck share of 48% in MY 2004. The MY 2013 truck market share is projected to remain at 36%.

## B. VEHICLE TYPE

We use vehicle “type” to refer to secondary divisions within the car and truck classes. Vehicle type is not relevant to standards compliance, as all cars (and, separately, all trucks) use the same footprint-CO<sub>2</sub> emissions and footprint-fuel economy target curves, but we believe that certain vehicle type distinctions are illustrative and meaningful from both vehicle design and marketing perspectives.

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This report breaks the car class into two types—cars and car SUVs. The truck class is split into three types—truck SUVs, pickups, and minivans/vans. This is a simpler approach than that used in previous versions of this report.



For cars, previous versions of this report generally divided the car class into 9 types/sizes (cars, Wagons, and car SUVs, each further subdivided into small, medium, and large sizes based on interior volume). We no longer use wagons as a car type in this report. Wagons only represent 3% of fleet-wide production in MY 2012.

More importantly, we believe that interior volume (the sum of passenger volume and cargo volume, typically measured in cubic feet), the metric that has historically been used to differentiate various car types and sizes, is not as informative as it once was. For example, Figure 3.2 shows fuel economy versus interior volume for the car type for two years, MY 1978 and MY 2013, for high-volume manufacturers.

**Figure 3.2**

**Adjusted Fuel Economy vs. Interior Volume for High Volume Manufacturers: MY 1978 and MY 2013: Car Type Only**



The data in Figure 3.2 illustrate the “compression” in the range of interior volumes for car type vehicles since 1978. In MY 1978, there were mainstream car type vehicles on the market with interior volumes ranging from about 70 cubic feet to about 160 cubic feet, with a large number of offerings at both ends of the spectrum. Today, mainstream offerings

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range from about 80 cubic feet to about 130 cubic feet, with just a few outliers at about 55 and 140 cubic feet. The compression is even greater when considering production volumes. We reviewed the data for one high-volume make that offered seven car type models in MY 2012. The interior volume of these seven models ranged from 97-124 cubic feet, with 75% of sales within a very narrow interior volume range of 104-111 cubic feet, and about 50% of production (representing 3 models) with essentially the same interior volume (110-111 cubic feet).

Based on the above figures and data, we believe that interior volume is no longer useful as a differentiator for the car types in the Trends database, and we will no longer use the small/medium/large vehicle size metric based on interior volume. We believe that vehicle footprint is a more appropriate indicator of car size because it is the basis for both CO<sub>2</sub> emissions and fuel economy standards (and it is relevant to both cars and trucks). Interior volume data for car type vehicles will still be included in the Trends database.

As a result, this report now divides the car class into two types: 1) a car SUV type for those SUVs that must meet the car GHG emissions and fuel economy standards, and 2) a car type for all other vehicles in the car class, including the fueleconomy.gov designations of minicompact, subcompact, compact, midsize, large, two-seater cars, and station wagons. For propagating back in the historical database, station wagons are generally allocated to the car type.

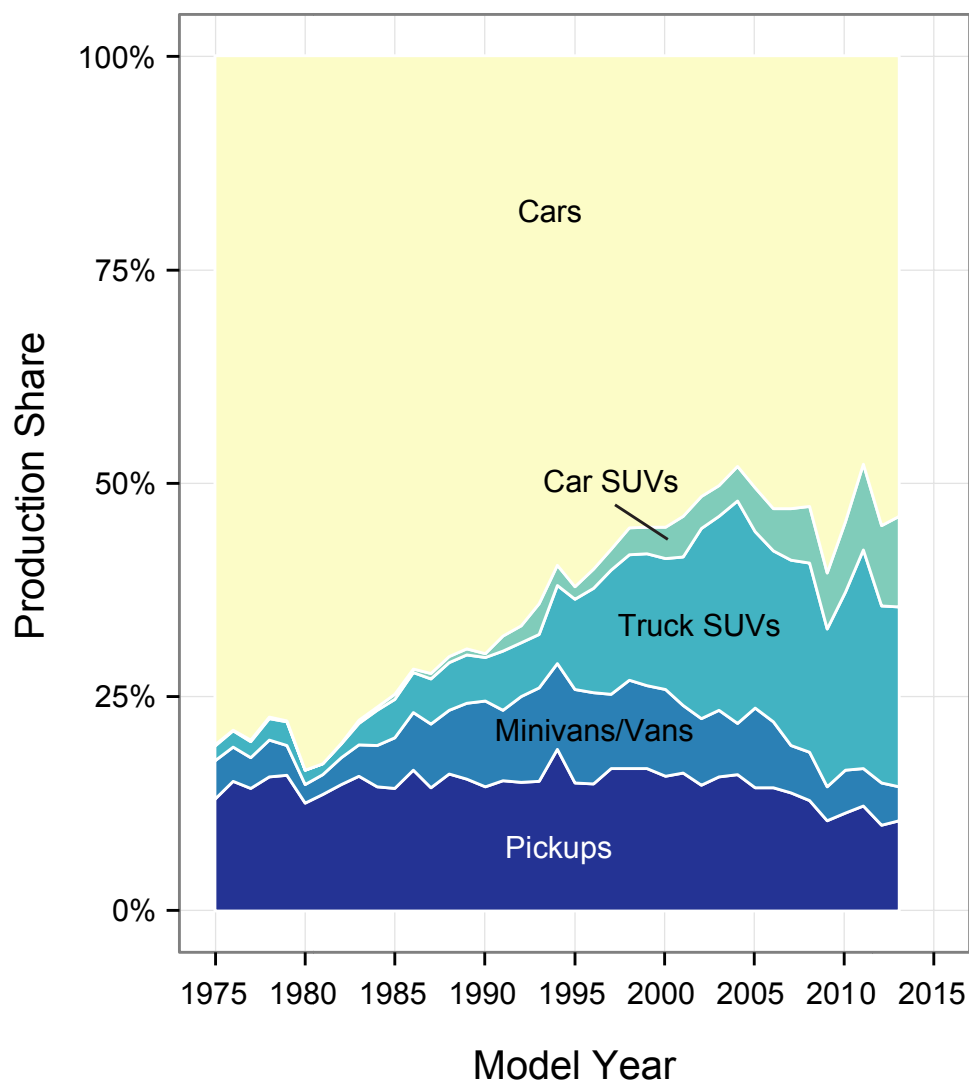
For trucks, previous versions of this report divided the truck class into 9 types/sizes (SUVs, Pickups, and Vans (including minivans), each further subdivided into small, medium, and large sizes based on vehicle wheelbase). This report retains the three truck types because we believe that there continue to be meaningful functional and marketing differences between truck SUVs (those SUVs that must meet the truck GHG emissions and fuel economy standards), pickups, and minivans/vans. See Section 10 for the definitions for SUVs, pickups, minivans, and vans and for more information about car-truck classifications. We use engineering judgment to allocate the very small number of special purpose vehicles (as designated on fuel economy.gov) to the three truck types.

It is important to note that this report no longer uses wheelbase to differentiate between truck type sizes. The rationale for this change, similar to that for car interior volume above, is that the wheelbase metric is not as informative as it once was. For example, under the wheelbase thresholds that were used in the 2012 report, 99% of MY 2011 pickups are “large” and 99% of MY 2011 minivans/vans are “medium.” In addition, since wheelbase is one of the two factors associated with vehicle footprint (wheelbase times average track width), we believe that vehicle footprint is a more appropriate indicator of truck size.

Figure 3.3 shows the car and truck production volume shares for MY 1975-2013, subdivided into the two car types and three truck types. Table 3.1 shows the same data in tabular form.

**Figure 3.3**

*Vehicle Type Production Share by Model Year*



**Table 3.1****Vehicle Type Production Share by Model Year**

Model Year	Cars	Car SUVs	All Cars	Truck SUVs	Pickups	Minivans/Vans	All Trucks
1975	80.6%	0.1%	80.7%	1.7%	13.1%	4.5%	19.3%
1976	78.8%	0.1%	78.9%	1.9%	15.1%	4.1%	21.1%
1977	80.0%	0.1%	80.1%	1.9%	14.3%	3.6%	19.9%
1978	77.3%	0.1%	77.5%	2.5%	15.7%	4.3%	22.5%
1979	77.8%	0.1%	77.9%	2.8%	15.9%	3.5%	22.1%
1980	83.5%	0.0%	83.5%	1.6%	12.7%	2.1%	16.5%
1981	82.7%	0.0%	82.8%	1.3%	13.6%	2.3%	17.2%
1982	80.3%	0.1%	80.5%	1.5%	14.8%	3.2%	19.5%
1983	77.7%	0.3%	78.0%	2.5%	15.8%	3.7%	22.0%
1984	76.1%	0.4%	76.5%	4.1%	14.6%	4.8%	23.5%
1985	74.6%	0.6%	75.2%	4.5%	14.4%	5.9%	24.8%
1986	71.7%	0.4%	72.1%	4.6%	16.5%	6.8%	27.9%
1987	72.2%	0.6%	72.8%	5.2%	14.4%	7.5%	27.2%
1988	70.2%	0.7%	70.9%	5.6%	16.1%	7.4%	29.1%
1989	69.3%	0.7%	70.1%	5.7%	15.4%	8.8%	29.9%
1990	69.8%	0.5%	70.4%	5.1%	14.5%	10.0%	29.6%
1991	67.8%	1.8%	69.6%	6.9%	15.3%	8.2%	30.4%
1992	66.6%	2.0%	68.6%	6.2%	15.1%	10.0%	31.4%
1993	64.0%	3.6%	67.6%	6.3%	15.2%	10.9%	32.4%
1994	59.6%	2.3%	61.9%	9.1%	18.9%	10.0%	38.1%
1995	62.0%	1.5%	63.5%	10.5%	15.0%	11.0%	36.5%
1996	60.0%	2.2%	62.2%	12.2%	14.9%	10.7%	37.8%
1997	57.6%	2.5%	60.1%	14.5%	16.7%	8.8%	39.9%
1998	55.1%	3.1%	58.3%	14.7%	16.7%	10.3%	41.7%
1999	55.1%	3.2%	58.3%	15.4%	16.7%	9.6%	41.7%
2000	55.1%	3.7%	58.8%	15.2%	15.8%	10.2%	41.2%
2001	53.9%	4.8%	58.6%	17.3%	16.1%	7.9%	41.4%
2002	51.5%	3.7%	55.3%	22.3%	14.8%	7.7%	44.7%
2003	50.2%	3.6%	53.9%	22.6%	15.7%	7.8%	46.1%
2004	48.0%	4.1%	52.0%	25.9%	15.9%	6.1%	48.0%
2005	50.5%	5.1%	55.6%	20.6%	14.5%	9.3%	44.4%
2006	52.9%	5.0%	57.9%	19.9%	14.5%	7.7%	42.1%
2007	52.9%	6.0%	58.9%	21.7%	13.8%	5.5%	41.1%
2008	52.7%	6.6%	59.3%	22.1%	12.9%	5.7%	40.7%
2009	60.5%	6.5%	67.0%	18.4%	10.6%	4.0%	33.0%
2010	54.5%	8.2%	62.7%	20.8%	11.5%	5.0%	37.3%
2011	47.7%	10.1%	57.8%	25.6%	12.3%	4.3%	42.2%
2012	54.9%	9.4%	64.4%	20.6%	10.1%	4.9%	35.6%
2013	53.8%	10.6%	64.4%	21.0%	10.6%	4.0%	35.6%

The data from Table 3.1 show that car type market share has dropped from around 80% in the MY 1975-1985 timeframe to about 50% today. Pickups accounted for most of the remaining market share in MY 1975-1985. In the late 1980s, both minivans/vans and truck SUVs began to erode car type market share, with truck SUV market share reaching as high as 26%, before declining to about 20% today. More recently, car SUVs have increased

market share to about 10%. Total SUVs, including both car SUVs and truck SUVs, have achieved market share in the 30% range over the last few years. Pickup market share was approximately 15% from MY 1975 through MY 2005, but has declined to about 10% today.

One particular comparison of interest is the trend associated with small SUVs that are classified as cars if they have 2-wheel drive and as trucks if they have 4-wheel drive. For this analysis summarized in Table 3.2, we reviewed MY 2000-2013 SUVs with inertia weights (see below for more detail about inertia weight) of 4000 pounds or less (SUVs with inertia weights in excess of 4000 pounds are typically categorized as trucks regardless of whether they are 2-wheel or 4-wheel drive). Note that we have propagated the current car-truck definitions back to previous years in the Trends database in order to maintain the integrity of historical trends (i.e., some vehicles that were defined as trucks in past years are now defined as cars in the Trends database).

**Table 3.2**

*Car-Truck Classification of SUVs with Inertia Weights of 4000 Pounds or Less*

Model Year	Car SUV Production	Truck SUV Production	Total SUV Production	Percent Car SUV	Percent Truck SUV
2000	617	796	1,413	43.7%	56.3%
2001	743	920	1,663	44.7%	55.3%
2002	603	928	1,531	39.4%	60.6%
2003	575	994	1,569	36.6%	63.4%
2004	599	1,116	1,715	34.9%	65.1%
2005	753	867	1,620	46.5%	53.5%
2006	691	758	1,449	47.7%	52.3%
2007	761	843	1,604	47.4%	52.6%
2008	748	799	1,547	48.4%	51.6%
2009	539	575	1,115	48.4%	51.6%
2010	659	854	1,512	43.5%	56.5%
2011	985	1,044	2,029	48.5%	51.5%
2012	1,043	869	1,912	54.6%	45.4%
2013	-	-	-	55.5%	44.5%

Table 3.2 shows that the fraction of SUVs with curb weights less than 4000 pounds that are classified as trucks, using the current car-truck definitions propagated back in time, has been declining somewhat over the last decade, from around 60% in the early 2000s to less than 50% in recent years and to about 45% in MY 2012-2013.

Appendix D gives additional data stratified by vehicle type.

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## C. VEHICLE ATTRIBUTES

This section focuses on four key attributes that impact CO<sub>2</sub> emissions and fuel economy (footprint, weight, horsepower, and 0-60 acceleration time) that are relevant to all light-duty vehicles and that were included in the Table 2.1 fleetwide data presented in Section 2.

Vehicle footprint is a very important attribute since it is the basis for the current CO<sub>2</sub> emissions and fuel economy standards. Footprint is the product of wheelbase times average track width (or the area defined by where the centers of the tires touch the ground). We provide footprint data beginning with MY 2008, though it is important to highlight that we have higher confidence in the data beginning in MY 2011. Footprint data from MY 2008-2010 were aggregated from various sources, some independent of formal automaker data, and EPA has less confidence in the consistency and precision of this data. Beginning in MY 2011, automakers began to formally submit reports to EPA with footprint data. With these caveats, Table 2.1 above shows that average fleetwide footprint has hovered around 49 square feet since MY 2008, with MY 2012 footprint of 48.8 square feet representing a 0.7 square feet decrease relative to MY 2011. The preliminary MY 2013 footprint value is 49.1 square feet, which if realized would be a slight increase relative to MY 2012. Future footprint trends will be a major topic of interest in future Trends reports as we continue to add to the more consistent and precise data that we began to collect in MY 2011.

Vehicle weight is a fundamental vehicle attribute, both because it can be related to utility functions such as vehicle size and features, and because higher weight, other things being equal, will increase CO<sub>2</sub> emissions and decrease fuel economy. All Trends vehicle weight data are based on inertia weight class. Each inertia weight class represents a range of loaded vehicle weights, or vehicle curb weights plus 300 pounds. Vehicle inertia weight classes are in 250-pound increments for inertia weight classes that are less than 3000 pounds, while inertia weight classes over 3000 pounds are divided into 500-pound increments. Table 1 above shows that average fleetwide vehicle weight decreased from nearly 4100 pounds in MY 1976 to 3200 pounds in MY 1981, likely driven by both increasing fuel economy standards (which, at that time, were universal standards, and not based on any type of vehicle attribute) and higher gasoline prices. Average vehicle weight then grew slowly but steadily over the next 23 years (in part because of the increasing truck share), essentially returning to its mid-1970s levels in MY 2004. Since 2004, average vehicle weight has stayed fairly constant in the range of 4000 to 4100 pounds. Average MY 2012 weight was 3977 pounds, a 150 pound decrease relative to MY 2011. The preliminary MY 2013 value for weight is 4041 pounds, which if realized would represent a 64 pound increase compared to MY 2012.

Horsepower (hp) is of interest as a direct measure of vehicle power. All else equal, higher power generally increases CO<sub>2</sub> emissions and decreases fuel economy. Trends horsepower data for all gasoline (including conventional hybrids) and diesel vehicles in the Trends database reflect engine rated horsepower. Average fleetwide horsepower dropped from 137 hp in MY 1975 to 102 hp in MY 1981. Since MY 1981, horsepower values have increased

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just about every year (again, in part due to the increasing truck share through 2004), and current levels are over twice those of the early 1980s. Average MY 2012 horsepower was 222 hp, an 8 hp decrease relative to MY 2011. The preliminary value for MY 2013 is 230 hp, which, if achieved, would tie the all-time high set in MY 2011.

The most commonly reported measure of vehicle acceleration performance in the automotive press is 0-to-60 miles per hour acceleration time (in seconds). Generally, for a given vehicle, lower 0-60 acceleration times will increase CO<sub>2</sub> emissions and decrease fuel economy. EPA does not receive 0-60 acceleration time data directly from automakers, so Trends 0-60 acceleration times for non-hybrid gasoline vehicles are calculated based on a relationship between 0-60 acceleration time, horsepower, and vehicle weight (see Section 10 for more detail). For diesel and conventional hybrid vehicles, EPA uses published values from trade press sources. Table 2.1 above shows that the average 0-60 acceleration times were fairly stable at about 14 seconds from MY 1975 through MY 1984, but have steadily declined since. Average 0-60 acceleration times have been around 9.5 seconds for the last few years, and the MY 2012 value is 9.4 seconds. The preliminary MY 2013 value is 9.3 seconds, which if realized, would be an all-time low.

The following two tables provide the key attribute data for the car and truck classes separately (these data are shown for the entire fleet in Table 2.1 above).

Table 3.3.1 shows that car adjusted fuel economy reached an all-time record of 27.0 mpg in MY 2012, which is exactly twice the MY 1975 level of 13.5 mpg. The 1.4 mpg increase from MY 2011 to MY 2012 is the largest for car fuel economy since MY 1981. Car weight, horsepower and footprint all decreased in MY 2012, but are projected to increase in MY 2013, as is car fuel economy. The interior volume data shown in Table 3.3.1 is only for car type vehicles, as EPA does not collect interior volume data for car SUVs.

Table 3.3.2 shows, for trucks only, the same data provided for cars in Table 3.3.1 above and for the overall light vehicle fleet in Table 2.1. Truck adjusted fuel economy was also a record high in MY 2012 at 19.3 mpg, which was a 0.2 mpg increase over MY 2011. Truck weight was slightly lower in MY 2012, while truck horsepower and footprint were slightly higher. Truck fuel economy, weight, horsepower, and footprint are all projected to increase in MY 2013.

**Table 3.3.1**

**Car Adjusted CO<sub>2</sub> Emissions, Adjusted Fuel Economy, and Key Parameters for MY 1975-2013**

Model Year	Gasoline and Diesel Production (000)	Car Production Share	Adj CO <sub>2</sub> (g/mi)	Adj Fuel Economy (MPG)	Weight (lb)	HP	Footprint (sq ft)	0-to-60 Time (sec)	Interior Volume (cu ft)*
1975	8,247	80.7%	661	13.5	4057	136	-	14.2	-
1976	9,734	78.9%	598	14.9	4059	134	-	14.4	-
1977	11,318	80.1%	570	15.6	3944	133	-	14.0	110
1978	11,191	77.5%	525	16.9	3588	124	-	13.7	109
1979	10,810	77.9%	517	17.2	3485	119	-	13.8	109
1980	9,444	83.5%	446	20.0	3101	100	-	14.3	104
1981	8,734	82.8%	418	21.4	3076	99	-	14.4	106
1982	7,832	80.5%	402	22.2	3053	99	-	14.4	106
1983	8,035	78.0%	403	22.1	3112	104	-	14.0	109
1984	10,730	76.5%	397	22.4	3101	106	-	13.8	108
1985	10,879	75.2%	387	23.0	3096	111	-	13.3	108
1986	11,074	72.1%	375	23.7	3043	111	-	13.2	107
1987	10,826	72.8%	374	23.8	3035	113	-	13.0	107
1988	10,845	70.9%	369	24.1	3051	116	-	12.8	107
1989	10,126	70.1%	376	23.6	3104	121	-	12.4	108
1990	8,875	70.4%	382	23.3	3178	129	-	12.1	107
1991	8,748	69.6%	382	23.3	3168	133	-	11.9	107
1992	8,350	68.6%	389	22.9	3254	141	-	11.5	108
1993	8,929	67.6%	386	23.0	3241	140	-	11.5	108
1994	8,747	61.9%	386	23.0	3268	144	-	11.4	108
1995	9,616	63.5%	382	23.3	3274	153	-	10.9	109
1996	8,177	62.2%	384	23.1	3297	155	-	10.8	109
1997	8,695	60.1%	384	23.2	3285	156	-	10.7	109
1998	8,425	58.3%	386	23.0	3334	160	-	10.6	109
1999	8,865	58.3%	392	22.7	3390	164	-	10.5	109
2000	9,742	58.8%	395	22.5	3401	168	-	10.4	110
2001	9,148	58.6%	393	22.6	3411	169	-	10.3	109
2002	8,904	55.3%	390	22.8	3415	173	-	10.2	110
2003	8,496	53.9%	386	23.0	3437	176	-	10.0	110
2004	8,176	52.0%	389	22.9	3492	184	-	9.8	110
2005	8,839	55.6%	384	23.1	3498	183	-	9.9	111
2006	8,744	57.9%	386	23.0	3563	194	-	9.6	112
2007	9,001	58.9%	375	23.7	3551	191	-	9.6	110
2008	8,243	59.3%	372	23.9	3569	194	45.3	9.6	110
2009	6,244	67.0%	356	25.0	3502	186	45.1	9.8	110
2010	6,969	62.7%	346	25.7	3536	190	45.4	9.6	110
2011	6,934	57.8%	348	25.6	3617	200	46.0	9.5	111
2012	8,648	64.4%	329	27.0	3516	192	45.7	9.6	111
2013	9,257	64.4%	325	27.4	3578	201	45.9	9.4	110

\*Interior volume calculated using Car type only.

**Table 3.3.2****Truck Adjusted CO<sub>2</sub> Emissions, Adjusted Fuel Economy, and Key Parameters for MY 1975-2013**

Model Year	Gasoline and Diesel Production (000)	Truck Production Share	Adj CO <sub>2</sub> (g/mi)	Adj Fuel Economy (MPG)	Weight (lb)	HP	Footprint (sq ft)	0-to-60 Time (sec)
1975	1,977	19.3%	764	11.6	4073	142	-	13.6
1976	2,600	21.1%	726	12.2	4155	141	-	13.8
1977	2,805	19.9%	669	13.3	4136	147	-	13.3
1978	3,257	22.5%	687	12.9	4152	146	-	13.4
1979	3,072	22.1%	711	12.5	4257	138	-	14.3
1980	1,863	16.5%	565	15.8	3869	121	-	14.5
1981	1,821	17.2%	523	17.1	3806	119	-	14.6
1982	1,901	19.5%	516	17.4	3813	120	-	14.5
1983	2,267	22.0%	504	17.7	3773	118	-	14.6
1984	3,289	23.5%	512	17.4	3787	118	-	14.7
1985	3,581	24.8%	509	17.5	3803	124	-	14.1
1986	4,291	27.9%	489	18.2	3741	123	-	14.0
1987	4,039	27.2%	486	18.3	3718	131	-	13.4
1988	4,450	29.1%	498	17.8	3850	141	-	13.0
1989	4,327	29.9%	506	17.6	3932	146	-	12.8
1990	3,740	29.6%	512	17.4	4014	151	-	12.6
1991	3,825	30.4%	500	17.8	3961	150	-	12.5
1992	3,822	31.4%	512	17.3	4078	155	-	12.5
1993	4,281	32.4%	507	17.5	4098	160	-	12.2
1994	5,378	38.1%	518	17.2	4149	166	-	12.0
1995	5,529	36.5%	524	17.0	4201	168	-	12.0
1996	4,967	37.8%	518	17.2	4255	179	-	11.6
1997	5,762	39.9%	528	16.8	4394	189	-	11.4
1998	6,030	41.7%	521	17.1	4317	188	-	11.2
1999	6,350	41.7%	535	16.6	4457	199	-	11.0
2000	6,829	41.2%	528	16.8	4421	199	-	11.0
2001	6,458	41.4%	538	16.5	4543	212	-	10.6
2002	7,211	44.7%	539	16.5	4612	223	-	10.3
2003	7,277	46.1%	533	16.7	4655	224	-	10.4
2004	7,533	48.0%	538	16.5	4783	240	-	10.1
2005	7,053	44.4%	526	16.9	4763	242	-	10.0
2006	6,360	42.1%	518	17.2	4758	240	-	10.0
2007	6,275	41.1%	512	17.4	4871	254	-	9.8
2008	5,656	40.7%	499	17.8	4837	254	54.0	9.7
2009	3,071	33.0%	480	18.5	4753	252	54.0	9.7
2010	4,141	37.3%	474	18.8	4784	253	53.8	9.7
2011	5,069	42.2%	466	19.1	4824	271	54.4	9.2
2012	4,791	35.6%	461	19.3	4809	276	54.5	9.1
2013	5,114	35.6%	452	19.7	4878	282	54.9	9.1

Figure 3.4 includes summary charts showing long-term trends for adjusted CO<sub>2</sub> emissions, adjusted fuel economy, footprint, weight, horsepower, and 0-60 acceleration time for the five vehicle types discussed above. Most of the long-term trends are similar across the various vehicle types, with the major exception being pickups, for which CO<sub>2</sub> emissions and fuel economy have not reached all-time records in recent years (unlike the other vehicle types) due to considerably greater increases in weight and horsepower relative to the other vehicle types.

### Figure 3.4

#### Adjusted CO<sub>2</sub> Emissions, Adjusted Fuel Economy and Other Key Parameters by Vehicle

Type: MY 1975-2013

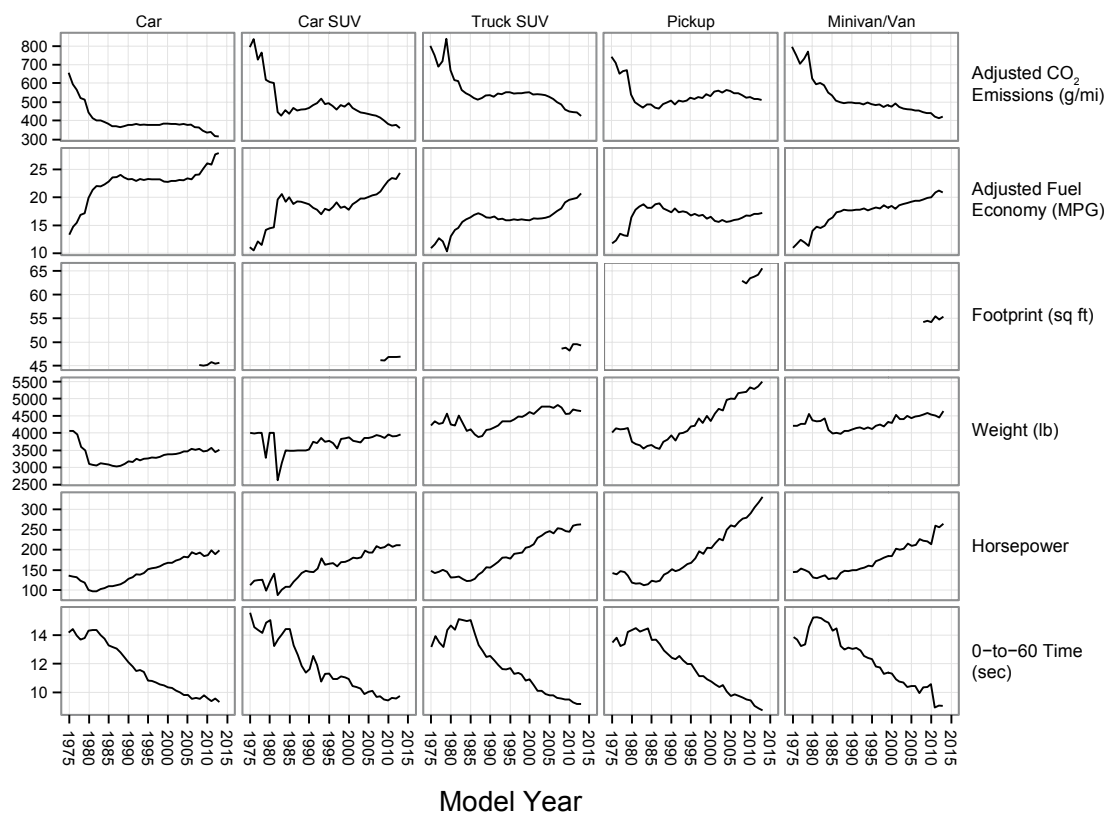
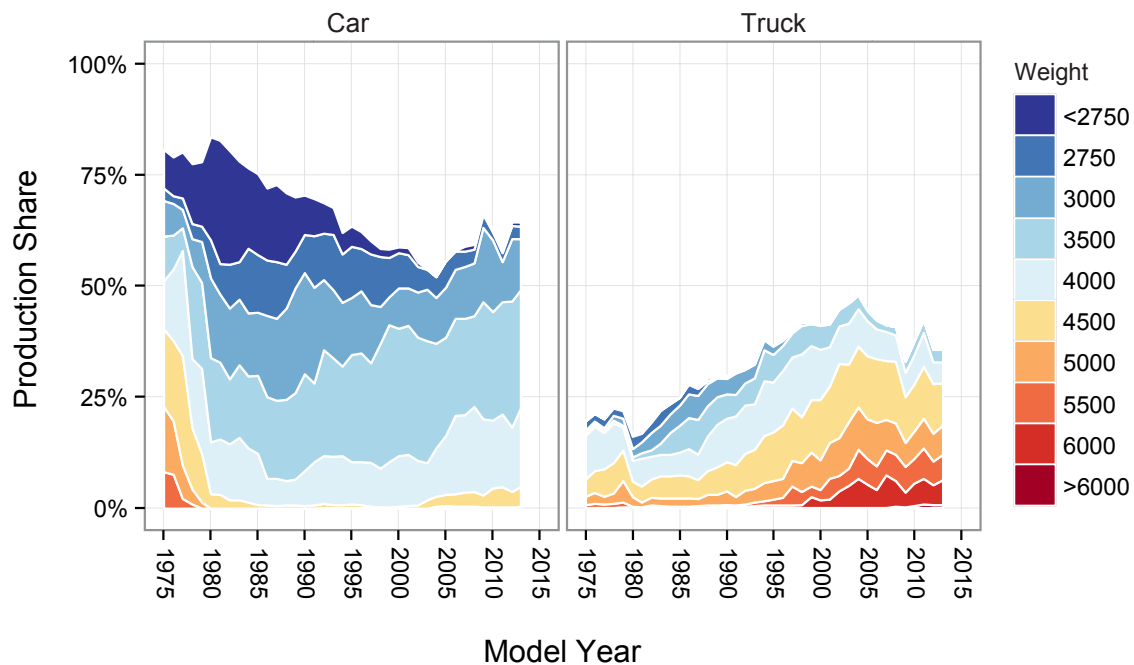


Figure 3.5 shows the annual production share of different inertia weight classes for cars and trucks. This figure again shows the “compression” on the car side that was also discussed with respect to interior volume—in the late 1970s there were significant car sales both in the <2750 pound class as well as in the 5500 pound class (interestingly, there were more 5500 pound cars sold in the late 1970s than there were 5500 pound trucks). Today, both the lightest and heaviest cars have largely disappeared from the market, and over 95% of all cars are in just three inertia weight classes (3000, 3500, and 4000 pounds). Conversely, the heavy end of the truck market has expanded markedly such that 4500 pounds and greater trucks now account for over 80% of the truck market.

**Figure 3.5**

**Car and Truck Production Share by Vehicle Inertia Weight Class**



The final four figures in this section, Figures 3.6 through 3.9, address the engineering relationships between efficiency and four key vehicle attributes: footprint, weight, 0-60 acceleration time, and interior volume (car type only). It is important to emphasize that, in order to best reflect the engineering relationships involved, these figures differ from most of the figures and tables presented so far in three important ways. One, they show fuel consumption (the inverse of fuel economy) rather than fuel economy, because fuel consumption represents a linear relationship while fuel economy is non-linear (i.e., a 1 mpg difference at a lower fuel economy represents a greater change in fuel consumption than a 1 mpg difference at a higher fuel economy). The metric used for fuel consumption is gallons per 100 miles, also shown on new vehicle Fuel Economy and Environment Labels. Fuel consumption is an excellent surrogate for CO<sub>2</sub> emissions, as well. Two, Figures 3.6 through 3.9 show unadjusted, laboratory values (for fuel consumption), rather than the adjusted values shown up to this point, in order to exclude the impact of non-technology factors associated with the adjusted fuel economy values (e.g., changes in driving speeds or use of air conditioning over time). Three, there is no sales weighting in either the calculations of the individual data points or the regression lines as the purpose of these figures is to illustrate the technical relationships between fuel consumption and key vehicle attributes, rather than market success of the attributes. The non-hybrid gasoline, diesel, and gasoline hybrid data points in these figures are averages for each integer footprint value, and are plotted separately to illustrate the differences between these technologies, and the regression lines are based on the non-hybrid gasoline data points only. As would be expected, the

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conventional hybrid and diesel data points almost always reflect lower fuel consumption than the regression line representing non-hybrid gasoline vehicles.

Figure 3.6 shows unadjusted, laboratory fuel consumption as a function of vehicle footprint for the MY 2012 car and truck fleets (a full set of historical footprint data is not available). On average, higher footprint values are correlated with greater fuel consumption. Car fuel consumption is more sensitive to footprint (i.e., greater slope for the regression line based on conventional gasoline vehicles) than truck fuel consumption, though this relationship may be exaggerated somewhat by the fact that the very high footprint cars are extremely low-volume luxury cars with very high fuel consumption. Most cars have footprint values below 50 square feet, and at these footprint levels, the average car has lower fuel consumption than the average truck. For the much smaller number of cars that have footprint values greater than 55 square feet (typically performance or luxury cars), these cars generally have higher fuel consumption than trucks of the same footprint.

**Figure 3.6**

**Unadjusted, Laboratory Fuel Consumption vs. Footprint: Cars and Trucks, MY 2012**

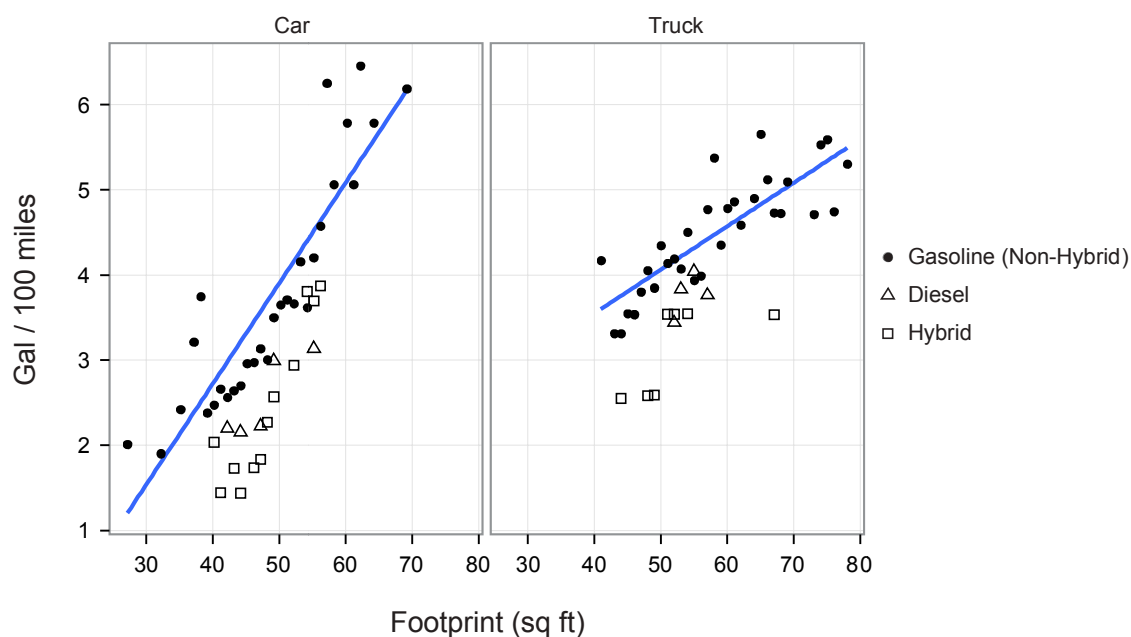


Figure 3.7 shows unadjusted, laboratory fuel consumption as a function of vehicle inertia weight for the MY 1975 and MY 2012 car and truck fleets. On average, fuel consumption increases linearly with vehicle weight, and the regressions are particularly tight for the data points representing non-hybrid gasoline vehicles. In 1975, trucks consistently had higher fuel consumption than cars for a given weight, but in 2012, the differences were much smaller, and at 5000 pounds and above, the average car had higher fuel consumption than the average truck, again likely due to the fact that very heavy cars are typically luxury and/or performance vehicles with high fuel consumption. At a given weight, most cars and trucks have reduced their fuel consumption by about 50% since 1975, with the major exception being the heaviest cars which have achieved more modest reductions in fuel consumption.

### Figure 3.7

*Unadjusted, Laboratory Fuel Consumption vs. Inertia Weight: Cars and Trucks: MY 1975 and 2012*

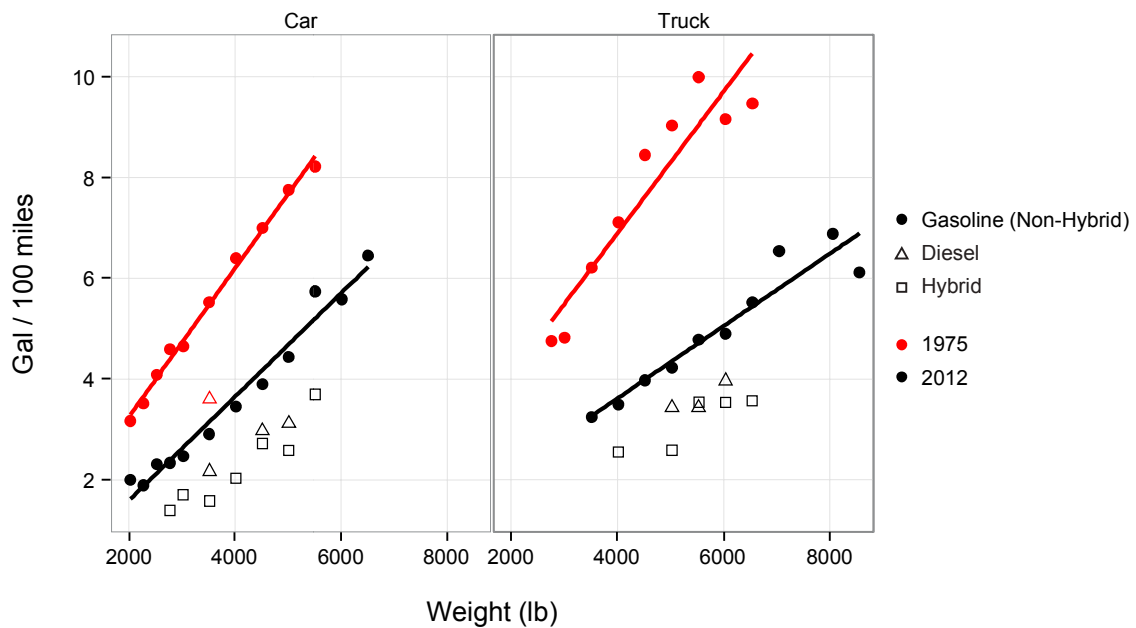
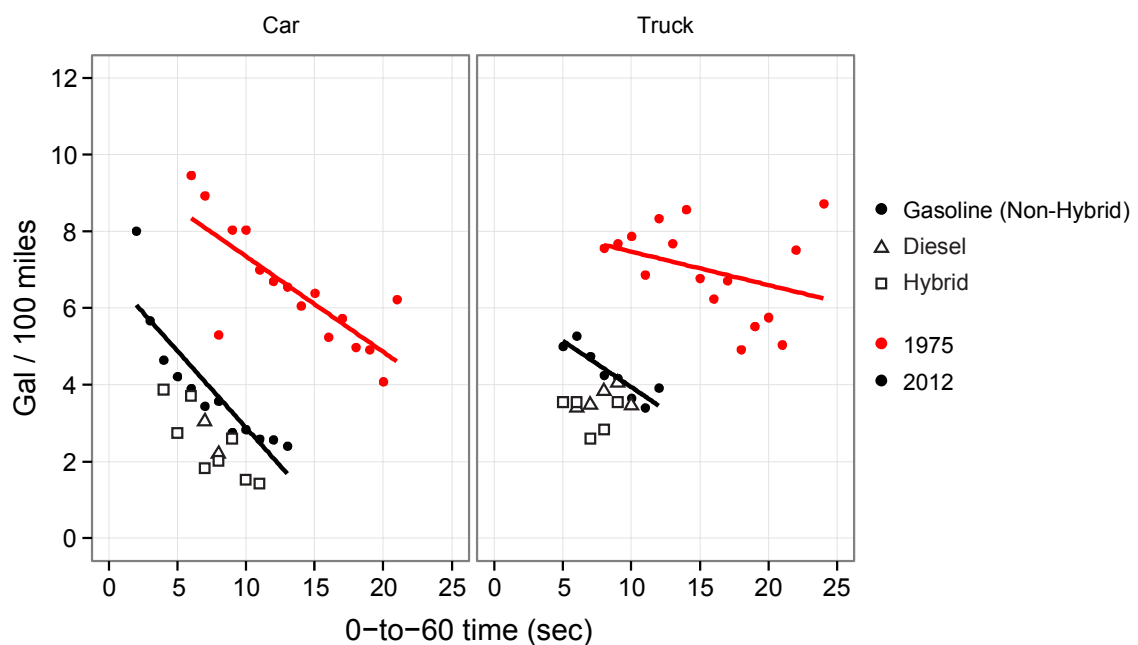


Figure 3.8 shows unadjusted, laboratory fuel consumption as a function of 0-60 mph acceleration time for the MY 1975 and 2012 car and truck fleets. Lower acceleration times are correlated with greater fuel consumption, and this relationship has strengthened over time. The regressions are much tighter for the 2012 data than for the 1975 data. While the slopes of the car and truck regression lines were considerably different in MY 1975, they are much more similar today. The range of acceleration times has also diminished: there were cars and trucks in MY 1975 with 0-60 acceleration times in the 15-25 second range, while today there are no vehicles with 0-60 times greater than 12-13 seconds.

### Figure 3.8

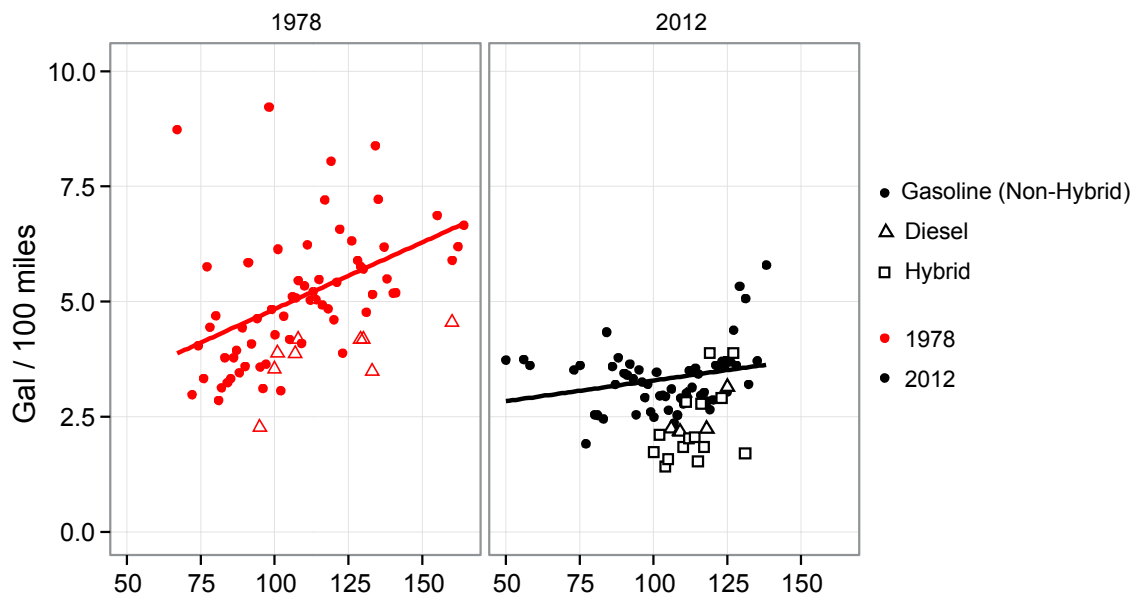
*Unadjusted, Laboratory Fuel Consumption vs. 0-60 Acceleration Time: Cars and Trucks, MY 1975 and 2012*



Finally, Figure 3.9 shows unadjusted, laboratory fuel consumption as a function of interior volume for MY 1978 and 2012 for the car type only. This figure excludes two-seater cars, as interior volume data is not reported for two-seaters. The data for MY 1978 is much more scattered than that for MY 2012. The slope of the regression line for non-hybrid gasoline vehicles in 2012 is nearly flat, suggesting that there is no longer much of a relationship between interior volume and fuel consumption within the car type. This MY 2012 data further confirm the point made in Section 3.B that interior volume is no longer a good attribute for differentiating within the car type.

**Figure 3.9**

*Unadjusted, Laboratory Fuel Consumption vs. Car Interior Volume: Cars, MY 1978 and 2012*



## 4 Manufacturers and Makes

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This section groups vehicles by “manufacturer” and “make.” Manufacturer definitions are those used by both EPA and the National Highway Traffic Safety Administration (NHTSA) for purposes of implementation of GHG emissions standards and the corporate average fuel economy (CAFE) program, respectively. Each year, the authors ensure that the manufacturer definitions in the Trends database are consistent with those used for regulatory compliance.

Most of the tables in this section, consistent with the rest of the report, show adjusted CO<sub>2</sub> emissions and fuel economy data which are the best estimates for real world CO<sub>2</sub> emissions and fuel economy performance, but are not comparable to regulatory compliance values. Two tables in this section show unadjusted, laboratory fuel economy and CO<sub>2</sub> emissions values, which form the basis for regulatory compliance values, though they do not reflect various compliance credits, incentives, and flexibilities available to automakers. Adjusted CO<sub>2</sub> values are, on average, about 25% higher than the unadjusted CO<sub>2</sub> values that form the starting point for GHG standards compliance, and adjusted fuel economy values are about 20% lower, on average, than unadjusted fuel economy values (note that these values differ because CO<sub>2</sub> emissions are proportional to fuel consumption, both expressed in units of “per mile,” while fuel economy is the mathematical inverse of fuel consumption).

In early 2014, EPA intends to publish a separate, annual GHG Report at [epa.gov/otaq/regs/ld-hwy/greenhouse/ld-ghg.htm](http://epa.gov/otaq/regs/ld-hwy/greenhouse/ld-ghg.htm) that will summarize individual manufacturer compliance with the MY 2012 GHG emissions standards. The Department of Transportation’s National Highway Traffic Safety Administration (NHTSA, at [nhtsa.dot.gov/fuel-economy](http://nhtsa.dot.gov/fuel-economy)) also publishes a separate document entitled “Summary of Fuel Economy Performance” and will update this document after receiving final CAFE compliance data from EPA for all manufacturers.

### A. MANUFACTURER AND MAKE DEFINITIONS

Table 4.1 lists the 13 manufacturers which had production of 100,000 or more gasoline and/or diesel vehicles in MY 2011 and/or MY 2012, which together accounted for approximately 98% of total industry-wide production. There are no changes in the list of manufacturers in Table 4.1 included in this year’s report. Make is typically included in the model name and is generally equivalent to the “brand” of the vehicle. Table 4.1 also lists the 29 makes for which data are shown in subsequent tables. The production threshold for makes to be included in Tables 4.2 through 4.5 is 40,000 vehicles in MY 2012, 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 these tables also provide data for MY 2011.

**Table 4.1****Manufacturers and Makes for MY 2011-2013**

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-Fiat	Chrysler, Dodge, Jeep, Ram, Fiat	Ferrari, Maserati
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, and Tesla (which only produces EVs).

It is important to note that when a manufacturer or make grouping is modified to reflect a change in the industry's current financial structure, EPA makes the same adjustment to the entire historical database. This maintains consistent manufacturer and make definitions over time, which allows a better identification of long-term trends. On the other hand, this means that the current database does not necessarily reflect the actual corporate arrangements of the past. For example, the 2013 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 the entire database even though these other companies have been financially connected to Chrysler only recently.

Automakers submit vehicle production data, rather than vehicle sales data, in formal end-of-year CAFE and GHG emissions compliance reports to EPA. These vehicle production data are tabulated on a model year basis. Accordingly, the vehicle production data presented in this report often differ from similar data reported by press sources, which typically are based on vehicle sales data reported on a calendar 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 introduced with a new model year designation in the spring or summer, 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 the overall trends even out over a multi-year period.

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## B. MANUFACTURER AND MAKE TRENDS

Tables 4.2 through 4.5 provide comparative manufacturer- and make-specific data for fuel economy and CO<sub>2</sub> emissions for the three years from MY 2011-2013. Data are shown for cars only, trucks only, and cars and trucks combined. By including data from both MY 2011 and 2012, 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 preliminary MY 2013 projections, changes from MY 2012 to MY 2013 are less meaningful.

For the first time in this report, tables are presented with both adjusted (Tables 4.2 and 4.3) and unadjusted, laboratory (Tables 4.4 and 4.5) data. Tables 4.2 and 4.3 provide adjusted data for fuel economy and CO<sub>2</sub> emissions, and therefore are consistent with tables presented earlier in the report. The data in these tables are very similar to the data used to generate the EPA/DOT Fuel Economy and Environment Labels and represent EPA's best estimate of nationwide real world fuel consumption and CO<sub>2</sub> emissions.

It is important to note that Tables 4.2 and 4.3 show rows with adjusted fuel economy and CO<sub>2</sub> emissions data for 11 manufacturers and 27 makes, while the table footnotes provide similar data for two additional manufacturers, Hyundai and Kia. On November 2, 2012, EPA announced that Hyundai and Kia would lower their Fuel Economy and Environment Label 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 CO<sub>2</sub> emissions data to EPA and re-labeled many of their model year 2012 and 2013 vehicles on the market. This report uses the corrected fuel economy values submitted by Hyundai and Kia for four MY 2011 vehicles and for many of Hyundai and Kia vehicles for MY 2012 and 2013. The magnitude of the changes between the original label values and the corrected label values ranges from 1 mpg to 6 mpg. For the changes in the label values for individual vehicles, see [epa.gov/fueleconomy/labelchange.htm](http://epa.gov/fueleconomy/labelchange.htm). Since EPA's investigation into Hyundai and Kia data submissions is continuing, Hyundai and Kia-specific values are not shown in rows in the following tables that list the fuel economy and CO<sub>2</sub> emissions performance for various manufacturers, but are provided in footnotes to the tables with adjusted fuel economy and CO<sub>2</sub> emissions. Hyundai and Kia data are included in industry-wide values, including the "All" rows in the following tables, throughout this report.

Of the 11 manufacturers shown in the body of Table 4.2, 10 manufacturers increased adjusted fuel economy from MY 2011 to MY 2012, and Mazda had the highest adjusted fuel economy in MY 2012 of 27.1 mpg. Honda had the second highest adjusted fuel economy of 26.6 mpg, followed by Volkswagen at 25.8 mpg. Chrysler-Fiat had the lowest adjusted fuel economy of 20.1 mpg, followed by Daimler and General Motors. Honda achieved the largest increase in adjusted fuel economy from MY 2011-2012 of 2.5 mpg, followed by Mazda at 2.1 mpg and Daimler at 2.0 mpg.

**Table 4.2**

**Adjusted Fuel Economy (MPG) by Manufacturer and Make for MY 2011-2013**

Manufacturer	Make	MY 2011			MY 2012			MY 2013		
		Cars	Trucks	Cars and Trucks	Cars	Trucks	Cars and Trucks	Cars	Trucks	Cars and Trucks
<b>Mazda</b>	<b>All</b>	<b>26.3</b>	<b>19.6</b>	<b>25.0</b>	<b>29.3</b>	<b>21.9</b>	<b>27.1</b>	<b>29.2</b>	<b>23.6</b>	<b>27.5</b>
Honda	Honda	28.3	21.4	24.5	29.9	22.8	27.2	30.5	23.0	27.5
Honda	Acura	23.8	18.6	20.5	24.5	18.4	21.8	26.3	19.6	23.8
<b>Honda</b>	<b>All</b>	<b>27.9</b>	<b>21.1</b>	<b>24.1</b>	<b>29.3</b>	<b>22.2</b>	<b>26.6</b>	<b>29.9</b>	<b>22.6</b>	<b>27.0</b>
VW	VW	28.9	22.1	27.7	27.2	22.8	26.9	27.9	23.1	27.5
VW	Audi	24.1	21.4	23.2	24.0	21.5	23.1	23.7	22.7	23.4
<b>VW</b>	<b>All</b>	<b>27.3</b>	<b>21.7</b>	<b>26.0</b>	<b>26.4</b>	<b>21.9</b>	<b>25.8</b>	<b>26.8</b>	<b>22.9</b>	<b>26.2</b>
Toyota	Toyota	28.9	19.8	24.2	31.8	19.7	25.7	32.7	19.3	25.5
Toyota	Lexus	23.6	20.3	22.4	24.8	20.7	23.5	24.8	21.0	23.5
Toyota	Scion	26.1	-	26.1	27.2	-	27.2	27.3	-	27.3
<b>Toyota</b>	<b>All</b>	<b>28.1</b>	<b>19.8</b>	<b>24.1</b>	<b>30.7</b>	<b>19.7</b>	<b>25.6</b>	<b>30.3</b>	<b>19.6</b>	<b>25.2</b>
<b>Subaru</b>	<b>All</b>	<b>23.9</b>	<b>23.9</b>	<b>23.9</b>	<b>27.5</b>	<b>24.0</b>	<b>25.2</b>	<b>28.4</b>	<b>25.0</b>	<b>26.2</b>
Nissan	Nissan	26.8	19.1	23.7	27.5	18.9	24.5	29.6	20.9	25.9
Nissan	Infiniti	21.7	17.0	20.4	21.9	17.0	20.5	21.7	18.9	20.7
<b>Nissan</b>	<b>All</b>	<b>26.1</b>	<b>19.0</b>	<b>23.3</b>	<b>26.9</b>	<b>18.8</b>	<b>24.1</b>	<b>28.5</b>	<b>20.7</b>	<b>25.3</b>
BMW	BMW	22.4	20.3	21.9	23.3	20.1	22.0	24.8	20.2	23.2
BMW	Mini	30.3	-	30.3	29.9	-	29.9	29.6	-	29.6
<b>BMW</b>	<b>All</b>	<b>23.3</b>	<b>20.3</b>	<b>22.7</b>	<b>25.3</b>	<b>20.1</b>	<b>23.7</b>	<b>26.0</b>	<b>20.2</b>	<b>24.4</b>
Ford	Ford	25.2	18.4	21.1	27.2	18.5	22.9	27.6	19.2	22.6
Ford	Lincoln	22.0	17.7	18.9	22.6	17.6	20.9	24.4	19.6	21.9
Ford	Mercury	21.5	21.1	21.4	-	-	-	-	-	-
<b>Ford</b>	<b>All</b>	<b>24.8</b>	<b>18.4</b>	<b>21.1</b>	<b>26.9</b>	<b>18.5</b>	<b>22.8</b>	<b>27.4</b>	<b>19.2</b>	<b>22.6</b>
GM	Chevrolet	24.9	17.8	21.3	25.7	18.0	22.4	26.5	17.7	22.6
GM	GMC	23.6	17.7	18.7	23.7	18.0	19.3	24.2	17.8	19.3
GM	Buick	22.4	19.2	21.2	24.0	19.6	22.1	24.8	20.4	23.8
GM	Cadillac	20.5	15.6	19.5	20.5	15.5	19.6	21.8	17.6	21.0
<b>GM</b>	<b>All</b>	<b>24.0</b>	<b>17.8</b>	<b>20.7</b>	<b>24.8</b>	<b>18.1</b>	<b>21.7</b>	<b>25.6</b>	<b>17.9</b>	<b>22.0</b>
Daimler	Mercedes-Benz	20.1	16.9	19.0	22.4	18.4	20.9	23.4	19.3	22.1
Daimler	Smart	36.5	-	36.5	35.7	-	35.7	36.5	-	36.5
<b>Daimler</b>	<b>All</b>	<b>20.2</b>	<b>16.9</b>	<b>19.1</b>	<b>22.6</b>	<b>18.4</b>	<b>21.1</b>	<b>23.6</b>	<b>19.3</b>	<b>22.2</b>
Chrysler-Fiat	Jeep	-	19.1	19.1	22.2	18.7	19.2	24.7	19.1	19.5
Chrysler-Fiat	Dodge	22.8	19.3	20.6	22.7	20.2	21.4	24.9	20.0	23.0
Chrysler-Fiat	Chrysler	23.0	20.8	21.9	23.8	20.9	22.6	23.4	20.6	22.2
Chrysler-Fiat	Ram	-	16.0	16.0	-	16.1	16.1	-	17.4	17.4
Chrysler-Fiat	Fiat	-	-	-	31.5	-	31.5	31.6	-	31.6
<b>Chrysler-Fiat</b>	<b>All</b>	<b>22.7</b>	<b>18.6</b>	<b>19.4</b>	<b>23.7</b>	<b>18.6</b>	<b>20.1</b>	<b>24.7</b>	<b>19.2</b>	<b>21.6</b>
<b>Other</b>	<b>All</b>	<b>23.8</b>	<b>18.0</b>	<b>21.0</b>	<b>23.9</b>	<b>18.5</b>	<b>21.6</b>	<b>22.9</b>	<b>19.1</b>	<b>21.2</b>
<b>All</b>	<b>All</b>	<b>25.6</b>	<b>19.1</b>	<b>22.4</b>	<b>27.0</b>	<b>19.3</b>	<b>23.6</b>	<b>27.4</b>	<b>19.7</b>	<b>24.0</b>

\*Note: Two manufacturers, Hyundai and Kia, are not included in rows 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 and MY 2013. Based on these corrected data, Hyundai's 2011 Cars and Trucks value is 27.2 mpg, Hyundai's 2012 Cars and Trucks value is 28.3 mpg, and Hyundai's preliminary 2013 Cars and Trucks value is 28.3 mpg, Kia's 2011 Cars and Trucks value is 25.8 mpg, Kia's 2012 Cars and Truck values is 26.5 mpg, and Kia's preliminary 2013 Car and truck value is 27.3 mpg. These corrected data are included in industry-wide or "All" values.

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For MY 2012 cars only, of the 11 manufacturers shown in Table 4.2, Toyota achieved the highest adjusted fuel economy of 30.7 mpg, while Daimler reported the lowest adjusted car fuel economy of 22.6 mpg. For MY 2012 trucks only, Subaru had the highest adjusted fuel economy of 24.0 mpg, while General Motors had the lowest at 18.1 mpg.

In terms of the makes shown in Table 4.2 for MY 2012, the Smart make had the highest adjusted fuel economy at 35.7 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 adjusted fuel economy in MY 2012 was Fiat, which also produces a relatively low number of small cars, at 31.5 mpg. Of the makes with higher production, for the 11 manufacturers shown, Honda had the highest adjusted fuel economy at 27.2 mpg.

Preliminary projections suggest that 9 of the 11 manufacturers shown will improve adjusted fuel economy further in MY 2013, though EPA will not have final data for MY 2013 until next year's report.

Table 4.3 shows manufacturer-specific values for adjusted CO<sub>2</sub> emissions for the same manufacturers, makes and model years as shown in Table 4.2 for adjusted fuel economy. Of the 11 manufacturers shown, 10 manufacturers decreased adjusted fuel CO<sub>2</sub> emissions from MY 2011 to MY 2012. Manufacturer rankings for CO<sub>2</sub> emissions are generally similar to those for fuel economy, though there can be some differences due to diesel vehicle production share (since diesel has a higher carbon content per gallon than gasoline). Table 4.3 shows that Mazda had the lowest adjusted CO<sub>2</sub> emissions in MY 2012 of 328 g/mi, followed by Honda at 334 g/mi and Toyota at 347 g/mi. Chrysler-Fiat had the highest adjusted CO<sub>2</sub> emissions of 442 g/mi, followed by Daimler and General Motors. Daimler achieved the largest decrease in adjusted CO<sub>2</sub> emissions from MY 2011-2012 of 43 g/mi, followed by Honda at 35 g/mi and Ford at 32 g/mi. Preliminary values suggest that 9 manufacturers will likely improve in MY 2013. The make rankings for adjusted CO<sub>2</sub> emissions in Table 4.3 are also similar to those for adjusted fuel economy in Table 4.2.

**Table 4.3**

**Adjusted CO<sub>2</sub> Emissions (g/mi) by Manufacturer and Make for MY 2011-2013**

Manufacturer	Make	Final MY 2011			Final MY 2012			Preliminary MY 2013		
		Cars	Trucks	Cars and Trucks	Cars	Trucks	Cars and Trucks	Cars	Trucks	Cars and Trucks
<b>Mazda</b>	<b>All</b>	<b>338</b>	<b>453</b>	<b>356</b>	<b>304</b>	<b>406</b>	<b>328</b>	<b>305</b>	<b>376</b>	<b>324</b>
Honda	Honda	315	415	363	298	390	327	291	386	323
Honda	Acura	373	478	434	362	482	407	337	452	373
<b>Honda</b>	<b>All</b>	<b>319</b>	<b>422</b>	<b>369</b>	<b>303</b>	<b>400</b>	<b>334</b>	<b>297</b>	<b>394</b>	<b>329</b>
Toyota	Toyota	308	450	366	280	452	345	272	459	349
Toyota	Lexus	377	437	397	358	429	378	359	423	378
Toyota	Scion	340	-	340	326	-	326	326	-	326
<b>Toyota</b>	<b>All</b>	<b>317</b>	<b>449</b>	<b>369</b>	<b>290</b>	<b>450</b>	<b>347</b>	<b>293</b>	<b>454</b>	<b>352</b>
VW	VW	318	407	330	334	405	338	327	400	332
VW	Audi	371	423	387	372	419	388	376	392	381
<b>VW</b>	<b>All</b>	<b>333</b>	<b>415</b>	<b>349</b>	<b>343</b>	<b>414</b>	<b>351</b>	<b>339</b>	<b>394</b>	<b>346</b>
<b>Subaru</b>	<b>All</b>	<b>372</b>	<b>371</b>	<b>372</b>	<b>323</b>	<b>371</b>	<b>352</b>	<b>313</b>	<b>356</b>	<b>339</b>
Nissan	Nissan	331	464	374	323	470	363	300	424	343
Nissan	Infiniti	409	522	436	406	524	434	409	469	429
<b>Nissan</b>	<b>All</b>	<b>340</b>	<b>469</b>	<b>381</b>	<b>330</b>	<b>474</b>	<b>369</b>	<b>312</b>	<b>429</b>	<b>351</b>
BMW	BMW	398	447	408	382	452	407	358	440	383
BMW	Mini	293	-	293	297	-	297	300	-	300
<b>BMW</b>	<b>All</b>	<b>383</b>	<b>447</b>	<b>393</b>	<b>352</b>	<b>452</b>	<b>377</b>	<b>342</b>	<b>440</b>	<b>364</b>
Ford	Ford	352	484	421	327	479	389	322	463	393
Ford	Lincoln	404	503	471	393	505	425	365	454	406
Ford	Mercury	414	422	414	-	-	-	-	-	-
<b>Ford</b>	<b>All</b>	<b>359</b>	<b>484</b>	<b>422</b>	<b>330</b>	<b>480</b>	<b>390</b>	<b>324</b>	<b>463</b>	<b>394</b>
GM	Chevrolet	357	501	417	346	494	396	335	501	394
GM	GMC	377	503	475	375	493	461	367	498	460
GM	Buick	397	463	419	371	454	401	358	436	373
GM	Cadillac	433	570	456	434	574	453	407	505	423
<b>GM</b>	<b>All</b>	<b>371</b>	<b>501</b>	<b>429</b>	<b>358</b>	<b>492</b>	<b>410</b>	<b>348</b>	<b>498</b>	<b>404</b>
Daimler	Mercedes-Benz	444	533	472	398	495	430	380	467	405
Daimler	Smart	243	-	243	249	-	249	244	-	244
<b>Daimler</b>	<b>All</b>	<b>440</b>	<b>533</b>	<b>469</b>	<b>394</b>	<b>495</b>	<b>426</b>	<b>377</b>	<b>467</b>	<b>402</b>
Chrysler-Fiat	Jeep	-	465	465	401	474	463	359	466	456
Chrysler-Fiat	Dodge	391	460	431	392	439	416	357	444	386
Chrysler-Fiat	Chrysler	386	428	405	373	425	393	379	432	400
Chrysler-Fiat	Ram	-	554	554	-	553	553	-	510	510
Chrysler-Fiat	Fiat	-	-	-	282	-	282	282	-	282
<b>Chrysler-Fiat</b>	<b>All</b>	<b>392</b>	<b>477</b>	<b>458</b>	<b>376</b>	<b>478</b>	<b>442</b>	<b>359</b>	<b>462</b>	<b>411</b>
<b>Other</b>	<b>All</b>	<b>373</b>	<b>493</b>	<b>423</b>	<b>372</b>	<b>480</b>	<b>412</b>	<b>389</b>	<b>468</b>	<b>419</b>
<b>All</b>	<b>All</b>	<b>348</b>	<b>466</b>	<b>398</b>	<b>329</b>	<b>461</b>	<b>376</b>	<b>325</b>	<b>452</b>	<b>370</b>

\*Note: Two manufacturers, Hyundai and Kia, are not included in rows 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 and MY 2013. Based on these corrected data, Hyundai's 2011 Cars and Trucks value is 327 g/mi CO<sub>2</sub>, Hyundai's 2012 Cars and Trucks value is 314 g/mi CO<sub>2</sub>, and Hyundai's preliminary 2013 Cars and Trucks value is 315 g/mi CO<sub>2</sub>, Kia's 2011 Cars and Trucks value is 345 g/mi CO<sub>2</sub>, Kia's 2012 Cars and Truck values is 336 g/mi CO<sub>2</sub>, and Kia's preliminary 2013 Car and truck value is 326 g/mi CO<sub>2</sub>. These corrected data are included in industry-wide or "All" values.

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Tables 4.4 and 4.5 provide unadjusted, laboratory data for both fuel economy and CO<sub>2</sub> emissions on a manufacturer-specific basis. Unadjusted, laboratory data is relevant in a manufacturer-specific context because it is the foundation for EPA CO<sub>2</sub> emissions and NHTSA CAFE regulatory compliance, and because it provides a basis for comparing long-term trends from the perspective of vehicle design only, apart from the factors that affect real world performance that can change over time (i.e., driving behavior such as acceleration rates or the use of air conditioning). Note that EPA has not released corrected unadjusted, laboratory values for some Hyundai and Kia models for MY 2011-2013.

In general, manufacturer rankings based on the unadjusted, laboratory values in Tables 4.4 and 4.5 are very similar to those for the adjusted values in Tables 4.2 and 4.3. On average, in recent years, unadjusted, laboratory fuel economy values are about 25% greater than adjusted fuel economy values (slightly greater at higher absolute mpg levels), and average unadjusted, laboratory CO<sub>2</sub> emissions values are about 20% less than adjusted CO<sub>2</sub> emissions (slightly greater at lower CO<sub>2</sub> emissions levels).

**Table 4.4**

*Unadjusted, Laboratory Fuel Economy (MPG) by Manufacturer and Make for MY 2011–2013*

Manufacturer	Make	Final MY 2011			Final MY 2012			Preliminary MY 2013		
		Cars	Trucks	Cars and Trucks	Cars	Trucks	Cars and Trucks	Cars	Trucks	Cars and Trucks
<b>Mazda</b>	<b>All</b>	<b>33.4</b>	<b>24.6</b>	<b>31.7</b>	<b>37.4</b>	<b>27.8</b>	<b>34.6</b>	<b>37.4</b>	<b>30.2</b>	<b>35.2</b>
Honda	Honda	35.9	26.9	30.9	38.1	28.6	34.5	39.3	28.9	35.1
Honda	Acura	29.9	23.4	25.7	30.9	23.3	27.5	33.3	24.7	30.1
<b>Honda</b>	<b>All</b>	<b>35.4</b>	<b>26.4</b>	<b>30.4</b>	<b>37.3</b>	<b>27.8</b>	<b>33.6</b>	<b>38.4</b>	<b>28.3</b>	<b>34.3</b>
Toyota	Toyota	37.0	24.9	30.8	41.4	24.8	33.0	43.0	24.4	32.8
Toyota	Lexus	29.7	25.6	28.3	31.5	26.1	29.8	31.5	26.6	29.8
Toyota	Scion	33.5	-	33.5	35.2	-	35.2	35.1	-	35.1
<b>Toyota</b>	<b>All</b>	<b>35.9</b>	<b>24.9</b>	<b>30.6</b>	<b>39.8</b>	<b>24.9</b>	<b>32.8</b>	<b>39.4</b>	<b>24.7</b>	<b>32.3</b>
VW	VW	35.4	27.7	34.1	34.2	28.9	33.9	34.4	27.1	33.9
VW	Audi	29.7	26.6	28.7	29.5	26.7	28.5	29.2	28.4	28.9
<b>VW</b>	<b>All</b>	<b>33.5</b>	<b>27.1</b>	<b>32.1</b>	<b>33.0</b>	<b>27.4</b>	<b>32.3</b>	<b>33.0</b>	<b>28.0</b>	<b>32.3</b>
<b>Subaru</b>	<b>All</b>	<b>30.2</b>	<b>30.4</b>	<b>30.4</b>	<b>35.2</b>	<b>30.5</b>	<b>32.2</b>	<b>36.4</b>	<b>31.9</b>	<b>33.6</b>
Nissan	Nissan	34.4	24.0	30.1	35.3	23.7	31.1	38.9	26.5	33.5
Nissan	Infiniti	27.1	21.0	25.4	27.4	20.9	25.5	27.2	23.7	25.9
<b>Nissan</b>	<b>All</b>	<b>33.3</b>	<b>23.8</b>	<b>29.6</b>	<b>34.4</b>	<b>23.5</b>	<b>30.5</b>	<b>37.2</b>	<b>26.2</b>	<b>32.6</b>
BMW	BMW	27.8	25.3	27.3	29.4	25.0	27.7	31.2	25.1	29.1
BMW	Mini	39.3	-	39.3	38.7	-	38.7	38.3	-	38.3
<b>BMW</b>	<b>All</b>	<b>29.1</b>	<b>25.3</b>	<b>28.4</b>	<b>32.2</b>	<b>25.0</b>	<b>30.0</b>	<b>32.9</b>	<b>25.1</b>	<b>30.8</b>
Ford	Ford	31.8	23.0	26.5	34.5	23.2	28.8	34.9	24.0	28.4
Ford	Lincoln	27.6	22.0	23.6	28.4	21.9	26.1	30.6	24.4	27.4
Ford	Mercury	26.7	26.8	26.7	-	-	-	-	-	-
<b>Ford</b>	<b>All</b>	<b>31.2</b>	<b>23.0</b>	<b>26.5</b>	<b>34.1</b>	<b>23.1</b>	<b>28.7</b>	<b>34.7</b>	<b>24.0</b>	<b>28.3</b>
GM	Chevrolet	31.0	22.0	26.5	32.2	22.3	28.0	33.4	21.7	28.1
GM	GMC	29.6	22.0	23.3	29.8	22.4	24.1	30.9	21.4	23.6
GM	Buick	27.6	23.8	26.2	29.7	24.5	27.5	31.1	25.6	29.9
GM	Cadillac	25.5	19.9	24.3	25.4	20.1	24.6	27.1	20.2	25.7
<b>GM</b>	<b>All</b>	<b>29.8</b>	<b>22.0</b>	<b>25.7</b>	<b>31.1</b>	<b>22.4</b>	<b>27.0</b>	<b>32.1</b>	<b>21.7</b>	<b>27.3</b>
Daimler	Mercedes-Benz	24.9	21.1	23.6	27.8	23.1	26.1	29.2	24.3	27.7
Daimler	Smart	48.7	-	48.7	49.5	-	49.5	50.3	-	50.3
<b>Daimler</b>	<b>All</b>	<b>25.1</b>	<b>21.1</b>	<b>23.7</b>	<b>28.2</b>	<b>23.1</b>	<b>26.3</b>	<b>29.6</b>	<b>24.3</b>	<b>27.9</b>
Chrysler-Fiat	Jeep	-	23.9	23.9	28.2	23.5	24.1	31.7	24.0	24.5
Chrysler-Fiat	Dodge	28.4	24.0	25.7	28.1	25.1	26.5	31.2	24.8	28.7
Chrysler-Fiat	Chrysler	28.4	25.7	27.1	29.5	25.9	28.0	29.0	25.4	27.5
Chrysler-Fiat	Ram	-	19.8	19.8	-	19.8	19.8	-	21.6	21.6
Chrysler-Fiat	Fiat	-	-	-	41.1	-	41.1	41.2	-	41.2
<b>Chrysler-Fiat</b>	<b>All</b>	<b>28.2</b>	<b>23.2</b>	<b>24.2</b>	<b>29.6</b>	<b>23.1</b>	<b>25.0</b>	<b>31.0</b>	<b>23.9</b>	<b>27.0</b>
<b>Other</b>	<b>All</b>	<b>29.9</b>	<b>22.4</b>	<b>26.3</b>	<b>30.1</b>	<b>23.1</b>	<b>27.0</b>	<b>28.8</b>	<b>23.9</b>	<b>26.7</b>
<b>All</b>	<b>All</b>	<b>32.3</b>	<b>23.9</b>	<b>28.1</b>	<b>34.3</b>	<b>24.1</b>	<b>29.8</b>	<b>34.8</b>	<b>24.5</b>	<b>30.3</b>

\*Note: Two manufacturers, Hyundai and Kia, are not included in rows 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 unadjusted, laboratory values for Hyundai and Kia.

**Table 4.5**

*Unadjusted, Laboratory CO<sub>2</sub> Emissions (g/mi) by Manufacturer and Make for MY 2011-2013*

Manufacturer	Make	Final MY 2011			Final MY 2012			Preliminary MY 2013		
		Cars	Trucks	Cars and Trucks	Cars	Trucks	Cars and Trucks	Cars	Trucks	Cars and Trucks
<b>Mazda</b>	<b>All</b>	<b>266</b>	<b>361</b>	<b>281</b>	<b>238</b>	<b>319</b>	<b>257</b>	<b>238</b>	<b>294</b>	<b>253</b>
Honda	Honda	247	331	287	233	311	258	226	308	254
Honda	Acura	297	380	345	288	382	323	266	360	296
<b>Honda</b>	<b>All</b>	<b>251</b>	<b>336</b>	<b>293</b>	<b>238</b>	<b>319</b>	<b>264</b>	<b>231</b>	<b>314</b>	<b>259</b>
Toyota	Toyota	240	357	289	215	358	269	207	364	271
Toyota	Lexus	299	347	314	282	340	299	282	335	298
Toyota	Scion	266	-	266	252	-	252	253	-	253
<b>Toyota</b>	<b>All</b>	<b>248</b>	<b>357</b>	<b>291</b>	<b>223</b>	<b>357</b>	<b>271</b>	<b>226</b>	<b>360</b>	<b>275</b>
<b>Subaru</b>	<b>All</b>	<b>294</b>	<b>292</b>	<b>293</b>	<b>252</b>	<b>292</b>	<b>276</b>	<b>244</b>	<b>278</b>	<b>265</b>
VW	VW	258	324	268	266	319	268	265	343	270
VW	Audi	300	340	313	303	337	314	305	313	308
<b>VW</b>	<b>All</b>	<b>271</b>	<b>332</b>	<b>283</b>	<b>274</b>	<b>331</b>	<b>280</b>	<b>275</b>	<b>324</b>	<b>281</b>
Nissan	Nissan	258	370	295	252	375	286	232	335	267
Nissan	Infiniti	327	423	350	325	425	348	327	376	343
<b>Nissan</b>	<b>All</b>	<b>267</b>	<b>374</b>	<b>301</b>	<b>258</b>	<b>378</b>	<b>291</b>	<b>242</b>	<b>339</b>	<b>275</b>
BMW	BMW	320	358	328	303	363	324	285	353	305
BMW	Mini	226	-	226	230	-	230	232	-	232
<b>BMW</b>	<b>All</b>	<b>306</b>	<b>358</b>	<b>315</b>	<b>276</b>	<b>363</b>	<b>299</b>	<b>270</b>	<b>353</b>	<b>289</b>
Ford	Ford	279	387	335	258	384	309	254	371	313
Ford	Lincoln	321	403	377	313	406	340	290	364	324
Ford	Mercury	332	332	332	-	-	-	-	-	-
<b>Ford</b>	<b>All</b>	<b>285</b>	<b>387</b>	<b>336</b>	<b>261</b>	<b>384</b>	<b>310</b>	<b>256</b>	<b>370</b>	<b>314</b>
GM	Chevrolet	287	404	336	276	399	318	266	409	317
GM	GMC	301	405	382	298	396	369	287	415	377
GM	Buick	322	373	339	299	363	323	286	347	297
GM	Cadillac	348	447	365	350	443	362	328	439	346
<b>GM</b>	<b>All</b>	<b>298</b>	<b>404</b>	<b>345</b>	<b>286</b>	<b>396</b>	<b>329</b>	<b>277</b>	<b>409</b>	<b>326</b>
Daimler	Mercedes-Benz	358	427	379	320	394	344	304	369	323
Daimler	Smart	182	-	182	180	-	180	177	-	177
<b>Daimler</b>	<b>All</b>	<b>354</b>	<b>427</b>	<b>377</b>	<b>316</b>	<b>394</b>	<b>341</b>	<b>301</b>	<b>369</b>	<b>320</b>
Chrysler-Fiat	Jeep	-	372	372	315	379	369	280	371	362
Chrysler-Fiat	Dodge	313	371	346	316	354	335	285	359	310
Chrysler-Fiat	Chrysler	313	345	327	301	343	318	306	349	323
Chrysler-Fiat	Ram	-	449	449	-	448	448	-	412	412
Chrysler-Fiat	Fiat	-	-	-	216	-	216	216	-	216
<b>Chrysler-Fiat</b>	<b>All</b>	<b>315</b>	<b>383</b>	<b>368</b>	<b>301</b>	<b>384</b>	<b>355</b>	<b>287</b>	<b>371</b>	<b>329</b>
<b>Other</b>	<b>All</b>	<b>298</b>	<b>396</b>	<b>338</b>	<b>296</b>	<b>385</b>	<b>329</b>	<b>308</b>	<b>374</b>	<b>334</b>
<b>All</b>	<b>All</b>	<b>276</b>	<b>373</b>	<b>317</b>	<b>259</b>	<b>369</b>	<b>298</b>	<b>256</b>	<b>363</b>	<b>294</b>

\*Note: Two manufacturers, Hyundai and Kia, are not included in rows 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 unadjusted, laboratory values for Hyundai and Kia.

Table 4.6 shows footprint by manufacturer for MY 2011-2013. In recent years, industry-wide footprint has been fluctuating around 49 square feet. GM, Ford, and Chrysler-Fiat had the largest footprint values in MY 2011 in the 51-52 square feet range, and Subaru and Mazda had the lowest footprint values of 45 square feet. The remaining manufacturers had average footprint values in the 46-48 square feet range.

**Table 4.6**

**Footprint (square feet) by Manufacturer for MY 2011–2013**

Manufacturer	Final MY 2011			Final MY 2012			Preliminary MY 2013		
	Cars	Trucks	Cars and Trucks	Cars	Trucks	Cars and Trucks	Cars	Trucks	Cars and Trucks
GM	47.2	61.0	53.4	47.0	60.1	52.1	46.4	61.9	52.2
Toyota	45.5	53.4	48.6	45.1	53.4	48.1	44.8	53.9	48.2
Ford	46.1	58.2	52.1	45.3	59.4	50.9	46.9	58.9	52.9
Honda	45.1	49.7	47.4	45.1	50.5	46.8	45.1	49.7	46.6
Chrysler-Fiat	49.0	52.6	51.8	47.2	53.7	51.4	47.3	52.2	49.8
Nissan	45.0	51.2	47.0	45.0	51.6	46.8	45.9	51.1	47.7
Hyundai	47.0	46.7	47.0	46.4	46.4	46.4	46.3	46.2	46.3
VW	44.4	47.8	45.1	45.0	49.0	45.5	45.5	48.8	45.9
Kia	45.4	48.3	45.9	45.6	52.0	46.2	45.8	46.0	45.8
Mazda	44.3	50.5	45.3	43.9	48.1	44.9	43.5	47.7	44.6
Subaru	44.2	44.8	44.6	44.3	44.7	44.5	44.2	44.6	44.5
BMW	45.9	51.1	46.8	45.9	51.4	47.3	46.2	51.2	47.4
Daimler	46.4	51.9	48.1	46.5	51.8	48.2	47.2	51.2	48.3
Other	45.2	48.2	46.4	45.5	48.5	46.6	45.0	48.3	46.3
<b>All</b>	<b>46.0</b>	<b>54.4</b>	<b>49.5</b>	<b>45.7</b>	<b>54.5</b>	<b>48.8</b>	<b>45.9</b>	<b>54.9</b>	<b>49.1</b>

Manufacturer-specific MY 2012 car footprint values varied little, within 44-47 square feet. MY 2012 truck footprint values were much more variable, ranging from 45 (Subaru) to 60 (General Motors) square feet.

In terms of change in footprint values from MY 2011 to MY 2012, four manufacturers (BMW, VW, Kia, and Daimler) slightly increased footprint, all equal to or less than 0.5 square feet. The remaining nine manufacturers decreased footprint, with the biggest decreases reported by General Motors (1.3 square feet) and Ford (1.2 square feet). In Ford's case, truck footprint increased in MY 2012, but its overall fleet decreased in footprint because of a major decrease in truck production share.

Industry-wide footprint is projected to increase slightly in MY 2013.

Table 4.7 shows manufacturer-specific values for adjusted fuel economy and production share for the two classes (cars and trucks) and the five vehicle types (cars, car SUVs, truck SUVs, pickups, and minivans/vans) for MY 2012. Toyota had the highest adjusted fuel

economy for the car type, while Honda led for car SUVs. For the truck types, Subaru reported the highest adjusted fuel economy for truck SUVs, General Motors and Toyota had the highest pickup fuel economy among manufacturers that make a significant number of pickups, and Mazda had the highest adjusted fuel economy for minivans/vans. VW had the highest car share, at 89%, with Mazda, BMW, and Nissan having car shares in the 73-77% range. Chrysler-Fiat had the highest truck share of 65%, followed by Subaru at 61% and Ford, General Motors, and Toyota in the 36-40% range.

Industry-wide, car type vehicles averaged 4.4 mpg higher than car SUVs in MY 2012. Among truck types, minivans/vans had the highest adjusted fuel economy of 21.4 mpg, followed by truck SUVs at 20.0 mpg, and pickups at 17.2 mpg. Notably, the car type, at 27.8 mpg, was the only one of the five vehicle types to exceed the fleetwide average of 23.6 mpg in MY 2012.

**Table 4.7**

**Adjusted Fuel Economy and Production Share by Vehicle Classification and Type for MY 2012**

	Cars		Car SUVs		All Cars		Truck SUVs		Pickups		Minivans/Vans		All Trucks		All	
Manufacturer	Adj FE (MPG)	Prod Share	Adj FE (MPG)	Prod Share	Adj FE (MPG)	Prod Share	Adj FE (MPG)	Prod Share	Adj FE (MPG)	Prod Share	Adj FE (MPG)	Prod Share	Adj FE (MPG)	Prod Share	Adj FE (MPG)	Prod Share
GM	25.7	43.1%	23.0	17.9%	24.8	61.0%	18.6	19.8%	17.6	18.3%	16.2	0.9%	18.1	39.0%	21.7	100.0%
Toyota	31.4	59.3%	23.6	4.7%	30.7	64.0%	20.9	18.8%	17.6	11.5%	21.2	5.6%	19.7	36.0%	25.6	100.0%
Ford	27.8	48.9%	23.4	11.1%	26.9	60.0%	19.8	17.0%	17.3	20.7%	22.6	2.3%	18.5	40.0%	22.8	100.0%
Honda	29.8	60.6%	25.5	7.3%	29.3	67.9%	22.3	21.7%	18.1	0.9%	22.4	9.5%	22.2	32.1%	26.6	100.0%
Chrysler-Fiat	24.0	29.5%	22.0	5.7%	23.7	35.2%	18.9	34.1%	16.0	14.3%	20.9	16.4%	18.6	64.8%	20.1	100.0%
Nissan	27.4	65.2%	23.6	7.5%	26.9	72.7%	19.7	17.4%	16.6	8.1%	21.7	1.8%	18.8	27.3%	24.1	100.0%
VW	26.5	85.3%	24.0	3.2%	26.4	88.5%	21.9	11.5%	-	-	-	-	21.9	11.5%	25.8	100.0%
Mazda	29.5	73.7%	23.2	2.8%	29.3	76.5%	19.6	11.9%	-	-	24.7	11.7%	21.9	23.5%	27.1	100.0%
Subaru	27.5	39.3%	-	-	27.5	39.3%	24.0	60.7%	-	-	-	-	24.0	60.7%	25.2	100.0%
BMW	25.3	74.4%	-	-	25.3	74.4%	20.1	25.6%	-	-	-	-	20.1	25.6%	23.7	100.0%
Daimler	22.9	63.5%	18.9	4.6%	22.6	68.1%	18.4	31.9%	-	-	-	-	18.4	31.9%	21.1	100.0%
Other	23.9	55.5%	24.2	7.4%	23.9	62.9%	18.6	35.7%	17.5	0.9%	14.9	0.5%	18.5	37.1%	21.6	100.0%
<b>All</b>	<b>27.8</b>	<b>54.9%</b>	<b>23.4</b>	<b>9.4%</b>	<b>27.0</b>	<b>64.4%</b>	<b>20.0</b>	<b>20.6%</b>	<b>17.2</b>	<b>10.1%</b>	<b>21.4</b>	<b>4.9%</b>	<b>19.3</b>	<b>35.6%</b>	<b>23.6</b>	<b>100.0%</b>

Table 4.8 shows average MY 2012 manufacturer-specific values, for all cars and trucks, for three important vehicle attributes: footprint, weight, and horsepower. The footprint data in Table 4.8 were also shown in Table 4.6 and discussed above. Daimler had the highest average weight of 4450 pounds, followed by General Motors and Chrysler-Fiat. Mazda reported the lowest average weight of 3330 pounds, followed by Hyundai and Kia. Daimler also had the highest average horsepower level of 282 hp, followed by Chrysler-Fiat and BMW. Mazda also reported the lowest horsepower level of 171 hp, followed by Subaru and Hyundai.

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**Table 4.8****Vehicle Footprint, Weight, and Horsepower by Manufacturer for MY 2012**

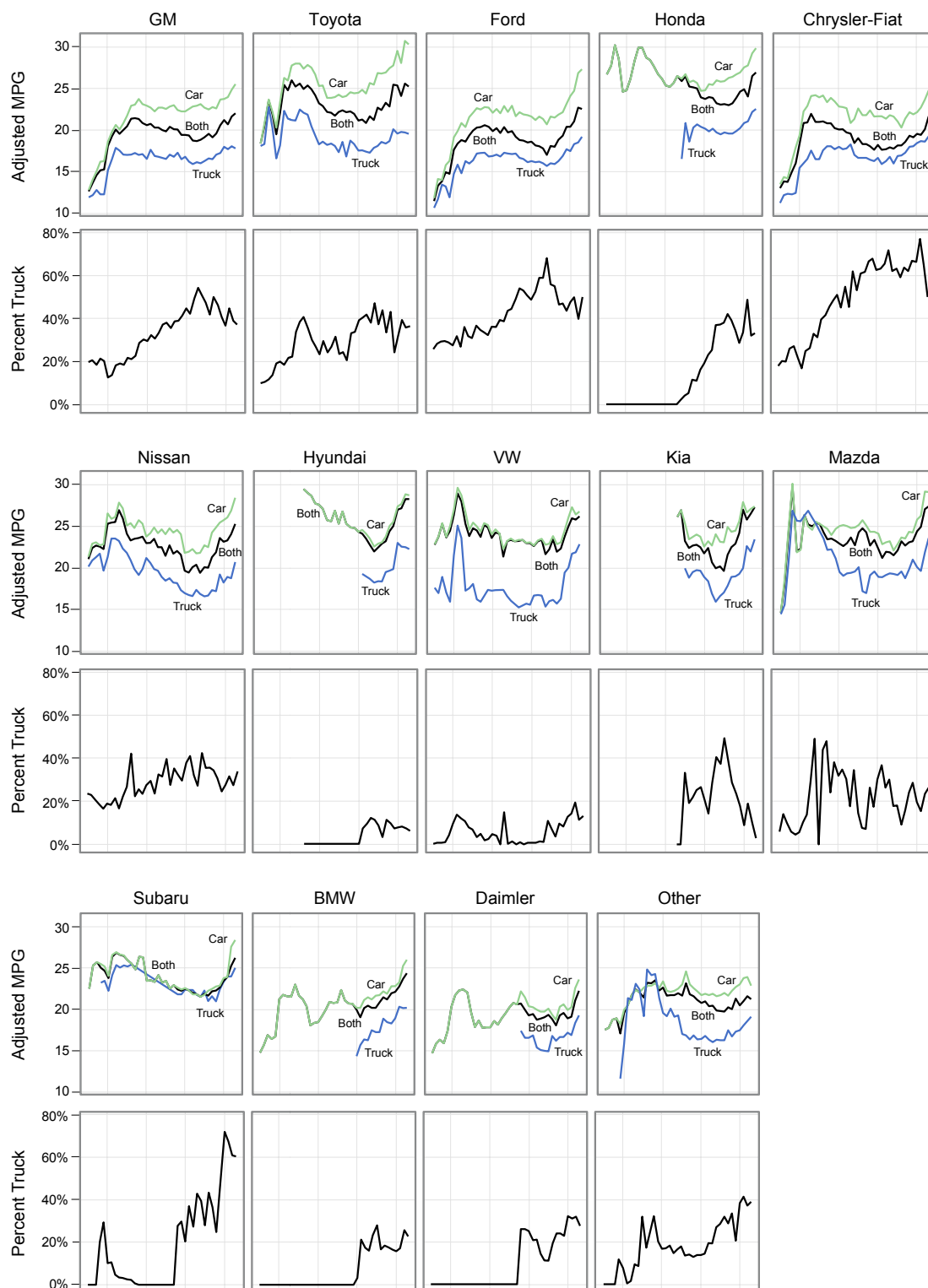
Manufacturer	Footprint (sq ft)	Weight (lb)	HP
GM	52.1	4395	245
Toyota	48.1	3863	196
Ford	50.9	4152	241
Honda	46.8	3646	192
Chrysler-Fiat	51.4	4361	271
Nissan	46.8	3748	204
Hyundai	46.4	3375	189
VW	45.5	3734	196
Kia	46.2	3485	191
Mazda	44.9	3330	171
Subaru	44.5	3663	176
BMW	47.3	4071	264
Daimler	48.2	4450	282
<b>All</b>	<b>48.8</b>	<b>3977</b>	<b>222</b>

Finally, Figure 4.1 provides a historical perspective, for both adjusted fuel economy and truck share, for each of the top 13 manufacturers. Adjusted fuel economy is presented for cars only, trucks only, and cars and trucks combined. One noteworthy result in Figure 4.1 is that there is very little difference between the adjusted fuel economy values for Subaru cars and trucks, the only manufacturer for which this is the case.

More information for the historic Trends database stratified by manufacturer can be found in Appendices J and K.

**Figure 4.1**

*Adjusted Fuel Economy and Percent Truck by Manufacturer for MY 1975-2013*



# 5 Powertrain Technologies

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Technological innovation is a major driver of vehicle design in general, and vehicle fuel economy and CO<sub>2</sub> emissions in particular. Since its inception, this report has tracked the usage of key technologies as well as many major engine and transmission parameters. This section of the report will focus on the larger technology trends in engine and transmission production and the impact of those trends on vehicle fuel economy and CO<sub>2</sub> emissions.

Over the last 35 years, one trend is strikingly clear; automakers have consistently developed and commercialized new technologies that have provided more benefits to consumers. As discussed previously in Sections 2 and 3, the benefits provided by new technologies have varied over time. New technologies have been introduced for many reasons, including to increase fuel economy, reduce CO<sub>2</sub> emissions, increase vehicle power and performance, increase in vehicle content and weight, or some combination of all the above.

## A. TRENDS IN ENGINE POWER AND SIZE (CYLINDERS AND DISPLACEMENT)

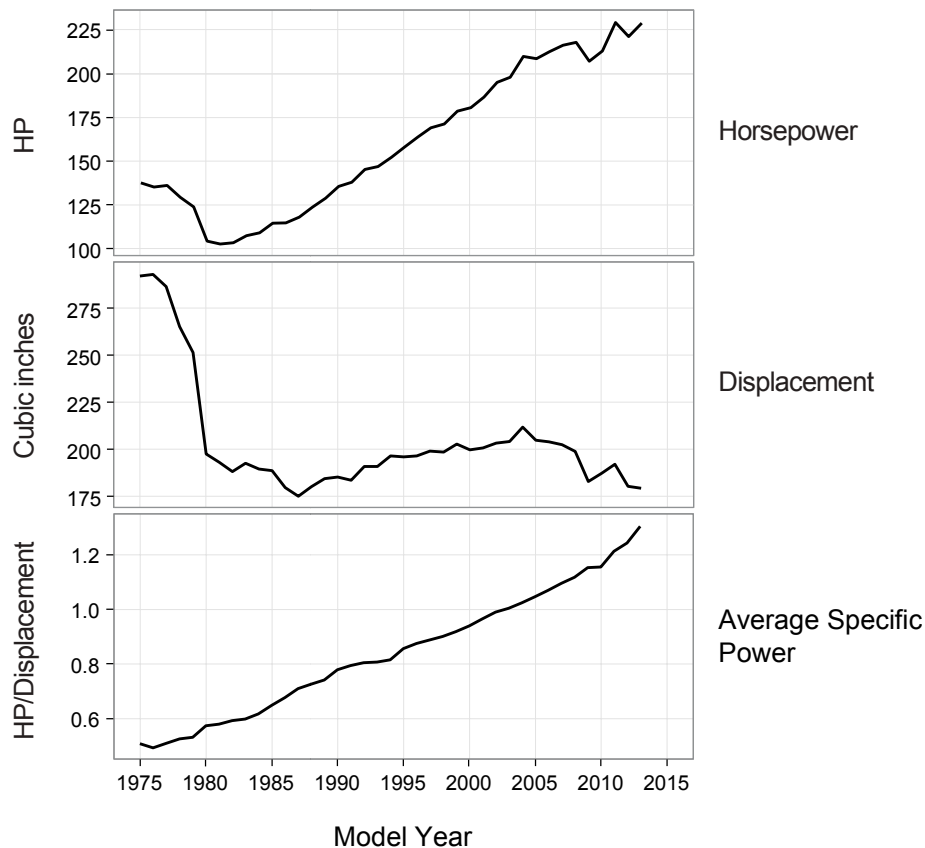
One of the most remarkable trends over the course of this report is the increase in vehicle power since the early 1980s. From 1975 through the early 1980s, average horsepower decreased, in combination with lower vehicle weight (see Table 2.1 and Figure 2.3) and smaller engine displacement (see below). Since the early 1980s, the average new vehicle horsepower has more than doubled, from just over 100 hp to over 230 hp in MY 2011. Average horsepower climbed consistently from MY1982 to MY 2008, and, after falling slightly in MY 2009, set a new all-time high of 230 hp in MY 2011. The trend in horsepower is mainly attributable to improvements in engine technology, but increasing sales of larger vehicles and an increasing percentage of truck sales have also influenced the increase of average new vehicle horsepower. The trend in average new vehicle horsepower is shown in Figure 5.1.

Engine size, as measured by total displacement, is also shown in Figure 5.1. Three general phases in engine displacement are discernible. From MY 1975 to 1987, the average engine displacement of new vehicles dropped dramatically by nearly 40%. From MY 1988 to 2004, displacement generally grew slowly, but the trend reversed in 2005 and engine displacement has been slowly decreasing since. In MY 2012, engine displacement is projected to be just slightly higher than the lowest average displacement in MY 1987.

The contrasting trends in horsepower (near an all-time high) and engine displacement (near an all-time low) highlight the continuing improvement in engines due to introduction of new technologies (e.g. port fuel injection) and smaller engineering improvements that are not tracked by this report (e.g. reduced internal friction). One additional way to examine the relationship between engine horsepower and displacement is to look at the trend in *specific power*, which is a metric to compare the power output of an engine relative to its size. Here, engine specific power is defined as horsepower divided by displacement.

**Figure 5.1**

**Engine Displacement and Power**

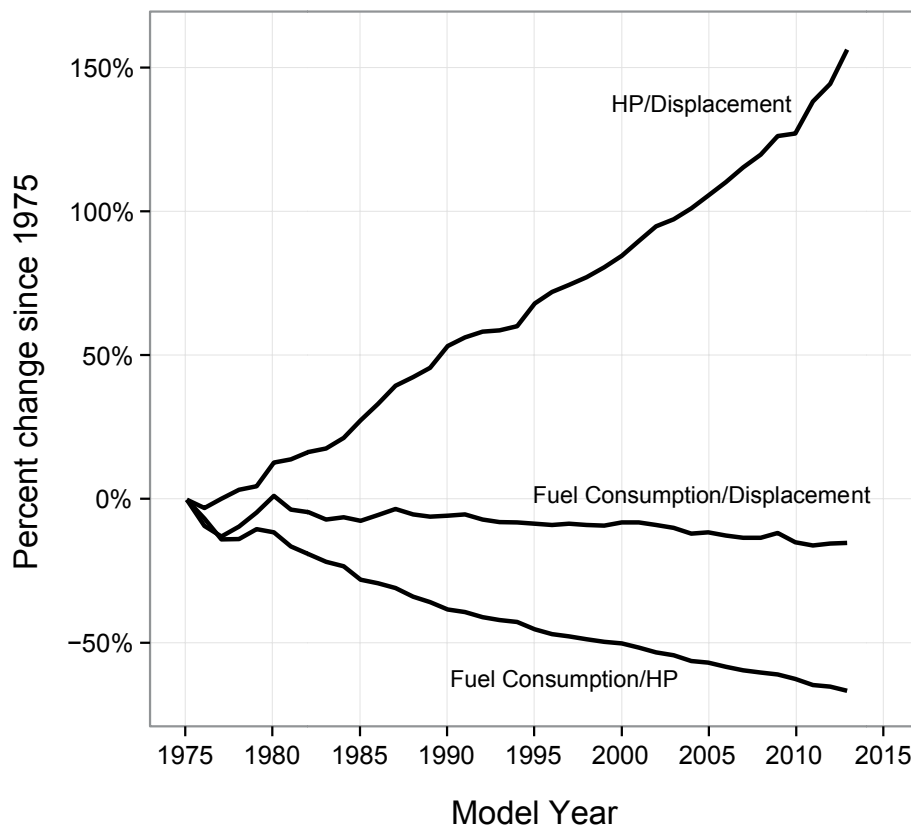


Since the beginning of this report, the average specific power of engines across the new vehicle fleet has increased at a remarkably steady rate, as shown in Figure 5.1. Over the 37 years covered by this report, the specific power of new vehicle engines has increased, on average, by 0.02 horsepower per cubic inch every year. Considering the numerous and significant changes to engines over this time span, changes in consumer preferences, and the external pressures on vehicle purchases, the long standing linearity of this trend is noteworthy. The roughly linear increase in specific power does not appear to be slowing (if anything the last few years of data suggest a slight increase above the historical norm).

Figure 5.2 summarizes three important engine metrics, each of which has shown a remarkably linear change over time. Specific power, as discussed above, has increased more than 150% over the 37 years of this report at a very steady rate. The amount of fuel consumed by an engine, relative to the total displacement, has fallen about 15% since MY 1975, and fuel consumption relative to engine horsepower has fallen nearly 65% since MY 1975. Taken as a whole, the trend lines in Figure 5.2 very clearly show that engine improvements over time have been steady, continual, and have resulted in impressive improvements to internal combustion engines.

**Figure 5.2**

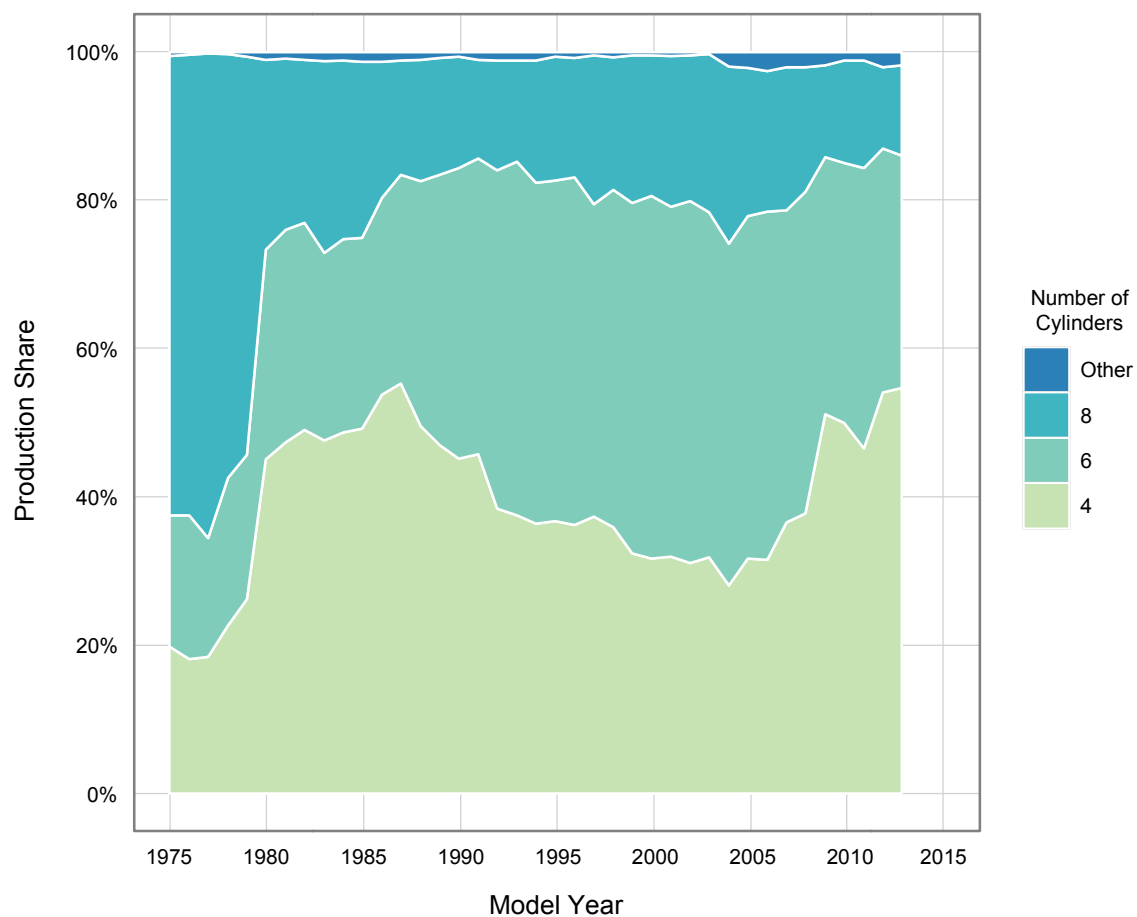
*Percent Change for Specific Engine Metrics*



Another basic engine design parameter that is useful to explore is the number of engine cylinders. Since 1975, there have been significant changes to the number of cylinders in new vehicles, as shown in Figure 5.3. In the mid and late 1970s, the 8-cylinder engine was dominant, accounting for over half of new vehicle production. In MY 1980 there was a significant change in the market, as 8-cylinder engine production share dropped from 54% to 26% and 4-cylinder production share increased from 26% to 45%. The 4-cylinder engine then continued to lead the market until they were overtaken by 6-cylinder engines in MY 1992. Model year 2009 marked a second major shift in engine production, as 4-cylinder engines once again became the production leader with 51% of the market (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%. Production of four cylinder engines decreased slightly in MY 2010 and MY 2011, but increased back above 50% in MY 2012 and is projected to keep climbing in MY 2013. Engine displacement per cylinder has been relatively stable over the time of this report (around 35 cubic inches per cylinder since 1980), so the reduction in overall new vehicle engine displacement shown in Figure 5.1 is almost entirely due to the shift towards engines with fewer cylinders.

**Figure 5.3**

*Production Share by Number of Cylinders*



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## B. TRENDS IN FUEL DELIVERY METHODS AND VALVETRAINS

One aspect of engine design that has changed significantly over time is how fuel is delivered into the engine. In the 1970s and early 1980s, nearly all engines used carburetors to meter fuel delivered to the engine. Carburetors were replaced over time with throttle body injection systems (TBI) and port fuel injection systems. More recently, engines with gasoline direct injection (GDI) have begun to replace engines with port fuel injection. Engines using GDI were first introduced into the market in very limited amounts in MY 2007, and only 6 years later GDI engines are projected to be installed on nearly 31% of new vehicles in MY 2013.

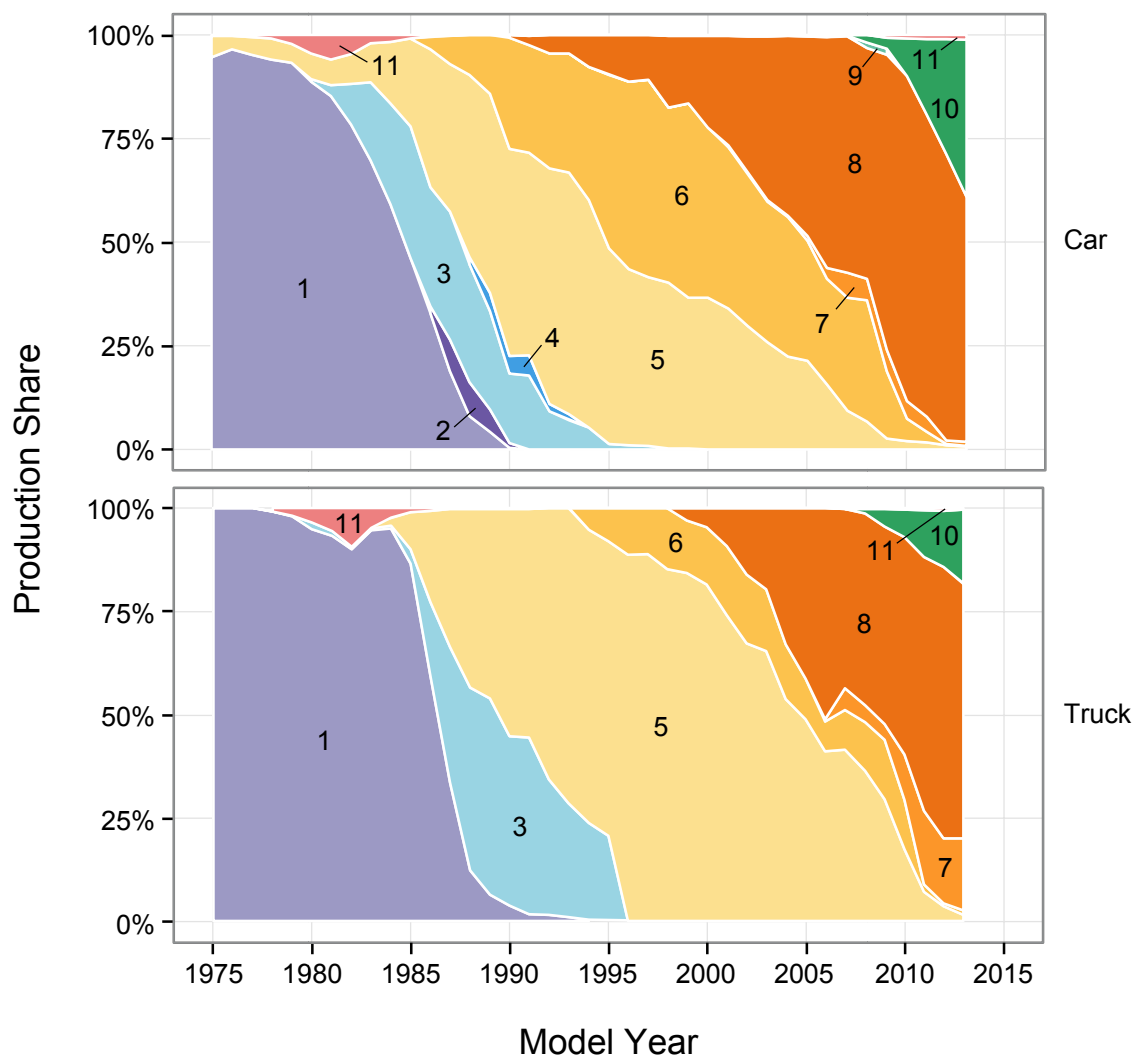
Another key aspect of engine design is the valvetrain. The number of valves per cylinder and the ability to alter valve timing during the combustion cycle can result in significant power and efficiency improvements. This report began tracking multi-valve engines (i.e., engines with more than 2 valves per cylinder) for cars in MY 1986, and since that time nearly the entire fleet has converted to multi-valve design. While some three and five valve engines have been produced, the vast majority of multi-valve engines are based on 4 valves per cylinder. In addition to the number of valves per cylinder, engine designs have evolved that allow engine valves to vary the timing when they are opened or closed with respect to the combustion cycle, creating more flexibility to control engine efficiency, power, and emissions. This report began tracking variable valve timing (VVT) for cars in MY 1990, and since then nearly the entire fleet has adopted this technology. Figure 5.4 shows the evolution of engine technology, including fuel delivery method and the introduction of VVT and multi-valve engines.

As clearly shown in Figure 5.4, fuel delivery and valve-train technologies have often developed over the same time frames. Nearly all carbureted engines relied on fixed valve timing and had two valves per cylinder, as did early port injected engines. Port injected engines largely developed into engines with both multi-valve and VVT technology. Engines with GDI are almost exclusively using multi-valve and VVT technology. These four engine groupings, or packages, represent a large share of the engines produced over the last 37 years of this report.

Figure 5.5 shows the changes in specific power and fuel consumption between each of these engine packages over time. There is a very clear increase in specific power of each engine package, as engines moved from carbureted engines, to two valve port fixed engines, to multi valve port VVT engines, and finally to GDI engines. Some of the increase for GDI engines may also be due to the fact that GDI engines are often paired with turbochargers to further increase power. Figure 5.5 additionally shows the reduction in fuel consumption, per horsepower, for each of the four engine packages.

**Figure 5.4**

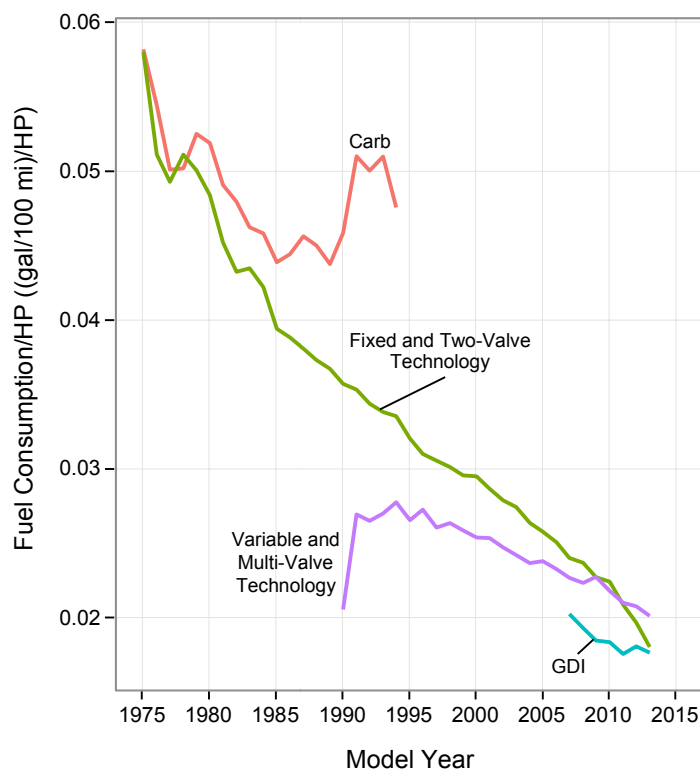
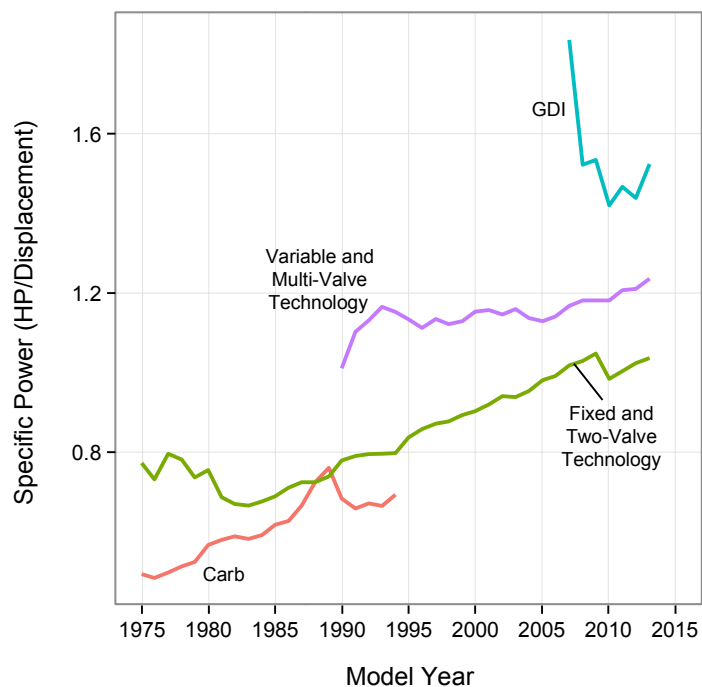
*Production Share by Engine Technology*



Fuel Delivery	Valve Timing	Number of Valves	Key
Carbureted	Fixed	Two-Valve	1
	Variable	Multi-Valve	2
Throttle Body Injection	Fixed	Two-Valve	3
	Fixed	Multi-Valve	4
Port Fuel Injection	Fixed	Two-Valve	5
		Multi-Valve	6
	Variable	Two-Valve	7
		Multi-Valve	8
Gasoline Direct Injection (GDI)	Fixed	Multi-Valve	9
	Variable	Multi-Valve	10
Diesel	—	—	11

**Figure 5.5**

**Engine Metrics for Different Engine Technology Packages**



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## C. NEW POWERTRAIN STRATEGIES: TURBO DOWNSIZING, HYBRIDS, AND DIESELS

Two powertrain strategies that are relatively new to this report are turbo-downsizing and hybridization. Vehicles that employ turbo downsizing use a smaller displacement engine with a turbocharger in place of a larger naturally aspirated engine. Hybrid vehicles feature larger batteries that provide a second source of on-board power. Diesel engines, while certainly not new to the market or to this report, are also included in this section of the report due to the increased interest in diesel vehicles.

### **Turbo-downsizing**

Nearly all manufacturers have introduced (or have plans to introduce) engines that are considered “turbo downsized” engines. This group of engines generally has three common features: a smaller displacement than the engines they are replacing, turbochargers, and (often, but not always) GDI. Turbo downsized engines are an approach to engine design that provides increased fuel economy by using a smaller engine for most vehicle operation, while retaining the ability to garner more power via the turbocharger, when needed.

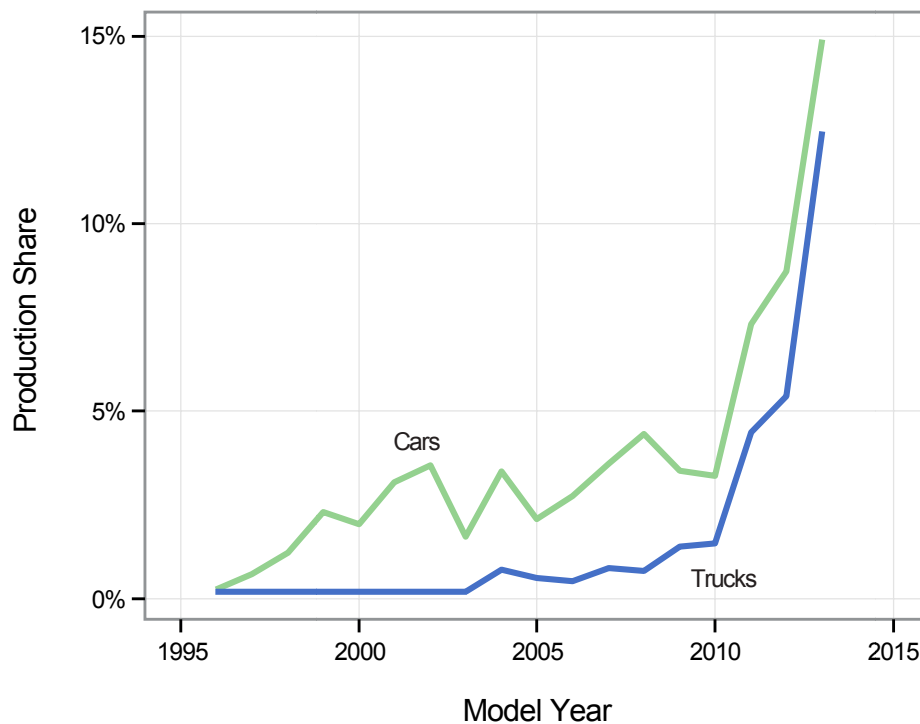
Turbocharged engines are projected to capture approximately 15% of new vehicle production in MY 2013. This is a significant increase in market penetration over the last decade, and it is a trend that appears to be accelerating rapidly, as shown in Figure 5.6. Prior to the last few years, turbochargers (and superchargers) were available, but generally only on high performance, low volume vehicles. It is only in the last few years that turbochargers have been available as part of a downsized turbo vehicle package, many of which are now available in more mainstream vehicles. The sales of these vehicles are driving the increase in turbochargers across new vehicles. Both cars and trucks are rapidly adding turbocharged engine packages, as shown in Figure 5.6.

Turbochargers are most frequently combined with 4-cylinder engines. Excluding diesel engines, over 75% of all turbocharged engines are combined with 4-cylinder engines and about 18% are combined with 6-cylinder engines. Nearly 60% of all turbocharged engines are projected to be installed in 4-cylinder cars in MY 2013. The overall breakdown of turbocharger distribution in the new vehicle fleet is shown in Table 5.1.

In current engines, turbochargers are often being used in combination with GDI to allow for more efficient engine operation and to increase the resistance to engine knock (the use of variable valve timing also helps to reduce turbo lag). In MY 2013, over 70% of cars with gasoline turbocharged engines also use GDI, and nearly 98% of gasoline turbocharged trucks also use GDI.

**Figure 5.6**

**Market Share of Gasoline Turbo Vehicles**



**Table 5.1**

**Distribution of MY 2013 Turbocharged Engines (Excludes Diesel)**

Category	Turbo Share
<b>Car</b>	
4 cylinder Car	60.1%
6 cylinder Car	3.4%
8 cylinder Car	3.4%
Other Car	1.4%
<b>Truck</b>	
4 cylinder Truck	15.2%
6 cylinder Truck	14.7%
8 cylinder Truck	1.8%

**Figure 5.7**

*Distribution of Gasoline Turbo Vehicles by Displacement and Horsepower, MY 2010 – MY 2013*

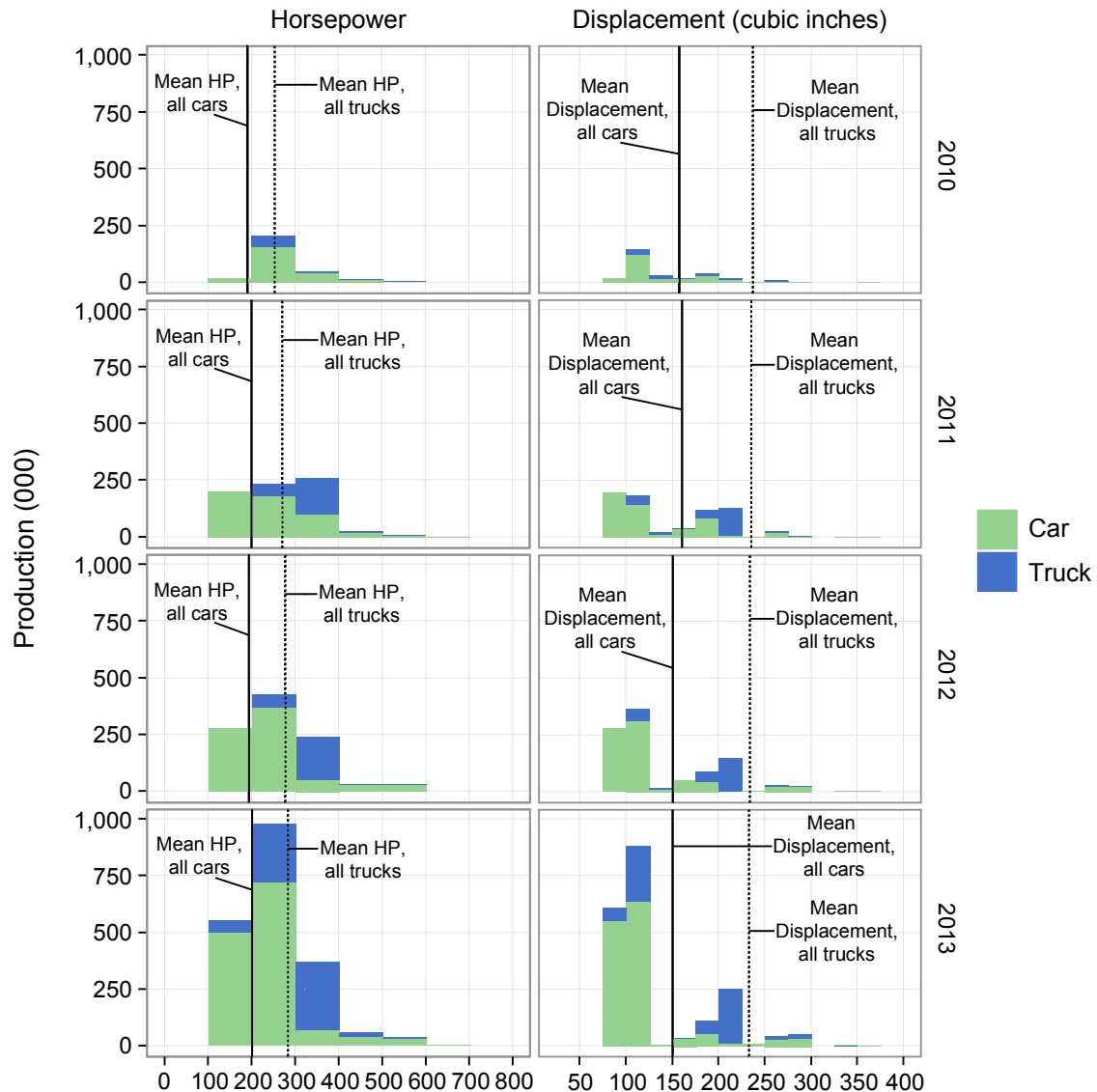


Figure 5.7 examines the distribution of engine displacement and power of turbocharged engines for MY 2010 to MY 2013. Note that the production values for cars and trucks in each bar are additive, e.g., there are projected to be nearly 750,000 gasoline cars with turbochargers in the 200-300 horsepower range in MY 2013, with another 250,000 gasoline trucks with turbochargers in the same horsepower range. In MY 2010, turbochargers were used mostly on cars, and were available on engines both above and below the average engine displacement. The biggest increase in turbocharger use over the last few years has been in cars with engine displacement well below average displacement. In addition, many more engines with turbochargers are at or below the new vehicle average horsepower, for both cars and trucks. This trend towards adding turbochargers to smaller, less powerful engines

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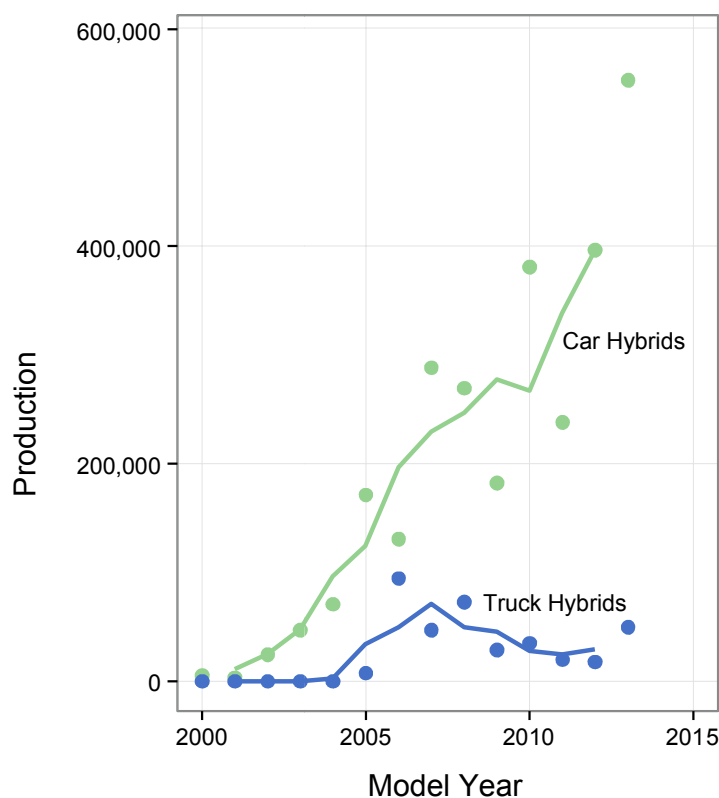
reinforces the conclusion that most turbochargers are currently being used for turbo downsizing, and not simply just to add power for performance vehicles.

## Hybrids

Hybrid vehicles utilize larger battery packs, electric motor(s), and other hardware that increase vehicle fuel economy for several reasons including: 1) regenerative braking can capture energy that is otherwise lost in conventional friction braking to charge the battery, 2) two sources of on-board power can allow the engine to be operated at or near its peak efficiency more often, and 3) the engine can be shut off at idle. The introduction of the first hybrid into the U.S. marketplace occurred in MY 2000. Since then, hybrids have slowly increased market share and are projected to reach 4.2% of all new vehicles produced in MY 2013. The market share of hybrids has fluctuated from year to year, but the general trend has been a clear increase in overall market penetration as shown in Figure 5.8. A large factor in the fluctuating hybrid sales is the fact that hybrid sales are still largely dominated by one vehicle, the Toyota Prius. Production of the Toyota Prius, like many other vehicles produced in Japan, was impacted by the earthquake and tsunami that hit Japan in 2011, and a shortened model year in MY 2009 due to the introduction of a redesigned vehicle.

**Figure 5.8**

*Hybrid Production MY 2000 – MY 2013 (With 3-Year Moving Average)*



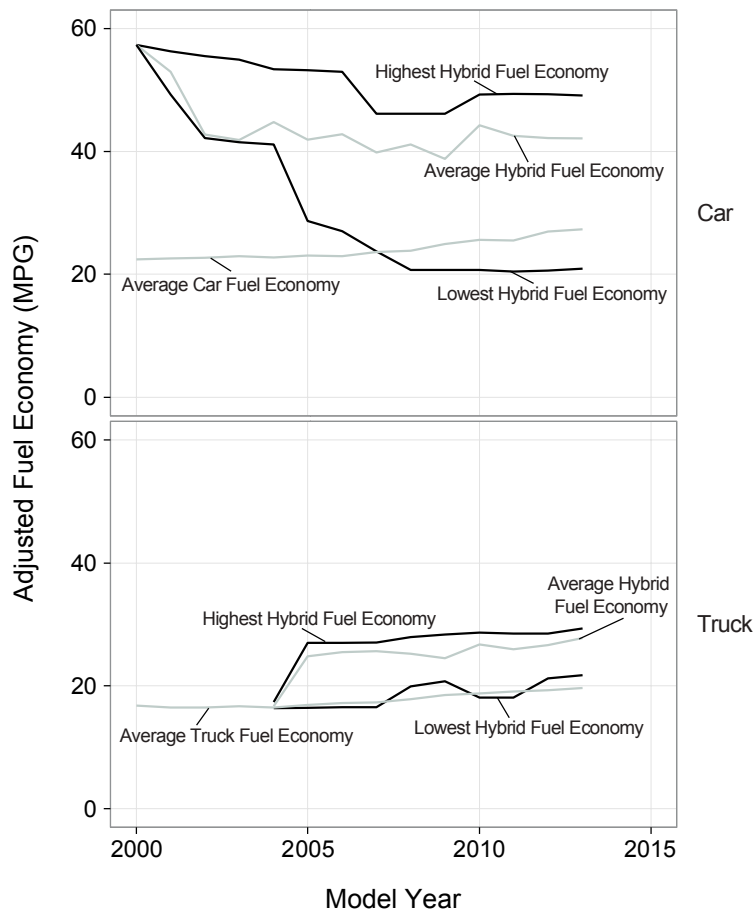
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Hybrid vehicles were introduced into the market in MY 2000 as low production, specialty vehicles with very high fuel economy. Over time, more hybrids models were introduced into the market, and hybrids were introduced over a broader range of vehicle types, including larger vehicles and even some vehicles that were more performance oriented. Hybrid powertrains are now frequently offered as options on many popular models and are nearly indistinguishable from their non-hybrid relatives. Most hybrids provide higher fuel economy than comparable vehicles, although some hybrids have been offered as more performance-oriented vehicles with more minor fuel economy improvements.

Figure 5.9 shows the production-weighted distribution of fuel economy for all hybrid vehicles by year. The average hybrid fuel economy is well above the new vehicle average in all model years, even as hybrid systems have been introduced into a wide range of larger and more powerful vehicles. The production-weighted average hybrid car fuel economy shown in Figure 5.9 does actually fall from MY 2000 until MY 2003, but this is a reflection of the widening availability of hybrid models, not of the technology. Hybrid truck fuel economy has been less variable; however there have been fewer hybrid truck models introduced and less production, compared to hybrid cars.

**Figure 5.9**

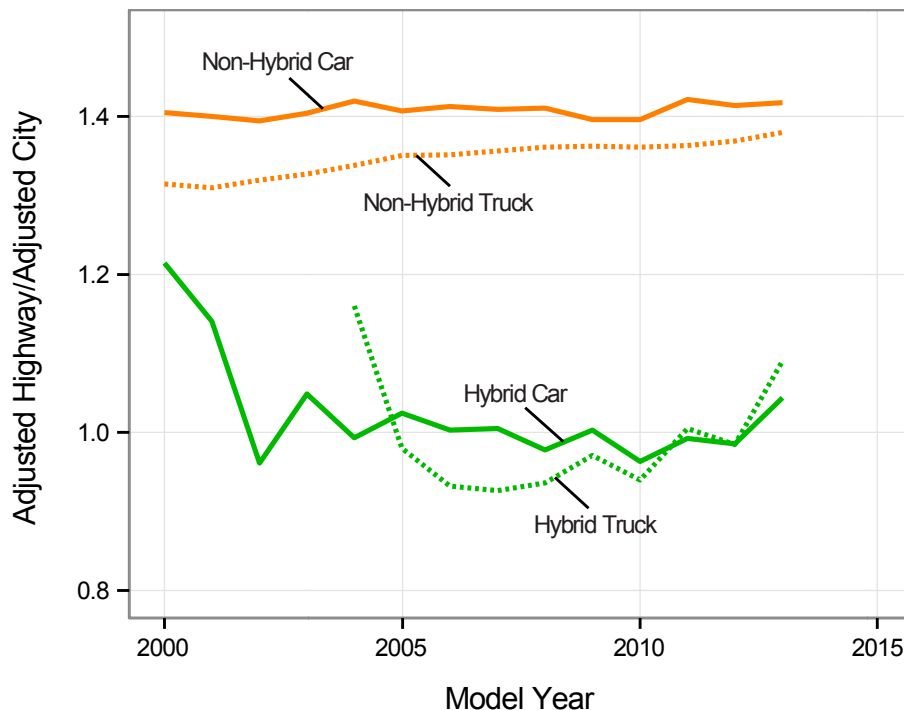
**Hybrid Adjusted Fuel Economy Distribution by Year**



One significant design aspect of hybrids is the ability to use regenerative braking to capture some of the energy lost by a vehicle during braking. The recaptured energy is stored in a battery and is then used to help propel the vehicle, generally during vehicle acceleration. This process results in significantly higher city fuel economy ratings for hybrid vehicles compared to non-hybrid vehicles, and in fact the city fuel economy of many hybrids is about equal to their highway fuel economy. Figure 5.10 below shows the ratio of highway to city fuel economy for hybrid cars and trucks. Hybrid models have a ratio of highway to city fuel economy of near 1.0 (meaning the city and highway fuel economy are nearly equivalent) which is much lower than the 1.4 ratio of highway to city fuel economy for non-hybrid models. This is one aspect of operating a hybrid that is fundamentally different from a conventional vehicle and appears to be relatively steady over time.

**Figure 5.10**

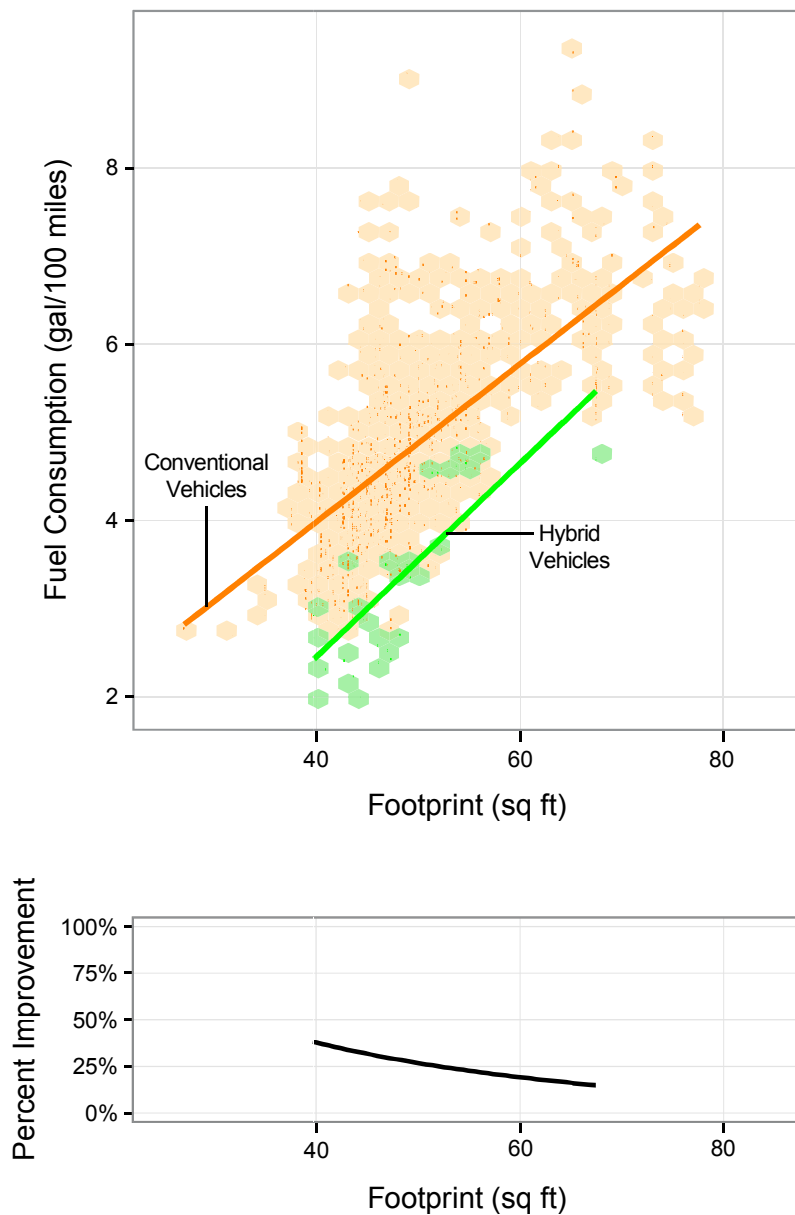
*Highway/City Fuel Economy Ratio for Hybrids and Non hybrids*



Hybrid cars, on average, have fuel economy nearly 60% higher than all other non-hybrid vehicles. As a production weighted average, hybrid cars achieved 42 mpg for MY 2012, while non-hybrid cars averaged about 27 mpg. However, hybrids are often smaller and less powerful than the average non-hybrid. The relationship between hybrids and non-hybrids is clearer if vehicles of the same footprint are compared directly. As shown in Figure 5.11, the fuel consumption of vehicles increases as the footprint increases at about the same rate for both hybrid and non-hybrid vehicles. Hybrids do however achieve a higher percentage improvement in smaller vehicles, and achieve 32% lower fuel consumption, on average, for vehicles with a footprint of 45 square feet, which is about the size of a standard midsize sedan. The percent improvement figure at the bottom of Figure 5.11 describes the fuel consumption improvement for hybrid vehicles as compared to conventional vehicles over the range of footprints for which both hybrid and conventional vehicles are available. It depicts the percentage difference between the 'best fit' lines for hybrid vehicles and conventional vehicles shown in the upper part of Figure 5.11.

**Figure 5.11**

*Percent Improvement in Adjusted Fuel Consumption for Hybrid Vehicles, MY 2012*



#### Diesels

While diesel engines are not a new technology, interest in diesel engines for light duty passenger applications has grown in recent years. Light duty diesel vehicles increased to about 1% of new vehicle production for MY 2012 and MY 2013. As with hybrid vehicles, diesels generally achieve higher fuel economy than other non-diesel vehicles. However, for

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diesel vehicles available in MY 2012, the percent improvement is more pronounced in vehicles with a smaller footprint than in vehicles with a larger footprint. This is partly explained due to the fact that MY 2012 larger footprint diesel offerings are limited to higher power offerings from luxury manufacturers. The relationship between diesel vehicles and all new vehicles is shown in Figure 5.12.

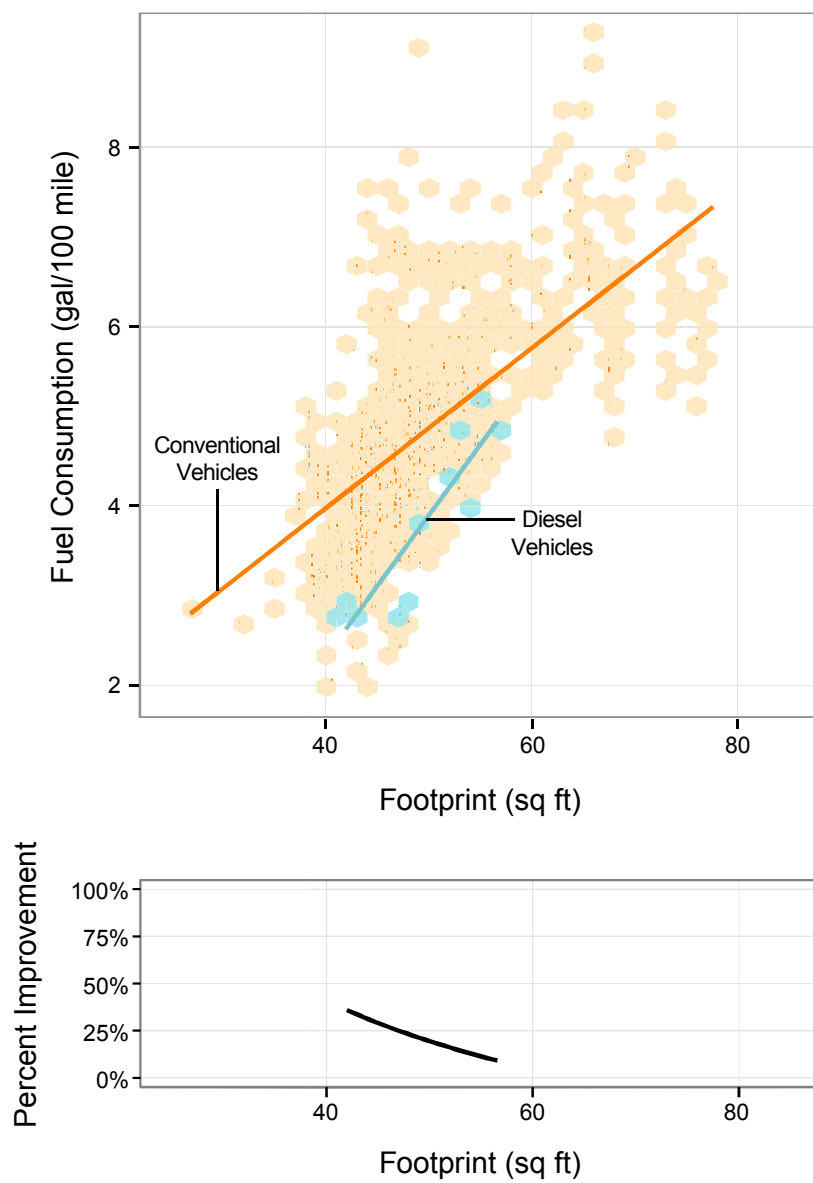
While diesel engines generally achieve higher fuel economy than comparable gasoline vehicles, there is less of an advantage in terms of CO<sub>2</sub> emissions. Some of the fuel economy benefit of diesel engines is negated by the fact that diesel fuel contains about 15% more carbon per gallon, and thus emits more CO<sub>2</sub> per gallon burned than gasoline. Figure 5.13 shows the impact of diesel vehicles on CO<sub>2</sub> emissions by comparing the fuel consumption of MY 2012 diesel gasoline vehicles by footprint.

### **Other Technologies**

Table 5.2.1 presents comprehensive annual data for the historic MY 1975-2013 database for all of the engine technologies and parameters discussed above and several additional technologies. This is the first year that this report has included engine stop-start technology (for non-hybrid vehicles), and already stop-start technology is projected to be included on over 2% of new non-hybrid vehicle production in MY 2013 (note that total use of stop-start is over 6% of the market since hybrids typically utilize stop-start as well). Cylinder deactivation, another technology not discussed above, has also grown to capture a projected 8.3% of production in MY 2013. Tables 5.2.2 and 5.2.3 provide the same data for cars only and trucks only, respectively. This data, and additional data, is further broken down in Appendices E through I.

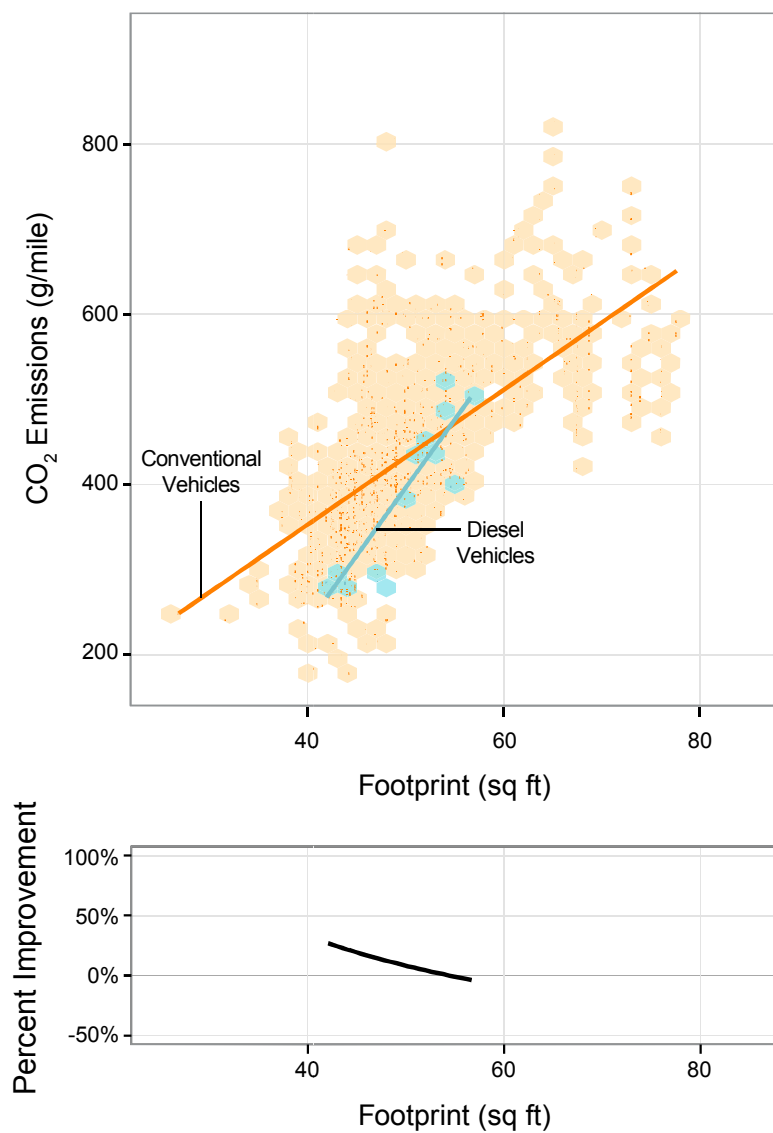
**Figure 5.12**

*Percent Improvement in Adjusted Fuel Consumption for Diesel Vehicles, MY 2012*



**Figure 5.13**

*Percent Improvement in CO<sub>2</sub> Emissions for Diesel Vehicles, MY 2012*



**Table 5.2.1**
**Engine Characteristics of MY 1975 to MY 2013: Both Cars and Trucks**

Model Year	Powertrain			Fuel Delivery Method					Avg. No. of Cylinders	CID	HP	Multi-Valve	VVT	CD	Turbo	Non-Hybrid Stop/Start
	Gasoline	Hybrid	Diesel	Carbureted	GDI	Port	TBI	Diesel								
1975	99.8%	-	0.2%	95.7%	-	4.1%	0.0%	0.2%	6.82	293	137	-	-	-	-	-
1976	99.8%	-	0.2%	97.3%	-	2.5%	0.0%	0.2%	6.87	294	135	-	-	-	-	-
1977	99.6%	-	0.4%	96.2%	-	3.4%	0.0%	0.4%	6.94	287	136	-	-	-	-	-
1978	99.1%	-	0.9%	95.2%	-	3.9%	0.0%	0.9%	6.69	266	129	-	-	-	-	-
1979	98.0%	-	2.0%	94.2%	-	3.7%	0.1%	2.0%	6.53	252	124	-	-	-	-	-
1980	95.7%	-	4.3%	89.7%	-	5.2%	0.8%	4.3%	5.59	198	104	-	-	-	-	-
1981	94.1%	-	5.9%	86.7%	-	5.1%	2.4%	5.9%	5.50	193	102	-	-	-	-	-
1982	94.4%	-	5.6%	80.6%	-	5.8%	8.0%	5.6%	5.43	188	103	-	-	-	-	-
1983	97.3%	-	2.7%	75.2%	-	7.3%	14.8%	2.7%	5.54	193	107	-	-	-	-	-
1984	98.2%	-	1.8%	67.6%	-	11.9%	18.7%	1.8%	5.49	190	109	-	-	-	-	-
1985	99.1%	-	0.9%	56.1%	-	18.2%	24.8%	0.9%	5.46	189	114	-	-	-	-	-
1986	99.6%	-	0.4%	41.4%	-	32.5%	25.7%	0.4%	5.26	180	114	3.4%	-	-	-	-
1987	99.7%	-	0.3%	28.4%	-	39.9%	31.4%	0.3%	5.17	175	118	10.6%	-	-	-	-
1988	99.9%	-	0.1%	15.0%	-	50.6%	34.3%	0.1%	5.31	180	123	14.0%	-	-	-	-
1989	99.9%	-	0.1%	8.7%	-	57.3%	33.9%	0.1%	5.36	185	129	16.9%	-	-	-	-
1990	99.9%	-	0.1%	2.1%	-	70.8%	27.0%	0.1%	5.39	185	135	23.1%	-	-	-	-
1991	99.9%	-	0.1%	0.6%	-	70.6%	28.7%	0.1%	5.32	184	138	23.1%	-	-	-	-
1992	99.9%	-	0.1%	0.5%	-	81.6%	17.8%	0.1%	5.50	191	145	23.3%	-	-	-	-
1993	100.0%	-	-	0.3%	-	85.0%	14.6%	-	5.50	191	147	23.5%	-	-	-	-
1994	100.0%	-	0.0%	0.1%	-	87.7%	12.1%	0.0%	5.58	197	152	26.7%	-	-	-	-
1995	100.0%	-	0.0%	-	-	91.6%	8.4%	0.0%	5.59	196	158	35.6%	-	-	-	-
1996	99.9%	-	0.1%	-	-	99.3%	0.7%	0.1%	5.59	197	164	39.3%	-	-	0.2%	-
1997	99.9%	-	0.1%	-	-	99.5%	0.5%	0.1%	5.65	199	169	39.6%	-	-	0.4%	-
1998	99.9%	-	0.1%	-	-	99.8%	0.1%	0.1%	5.63	199	171	40.9%	-	-	0.8%	-
1999	99.9%	-	0.1%	-	-	99.9%	0.1%	0.1%	5.75	203	179	43.4%	-	-	1.4%	-
2000	99.8%	0.0%	0.1%	-	-	99.8%	0.0%	0.1%	5.74	200	181	44.8%	15.0%	-	1.3%	-
2001	99.8%	0.0%	0.1%	-	-	99.9%	-	0.1%	5.76	201	187	49.0%	19.6%	-	2.0%	-
2002	99.6%	0.2%	0.2%	-	-	99.8%	-	0.2%	5.77	203	195	53.3%	25.3%	-	2.2%	-
2003	99.5%	0.3%	0.2%	-	-	99.8%	-	0.2%	5.79	204	199	55.5%	30.6%	-	1.2%	-
2004	99.4%	0.5%	0.1%	-	-	99.9%	-	0.1%	5.90	212	211	62.3%	38.5%	-	2.3%	-
2005	98.6%	1.1%	0.3%	-	-	99.7%	-	0.3%	5.75	205	209	65.6%	45.8%	0.8%	1.7%	-
2006	98.1%	1.5%	0.4%	-	-	99.6%	-	0.4%	5.73	204	213	71.7%	55.4%	3.6%	2.1%	-
2007	97.7%	2.2%	0.1%	-	-	99.8%	-	0.1%	5.64	203	217	71.7%	57.3%	7.3%	2.5%	-
2008	97.4%	2.5%	0.1%	-	2.3%	97.6%	-	0.1%	5.56	199	219	76.4%	58.2%	6.7%	3.0%	-
2009	97.2%	2.3%	0.5%	-	4.2%	95.3%	-	0.5%	5.21	183	208	83.8%	71.5%	7.3%	3.3%	-
2010	95.6%	3.8%	0.7%	-	8.3%	91.0%	-	0.7%	5.27	188	214	85.5%	83.8%	6.4%	3.3%	-
2011	97.1%	2.2%	0.8%	-	15.4%	83.8%	-	0.8%	5.35	192	230	86.4%	93.1%	9.5%	6.8%	-
2012	96.0%	3.1%	0.9%	-	22.7%	76.4%	-	0.9%	5.12	180	222	91.9%	96.7%	8.1%	8.4%	0.6%
2013	94.9%	4.2%	0.9%	-	30.8%	68.3%	-	0.9%	5.13	179	230	92.2%	97.6%	8.2%	14.8%	2.1%

**Table 5.2.2**
**Engine Characteristics of MY 1975 to MY 2013: Cars Only**

Model Year	Powertrain			Fuel Delivery Method					Avg. No. of Cylinders	CID	HP	Multi-Valve	VVT	CD	Turbo	Non-Hybrid Stop/Start
	Gasoline	Hybrid	Diesel	Carbureted	GDI	Port	TBI	Diesel								
1975	99.8%	-	0.2%	94.6%	-	5.1%	-	0.2%	6.71	288	136	-	-	-	-	-
1976	99.7%	-	0.3%	96.6%	-	3.2%	-	0.3%	6.75	287	134	-	-	-	-	-
1977	99.5%	-	0.5%	95.3%	-	4.2%	-	0.5%	6.85	279	133	-	-	-	-	-
1978	99.1%	-	0.9%	94.0%	-	5.1%	-	0.9%	6.52	251	124	-	-	-	-	-
1979	97.9%	-	2.1%	93.2%	-	4.7%	-	2.1%	6.38	238	119	-	-	-	-	-
1980	95.6%	-	4.4%	88.7%	-	6.2%	0.7%	4.4%	5.48	188	100	-	-	-	-	-
1981	94.1%	-	5.9%	85.3%	-	6.1%	2.6%	5.9%	5.36	182	99	-	-	-	-	-
1982	95.3%	-	4.7%	78.4%	-	7.2%	9.8%	4.7%	5.23	175	99	-	-	-	-	-
1983	97.9%	-	2.1%	69.7%	-	9.4%	18.8%	2.1%	5.39	182	104	-	-	-	-	-
1984	98.3%	-	1.7%	59.1%	-	14.9%	24.3%	1.7%	5.34	179	106	-	-	-	-	-
1985	99.1%	-	0.9%	46.0%	-	21.3%	31.8%	0.9%	5.29	177	111	-	-	-	-	-
1986	99.7%	-	0.3%	34.4%	-	36.5%	28.7%	0.3%	5.09	167	111	4.7%	-	-	-	-
1987	99.8%	-	0.2%	26.5%	-	42.4%	30.8%	0.2%	4.98	162	113	14.6%	-	-	-	-
1988	100.0%	-	0.0%	16.1%	-	53.7%	30.2%	0.0%	5.02	161	116	19.7%	-	-	-	-
1989	100.0%	-	0.0%	9.6%	-	62.2%	28.1%	0.0%	5.07	163	121	24.1%	-	-	-	-
1990	100.0%	-	0.0%	1.4%	-	77.4%	21.2%	0.0%	5.05	163	129	32.8%	0.6%	-	-	-
1991	99.9%	-	0.1%	0.1%	-	77.2%	22.6%	0.1%	5.05	164	133	33.2%	2.4%	-	-	-
1992	99.9%	-	0.1%	0.0%	-	88.9%	11.0%	0.1%	5.23	171	141	34.0%	4.4%	-	-	-
1993	100.0%	-	-	0.0%	-	91.5%	8.5%	-	5.19	170	140	34.8%	4.5%	-	-	-
1994	100.0%	-	0.0%	-	-	94.8%	5.2%	0.0%	5.20	169	144	39.9%	7.7%	-	-	-
1995	99.9%	-	0.1%	-	-	98.6%	1.3%	0.1%	5.23	168	153	51.4%	9.6%	-	-	-
1996	99.9%	-	0.1%	-	-	98.8%	1.1%	0.1%	5.18	167	155	56.4%	11.3%	-	0.3%	-
1997	99.9%	-	0.1%	-	-	99.2%	0.8%	0.1%	5.10	165	156	58.4%	10.8%	-	0.7%	-
1998	99.8%	-	0.2%	-	-	99.7%	0.1%	0.2%	5.15	167	160	59.6%	17.4%	-	1.4%	-
1999	99.8%	-	0.2%	-	-	99.8%	0.1%	0.2%	5.21	168	164	63.2%	16.4%	-	2.5%	-
2000	99.7%	0.1%	0.2%	-	-	99.7%	0.1%	0.2%	5.22	168	168	63.2%	22.2%	-	2.2%	-
2001	99.7%	0.0%	0.2%	-	-	99.8%	-	0.2%	5.19	167	169	65.3%	26.9%	-	3.3%	-
2002	99.3%	0.3%	0.4%	-	-	99.6%	-	0.4%	5.12	167	173	69.9%	32.8%	-	3.9%	-
2003	99.1%	0.6%	0.3%	-	-	99.7%	-	0.3%	5.13	166	176	73.4%	39.8%	-	2.0%	-
2004	98.9%	0.9%	0.3%	-	-	99.7%	-	0.3%	5.16	170	184	77.1%	43.7%	-	3.6%	-
2005	97.6%	1.9%	0.4%	-	-	99.6%	-	0.4%	5.08	168	183	77.2%	49.4%	1.0%	2.4%	-
2006	97.9%	1.5%	0.6%	-	-	99.4%	-	0.6%	5.17	173	194	81.3%	58.2%	2.0%	3.2%	-
2007	96.7%	3.2%	0.0%	-	-	99.7%	-	0.0%	5.00	167	191	84.6%	63.3%	0.9%	3.6%	-
2008	96.7%	3.3%	0.1%	-	3.1%	96.9%	-	0.1%	4.97	166	194	88.0%	62.7%	2.0%	4.5%	-
2009	96.4%	2.9%	0.6%	-	4.2%	95.2%	-	0.6%	4.70	157	186	92.2%	79.1%	1.8%	4.0%	-
2010	93.6%	5.5%	0.9%	-	9.2%	89.9%	-	0.9%	4.70	158	190	93.8%	91.8%	2.1%	4.1%	-
2011	95.6%	3.4%	0.9%	-	18.4%	80.7%	-	0.9%	4.74	161	200	94.6%	94.9%	1.3%	8.2%	-
2012	94.4%	4.6%	1.0%	-	27.8%	71.2%	-	1.0%	4.54	151	192	98.2%	97.7%	1.7%	9.7%	0.9%
2013	92.8%	6.0%	1.2%	-	37.8%	60.9%	-	1.2%	4.56	150	201	98.3%	98.0%	2.3%	16.0%	2.7%

**Table 5.2.3**

**Engine Characteristics of MY 1975 to MY 2013: Trucks Only**

Model Year	Powertrain			Fuel Delivery Method					Avg. No. of Cylinders	CID	HP	Multi-Valve	VVT	CD	Turbo	Non-Hybrid Stop/Start
	Gasoline	Hybrid	Diesel	Carbureted	GDI	Port	TBI	Diesel								
1975	100.0%	-	-	99.9%	-	-	0.1%	-	7.28	311	142	-	-	-	-	-
1976	100.0%	-	-	99.9%	-	-	0.1%	-	7.31	320	141	-	-	-	-	-
1977	100.0%	-	-	99.9%	-	-	0.1%	-	7.28	318	147	-	-	-	-	-
1978	99.2%	-	0.8%	99.1%	-	-	0.1%	0.8%	7.25	315	146	-	-	-	-	-
1979	98.2%	-	1.8%	97.9%	-	-	0.3%	1.8%	7.05	299	138	-	-	-	-	-
1980	96.5%	-	3.5%	94.9%	-	-	1.7%	3.5%	6.15	248	121	-	-	-	-	-
1981	94.4%	-	5.6%	93.3%	-	-	1.1%	5.6%	6.15	247	119	-	-	-	-	-
1982	90.6%	-	9.4%	89.9%	-	-	0.7%	9.4%	6.26	244	120	-	-	-	-	-
1983	95.2%	-	4.8%	94.6%	-	-	0.6%	4.8%	6.07	232	118	-	-	-	-	-
1984	97.6%	-	2.4%	95.0%	-	2.0%	0.6%	2.4%	5.99	225	118	-	-	-	-	-
1985	98.9%	-	1.1%	86.5%	-	8.9%	3.5%	1.1%	5.97	225	124	-	-	-	-	-
1986	99.3%	-	0.7%	59.4%	-	22.1%	17.8%	0.7%	5.71	212	123	-	-	-	-	-
1987	99.7%	-	0.3%	33.6%	-	33.3%	32.8%	0.3%	5.69	211	131	-	-	-	-	-
1988	99.8%	-	0.2%	12.4%	-	43.2%	44.3%	0.2%	6.00	228	141	-	-	-	-	-
1989	99.8%	-	0.2%	6.5%	-	45.9%	47.5%	0.2%	6.04	234	146	-	-	-	-	-
1990	99.8%	-	0.2%	3.8%	-	55.0%	40.9%	0.2%	6.17	237	151	-	-	-	-	-
1991	99.9%	-	0.1%	1.7%	-	55.3%	42.8%	0.1%	5.95	229	150	-	-	-	-	-
1992	99.9%	-	0.1%	1.6%	-	65.7%	32.6%	0.1%	6.09	236	155	-	-	-	-	-
1993	100.0%	-	-	1.0%	-	71.5%	27.5%	-	6.13	235	160	-	-	-	-	-
1994	100.0%	-	-	0.4%	-	76.2%	23.4%	-	6.19	241	166	5.2%	-	-	-	-
1995	100.0%	-	-	-	-	79.4%	20.6%	-	6.22	245	168	8.0%	-	-	-	-
1996	99.9%	-	0.1%	-	-	99.9%	-	0.1%	6.25	245	179	11.2%	-	-	-	-
1997	100.0%	-	0.0%	-	-	100.0%	-	0.0%	6.47	251	189	11.1%	-	-	-	-
1998	100.0%	-	0.0%	-	-	100.0%	-	0.0%	6.30	244	188	14.8%	-	-	-	-
1999	100.0%	-	0.0%	-	-	100.0%	-	0.0%	6.50	252	199	15.7%	-	-	-	-
2000	100.0%	-	-	-	-	100.0%	-	-	6.48	245	199	18.6%	4.6%	-	-	-
2001	100.0%	-	-	-	-	100.0%	-	-	6.58	249	212	25.9%	9.3%	-	-	-
2002	100.0%	-	-	-	-	100.0%	-	-	6.57	249	223	32.8%	16.0%	-	-	-
2003	100.0%	-	-	-	-	100.0%	-	-	6.56	248	224	34.6%	19.7%	-	0.2%	-
2004	100.0%	0.0%	0.0%	-	-	100.0%	-	0.0%	6.70	258	240	46.2%	32.9%	-	0.8%	-
2005	99.8%	0.1%	0.1%	-	-	99.9%	-	0.1%	6.58	251	242	51.1%	41.2%	0.5%	0.7%	-
2006	98.4%	1.5%	0.1%	-	-	99.9%	-	0.1%	6.50	247	240	58.4%	51.5%	5.9%	0.6%	-
2007	99.1%	0.8%	0.1%	-	-	99.9%	-	0.1%	6.57	253	254	53.3%	48.7%	16.4%	1.0%	-
2008	98.5%	1.3%	0.2%	-	1.1%	98.7%	-	0.2%	6.42	246	254	59.5%	51.6%	13.5%	1.0%	-
2009	98.8%	0.9%	0.3%	-	4.2%	95.5%	-	0.3%	6.23	236	252	66.6%	56.0%	18.4%	1.7%	-
2010	98.8%	0.9%	0.4%	-	6.8%	92.9%	-	0.4%	6.22	237	253	71.5%	70.5%	13.8%	1.8%	-
2011	99.1%	0.4%	0.5%	-	11.3%	88.1%	-	0.5%	6.18	236	271	75.2%	90.7%	20.6%	4.9%	-
2012	98.9%	0.4%	0.7%	-	13.5%	85.8%	-	0.7%	6.16	234	276	80.6%	94.9%	19.6%	6.1%	0.2%
2013	98.6%	1.0%	0.4%	-	18.0%	81.6%	-	0.4%	6.17	233	282	81.1%	96.8%	19.0%	12.8%	0.9%

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## D. TRENDS IN TRANSMISSION TYPES

Transmission technologies have been rapidly evolving in new light duty vehicles. New transmission technologies have been gaining market share, and nearly all transmission types have been increasing the number of gears. Dual clutch transmission (DCTs), continuously variable transmissions (CVTs), and automatic transmissions with greater numbers of gears are increasing production share across the fleet.

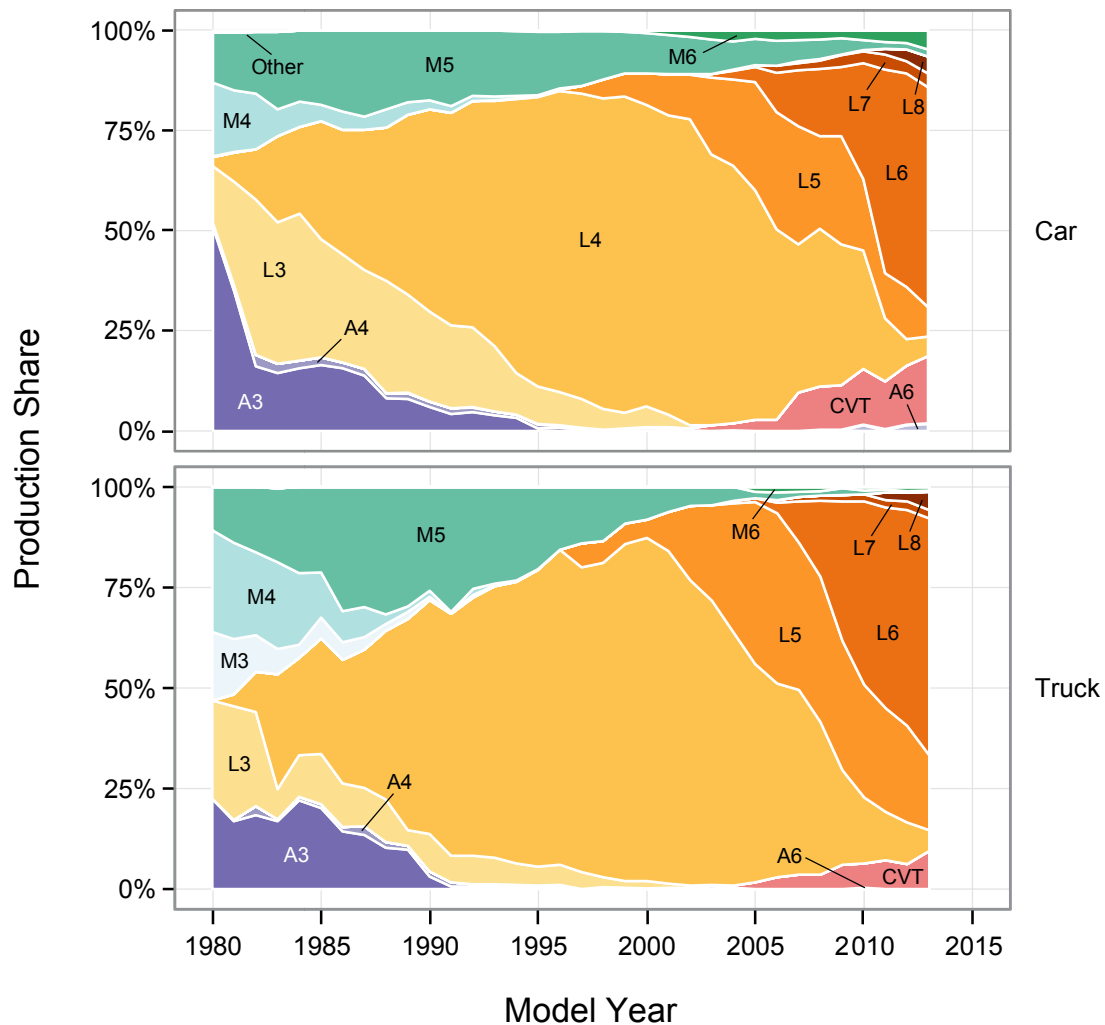
Figure 5.14 shows the evolution of transmission production share for cars and trucks since MY 1980. For this analysis, transmissions are separated into manual transmissions, CVTs, and automatic transmissions. Automatic transmissions are further separated into those with and without lockup mechanisms, which can lock up the torque converter in an automatic transmission under certain driving conditions and improve efficiency.

Dual clutch transmissions are relatively new to the light duty vehicle market. DCTs are essentially automatic transmissions that operate internally much more like traditional manual transmissions. The two main advantages of DCTs are that they can shift very quickly and they can avoid some of the internal resistance of a traditional automatic transmission by eliminating the torque converter. Currently, automaker submissions to EPA do not explicitly identify DCTs as a separate transmission 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's long-term goal is to improve DCT data collection, and to be able to quantify DCTs in future Trends reports.

Figure 5.14 shows transmission production share for the individual car and truck fleets, and begins with MY 1980 because EPA has incomplete data on the number of transmission gears for MY 1975 through 1978. In the early 1980s, 3 speed automatic transmissions, both with and without lockup torque converters (shown as L3 and A3 in Figure 5.14) were the most popular transmissions, but by MY 1985, the 4 speed automatic transmission with lockup (L4) became the most popular transmission, a position it would hold for 25 years. Over 80% of all new vehicles produced in MY 1999 were equipped with an L4 transmission. After MY 1999, the production share of L4 transmissions slowly decreased as L5 and L6 transmissions were introduced into the market. Production of L5 and L6 transmissions combined passed the production of L4 transmissions in MY 2007). Interestingly, 5 speed transmissions were never the leading transmission technology in terms of production share. Currently, L6 transmissions are projected to be installed in nearly 60% of new vehicles produced in MY 2013, and the percentage of vehicle with L6 transmissions is still trending upwards.

**Figure 5.14**

*Transmission Production Share by Model Year*



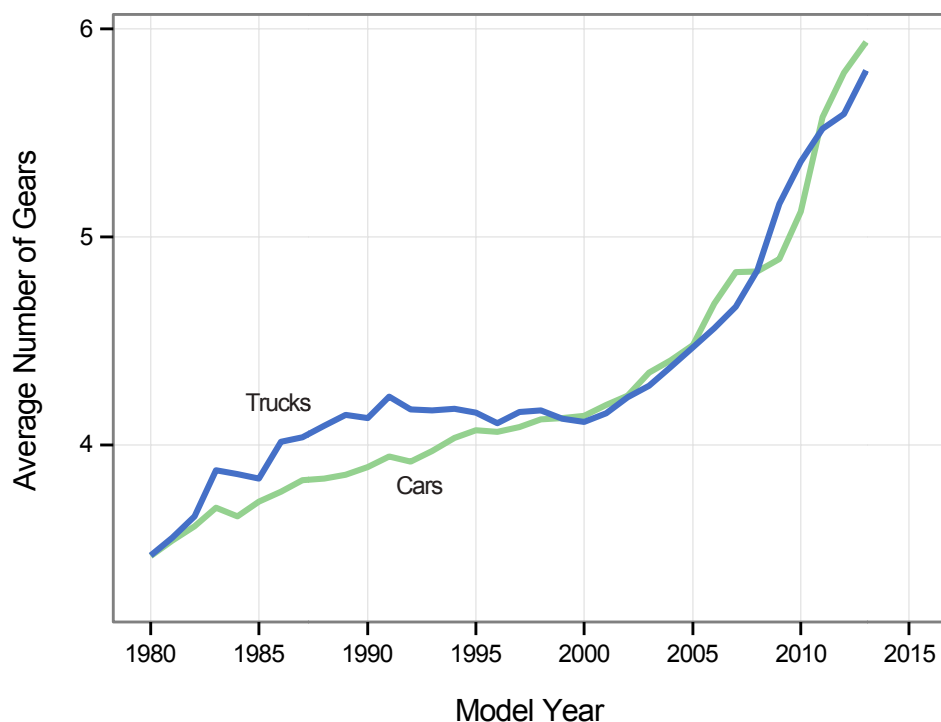
Transmission	Lockup?	Number of Gears	Key
Automatic Semi-Automatic Automated Manual	No	3	A3
		4	A4
		5	A5
		6	A6
	Yes	2	L2
		3	L3
		4	L4
		5	L5
Continuously Variable	—	6	L6
		7	L7
		8	L8
		—	CVT
Manual	—	3	M3
		4	M4
		5	M5
		6	M6
Other	—	—	Other

Continuously variable transmissions have shown a large increase in production. In MY 2012, 11.8% of new vehicles were produced with CVTs, and production is expected to reach 14.3% in MY 2013. This is a significant increase considering that as recently as MY 2006 CVTs were installed on less than 3% of vehicles produced. Automatic transmissions with 7 or more speeds have also been increasing, and are expected to be over 7% of production for MY 2013. Manufacturers are publicly discussing the development of transmissions with as many as 10 or more gears, so this is a trend that the authors also expect to continue.

Figure 5.15 shows the average number of gears in new vehicle transmissions since MY 1980, regardless of transmission type. In MY 1980, the average number of gears in a new vehicle transmission was 3.5. As 4 speed transmissions became more popular, the average number of gears increased to 4.0 by MY 1990, and then stayed relatively constant until MY 2000, largely due to the dominance of 4 speed transmissions. After MY 2000, the average number of gears began to increase much more rapidly until reaching its current level of 5.7 in MY 2012.

**Figure 5.15**

***Average Number of Transmission Gears for New Vehicles (excluding CVTs)***

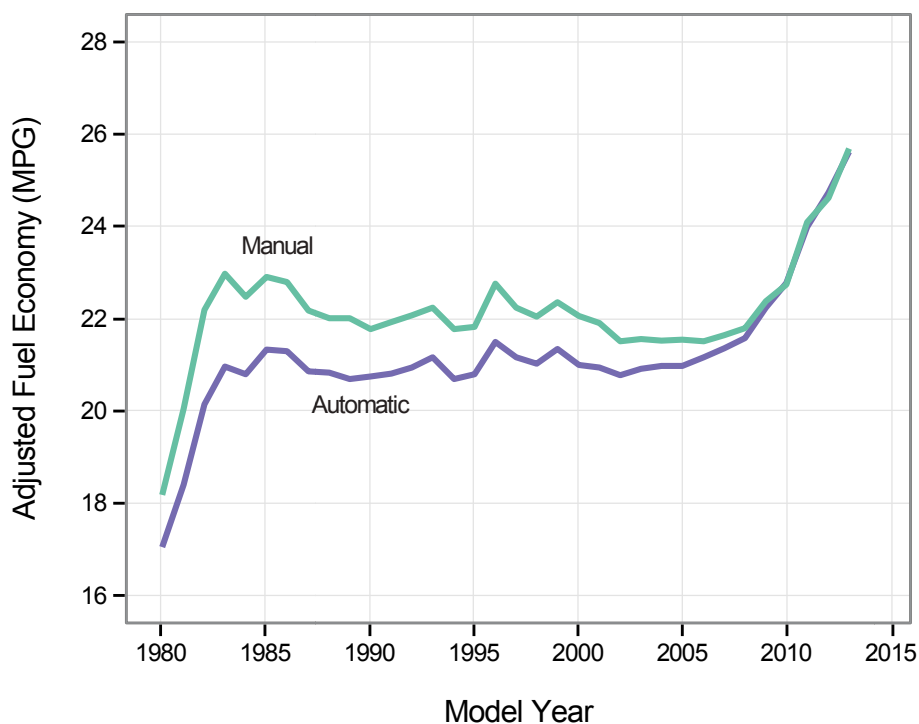


The production of manual transmissions has generally continued to decrease from the peak of nearly 35% of production in MY 1980. In MY 2012, manual transmissions accounted for only 3.6% of total production. Today, manual transmissions are used primarily in small vehicles, some sports cars, and a few pickups.

Generally, automatic transmissions have been less efficient than manual transmissions, largely due to inefficiencies in the automatic transmission torque converter. Figure 5.16 examines this trend over time by comparing the fuel economy of automatic and manual transmission options where both transmissions were available in one model with the same engine. The fuel economy of vehicles with automatic transmissions appears to have increased to a point where it is now approximately the same as the fuel economy of vehicles with manual transmissions. Two contributing factors to this trend are that automatic transmission design has become more efficient (using earlier lockup and other strategies), and the number of gears used in automatic transmissions has increased much quicker than in manual transmission.

**Figure 5.16**

***Comparison of Manual and Automatic Transmission Adjusted Fuel Economy, MY 1980 – MY 2013***



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## E. TRENDS IN DRIVE TYPES

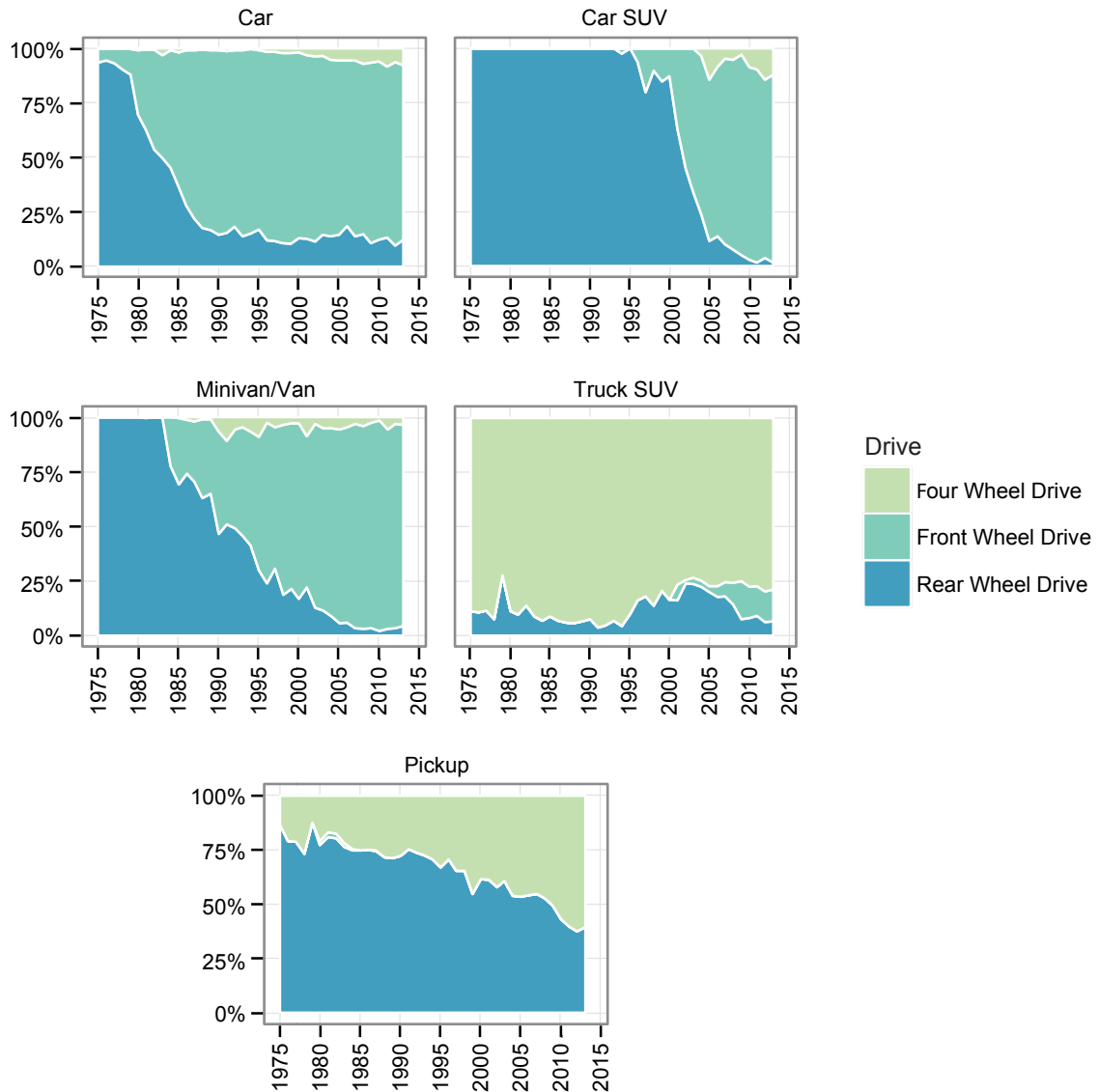
There has been a long and steady trend in new vehicle drive type away from rear wheel drive vehicles towards front wheel drive and four wheel drive vehicles, as shown in Figure 5.17. In MY 1975, over 91% of new vehicles were produced with rear wheel drive. During the 1980s, production of rear wheel drive vehicles fell rapidly, to 26% in MY 1990. Since then, production of rear wheel drive vehicles has continued to decline, albeit at a slower rate, to a projected 13% for MY 2013. Current production of rear wheel drive vehicles is mostly limited to pickup trucks and some performance vehicles.

As production of rear wheel drive vehicles declined, production of front wheel drive vehicles increased. Front wheel drive vehicle production was only 5.3% of new vehicle production in MY 1975, but it became the most popular drive technology across new vehicles in MY 1985, and has remained so for the last 28 years. Since MY 1986, production of front wheel drive vehicles has remained, on average, at approximately 55% of production.

Four wheel drive vehicles (including all wheel drive), have slowly but steadily grown across new vehicle production. From 3.3% in MY 1975 to a projected 26% in MY 2013, four wheel drive production has steadily grown at approximately 0.6% per year, on average. The majority of four wheel drive vehicles are pickup trucks and truck SUVs, but there is also a small but slowly growing number of cars featuring four wheel drive (or more likely) all wheel drive systems.

**Figure 5.17**

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



There are noticeable differences in fuel economy between vehicles with different drive types. Figure 5.18 shows the fuel consumption of MY 2012 vehicles separated by drive type and footprint. Rear wheel drive vehicles and four wheel drive vehicles have on average the same fuel consumption for equivalent footprint vehicles. Front wheel drive vehicles have much lower fuel consumption than rear wheel drive or four wheel drive vehicles of the same footprint. For 45 square foot vehicles, front wheel drive vehicles have fuel consumption about 22% lower. There are certainly other factors involved (the rear wheel drive vehicles are likely more performance oriented, for example), but this is a noticeable trend across new vehicle production. The points in Figure 5.18 are generated for each combination of adjusted fuel consumption and footprint; if there are multiple vehicles with the same

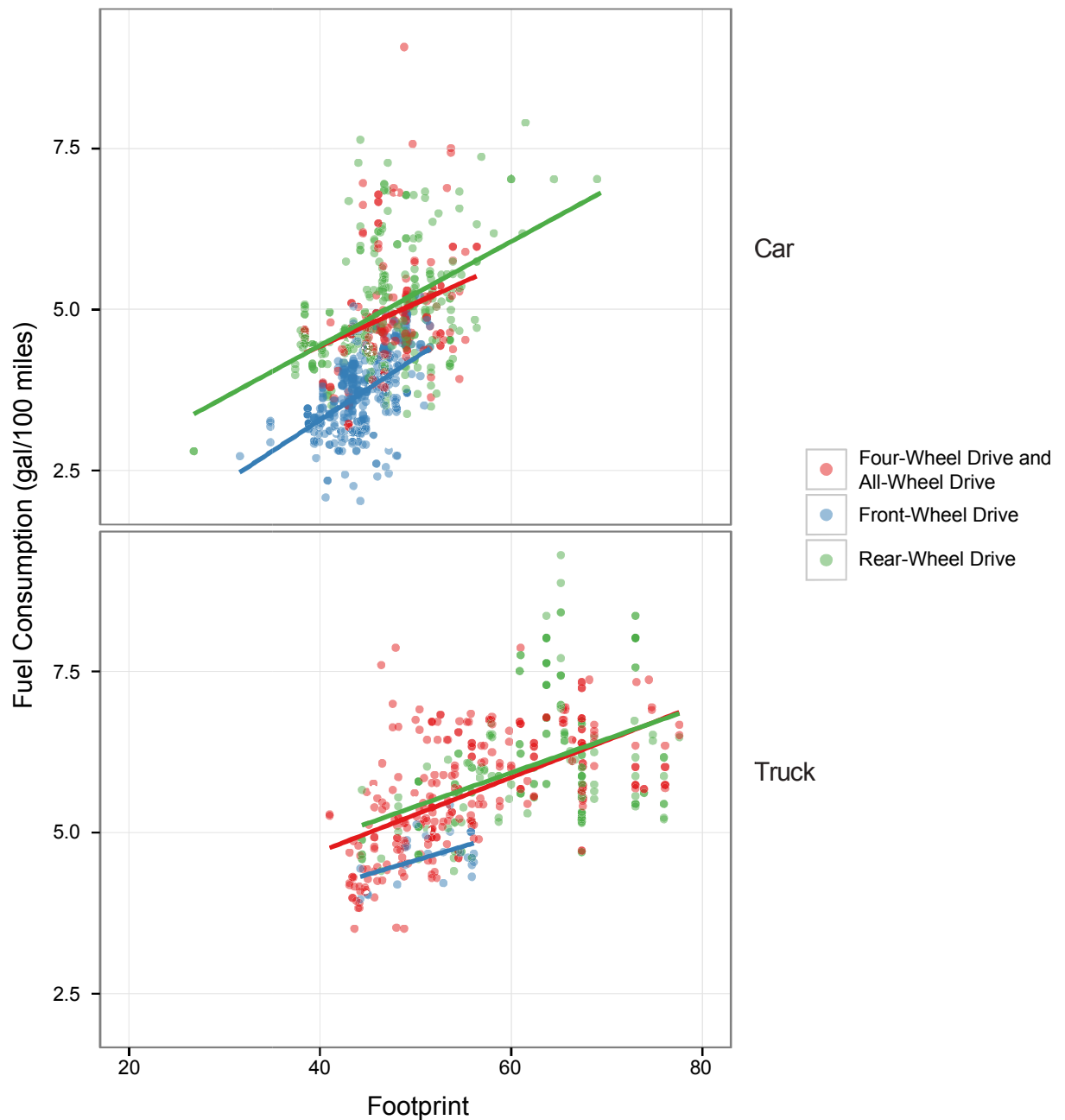
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combination, the points will overlay, and the color will be darker.

Tables 5.3.1, 5.3.2, and 5.3.3 summarize transmission and drive technology production data by year for the combined car and truck fleet, cars only, and trucks only, respectively.

### Figure 5.18

*Differences in Adjusted Fuel Consumption Trends for FWD, RWD, and 4WD/AWD Vehicles*



**Table 5.3.1**

*Transmission and Drive Characteristics of MY 1975 to MY 2013: Both Cars and Trucks*

Model Year	Manual	Automatic with Lockup	Automatic without Lockup	CVT	4 Gears of 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%	-	-	-	-	-	-	-	5.3%	91.4%	3.3%
1976	20.9%	-	79.1%	-	-	-	-	-	-	-	4.6%	90.6%	4.8%
1977	19.8%	-	80.2%	-	-	-	-	-	-	-	5.5%	89.8%	4.7%
1978	22.7%	5.5%	71.9%	-	-	-	-	-	-	-	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	3.6%	83.7%	1.1%	11.6%	8.0%	18.2%	56.7%	5.5%	11.6%	5.7	61.4%	10.9%	27.7%
2013	4.7%	79.9%	1.3%	14.2%	5.0%	12.6%	60.7%	7.5%	14.2%	5.9	58.7%	12.5%	28.8%

**Table 5.3.2**

**Transmission and Drive Characteristics of MY 1975 to MY 2013: Cars Only**

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%	-	-	-	-	-	-	-	6.5%	93.5%	-
1976	17.2%	-	82.8%	-	-	-	-	-	-	-	5.8%	94.2%	-
1977	16.9%	-	83.1%	-	-	-	-	-	-	-	6.8%	93.2%	-
1978	19.9%	7.1%	73.0%	-	-	-	-	-	-	-	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	4.9%	78.8%	1.7%	14.6%	6.7%	14.8%	57.8%	6.0%	14.6%	5.8	83.8%	8.8%	7.4%
2013	6.5%	74.7%	2.0%	16.7%	5.0%	9.0%	61.3%	8.0%	16.7%	5.9	80.8%	10.6%	8.7%

**Table 5.3.3**

**Transmission and Drive Characteristics of MY 1975 to MY 2013: Trucks Only**

Model Year					4 Gears or Fewer		5 Gears	6 Gears	7 Gears or More		Average Number of Gears	Front Wheel Drive	Rear Wheel Drive	Four Wheel Drive
	Manual	Automatic with Lockup	Automatic without Lockup	CVT										
1975	36.9%	-	63.1%	-	-	-	-	-	-	-	-	-	82.8%	17.2%
1976	34.7%	-	65.3%	-	-	-	-	-	-	-	-	-	77.0%	23.0%
1977	31.6%	-	68.4%	-	-	-	-	-	-	-	-	-	76.2%	23.8%
1978	32.1%	-	67.9%	-	-	-	-	-	-	-	-	-	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%	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%	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%	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%	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%	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%	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%	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%	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%	5.9%	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%	7.3%	5.5	17.7%	17.3%	65.0%
2012	1.4%	92.4%	-	6.2%	10.3%	24.4%	54.6%	4.4%	6.2%	6.2%	5.6	20.9%	14.8%	64.4%
2013	1.2%	89.2%	-	9.5%	5.2%	19.0%	59.7%	6.6%	9.5%	9.5%	5.8	18.8%	16.1%	65.1%

# 6 Technology Adoption Rates

Technology available in new vehicles is continually changing and evolving. Innovative new technologies are regularly being introduced, replacing older and less effective technologies. This continuous cycle of improvement and re-invention has been the driving force behind nearly all of the trends examined in this report. Section 5 detailed many specific technological changes that have taken place since 1975. This section provides a detailed look at the rate at which the automotive industry as a whole has adopted new technology, the rate at which individual manufacturers have adopted technology, and the differences between the overall industry and manufacturer adoption rates.

It is important to note that this section focuses on “successful” technologies, those technologies that have achieved widespread use by multiple manufacturers and, in some cases, by all or nearly all manufacturers. This section does not look at “unsuccessful” technologies which never achieved widespread use. One consequence of a competitive and technology-driven enterprise like the automobile industry is that there will certainly be a number of unsuccessful technologies. A technology may prove to be unsuccessful for one or more of many reasons: cost, effectiveness, tradeoffs with other vehicle attributes, consumer acceptance, or, in some cases, the technology may be successful for a time but simply be displaced by a newer and better technology. The Trends database does not provide data on why technologies fail, but it does provide data on how quickly successful technologies can penetrate the marketplace, and the latter is the subject of this section.

One inherent limitation in using the Trends database to track the introduction of new technologies is that there is often a lag between the introduction of a new technology and the modifications to the formal EPA vehicle compliance information system that are necessary to ensure proper tracking of the new technology. Accordingly, for many of the technologies discussed in this section, the Trends database did not begin tracking production share data until after the technologies had achieved some limited market share. For example, as shown in Tables 5.2.2 and 5.2.3, Trends did not begin to track multi-valve engine data until MY 1986 for cars and MY 2004 for trucks, and in both cases multi-valve engines had captured about 5% market share by that time. Likewise, turbochargers were not tracked in Trends until MY 1996 for cars and MY 2003 for trucks, and while turbochargers had less than a 1% market share in both cases at that time, it is likely that turbochargers had exceeded 1% market share in the late 1980s. Cylinder deactivation was utilized by at least one major manufacturer in the 1980s, well before being tracked by Trends.

Accordingly, this section best addresses the question, “How quickly have successful technologies moved from limited use to widespread use,” for both industry-wide and for individual manufacturers, and does not address other issues such as how long it takes for technologies to be developed or achieve limited market share, or why many technologies fail to ever achieve widespread use.

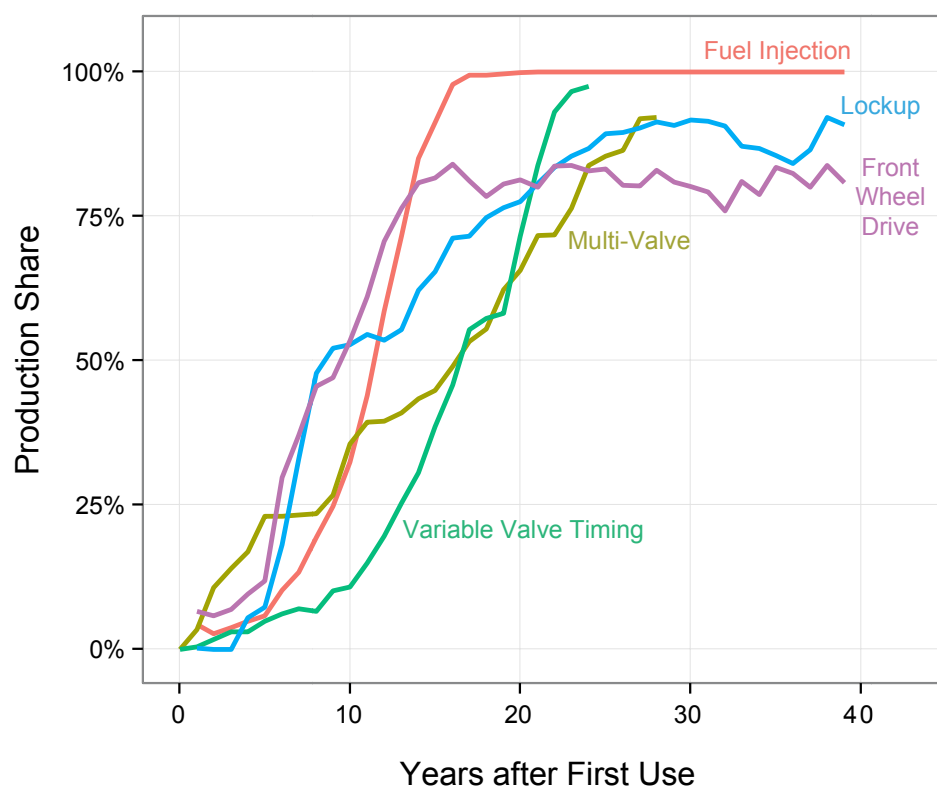
## A. INDUSTRY-WIDE TECHNOLOGY ADOPTION SINCE 1975

As explored in Section 5, automotive technology has continually evolved since 1975, resulting in vehicles that have better fuel economy, more power, and more content. One of the most notable examples of this continual improvement is the evolution of fuel delivery in gasoline engines. Carburetors, the dominant fuel delivery system in the late 1970s and early

1980s, were replaced by port fuel injection systems, which in turn are being replaced by direct injection systems. This trend, and the substantial impact on engine fuel economy and performance, is explored in Figures 5.4 and 5.5.

Figure 6.1 has been published in this report for many years, and has been widely cited in the literature. This figure shows industry-wide adoption rates for five mature technologies in passenger cars that have achieved wide adoption across the entire industry. To provide a common scale, the adoption rates are plotted in terms of the number of years after the technology was first introduced into the market (in some cases very limited use of the technology may have occurred before being tracked in this report). The five technologies included in Figure 6.1 are fuel injection (including throttle body, port, and direct injection), front wheel drive, multi-valve engines (i.e., engines with more than two valves per cylinder), engines with variable valve timing, and lockup transmissions. For each of these technologies, it took at least a decade to attain an industry wide production fraction of 60% after first use, and another five to ten years to reach maximum penetration. While some of these technologies may eventually be adopted in 100% of new vehicles, there may be design reasons that other technologies, like front-wheel drive, will likely never be adopted in all vehicles. Figure 6.1 shows that it has historically taken about 20 years for the industry to fully adopt a new technology after it was first introduced into the marketplace.

**Figure 6.1**  
*Industry-Wide Car Technology Penetration After First Significant Use*



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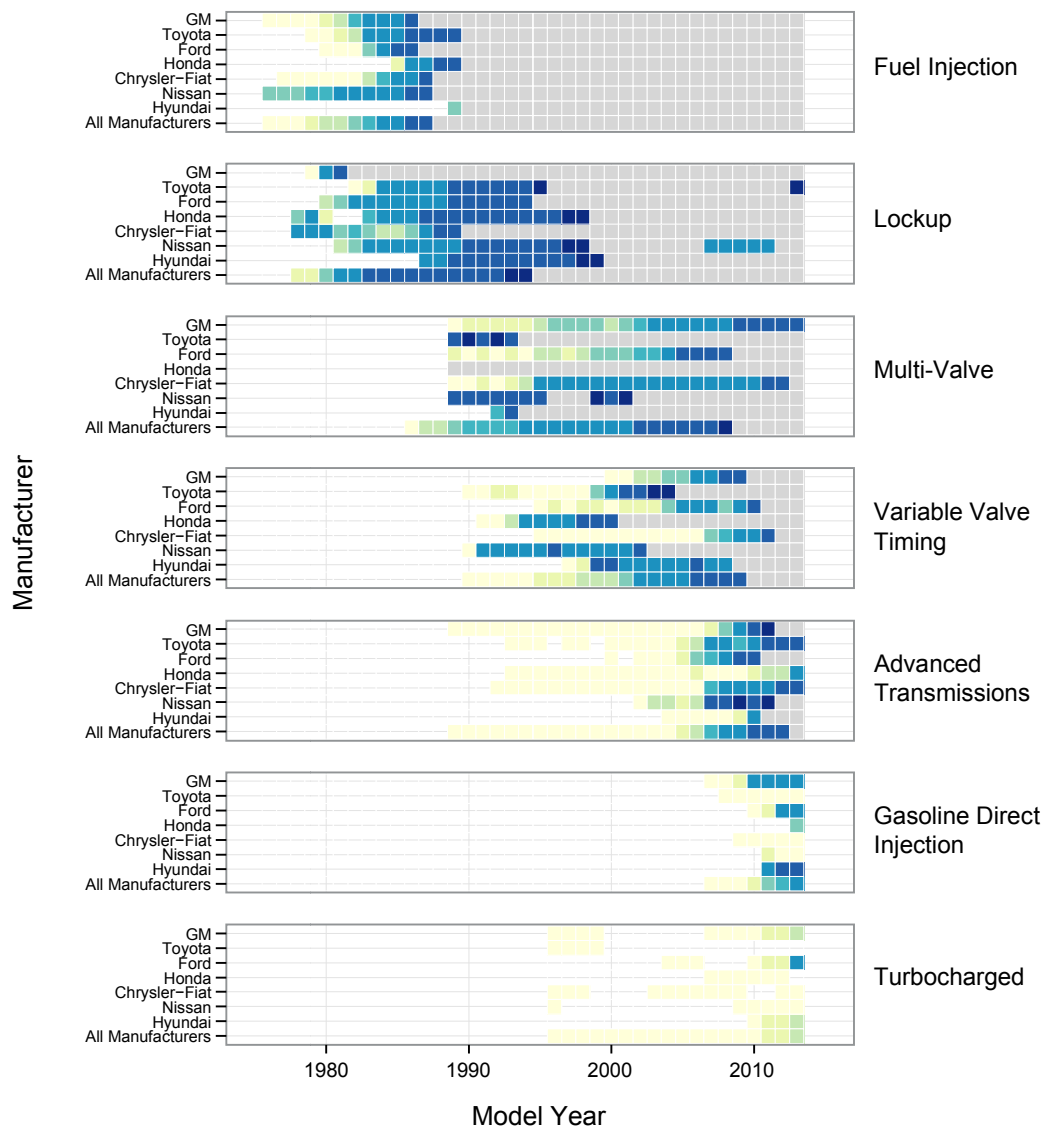
## B. TECHNOLOGY ADOPTION BY MANUFACTURERS

The rate at which the overall industry adopts technology, as shown in Figure 6.1, is actually determined by how quickly, and at what point in time, individual manufacturers adopt the technology. While it is important to understand the industry wide adoption rates over time, the trends in Figure 6.1 mask the fact that not all manufacturers introduced these technologies at the same time, or at the same rate. The “sequencing” of manufacturers introducing new technologies is an important aspect of understanding the overall industry trend of technology adoption.

Figure 6.2 begins to disaggregate the industry-wide trends shown in Figure 6.1 to examine how individual manufacturers have adopted new technologies. The first four technologies shown in Figure 6.2, which are also shown in Figure 6.1, have reached (or are near) full market penetration for all manufacturers. Also included in Figure 6.2 are three additional technologies that are quickly increasing penetration in new vehicle production, and are projected to be installed on at least 15% of all MY 2013 vehicles. These technologies are advanced transmissions (defined here as transmissions with 6 or more speeds and CVTs), gasoline direct injection (GDI) systems, and turbocharged engines. Figure 6.2 shows the percent penetration of each technology over time for the industry as a whole, and individually for the top seven manufacturers by sales. Figure 6.2 focuses on the length of time each manufacturer required to move from initial introduction to 80% penetration for each technology. After 80% penetration, the technology is assumed to be largely incorporated into the manufacturer’s fleet changes between 80% and 100% are not highlighted.

**Figure 6.2**

**Manufacturer Specific Technology Adoption over Time for Key Technologies**



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The technologies shown in Figure 6.2 vary widely in terms of complexity, application, and when they were introduced into the market. For each technology, there are clearly variations between manufacturers, both in terms of when they began to adopt a technology, and the rate with which they adopted the technology. The degree of variation between the manufacturers also varies by technology.

The data for variable valve timing, for example, shows that several manufacturers were able to adopt the technology much faster than the overall industry rate might suggest. As shown in Figure 6.1, it took a little over 20 years for VVT to reach 80% penetration across the industry as a whole. However, Figure 6.2 shows that of the top 7 manufacturers, several were individually able to implement at least 80% VVT in significantly less time than the overall industry. Therefore, it was not the rate of technology adoption, but rather the staggered implementation timing between manufacturers that resulted in the longer industry average.

Fuel injection systems show the least amount of variation in initial adoption timing between manufacturers, which when combined with the rapid rates of adoption resulted in a faster adoption by the industry overall (see Figure 6.1) than technologies like VVT. One important driver for adoption of fuel injection was increasingly stringent emissions standards. Advanced transmissions, and turbocharged engines, have been available in small numbers for some time, but have very rapidly increased market penetration in recent years. Turbocharged engines and GDI systems are only recently beginning to reach significant parts of the market, and while both technologies are showing variation in adoption between manufacturers, it is too early to tell how, and if, they will ultimately be adopted by the industry.

A different way to look at technology adoption patterns is to look at the maximum rate of change that manufacturers have been able to achieve for each technology. Figure 6.3 uses this approach to look at technology adoption for the same manufacturers and technologies examined in Figure 6.2. For each technology and manufacturer, Figure 6.3 shows the maximum change in technology penetration that each manufacturer achieved over any 3 year and 5 year period.

There are many examples of manufacturers that were able to apply new technology to a large percentage of their new vehicles in only 3 to 5 years. For example, each of the 7 manufacturers was able to increase the percentage of their new vehicles with fuel injection systems by over 50% in 5 years, and 3 were able to increase the penetration of VVT by more than 85% in that time. For VVT, all 7 of the manufacturers achieved close to or above a 70% penetration change in a 5 year period, but the industry as a whole only achieved a 40% change over any 5 years. This data reinforces the conclusion that the staggered timing of VVT adoption by individual manufacturers resulted in an overall industry adoption period that is longer than actually required by many (if not most) manufacturers.

One important note for Figure 6.3 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 was using multi-valve engines throughout its fleet when EPA started monitoring multi-valve data in the mid-1980s). Data for “rates of increase” in these and similar cases are artificially low.

**Figure 6.3**

*Maximum Three and Five Year Adoption for Key Technologies*

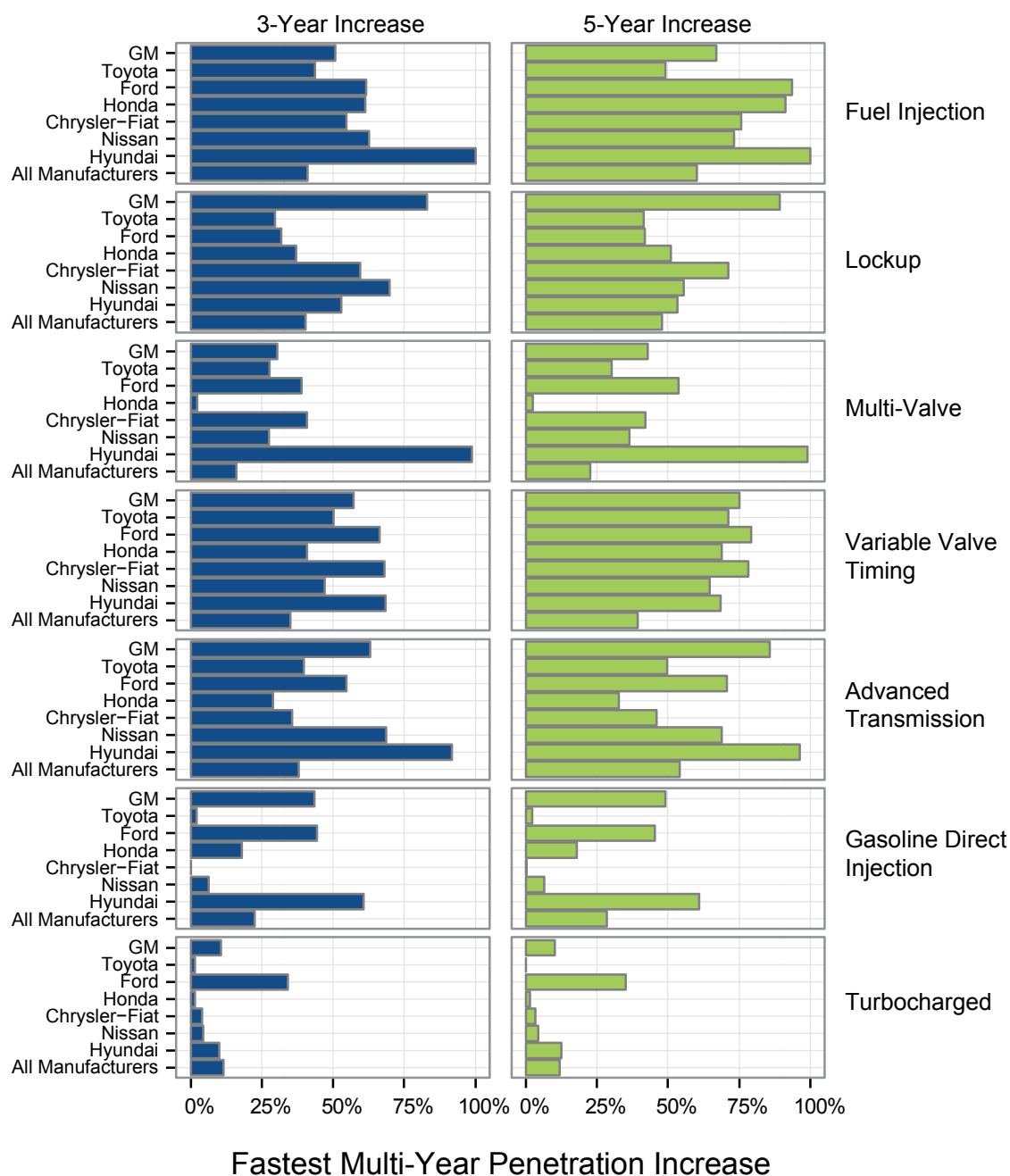
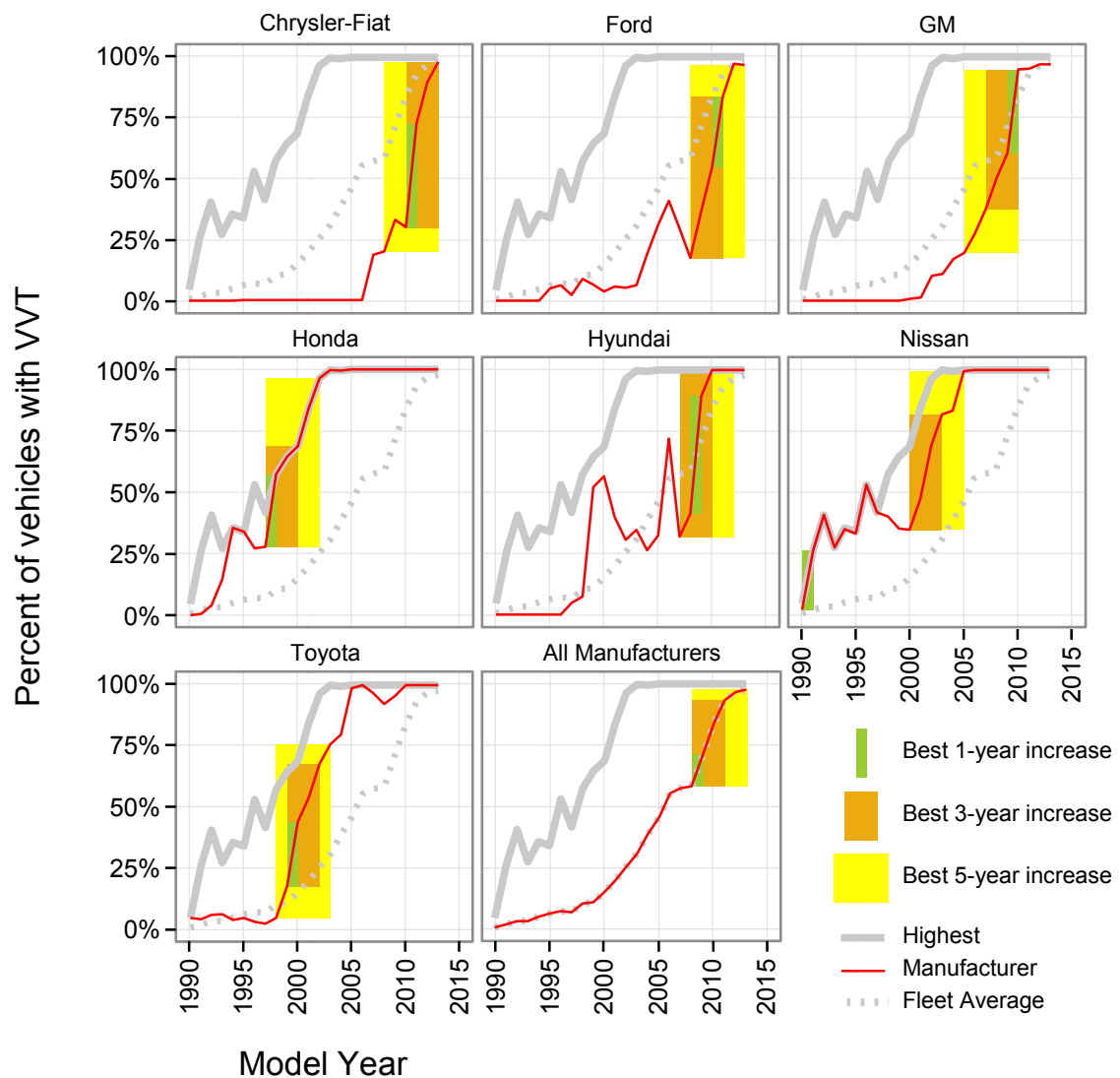


Figure 6.4 takes a more detailed look at the introduction of VVT by manufacturers by combining aspects of both Figure 6.2 and Figure 6.3. For each manufacturer, Figure 6.4 shows the actual percent penetration of VVT over time (solid red line) versus the average for all manufacturers (dotted grey line), and compared to the maximum penetration by any manufacturer (solid grey line) over time. Figure 6.4 also shows when the largest increase in VVT penetration over any 1, 3, and 5 year period occurred as green, orange, and yellow boxes.

**Figure 6.4**

**VVT Adoption Details by Manufacturer**



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VVT was first tracked in this report for cars in MY 1990 and for trucks in MY 2000. Between MY 1990 and MY 2000, there may be a small number of trucks with VVT that are not accounted for in the data. However, the first trucks with VVT produced in larger volumes (greater than 50,000 vehicles) were produced in MY 1999 and MY 2000, so the discrepancy is not enough to noticeably alter the trends in the previous figures.

As shown in Figure 6.2, each manufacturer clearly followed a unique trajectory to adopt VVT. It took over 20 years for all new vehicles to adopt VVT; however it is also very clear that individual manufacturers were able to adopt VVT across their own vehicle offerings much faster. All of the manufacturers shown in Figure 6.4 were able to adopt VVT across the vast majority of their new vehicle offerings in under 15 years, and many accomplished that feat in under 10 years. As indicated by the yellow rectangles in Figure 6.4, several manufacturers increased their penetration rates of VVT by 75% or more over a 5-year period. It is also important to note that every manufacturer shown was able to adopt VVT into new vehicles at a rate faster than the overall industry data would imply. As noted earlier, the industry average represents both the rate that manufacturers adopted VVT and the effect of manufacturers adopting the technology at different times. Accordingly, the industry average shown in Figure 6.1 and Figure 6.4 does not represent the average pace at which individual manufacturers adopted VVT, which is considerably faster.

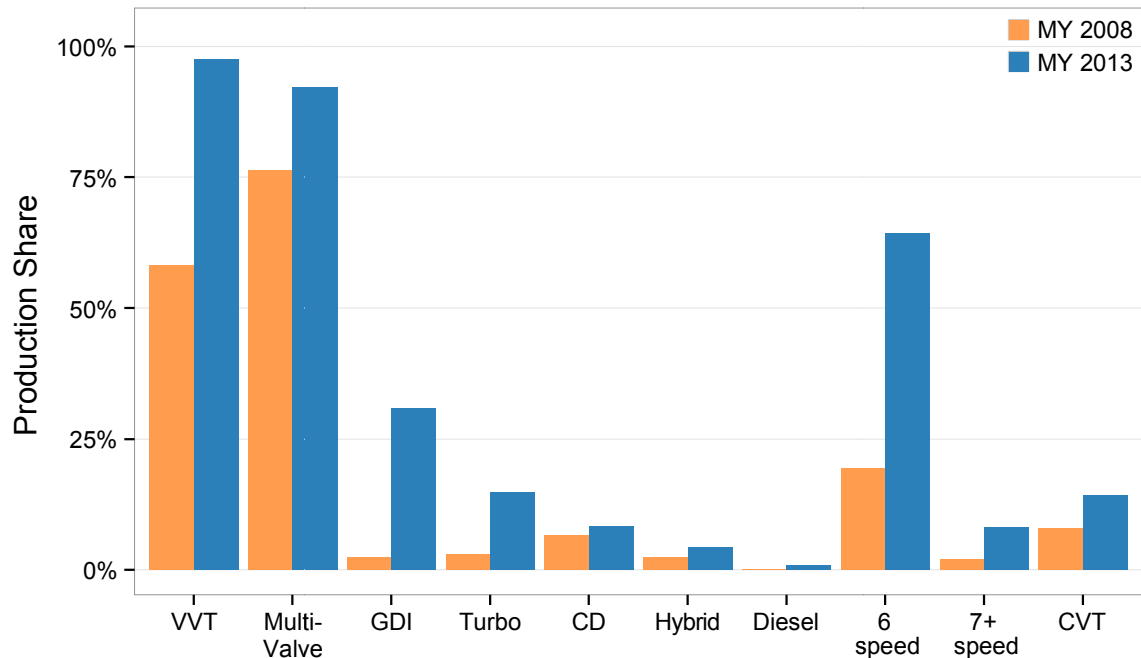
Figures 6.2 through 6.4 examine manufacturer specific technology adoption in different ways, but all three clearly support the conclusion that some manufacturers have been able to adopt technology much faster than industry wide data suggests, and that there is significant variation in how individual manufacturers have adopted technology.

## C. TECHNOLOGY ADOPTION IN THE LAST 5 YEARS

Over the last five years, engines and transmissions have continued to evolve and adopt new technologies. Figure 6.5 shows the penetration of several key technologies in MY 2008 and the projected penetration for each technology in MY 2013 vehicles. Over that five year span, VVT is projected to increase almost 40%, GDI by almost 30%, and 6 speed transmissions by over 40% across the entire industry. These are large changes taking place over a relatively short time. As discussed in the previous section, there are likely manufacturer specific changes in this timeframe that are even more impressive.

**Figure 6.5**

*Five Year Change in Light Duty Vehicle Technology Penetration Share*



There are many factors outside the scope of this report that influence the rate and timing of when technology is adopted by individual manufacturers (e.g. price, manufacturing constraints, regulatory drivers, etc.) While no attempt is made here to identify the underlying causes, it is important to recognize that any variation between manufacturers for given technologies can be masked when only evaluating industry-wide trends. As the data in this section suggest, adoption by individual manufacturers is generally more rapid than has previously been reported for the overall industry, and it is clear that the penetration of important technologies has grown significantly over the last 5 years.

# 7 Alternative Fuel Vehicles

This section addresses original equipment manufacturer (OEM)<sup>1</sup> vehicles that are dedicated to, or are designed and expected to frequently operate on, alternative fuels. The main focus of this section will be preliminary data on MY 2013 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 2013 and more planned for subsequent model years. Often, alternative fuel vehicle models are initially introduced in selected areas of the country, but we expect that many alternative fuel vehicle models will be available on a nationwide basis in the next few years.

## A. METHODOLOGY

The Trends analyses provided in Sections 2-6 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 small number of OEM vehicles that predominantly use alternative fuels would have a very small impact on the analyses in Sections 2-6. In addition, complexities arise when analyzing trends of certain alternative fuel vehicles, particularly for those fuels that are not sold by the gallon.

Vehicles that can operate on both a petroleum-based fuel and an alternative fuel pose another analytical challenge. There are currently a large number of “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. Historically, these vehicles have operated predominantly on gasoline (and ethanol-gasoline blends with low levels of ethanol) only.<sup>2</sup> 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 the analysis in Sections 2-6 including data from FFV operation on gasoline and excluding data from FFV operation on E85. If, in the future, FFVs operate more often on E85 fuel, EPA will consider adding FFVs to this alternative fuel vehicle analysis.

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. While it is almost certain that PHEVs and DF-CNG vehicles will use at least some

<sup>1</sup> 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.

<sup>2</sup> 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).

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gasoline, there are two factors that strongly suggest that most owners of these vehicles will 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 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 analysis in Sections 2-6.

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 analysis or in this separate alternative fuel vehicle section.

The number of alternative fuel vehicles produced is still too small (less than 0.5 percent of MY 2012 production) to have a large impact on the overall technology, CO<sub>2</sub> emissions, and fuel economy trends; however, many additional alternative fuel vehicle models are expected to enter the market over the next few years.<sup>3</sup> At some point in the future, as the sales of alternative fuel vehicles continue to increase, EPA will consider merging this alternative fuel vehicle data into the primary Trends analysis.

This section (and sections 8 and 9) reports combined fuel economy and CO<sub>2</sub> values based on the 55% city/45% highway weighting used on the Fuel Economy and Environment labels and for GHG emissions and fuel economy standards compliance, and not on the 43% city/57% highway weighting used for adjusted fuel economy values throughout sections 2-6 of this report.

## B. 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, though those limited production vehicles have in some cases created significant consumer and media interest.<sup>4</sup> 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 fuel vehicles from less than 1,200 in MY 2010 to well over 15,000 in MY 2011. While these vehicles still represented a very limited portion of overall new vehicle production (approximately 12 million in MY 2011), this change is notable. This upward trend continued in MY 2012. In MY 2012 there were even more alternative fuel vehicle models offered, and the combined production of these vehicles was about 55,000. Although this still only represents 0.4% of

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<sup>3</sup> For example, see list of potential future EVs and PHEVs at [fuelconomy.gov/feg/evnews.shtml](http://fuelconomy.gov/feg/evnews.shtml)

<sup>4</sup> Millions of ethanol FFVs have been sold in recent years, but these vehicles have operated primarily on gasoline.

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total vehicle sales for MY 2012 (approximately 13.5 million), the continued increase in alternative fuel vehicle production is impressive.

In the mid-1990s, the state of California passed legislation creating the (Zero Emission Vehicle) ZEV 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 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 electric vehicles (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 in MY 2000, with total production of about 3,500 vehicles. Most of these vehicles were produced in small volumes and only for a few model years. However, 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.

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 EV and the Chevrolet Volt PHEV. The Volt and Leaf had combined production of nearly 13,000 vehicles in MY 2011, so production of these two vehicles alone tripled the total number of alternative fuel vehicles produced in MY 2011 relative to any model year since 1995. Production of the Volt and Leaf continued to climb in MY 2012, to nearly 30,000 combined vehicles.

In MY 2012<sup>5</sup>, there were numerous additional entries into the electric vehicle and plug-in hybrid electric vehicle market. In addition to the Nissan Leaf, new electric vehicle models included the Ford Focus EV and Transit Connect EV, the Mitsubishi i-MiEV, the Tesla Model S, and the Toyota RAV4 EV. In addition to the Chevy Volt, new PHEVs introduced in MY 2012 included the Fisker Karma and the Toyota Prius Plug-in. Over 50,000 EVs and PHEVs were produced in MY 2012, compared to just 278 in MY 2010.

The Honda Civic Natural Gas model also set a production record in MY 2012, with production of over 3,300, or nearly triple the production of any other year. When it was initially introduced, the Honda Civic Natural Gas was available only to fleet customers, but it subsequently became available for retail in California, New York, Utah, and Oklahoma.

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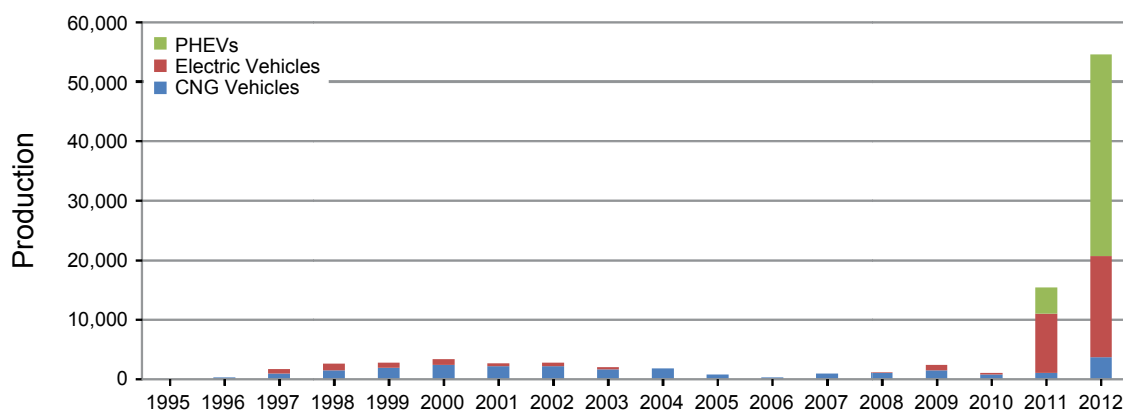
<sup>5</sup> Two fuel cell vehicles were also offered in MY 2012, the Honda FCX Clarity and Mercedes-Benz F-Cell. These vehicles were available in limited lease and/or demonstration programs.

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Availability of the MY 2012 Civic Natural Gas was increased to 36 states, with more possible.<sup>6</sup> While the production trend of the Civic Natural Gas is positive, other OEMs have been reluctant to directly offer CNG vehicles, and the Civic Natural Gas is once again the only OEM natural gas vehicle on the market.

Figure 7.1 shows the historical sales of EVs, PHEVs, and CNG vehicles over the last 18 years (we do not have reliable data on alternative fuel vehicles back to 1975). This figure was compiled from several data sources, including manufacturer CAFE reports, Ward's, and publically available production data. Figure 7.1 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 7.1**  
*Historical Production of EVs, PHEVs, and Dedicated CNG Vehicles*



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<sup>6</sup> Ward's Automotive, <http://wardsauto.com/sales-amp-marketing/honda-forecasts-steady-sales-pioneering-cng-civic>, last accessed December 2013.

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## C. MY 2013 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 important for alternative fuel vehicles, instead of analyzing aggregated data about new vehicles sales. Table 7.1 shows the alternative fuel vehicles available from OEMs in MY 2013, as well as the powertrain type of each vehicle, inertia weight class (IWT)<sup>7</sup>, and footprint. These vehicles constitute a wide array of vehicle design, size, and function.

**Table 7.1**

**MY 2013 Alternative Fuel Vehicle Classification and Size**<sup>8</sup>

Make	Model	Fuel or Powertrain	Car or Truck	IWT (lbs)	Footprint (sq ft)
Fiat	500e	EV	Car	3000	34.9
Ford	Focus	EV	Car	4000	43.5
Honda	Fit	EV	Car	3500	39.6
Mitsubishi	i	EV	Car	2750	38.4
Nissan	Leaf	EV	Car	3500	44.7
Scion	iQ	EV	Car	2750	31.6
Smart	Fortwo	EV	Car	2250	26.8
Tesla	Model S (85kW-hr)	EV	Car	4500	53.5
Tesla	Model S (60kW-hr)	EV	Car	4500	53.5
Toyota	RAV4	EV	Car	4000	44.6
Chevrolet	Volt	PHEV	Car	4000	44.6
Ford	C-MAX	PHEV	Car	4000	43.8
Ford	Fusion	PHEV	Car	4000	45.9
Toyota	Prius	PHEV	Car	3500	44.2
Honda	Civic	CNG	Car	3000	43.5

As shown in Table 7.1, there are nine EVs available in MY 2013 (the two Tesla S variants are considered one model, as explained in Section 8), four PHEVs, and one dedicated CNG vehicle. The footprint of the largest vehicle, the Tesla S, is double that of the smallest vehicle, which is the Smart Fortwo. The weight of these vehicles also significantly varies, from an IWT of 2750 to 4500. For each of the vehicles listed in Table 7.1, Table 7.2 shows the label driving range, and introduces the concept of a utility factor for PHEVs (explained below).

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<sup>7</sup> Each inertia weight class represents a range of loaded vehicle weights, or vehicle curb weights plus 300 pounds. Vehicle inertia weight classes are in 250-pound increments for inertia weight classes that are less than 3000 pounds, while inertia weight classes over 3000 pounds are divided into 500-pound increments.

<sup>8</sup> 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.

**Table 7.2****MY 2013 Alternative Fuel Vehicle Powertrain and Range**

Make	Model	Fuel or Powertrain	Alternative Fuel Range miles	Total Range miles	Utility Factor
Fiat	500e	EV	87	87	-
Ford	Focus	EV	76	76	-
Honda	Fit	EV	82	82	-
Mitsubishi	i	EV	62	62	-
Nissan	Leaf	EV	75	75	-
Scion	iQ	EV	38	38	-
Smart	Fortwo	EV	68	68	-
Tesla	Model S (85kW-hr)	EV	265	265	-
Tesla	Model S (60kW-hr)	EV	208	208	-
Toyota	RAV4	EV	103	103	-
Chevrolet	Volt	PHEV	38	380	0.66
Ford	C-Max	PHEV*	21	620	0.48
Ford	Fusion	PHEV*	21	620	0.48
Toyota	Prius	PHEV*	11**	540	0.29
Honda	Civic	CNG	-	-	-

\* PHEVs that operate in blended mode.

\*\* The Prius required a small amount of gasoline during the alternative fuel range.

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 energy from the electric grid that is stored in the battery and relies on the gasoline internal combustion engine. In charge sustaining mode, the vehicle will operate much like a traditional hybrid.

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 2013 PHEV, Table 7.2 shows the estimated range on alternative fuel and estimated total range. For PHEVs like the

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Chevrolet Volt, which cannot operate in blended mode, the alternative fuel range represents the estimated range operating in electric only mode. However, for PHEVs that operate in a blended mode, the alternative fuel range represents the estimated range of the vehicle operating in both electric only *and* blended mode, due to the design of the vehicle. For example, the Prius uses electricity stored in its battery and a small amount of gasoline to achieve an alternative fuel range of 11 miles. The C-Max and Fusion PHEVs did not use any gasoline to achieve an alternative fuel range of 21 miles on EPA test cycles; however driving conditions outside those represented on the EPA test cycles (e.g., more aggressive accelerations, higher speeds, and air conditioning or heater operation) would likely cause these vehicles to operate in a blended mode instead of an all electric mode. Table 7.2 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 one vehicle that operates on CNG has a traditional internal combustion engine. 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 (although 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, especially for stations powerful enough to be capable of "fast" charging.<sup>9</sup> Table 7.2 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 7.3 shows four energy-related metrics for the MY 2013 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 Economy and Environment labels beginning in MY 2013<sup>10</sup>. 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

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<sup>9</sup> 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.

<sup>10</sup> These values represent a 55% city/45% highway weighting, consistent with the methodology used for labeling vehicles.

economy in terms of miles per gallon, and it is the primary efficiency metric in this report. To enable this comparison for alternative fuel 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 7.3**

**MY 2013 Alternative Fuel Vehicle Fuel Economy Label Metrics**

Make	Model	Fuel or Powertrain	Consumption (kW-hrs/100 miles)	Electric Only	Gasoline Only Fuel Economy (MPG)	Overall Fuel Economy (MPGe)
				Fuel Economy (MPGe)		
Fiat	500e	EV	29	116	-	116
Ford	Focus	EV	32	105	-	105
Honda	Fit	EV	29	118	-	118
Mitsubishi	i	EV	30	112	-	112
Nissan	Leaf	EV	29	115	-	115
Scion	iQ	EV	28	121	-	121
Smart	Fortwo	EV	32	107	-	107
Tesla	Model S (85kW-hr)	EV	38	89	-	89
Tesla	Model S (60kW-hr)	EV	35	95	-	95
Toyota	RAV4	EV	44	76	-	76
Chevrolet	Volt	PHEV	35	98	37	62
Ford	C-Max	PHEV	34	100	43	58
Ford	Fusion	PHEV	34	100	43	58
Toyota	Prius	PHEV	29*	95**	50	58
Honda	Civic	CNG	-	-	-	31

\* 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 mpge value reflects blended operation on both electricity and gasoline.

The fourth column in Table 7.3 gives 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 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 fifth column simply converts the electricity consumption data in the fourth column to 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 0.29 kW-hrs/mile (which is equivalent to 29 kW-hrs/100 miles) is 115 mpge. Because the Prius PHEV consumes both electricity and gasoline over the alternative fuel range of 11 miles, the electric consumption value of 95 mpge includes both

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the electricity and gasoline consumption, at a rate of 29 kW-hrs/100 miles of electricity and 0.2 gal/100 miles of gasoline.

The sixth column gives label fuel economy values for vehicles operating on gasoline only, which is relevant here only for the PHEVs 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 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 7.2. The MY 2013 Volt, for example, has a utility factor of 0.66, i.e., it is expected that the Volt will operate 66% of the time on electricity and 34% of the time on gasoline. Utility factor calculations are based on an SAE methodology that EPA has adopted for regulatory compliance.<sup>11</sup> For EVs and natural gas vehicles, the last 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 7.4 and 7.5 show several key CO<sub>2</sub> emissions metrics for MY 2013 alternative fuel vehicles.

Table 7.4 gives vehicle tailpipe CO<sub>2</sub> emissions values. EPA and vehicle manufacturers have been measuring tailpipe emissions since the early 1970s using standardized laboratory tests. Table 7.4 gives tailpipe CO<sub>2</sub> emissions 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 label values reflect EPA's best estimate of the CO<sub>2</sub> tailpipe emissions that these vehicles will produce, on average, in real world operation based on the EPA 5-cycle label methodology and using a 55% city/45% highway weighting. EVs, of course, have no tailpipe emissions. For the PHEVs, the label CO<sub>2</sub> emissions values utilize the same utility factors discussed above to weight the CO<sub>2</sub> emissions on electric and 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 CO<sub>2</sub> emissions data elsewhere in this report, the tailpipe CO<sub>2</sub>

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<sup>11</sup> See <http://www.SAE.org>, specifically SAE J2841 "Utility Factor Definitions for Plug-In Hybrid Electric Vehicles Using Travel Survey Data," September 2010.

emissions values given in Table 7.4 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.

**Table 7.4**

**MY 2013 Alternative Fuel Vehicle Label Tailpipe CO<sub>2</sub> Emissions Metrics**

Make	Model	Fuel or Powertrain	Tailpipe CO <sub>2</sub> (g/mile)
Fiat	500e	EV	0
Ford	Focus	EV	0
Honda	Fit	EV	0
Mitsubishi	i	EV	0
Nissan	Leaf	EV	0
Scion	iQ	EV	0
Smart	Fortwo	EV	0
Tesla	Model S (85kW-hr)	EV	0
Tesla	Model S (60kW-hr)	EV	0
Toyota	RAV4	EV	0
Chevrolet	Volt	PHEV	81
Ford	C-Max	PHEV	110
Ford	Fusion	PHEV	110
Toyota	Prius	PHEV	133
Honda	Civic	CNG	218

Table 7.5 accounts for the “upstream” CO<sub>2</sub> emissions associated with the production and distribution of electricity used in EVs and PHEVs. Gasoline and diesel fuels also have CO<sub>2</sub> emissions associated with their production and distribution, but these upstream emissions are not reflected in the tailpipe CO<sub>2</sub> emissions values discussed elsewhere in this report. Combining vehicle tailpipe and fuel production/distribution sources, gasoline vehicles emit about 80 percent of total CO<sub>2</sub> emissions at the vehicle tailpipe with 20 percent associated with upstream fuel production and distribution. Diesel fuel has a similar approximate relationship between tailpipe and upstream CO<sub>2</sub> emissions. CNG vehicle upstream CO<sub>2</sub> emissions data is not included in Table 7.5.<sup>12</sup> On the other hand, vehicles using electricity emit no CO<sub>2</sub> (or other emissions) at the vehicle tailpipe; therefore all CO<sub>2</sub> 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 CO<sub>2</sub> emissions (for example, if coal is used with no CO<sub>2</sub> emissions control) or very low CO<sub>2</sub> emissions (for example, if renewable processes with minimal fossil energy inputs are used).

An additional complicating factor in Table 7.5 is that electricity production in the United States varies significantly from region to region. Hydroelectric plants provide a large

<sup>12</sup> There is considerable uncertainty and ongoing research on the topic of GHG emissions from natural gas production, particularly with respect to hydraulic fracturing (“fracking”) processes.

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percentage of electricity in the northwest, coal-fired power plants produce the majority of electricity in the Midwest, and natural gas has increased 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 7.5 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 CO<sub>2</sub>/kW-hr in California to 976 g CO<sub>2</sub>/kW-hr in the Rockies, with a national average of 651 g CO<sub>2</sub>/kW-hr.<sup>13</sup> 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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. Accordingly, in terms of CO<sub>2</sub> emissions, EPA believes that the current "sales-weighted average" vehicle operating on electricity in the near term will likely fall somewhere between the low end of this range and the national average.<sup>14</sup>

The fourth through sixth columns in Table 7.5 provide the range of tailpipe plus *total* upstream CO<sub>2</sub> emissions for EVs and PHEVs based on regional electricity emission rates. For comparison, the average MY 2013 car is also included in Table 7.5. The methodology used to calculate the range of tailpipe plus total upstream CO<sub>2</sub> emissions for EVs, is shown in the following example for the MY 2013 Nissan Leaf:

- Start with the label (5-cycle values weighted 55% city/45% highway) vehicle electricity consumption in kW-hr/mile, which for the Leaf is 29 kW-hr/100 miles, or 0.29 kW-hr/mile
- Determine the regional powerplant emission rate, regional losses during electricity distribution, and the additional regional emissions due to fuel production upstream

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<sup>13</sup> TranSystems|E.H. Pechan (2012).The emissions & generation resource integrated database for 2012 (eGRID2012) technical support document, prepared for the U.S. Environmental Protection Agency, Washington, DC, April 2012; Argonne National Laboratory, 2012, GREET web site, <http://greet.es.anl.gov/> last accessed October 2012.

<sup>14</sup> 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 [fueleconomy.gov/feg/Find.do?action=bt2](http://fueleconomy.gov/feg/Find.do?action=bt2)

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of the powerplant (for California, these numbers are 299 g/kW-hr, 8.2%, and 24%).

- Determine the regional upstream emission factor (for California  $299 \text{ g/kW-hr} / (1 - 0.082) * (1 + 0.24) = 404 \text{ gCO}_2/\text{kW-hr}$ )
- Multiply by the range of Low (California =  $404 \text{ gCO}_2/\text{kW-hr}$ ), Average (National Average =  $651 \text{ g CO}_2/\text{kW-hr}$ ), and High (Rockies =  $976 \text{ g CO}_2/\text{kW-hr}$ ) electricity upstream GHG emission rates, which yields a range for the Leaf of 118-285 grams/mile.

The tailpipe plus total upstream CO<sub>2</sub> emissions values for PHEVs include the upstream CO<sub>2</sub> emissions associated with electricity operation and both the tailpipe and upstream CO<sub>2</sub> emissions associated with gasoline operation, using the utility factor discussed above to weight the values for electricity and gasoline operation. The tailpipe plus total upstream CO<sub>2</sub> emissions values for the average car are the average MY 2013 car tailpipe CO<sub>2</sub> emissions (from Table 4.3) multiplied by 1.25 to account for upstream emissions due to gasoline production.

The values in columns four through six are tailpipe plus *total* upstream CO<sub>2</sub> emissions. But, all of the gasoline and diesel vehicle CO<sub>2</sub> emissions data in the rest of this report refer to tailpipe only emissions and do not reflect the upstream emissions associated with gasoline or diesel production and distribution. Accordingly, in order to equitably compare the overall relative 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 (note that this same approach has been adopted for EV and PHEV regulatory compliance with the 2012-2025 light-duty vehicle GHG emissions standards for sales of EVs and PHEVs that exceed sales thresholds). The net upstream emissions for an EV is equal to the total upstream emissions for the EV minus the upstream emissions that would be expected from a comparable-sized (size is a good first-order measure for utility and footprint is the size-based metric used for standards compliance) 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 net upstream emissions for a gasoline vehicle are zero.

For each EV or PHEV, the upstream emissions for a comparable gasoline vehicle are determined by first using the footprint based compliance curves to determine the CO<sub>2</sub> compliance target for a vehicle with the same footprint. Since upstream emissions account for approximately 20% of total CO<sub>2</sub> emissions for gasoline vehicles, the upstream emissions for the comparable gasoline vehicle are equal to one fourth of the tailpipe-only compliance target.

The final three columns of Table 7.5 give the tailpipe plus net upstream CO<sub>2</sub> values for the EVs and PHEVs using the same Low, Average, and High electricity upstream CO<sub>2</sub> emissions

rates discussed above. These values bracket the possible real world net CO<sub>2</sub> 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 2013 CO<sub>2</sub>-footprint curve, the 5-cycle tailpipe GHG emissions for a Leaf sized vehicle meeting its compliance target would be approximately 318 grams/mile, with upstream emissions of one-fourth of this value, or 80 g/mile. The net upstream emissions are determined by subtracting this value, 80 g/mile, from the total upstream emissions for the Leaf. The result is a range for the tailpipe plus net upstream value of 38-205 g/mile as shown in Table 7.5, with a more likely typical value in the 38-111 g/mile range.

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

**Table 7.5**

**MY 2013 Alternative Fuel Vehicle Upstream CO<sub>2</sub> Emission Metrics**

Make	Model	Fuel or Powertrain	Tailpipe + Total Upstream CO <sub>2</sub>			Tailpipe + Net Upstream CO <sub>2</sub>		
			Low (g/mile)	Avg (g/mile)	High (g/mile)	Low (g/mile)	Avg (g/mile)	High (g/mile)
Fiat	500e	EV	118	190	285	44	116	211
Ford	Focus	EV	130	209	313	52	131	235
Honda	Fit	EV	115	186	278	41	112	204
Mitsubishi	i	EV	121	196	293	47	121	219
Nissan	Leaf	EV	118	190	285	38	111	205
Scion	iQ	EV	113	181	272	39	107	198
Smart	Fortwo	EV	127	205	307	53	131	233
Tesla	Model S (85kW-hr)	EV	153	247	370	61	154	277
Tesla	Model S (60kW-hr)	EV	143	230	345	50	137	252
Toyota	RAV4	EV	179	288	432	99	209	353
Chevrolet	Volt	PHEV	194	250	324	121	177	252
Ford	C-Max	PHEV	203	243	295	138	178	230
Ford	Fusion	PHEV	203	243	295	136	176	229
Toyota	Prius	PHEV	200	221	248	144	165	192
Average Car		Gasoline	406	406	406	325	325	325

While there are still relatively few OEM alternative fuel vehicles in MY 2013, this represents a significant increase in both the number of models available and the total production of alternative fuel vehicles. Based on manufacturer announcements and projected sales, this segment of the market will continue to grow in MY 2014 and beyond. This report will continue to track the metrics presented in this section and report on trends in alternative fuel vehicle CO<sub>2</sub> emissions and fuel economy as more models are introduced and more data becomes available in future years.

# 8 High Fuel Economy and Low CO<sub>2</sub> Choices

Consumers shopping for vehicles with comparatively high fuel economy and low tailpipe CO<sub>2</sub> emissions had more vehicles to choose among in MY 2013 than in MY 2008. These choices reflect both a more diverse range of technology packages on conventional gasoline vehicles as well as more advanced technology and alternative fuel vehicles. Section 5 analyzes important trends for a number of conventional gasoline and diesel vehicle technologies and for advanced technologies like hybrid vehicles. Section 7 provides data on individual alternative fuel vehicle models such as electric vehicles, plug-in hybrid electric vehicles, and compressed natural gas vehicles. This section focuses specifically on trends related to the new vehicle purchase choices available to consumers.

## A. METHODOLOGY

There are some important methodological differences in the analysis in this section relative to Sections 1-6. First, the data in this section are not weighted by vehicle production levels, but instead reflect “model counts,” which is more appropriate for evaluating vehicle choices for consumers. This is because, to an individual consumer in the market for a new vehicle, it makes little or no difference if a particular model has high or low production. Second, this section includes alternative fuel vehicles, whereas sections 1-6 generally analyze only gasoline and diesel vehicles. Third, the analysis in this section focuses on the changes between MY 2008 and MY 2013, rather than trends over multiple decades. These two model years are used because a 5-year period is long enough to identify meaningful multi-year trends.

This “model count” analysis requires assumptions about how to define a model. Our objective in this analysis is to count models that are generally marketed and perceived by consumers to be unique vehicle choices, but not to count multiple configurations that are generally marketed and perceived by consumers to be the same model. The application of this approach requires considerable judgment, and we have made every effort to be consistent for both MY 2008 and MY 2013. The most important guidelines used to classify vehicle configurations into unique “models” for this analysis are:

- Vehicles with the same name are generally counted as one model (e.g., all Honda Civics are counted as one model), with exceptions noted below. Vehicle options included as one model include:
  - Engine and transmission options (including hybrid, diesel, CNG, EV, PHEV, turbo, and ECO variants)
  - 2WD and 4WD versions
  - Trim levels
  - Convertible, hatchback, and wagon body styles
  - FFV and non-FFV models
  - BMW series. For example, all BMW 5 series variants are included as one model, including the ActiveHybrid 5

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- Vehicles that are substantially similar, but are sold in multiple divisions, (often called “twins”) are counted as separate models. For example:
    - Ford Escape and Mercury Mariner are counted as separate models
    - Chevrolet Equinox and GMC Terrain are counted as separate models
  - Vehicles that are generally marketed as distinct models are counted as separate models. For example:
    - Prius, Prius v and Prius c are counted as distinct models
  - Mini Cooper vehicles are grouped and counted as three models (Mini Cooper, Mini Cooper Clubman, and Mini Cooper Countryman), based on wheelbase, with multiple trim models within each wheelbase counted as the same model
  - If at least one variant of an individual model meets a threshold defined in the analysis (e.g., cars with fuel economy greater than 30 mpg), the model is counted only once, regardless of the number of model variants that meet the threshold. For instance, if hybrid, CNG, and gasoline variant Honda Civics exceed 30 mpg, only one Civic is counted as exceeding 30 mpg

These “model count” guidelines resulted in approximately 300 models for both MY 2008 and MY 2013.

Finally, the last methodological difference in this section relative to most other sections is that two key parameters -vehicle classifications and combined city/highway fuel economy values- are aligned with the Fuel Economy and Environment label in order to be consistent with the information available to consumers when they are considering new vehicle purchases. The vehicle classifications in Figure 8.1 are based on Fuel Economy and Environment label classifications which differ slightly from the definitions of cars and light trucks used in Section 1-6 in this report (for example, in Figure 8.1, all SUVs are combined into a single category consistent with fuel economy labels and are not split into car SUVs and truck SUVs as is done for compliance with standards and elsewhere in this report). The label classes are simplified into four broader categories: cars, SUVs, pickups and minivans/vans. If variants of a model were in more than one of these four broader categories, then the variant was counted once in each relevant category. The combined fuel economy values used in Figure 8.1 and Figure 8.2 are based on the 55% city/45% highway weighting used on fuel economy labels, and not on the 43% city/57% highway weighting used for adjusted fuel economy values presented elsewhere in this report.

## B. HIGH FUEL ECONOMY VEHICLE OFFERINGS

Figure 8.1 shows the change from MY 2008 to MY 2013 in the number of models where at least one model variant meets various fuel economy thresholds. The threshold values for EVs, PHEVs, and CNG vehicles that are represented in Figure 8.1 all use 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. See Section 7 for a detailed discussion of EVs, PHEVs, CNG vehicles, and mpge.

**Figure 8.1**

**Number of Models Meeting Fuel Economy Thresholds in MY 2008 and MY 2013**

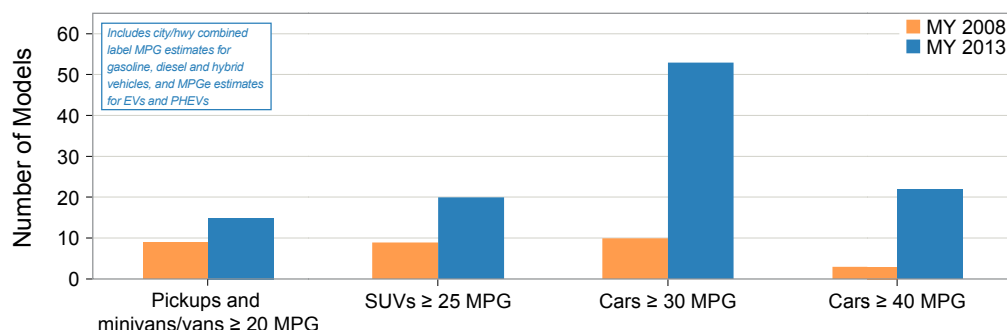


Figure 8.1 shows that there are 15 pickup and minivans/van models for which at least one variant of the model has a combined city/highway label fuel economy rating of 20 mpg or more, compared with nine models five years ago. Furthermore, the majority of the MY 2008 vehicles meeting the 20 mpg threshold were small pickups (pickups with a gross vehicle weight rating of less than 6000 pounds). Only two minivans and no standard-sized pick-up trucks met or exceeded a 20 mpg threshold in MY 2008, but in MY 2013 10 minivans/vans and three standard pickup trucks met the 20 mpg threshold. Twenty MY 2013 SUV models achieve 25 mpg or above, compared to nine models in 2008. It is interesting to note that, of the SUVs that achieved 25 mpg, there were five hybrids in MY 2008 and just three hybrids in MY 2013. Accordingly, the number of non-hybrid SUVs that achieved 25 mpg increased from four in MY 2008 to 17 in MY 2013, more than a four-fold increase. There are now 53 car models available where at least one variant has a combined city/highway label fuel economy of 30 mpg or more, compared to just ten in MY 2008, more than a five-fold increase. In addition, 22 of the MY 2013 cars achieve 40 mpg or higher, and 13 of the MY 2013 cars have at least one variant that achieves 50 mpg or higher. The cars achieving at least 40 mpg consist exclusively of hybrid electric vehicles, electric vehicles and plug-in hybrid electric vehicles, but of the car models that achieve at least 30 mpg, more than 60% reach this threshold with conventional gasoline or diesel variants.

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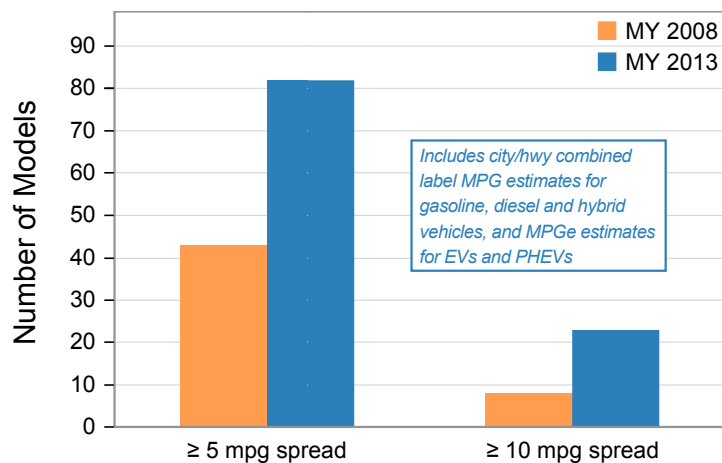
## C. HIGH FUEL ECONOMY RANGES WITHIN MODELS

Within individual models, the number of models with a high mpg spread is also growing. Historically, models may have offered several engine and transmission choices with some variation in fuel economy, but some recent model year vehicles offer variants providing an even wider range of fuel economy choices. While high fuel economy variation is often due to hybrid and diesel variants, there is also increasing fuel economy variation for some conventional gasoline models due to the availability of optional packages that include low rolling resistance tires, aerodynamic improvements, turbochargers, and other technologies. These choices are allowing customers to choose among a wider range of fuel economy within an individual model.

The analysis for Figure 8.2 does not include alternative fuel vehicles, such as EVs, PHEVs, and CNG vehicles. The fuel economy variations within some models would be much higher if these vehicles and their mpg values were included. There are nearly twice as many MY 2013 models with at least a 5 mpg spread than there are MY 2008 models, and nearly three times as many MY 2013 models with at least a 10 mpg spread.

**Figure 8.2**

**Number of Models Meeting Fuel Economy Spread Thresholds in MY 2008 and MY 2013**



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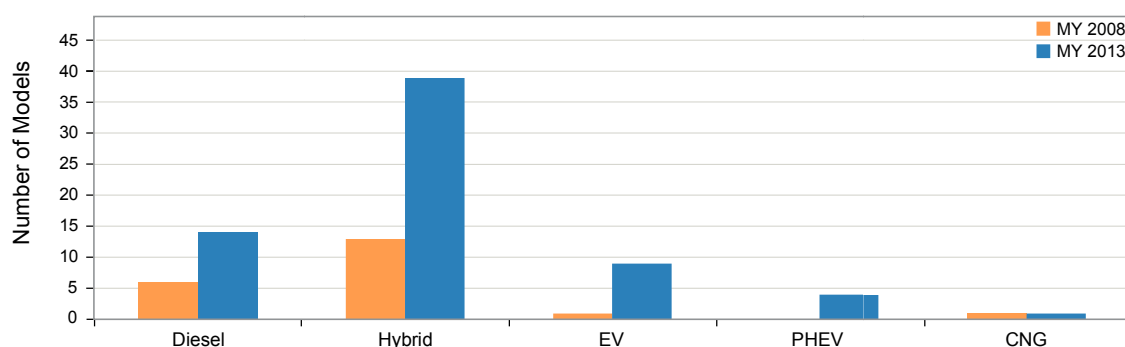
## D. ADVANCED TECHNOLOGY VEHICLE OFFERINGS

Figure 8.3 shows that consumers also have many more alternatives to conventional gasoline vehicles. In MY 2008, the only advanced technology for which there were meaningful choices was hybrids, with a small number of diesels, one EV, and one dedicated compressed natural gas (CNG) vehicle. In MY 2013, there are three times as many hybrid offerings as there were in MY 2008 (from 13 in MY 2008 to 39 in MY 2013). In addition, the number of diesel offerings has more than doubled (from 6 in MY 2008 to 14 in MY 2013), and there are growing numbers of electric vehicles and plug-in hybrid electric vehicles as well. In MY 2013 there are nine EVs, four PHEVs, and one dedicated CNG vehicle.<sup>15</sup> Production share is also increasing for advanced technology vehicles though not as fast as the number of models is increasing. For a more detailed discussion of hybrids and diesel vehicles, see section 5, and see section 7 for more information about alternative fuel vehicles.

For Figure 8.3, the “model count” methodology is modified slightly to allow models that have more than one alternative fuel variant to be counted in each alternative fuel category (e.g., a Ford Fusion is available as both an HEV and PHEV, so the model was counted once in each category).

**Figure 8.3**

***Advanced Technology and Alternative Fueled Vehicle Models in MY 2008 and MY 2013***



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<sup>15</sup> Some EV and CNG vehicles are generally available only in selected markets. Fuel cell vehicles may also be available to a very small number of consumers in a few California markets, but are not included in this analysis.

# 9 Regulatory Context

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## A. PERSONAL VEHICLE FUEL ECONOMY AND GREENHOUSE GAS EMISSIONS STANDARDS

National fuel economy standards have been in place in the United States for cars and light trucks since 1978. The Department of Transportation, through the National Highway Traffic Safety Administration (NHTSA), has the responsibility for setting and enforcing fuel economy standards through the Corporate Average Fuel Economy (CAFE) program. Since the inception of fuel economy standards, EPA has been 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 historic and harmonized 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 standards have 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). By MY 2016, the average industry-wide compliance levels for these footprint-based standards are projected to be 250 g/mi CO<sub>2</sub> and 34.1 mpg CAFE. The 250 g/mi CO<sub>2</sub> compliance level would be equivalent to 35.5 mpg if all CO<sub>2</sub> 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 CO<sub>2</sub> and 48.7-49.7 mpg CAFE.<sup>16 17</sup> The 163 g/mi CO<sub>2</sub> compliance level would be equivalent to 54.5 mpg if all CO<sub>2</sub> emissions reductions are achieved solely through improvements in fuel economy.<sup>18</sup> For both MY 2012-2016 and MY 2017-2025, the agencies expect that a portion of the required CO<sub>2</sub> emissions improvements will be achieved by reductions in air conditioner refrigerant leakage, which would not contribute to higher fuel economy. These coordinated and harmonized standards are expected to yield “continuous improvement” reductions in CO<sub>2</sub> emissions and increases in fuel economy levels through MY 2025.

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<sup>16</sup> The final rule establishing these standards requires EPA to conduct a midterm evaluation of the MY 2022-2025 standards.

<sup>17</sup> 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.

<sup>18</sup> While many assumptions must be made to convert from projected standards compliance levels to projected adjusted (real world) levels, EPA has projected that MY 2025 standards compliance levels, with no over compliance, would result in adjusted levels of 223 g/mi CO<sub>2</sub> and 40 mpg (77 Federal Register 62773, October 15, 2012).

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Automaker compliance with the above CO<sub>2</sub> and CAFE standards is based on unadjusted, laboratory CO<sub>2</sub> and fuel economy values, along with various regulatory incentives and credits, rather than on the adjusted CO<sub>2</sub> and fuel economy values that are used throughout most of this report. Neither unadjusted, laboratory nor adjusted CO<sub>2</sub> and fuel economy values reflect various incentives (e.g., for flexible fuel vehicles for both CO<sub>2</sub> and CAFE standards) and credits (air conditioner and other off-cycle technologies for CO<sub>2</sub> standards) that are available to manufacturers for regulatory compliance. Fleetwide CAFE standards compliance values are a minimum of 25% higher than adjusted fuel economy values and fleetwide CO<sub>2</sub> emissions standards compliance values are a minimum of 20% lower than adjusted CO<sub>2</sub> emissions values (these offsets can be greater due to alternative fuel vehicle, air conditioner, and/or other compliance credits). EPA (at [epa.gov/otaq/regs/ld-hwy/greenhouse/ld-ghg.htm](http://epa.gov/otaq/regs/ld-hwy/greenhouse/ld-ghg.htm)) and NHTSA (at [nhtsa.dot.gov/fuel-economy](http://nhtsa.dot.gov/fuel-economy)) publish separate documents summarizing formal automaker compliance with GHG emissions and CAFE standards. NHTSA will prepare an updated report after EPA provides NHTSA with complete and final data through MY 2012.

## B. CURRENT VEHICLES THAT MEET FUTURE EPA CO<sub>2</sub> EMISSIONS COMPLIANCE TARGETS

This section evaluates MY 2013 vehicles against future footprint-based CO<sub>2</sub> emission targets to determine which current vehicles could meet or exceed their targets in model years 2016-2025, based on current powertrain designs and only assuming credits for future improvements in air conditioner refrigerants and efficiency. EPA assumed the addition of air conditioning improvements since these are considered to be among the most straightforward and least expensive technologies available to reduce CO<sub>2</sub> and other greenhouse gas emissions.

It is important to note there are no CO<sub>2</sub> emissions standards for individual vehicles. Rather, there are manufacturer-specific compliance levels for both passenger car and light truck fleets. The compliance levels are derived from the footprint-based CO<sub>2</sub> emissions target curves, and the production volume-weighted distribution of vehicles produced for sale in the U.S. by each manufacturer.

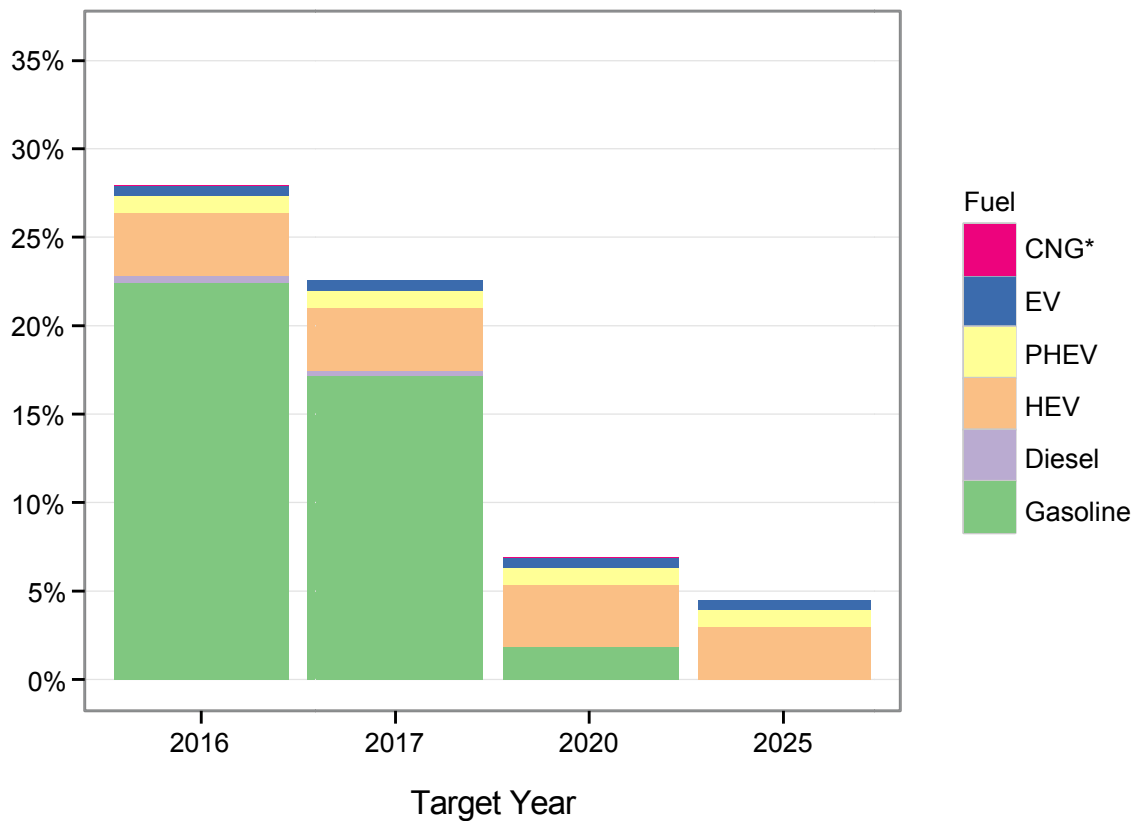
Figure 9.1 shows that 28% of projected MY 2013 vehicle production already meets the MY 2016 CO<sub>2</sub> targets, or can meet these targets with the addition of expected air conditioning improvements. The bulk of current vehicle production that meets the MY 2016 targets is accounted for by non-hybrid gasoline vehicles, although other technologies, including diesels, hybrids, plug-in hybrid electric vehicles, electric vehicles and compressed natural gas vehicles, are also represented.

Looking ahead, nearly 5% of projected 2013 production already meets the MY 2025 CO<sub>2</sub> targets. Vehicles meeting the MY 2025 CO<sub>2</sub> targets are comprised solely of hybrids, plug-in

hybrids, and electric vehicles. Since the MY 2025 standards are over a decade away, there's considerable time for continued improvements in gasoline vehicle technology.

### Figure 9.1

*MY 2013 Vehicle Production Share (Projected) That Meets Future CO<sub>2</sub> Emissions Targets*



\* There is one MY 2013 CNG vehicle that meets the standards through 2020, however it only represents 0.03% of MY 2013 vehicles and may not be visible on this graph.

\*\* There are no CO<sub>2</sub> emissions standards applicable to individual vehicles.

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## C. COMPARISON OF EPA AND NHTSA FUEL ECONOMY DATA, 1975-2013

Table 9.1 compares CAFE performance data reported by NHTSA (“Summary of Fuel Economy Performance” report dated April 25, 2013 and available at [nhtsa.dot.gov/fuel-economy](http://nhtsa.dot.gov/fuel-economy)) with the adjusted and unadjusted, laboratory fuel economy data in this report. With only minor exceptions over 30 years ago, the NHTSA values are higher than the EPA unadjusted, laboratory values, due primarily to alternative fuel vehicle credits, and secondarily to test procedure adjustment factors for cars. In recent years for which both Agencies report final data, the NHTSA values are typically 0.6-1.0 mpg higher than the EPA unadjusted, laboratory values. MY 2011 is the most recent year for which both agencies report final data, and NHTSA’s final CAFE performance value is 0.9 mpg higher than EPA’s final unadjusted, laboratory value. For MY 2012, NHTSA’s mid-model year value is 1.0 mpg higher than EPA’s final unadjusted, laboratory value. For MY 2013, both agencies report preliminary values, and NHTSA’s preliminary value is 0.5 mpg higher (1.2 mpg for cars and 0.8 mpg higher for trucks) than EPA’s unadjusted, laboratory value. These preliminary MY 2013 projections are based on different data sets. The EPA MY 2013 value is based on automaker submissions in the spring and summer of 2012 to support vehicle fuel economy labels. The NHTSA MY 2013 value is based on automaker pre-model year CAFE reports later in 2012. Final MY 2013 results will be reported in next year’s report.

The EPA car and truck fuel economy values shown in Table 9.1 for years prior to MY 2011 differ from the values found elsewhere in this report. Beginning with the 2011 report, EPA reclassified many small and mid-sized, 2-wheel drive SUVs from trucks to cars for the entire historical 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 an apples-to-apples comparison to the NHTSA values, the EPA car and truck values in Table 9.1 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 values in Table 9.1 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 9.1**

*EPA Adjusted, EPA Unadjusted Laboratory, and CAFE Values by Model Year*

Model Year	Cars				Trucks				Both Cars and Trucks			
	EPA Adj. (MPG)	EPA Unadj., Lab (MPG)	NHTSA CAFE (MPG)	Diff. (NHTSA - Lab) (MPG)	EPA Adj. (MPG)	EPA Unadj., Lab (MPG)	NHTSA CAFE (MPG)	Diff. (NHTSA - Lab) (MPG)	EPA Adj. (MPG)	EPA Unadj., Lab (MPG)	NHTSA CAFE (MPG)	Diff. (NHTSA - Lab) (MPG)
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	33.1	0.8	19.1	23.9	24.7	0.8	22.4	28.1	29.0	0.9
2012	27.0	34.3	35.2	0.9	19.3	24.1	25.0	0.9	23.6	29.8	30.8	1.0
2013	27.4	34.8	36.0	-	19.7	24.5	25.3	-	24.0	30.3	30.8	-

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## D. COMPARISON OF MY 2012 UNADJUSTED, LABORATORY AND ESTIMATED CAFE DATA BY MANUFACTURER

The primary differences between EPA unadjusted, laboratory fuel economy data and EPA estimated CAFE values are flexible fuel vehicle (FFV) credits that are available to manufacturers that produce vehicles capable of operation on an alternative fuel (E85, 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 production of alternative fuel vehicles, which are not included in the unadjusted, laboratory fuel economy values provided in this report (see Section 7, Alternative Fuel Vehicles).

Table 9.2 shows how the unadjusted, laboratory fuel economy values in this report, the production of alternative fueled vehicles (AFVs), FFV credits, and TPA credits “add up” to estimated CAFE values for each of the eleven highest volume manufacturers (excluding Hyundai and Kia) for cars, trucks, and cars plus trucks. The FFV credits, TPA credits, and estimated CAFE values in Table 9.2 were obtained directly from EPA’s fuel economy compliance program (at the time of publication, EPA was in the process of submitting the manufacturer-specific CAFE values to NHTSA and individual manufacturers). The data is from the annual manufacturer CAFE Reports, and based on data provided to EPA and NHTSA by automakers. The authors calculated the impact of AFVs on CAFE levels for those manufacturers that produce AFVs. For some manufacturers, the numbers in Table 9.2 do not add up exactly due to rounding.

The CAFE program recognizes three categories, domestic passenger vehicles, import passenger vehicles, and light trucks. The passenger car FFV, TPA, and estimated CAFE numbers in Table 9.2 are calculated from the domestic and import passenger vehicle categories. The truck values were obtained directly (trucks are not eligible for TPA credits). The combined car and truck FFV and TPA credits were generated using car and truck sales. This column is shown for illustrative purposes only, since there are no CAFE standards for combined cars and trucks.

For MY 2012, 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 9.2**

**Comparison of MY 2012 EPA Unadjusted, Laboratory and Estimated CAFE (MPG) Values by Manufacturer\***

Manufacturer	Passenger Car					Light Truck					Both Cars and Trucks				
	EPA Unadj., Lab	AFVs	FFV Credit	TPA Credit	Est. CAFE**	EPA Unadj., Lab	AFVs	FFV Credit	TPA Credit	Est. CAFE**	EPA Unadj., Lab	AFVs	FFV Credit	TPA Credit	Est. CAFE**
General Motors	31.1	0.3	1.2	0.2	32.8	22.4	0.0	1.2	0.0	23.7	27.0	0.1	1.2	0.1	28.5
Toyota	39.8	0.2	0.0	0.3	40.4	24.9	0.0	0.6	0.0	25.5	32.8	0.1	0.4	0.1	33.4
Ford	34.1	0.0	1.2	0.3	35.7	23.1	0.0	1.2	0.0	24.3	28.7	0.0	1.2	0.1	30.1
Honda	37.3	0.1	0.0	0.4	37.9	27.8	0.0	0.0	0.0	27.8	33.6	0.1	0.0	0.2	34.0
Chrysler-Fiat	29.6	0.0	1.2	0.2	30.9	23.1	0.0	1.2	0.0	24.3	25.0	0.0	1.2	0.1	26.3
Nissan	34.4	0.4	0.0	0.3	35.2	23.5	0.0	0.9	0.0	24.4	30.5	0.3	0.4	0.2	31.4
VW***	33.0	0.0	0.1	0.2	33.4	27.4	0.0	0.0	0.0	27.4	32.3	0.0	0.1	0.2	32.6
Mazda	37.4	0.0	0.0	0.5	37.9	27.8	0.0	0.0	0.0	27.8	34.6	0.0	0.0	0.3	34.9
Subaru	35.2	0.0	0.0	0.3	35.5	30.5	0.0	0.0	0.0	30.5	32.2	0.0	0.0	0.1	32.3
BMW	32.2	0.0	0.0	0.3	32.4	25.0	0.0	0.0	0.0	25.0	30.0	0.0	0.0	0.2	30.1
Daimler	28.2	0.0	0.9	0.2	29.3	23.1	0.0	0.9	0.0	23.9	26.3	0.0	0.9	0.1	27.3

\* 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.

\*\* EPA calculates the CAFE value for each manufacturer and provides to NHTSA per EPCA. NHTSA publishes the final CAFE values in its annual "Summary of Fuel Economy Performance" reports at [nhtsa.dot.gov/fuel-economy](http://nhtsa.dot.gov/fuel-economy).

\*\*\* Values for VW in this table and elsewhere in the report do not include Porsche. VW acquired Porsche in 2012; the MY 2012 combined VW-Porsche estimated CAFE values are 33.2 mpg for passenger cars, 27.3 mpg for light trucks, and 32.3 mpg for combined cars and trucks.

# 10 Additional Database and Report Details

This section addresses several Trends database topics in greater detail. While the key parameters of the Trends database that are of the most importance to users were highlighted in Section 1, this section will help those readers who want to further understand how the database is developed and various nuances associated with the database.

## A. SOURCES OF INPUT DATA

Nearly all of the recent model year input for the Trends database is extracted from EPA's current vehicle compliance information system, VERIFY, into which automakers submit data required by congressional statute and EPA regulations. Prior to the beginning of each model year, automakers submit General Label information required to support the generation of the joint EPA/NHTSA Fuel Economy and Environment Labels that appear on all new personal vehicles. Automakers report pre-model year vehicle production projections for individual models to EPA in the General Label submissions; these projections are considered by EPA and automakers to be confidential business information. A few months after the end of each model year, automakers submit Final GHG/CAFE data, which EPA and NHTSA use to determine compliance with GHG emissions and CAFE standards. These end-of-the-year submissions include final production volumes. The production volume levels automakers provide in their Final CAFE reports may differ slightly from their Final GHG reports (less than 0.1%) because the EPA emissions certification regulations, including GHG regulations, require emission compliance in the 50 states, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, American Samoa and the Commonwealth of the Northern Mariana Islands, whereas the CAFE program requires data from the 50 states, the District of Columbia and Puerto Rico only. To maintain consistency with previous versions of this report, the Trends database will continue to use the production volumes for CAFE reporting. Both the General Label and Final GHG/CAFE data submissions contain a broad amount of data associated with CO<sub>2</sub> emissions and fuel economy, vehicle and engine technology, and vehicle performance metrics. The Trends database extracts only a portion of the data in the VERIFY database.

This report reflects data from VERIFY as of August 2013. Through MY 2012, all Trends data is considered final since it is based on the Final GHG/CAFE compliance reports. For MY 2013, all Trends data is preliminary since it is based on confidential pre-model year production projections. Final MY 2013 values will be published in next year's report. See Section 10.E below for a historical comparison of preliminary and final values.

While nearly the entire Trends database comes from formal automaker submissions, it also contains a small amount of data from external sources. For example, label fuel economy data for Sections 7 and 8 are from [fuelconomy.gov](http://fuelconomy.gov). As another example, we rely on

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published data from external sources for certain parameters of pre-MY 2011 vehicles, which are not universally available through automaker submissions: (1) engines with variable valve timing (VVT); (2) engines with cylinder deactivation; and (3) vehicle footprint, which is the product of wheelbase times average track width and upon which CO<sub>2</sub> emissions and CAFE standards are based. Beginning with MY 2011, automaker submissions have included data on these parameters.

In addition, automaker submissions do not include zero-to-sixty (0-to-60) miles per hour acceleration time (in seconds) so we estimate this parameter (for vehicles with conventional powertrains with gasoline-fueled engines) using this equation:

$$t = F (HP/WT)^f$$

where  $t$  is acceleration time; HP and WT reflect Trends data for horsepower and weight, respectively; and the coefficients  $F$  and  $f$  are empirical parameters determined in the literature by obtaining a least-squares fit for available test data. This report uses .892 and .805 for the  $F$  and  $f$  coefficients, respectively, for vehicles with automatic transmissions and .967 and .775, respectively, for those with manual transmissions.<sup>19</sup> Other authors<sup>20</sup> 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 gasoline powertrains, we use published values from external sources to estimate 0-to-60 acceleration time for vehicles with hybrid powertrains or diesel engines.

We recognize that the above equation for acceleration time was initially developed in the 1970s and that more updated and sophisticated approaches for estimating acceleration time are available. For example, we are aware of a recent report<sup>21</sup> by the Massachusetts Institute of Technology that uses a broader set of inputs for estimating acceleration time. We intend to review this and other relevant papers and expect to revise the approach for estimating acceleration time for the entire Trends database in future reports.

## B. HARMONIC AVERAGING OF FUEL ECONOMY VALUES

Averaging multiple fuel economy values must be done harmonically in order to obtain a correct mathematical result. Since fuel economy is expressed in miles per gallon (mpg), one critical assumption with any harmonic averaging of multiple fuel economy values is whether

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<sup>19</sup> "Concise Description of Auto Fuel Economy and Performance in Recent Model Years," SAE Paper 760045, Malliaris, Hsia and Gould, February 1976.

<sup>20</sup> "Automotive Engine -- A Future Perspective," SAE Paper 891666, Amann, 1989; "Regression Analysis of Acceleration Performance of Light-Duty Vehicles," DOT HS 807 763, Young, September 1991; and "Determinates of Multiple Measures of Acceleration," SAE Paper 931805, Santini and Anderson, 1993.

<sup>21</sup> MacKenzie, D., Heywood, J. (2012). Acceleration performance trends and the evolving relationship among power, weight, and acceleration in U.S. light-duty vehicles: A linear regression analysis. *Transportation Research Board*, Paper No. 12-1475, TRB 91st Annual Meeting, Washington, DC, January 2012.

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the distance term (miles, in the numerator of mpg) is fixed or variable. This report makes the assumption that the distance term in all mpg values is fixed, i.e., that for purposes of calculating a harmonically averaged fuel economy value, it is assumed that the distance term (representing miles travelled) is equivalent across various vehicle fuel economies. This assumption is the standard practice with harmonic averaging of multiple fuel economy values (including, for example, in calculations for CAFE standards compliance), and simplifies the calculations involved.

Mathematically, when assuming a fixed distance term as discussed above, harmonic averaging of multiple fuel economy values can be defined as the inverse of the average of the reciprocals of the individual fuel economy values. It is best illustrated by a simple example.

Consider a round trip of 600 miles. For the first 300-mile leg, the driver is alone, with no other passengers or cargo, and, aided by a tailwind, uses 10 gallons of gasoline, for a fuel economy of 30 mpg. On the return 300-mile trip, with several passengers, some luggage, and a headwind, the driver uses 15 gallons of gasoline, for a fuel economy of 20 mpg. Many people will assume that the average fuel economy for the entire 600-mile trip is 25 mpg, the arithmetic (or simple) average of 30 mpg and 20 mpg. But, since the driver consumed  $10 + 15 = 25$  gallons of fuel during the trip, the actual fuel economy is 600 miles divided by 25 gallons, or 24 mpg.

Why is the actual 24 mpg less than the simple average of 25 mpg? Because the driver used more gallons while (s)he was getting 20 mpg than when (s)he was getting 30 mpg.

This same principle is often demonstrated in elementary school mathematics when an airplane makes a round trip, with a speed of 400 mph one way and 500 mph the other way. The average speed of 444 mph is less than 450 mph because the airplane spent more time going 400 mph than it did going 500 mph.

As in both of the examples above, a harmonic average will typically yield a result that is slightly lower than the arithmetic average.

The following equation illustrates the use of harmonic averaging to obtain the correct mathematical result for the fuel economy example above:

$$\text{Average mpg} = \frac{2}{\left(\frac{1}{30} + \frac{1}{20}\right)} = 24 \text{ mpg}$$

The above example was for a single vehicle with two different fuel economies over two legs of a single round trip. But, the same mathematical principle holds for averaging the fuel economies of any number of vehicles. For example, the average fuel economy for a set of 10 vehicles, with three 30 mpg vehicles, four 25 mpg vehicles, and three 20 mpg vehicles would be (note that, in order to maintain the concept of averaging, the total number of vehicles in the numerator of the equation must equal the sum of the individual numerators in the

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denominator of the equation):

$$\text{Average mpg} = \frac{10}{\left(\frac{3}{30} + \frac{4}{25} + \frac{3}{20}\right)} = 24.4 \text{ mpg}$$

Note that arithmetic averaging, not harmonic averaging, provides the correct mathematical result for averaging fuel consumption values (in gallons per mile, the inverse of fuel economy) and CO<sub>2</sub> emissions (in grams per mile). In the first, round trip, example above, the first leg had a fuel consumption rate of 10 gallons over 300 miles, or 0.03333 gallons per mile. The second leg had a fuel consumption of 15 gallons over 300 miles, or 0.05 gallons per mile. Arithmetically averaging the two fuel consumption values, i.e., adding them up and dividing by two, yields 0.04167 gallons per mile, and the inverse of this is the correct fuel economy average of 24 mpg. Arithmetic averaging also works for CO<sub>2</sub> emissions values, i.e., the average of 200 g/mi and 400 g/mi is 300 g/mi CO<sub>2</sub> emissions.

In summary, fuel economy values must be harmonically averaged to maintain mathematical integrity, while fuel consumption values (in gallons per mile) and CO<sub>2</sub> emissions values (in grams per mile) can be arithmetically averaged.

## C. ADJUSTED VS. UNADJUSTED, LABORATORY VALUES

### Change in Emphasis from Unadjusted, Laboratory Data to Adjusted Data

Prior to 2001, EPA's Trends reports only included unadjusted, laboratory fuel economy values, which are used as the basis for compliance with standards and passenger car gas guzzler taxes. Beginning in 2001, Trends reports also included adjusted values which are EPA's best estimate of real world CO<sub>2</sub> emissions and fuel economy performance. Now, most of the tables and figures in this report exclusively show adjusted CO<sub>2</sub> emissions and fuel economy values.

One important distinction between the adjusted values and the unadjusted, laboratory values is that the methodology for determining the former has evolved over time to better reflect real world performance (see the proceeding section for more details). Some of the changes to the adjusted value methodology are intended to account for changes in consumer driving behavior over time (e.g., higher speeds, higher acceleration rates, greater use of air conditioning). Since adjusted Trends values are intended to represent real world performance at any given time, modifications to the adjusted value methodology that reflect changes in consumer driving behavior have not been "propagated back" through the historical Trends database. We note that this is an exception to our general policy of "propagating back" changes throughout the historical Trends database, but in this case doing so would skew the historical data (for example, by assuming that drivers in 1975 used air conditioning much more frequently, or traveled at higher speeds, than they did).

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On the other hand, the methodology for determining unadjusted, laboratory values has not changed since this series began in the mid-1970s. Unadjusted values therefore provide an excellent basis with which to compare long-term trends in vehicle design, apart from the factors that affect real world performance that are reflected in the adjusted values.

Table 10.1 shows both unadjusted, laboratory and adjusted fuel economy values, for the overall new car and truck fleet for MY 1975-2013, for city, highway, and combined city/highway. It also shows how the ratio of adjusted-to-unadjusted fuel economy has changed over time, reflecting that the methodology for adjusted fuel economy values has changed over time, while the methodology for unadjusted fuel economy values has not changed.

In addition to Table 10.1, the following tables also include unadjusted, laboratory values: Tables 2.3, 4.4, 4.5, 9.1, 9.2, 10.2, and 10.4.

**Table 10.1***Unadjusted, Laboratory and Adjusted Fuel Economy (MPG) for MY 1975-MY 2013: Cars and Trucks*

Model Year	Unadjusted City (MPG)	Unadjusted Highway (MPG)	Unadjusted Combined (55/45) (MPG)	Adjusted City (MPG)	Adjusted Highway (MPG)	Adjusted Combined (43/57) (MPG)	Ratio of Adjusted Combined to Unadjusted Combined
1975	13.4	18.7	15.3	12.0	14.6	13.1	85.2%
1976	14.6	20.2	16.7	13.2	15.7	14.2	85.1%
1977	15.6	21.3	17.7	14.0	16.6	15.1	85.1%
1978	16.3	22.5	18.6	14.7	17.5	15.8	85.1%
1979	16.5	22.3	18.7	14.9	17.4	15.9	85.1%
1980	19.6	27.5	22.5	17.6	21.5	19.2	85.2%
1981	20.9	29.5	24.1	18.8	23.0	20.5	85.2%
1982	21.3	30.7	24.7	19.2	23.9	21.1	85.2%
1983	21.2	30.6	24.6	19.0	23.9	21.0	85.3%
1984	21.2	30.8	24.6	19.1	24.0	21.0	85.3%
1985	21.5	31.3	25.0	19.3	24.4	21.3	85.3%
1986	22.1	32.2	25.7	19.8	25.0	21.8	85.0%
1987	22.2	32.6	25.9	19.8	25.3	22.0	84.7%
1988	22.1	32.7	25.9	19.6	25.2	21.9	84.4%
1989	21.7	32.3	25.4	19.1	24.8	21.4	84.2%
1990	21.4	32.2	25.2	18.7	24.6	21.2	83.9%
1991	21.6	32.5	25.4	18.8	24.7	21.3	83.6%
1992	21.0	32.1	24.9	18.2	24.4	20.8	83.4%
1993	21.2	32.4	25.1	18.2	24.4	20.9	83.1%
1994	20.8	31.6	24.6	17.8	23.8	20.4	82.9%
1995	20.8	32.1	24.7	17.7	24.1	20.5	82.7%
1996	20.8	32.2	24.8	17.6	24.0	20.4	82.4%
1997	20.6	31.8	24.5	17.4	23.6	20.2	82.2%
1998	20.6	31.9	24.5	17.2	23.6	20.1	81.9%
1999	20.3	31.2	24.1	16.9	23.0	19.7	81.7%
2000	20.5	31.4	24.3	16.9	23.0	19.8	81.3%
2001	20.5	31.1	24.2	16.8	22.8	19.6	81.0%
2002	20.4	30.9	24.1	16.6	22.5	19.5	80.7%
2003	20.6	31.3	24.3	16.7	22.7	19.6	80.4%
2004	20.2	31.0	24.0	16.3	22.4	19.3	80.2%
2005	21.0	32.1	24.8	16.8	23.1	19.9	79.8%
2006	21.2	32.6	25.2	17.0	23.4	20.1	79.8%
2007	21.8	33.4	25.8	17.4	24.0	20.6	79.6%
2008	22.1	34.0	26.3	17.7	24.4	21.0	79.5%
2009	23.8	36.4	28.2	18.9	26.0	22.4	79.1%
2010	24.1	36.6	28.4	19.1	26.2	22.6	79.0%
2011	23.6	36.4	28.1	18.8	26.1	22.4	79.4%
2012	25.1	38.6	29.8	19.9	27.6	23.6	78.9%
2013	25.5	39.3	30.3	20.2	28.1	24.0	78.8%

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## Methodological Approaches for Adjusted Fuel Economy Values

EPA has improved its methodology for estimating adjusted (or real world) fuel economy and CO<sub>2</sub> emissions performance over time and is committed to continuing to do so in the future. Most recently, EPA revised the methodology by which EPA calculates city, highway, and combined fuel economy label estimates for cars and light-duty trucks in a December 2006 rulemaking.<sup>22</sup>

This current methodology incorporates equations that directly account for several important factors that affect fuel economy and CO<sub>2</sub> emissions performance 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. While some of these factors may not have changed (or may not have changed much) over time and therefore new estimation methods that account for these factors could be "propagated back" throughout the historical Trends database, we believe that many of the factors have changed significantly over time (e.g., highway speeds, acceleration rates, use of air conditioning), and therefore new estimation methods could not be fully "propagated back" through the historical Trends database without impacting the integrity of the historical database with respect to real world fuel economy and CO<sub>2</sub> emissions performance.

There are two important consequences of this approach for users of this report. First, every adjusted fuel economy value in this report for 1986 and later model years is lower than shown in pre-2007 reports. Second, we employed unique approaches for generating adjusted fuel economy and CO<sub>2</sub> emissions values in the historical Trends database for three distinct time frames. The following discussion will first address the MY 1975-1985 time frame, then the MY 2005-2013 time frame, and then, finally, the approach for the MY 1986-2004 time frame that represents a "phased-in" approach from the former to the latter time frame.

For the MY 1975-1985 time frame, the adjusted values in the Trends database are calculated using the methodology adopted by EPA in an April 1984 rulemaking that established universal fuel economy label adjustment factors of 0.9 for city fuel economy and 0.78 for highway fuel economy that took effect for MY 1985 vehicles.<sup>23</sup> A single, combined adjusted fuel economy value is based on a 55% city/45% highway weighting factor. We believe that these adjustment factors are appropriate for new vehicles through the 1985 model year.

For the MY 2005-2013 time frame, the adjusted city and highway values in the Trends database for vehicles that undergo full "5-cycle" fuel economy and CO<sub>2</sub> emissions testing (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

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<sup>22</sup> 71 Federal Register 77872 (December 27, 2006).

<sup>23</sup> 49 Federal Register 13832 (April 6, 1984).

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operation, and cold FTP test for cold temperature operation) are calculated by weighting the 5-cycle test data according to the "composite" 5-cycle equations.<sup>24</sup> The combined city/highway adjusted value for these vehicles is based on a 43% city/57% highway weighting. In MY 2013, about 13% of all vehicle data were generated from the full 5-cycle test protocol.

It is important to emphasize that the 43% city/57% highway weighting used for adjusted 5-cycle values beginning in MY 2005 is different from the 55% city/45% highway weighting used to generate adjusted fuel economy values for MY 1975-1985 in the Trends database. EPA's analysis of real world driving activity underlying the 5-cycle fuel economy methodology assumed a "speed cutpoint" of 45 miles per hour to differentiate between (and "bin" the amount of) city and highway driving.<sup>25</sup> 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, and therefore this weighting is necessary in order to maintain the integrity of projections of fleetwide fuel economy and CO<sub>2</sub> emissions performance based on Trends data. The 55% city/45% highway weighting is still used for both Fuel Economy and Environment Labels and the CAFE and GHG emissions compliance programs.

Most current vehicles do not undergo full 5-cycle testing; instead manufacturers derive 5-cycle values from 2-cycle fuel economy test results (EPA Federal Test Procedure and Highway Fuel Economy Test) based on the relationship between 2-cycle and 5-cycle fuel economy data for the industry as a whole. Beginning with MY 2011, manufacturers are required to evaluate whether the fuel economy estimates for certification vehicles from 5-cycle tests are comparable to results from the less resource-intensive "derived 5-cycle" method. If the results are comparable, manufacturers can use the derived 5-cycle method for all vehicle models represented by the certification vehicle. If the full 5-cycle method yields significantly lower fuel economy estimates than the derived 5-cycle method, then the manufacturer must use the full 5-cycle method for all models represented by the certification vehicle.

For vehicles that can use the derived 5-cycle method, the following equations are used to convert unadjusted, laboratory values for city and highway to adjusted values.

$$\text{ADJ CITY} = \frac{1}{\left(0.003259 + \frac{1.1805}{\text{LAB CITY}}\right)}$$
$$\text{ADJ HWY} = \frac{1}{\left(0.001376 + \frac{1.3466}{\text{LAB HWY}}\right)}$$

As above, these values are weighted 43% city/57% highway in order to calculate a single, adjusted combined fuel economy value.

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<sup>24</sup> 71 Federal Register 77883-77886 (December 27, 2006).

<sup>25</sup> 71 Federal Register 77904 (December 27, 2006).

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For more details on the specific equations that allow an automaker to calculate new label values using either the vehicle-specific 5-cycle test data or the derived 5-cycle approach, and the impact of these changes on average fuel economy label values, see the preamble to the 2006 regulations.<sup>26</sup>

How much of a difference, on average, are the fuel economy values based on the derived 5-cycle method from the values based on the universal adjustment factors for MY 1975-1985? These derived 5-cycle method values are lower than values based on the universal adjustment factors, and the differences are greater for higher fuel economy vehicles than for lower fuel economy vehicles. For example, compared to the use of the universal adjustment factors for MY 1975-1985, 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%. In the 2006 rulemaking, 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. The appropriate fleetwide factors to convert adjusted MY 1975-1985 fuel economy values to the adjusted derived 5-cycle, 43% city/57% highway weighting, 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 combined city/highway fuel economy values are 7% lower than those based on 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 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.

Finally, manufacturers have the option of voluntarily using lower fuel economy label estimates than those resulting from the full 5-cycle or derived 5-cycle approaches discussed above. In the rare cases where automakers choose to do so, we base adjusted values on these voluntary lower fuel economy labels, again using the 43% city/57% highway weighting.

For the MY 1986-2004 time frame, we calculated adjusted fuel economy values based on the simplifying assumption that the impacts of the factors that have led to lower real world fuel economy, as outlined in the 2006 rulemaking discussed above, have occurred in a gradual (i.e., linear) manner over the 20 years from 1986 through 2005. We did not attempt to perform a year-by-year analysis to determine the extent to which the many relevant factors (including higher highway speed limits, more aggressive driving, increasing vehicle horsepower-to-weight ratios, suburbanization, congestion, greater use of air conditioning, gasoline composition, et al) that have affected real world fuel economy since 1985 have changed over time. We simply 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

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<sup>26</sup> 71 Federal Register 77881-77893 (December 27, 2006).

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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.

One consequence of the approaches used in this report is that the ratio of the adjusted-to-unadjusted fuel economy values have been, and will likely continue, changing over time. As shown in Table 9.1, the adjusted-to-unadjusted fuel economy ratio is around 0.85 for MY 1975-1985 data, and decreased during the phase-in period from MY 1986-2004, and has been approximately 0.80 since MY 2005. The ratio is 0.79 in MY 2012, and is projected to remain at 0.79 in MY 2013.

### **Illustrative Example of Multiple Fuel Economy Metrics and Values for One Vehicle**

One potentially confusing element of any discussion of historical fuel economy values is the various metrics by which fuel economy can be expressed. As an illustration to help the reader understand the various fuel economy values that can be associated with an individual vehicle, Table 10.2 shows four different ways to express the fuel economy of the MY 2005 Honda Insight.

Unadjusted, laboratory city and highway fuel economy values are direct fuel economy measurements from the formal EPA 2-cycle city (Federal Test Procedure, or urban commute) and highway laboratory tests. These values form the basis for automaker compliance with CAFE standards, and are harmonically averaged, and weighted 55% city and 45% highway, to generate a combined value. The 2005 Honda Insight had an unadjusted city value of 68 mpg, an unadjusted highway value of 84 mpg, and an unadjusted combined value of 74 mpg.

At the time, the MY 2005 Honda Insight had an original city label value of 61 mpg, which was calculated by multiplying its unadjusted city test value of 68 mpg by 0.9. Likewise, its original highway value was 66 mpg, calculated by multiplying its unadjusted highway test value of 84 mpg by 0.78. Harmonically averaging these values, with a 55% city/45% highway weighting, led to a combined original MY 2005 label value of 63 mpg.

Today, as a used car, the 2005 Honda Insight would have lower label values based on the 5-cycle method (reflecting, in addition to 2-cycle urban commuting and rural highway operation, additional conditions such as high speed/high acceleration, high temperature/air conditioning, and cold temperature operation) for determining city and highway values, first implemented in MY 2008, and discussed in the previous sub-section. For the 2005 Insight, the 5-cycle method yields a city label value of 48 mpg and a highway value of 58 mpg. Today's labels continue to use a 55% city/45% highway weighting, and the harmonically averaged, 55% city/45% highway weighted, combined value for the 2005 Insight is 52 mpg.

These current label values, based on the 5-cycle methodology, are considerably lower than the original label values.

Finally, for the MY 2005 Honda Insight, this Trends report uses the adjusted fuel economy methodology discussed in the previous sub-section, that is used in the Trends report for all vehicles beginning in MY 2005. The adjusted Trends city and highway values are the same as those for the current label, since both the current label and the adjusted Trends approach use the same 5-cycle methodology. But, the adjusted Trends approach uses a city/highway weighting of 43%/57% highway to best correlate with the driving activity studies underlying the 5-cycle methodology. This different city/highway weighting leads to a 53 mpg combined value, slightly higher than the 52 mpg combined value for the current label.

**Table 10.2**

**Four Different Fuel Economy Metrics for the MY 2005 Honda Insight**

Fuel Economy Metric	Fuel Economy Value (MPG)			Basis	City/Highway Weighting
	Comb	City	Hwy		
Unadjusted, Laboratory	74	68	84	Unadjusted 2-cycle city and highway test values	55%/45%
Original MY 2005 Label	63	61	66	City test x 0.9 Highway test x 0.78	55%/45%
Current Label	52	48	58	Adjusted 5-cycle methodology	55%/45%
Adjusted Trends	53	48	58	Adjusted 5-cycle methodology	43%/57%

## D. OTHER DATABASE METHODOLOGY ISSUES

### CO<sub>2</sub> Emissions Data and Approximating "Missing" CO<sub>2</sub> Values

CO<sub>2</sub> emissions data were added to the entire historical Trends database beginning with the 2009 report. CO<sub>2</sub> emissions values are calculated from corresponding fuel economy values using the fuel-specific emissions factors described below.

While CO<sub>2</sub> emissions data is included in several key summary tables and figures in the report, there are many tables and figures that present fuel economy values but not CO<sub>2</sub> emissions values. This section provides a simple method that a reader can use to estimate CO<sub>2</sub> emissions values from any fuel economy value in the report.

If a fuel economy value is given for a single gasoline vehicle, or a 100% gasoline vehicle fleet, one can calculate the corresponding CO<sub>2</sub> emissions value by simply dividing 8887 (which is a typical value for the grams of CO<sub>2</sub> per gallon of gasoline test fuel, assuming all the carbon is converted to CO<sub>2</sub>) 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 CO<sub>2</sub> emissions value of 296 grams per mile. This is the methodology used to generate the

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adjusted CO<sub>2</sub> emissions values for all of the gasoline vehicles in the Trends database.

Since gasoline vehicle production has accounted for 99+% of all light-duty vehicle production for most of the model years since 1975, 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 CO<sub>2</sub> 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 CO<sub>2</sub> equivalent value of 339 grams per mile. This is the methodology used to generate the adjusted CO<sub>2</sub> emissions values for the relatively small number of diesel vehicles in the Trends database.

To make the most accurate conversions of industry-wide fuel economy values to CO<sub>2</sub> emissions values, readers should divide model year-specific industry-wide values for grams of CO<sub>2</sub> per gallon in Table 10.3, which are based on actual light-duty gasoline and diesel vehicle production in that year, by industry-wide fuel economy values in miles per gallon.

Readers must make judgment calls about how to best convert fuel economy values that do not represent industry-wide values (e.g., just cars or vehicles with 5-speed automatic transmissions). If the user knows the gasoline/diesel production volume fractions for the vehicles of interest, it is best to generate a weighted value of grams of CO<sub>2</sub> per gallon based on the 8887 (gasoline) and 10,180 (diesel) factors discussed above. Otherwise, the reader can choose between the model year-specific CO<sub>2</sub> emissions per gallon weightings in Table 10.3 (which implicitly assume that the diesel fraction for the vehicles 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 negligible.

**Table 10.3**

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

<b>Model Year</b>	<b>Gasoline Production Share</b>	<b>Diesel Production Share</b>	<b>Weighted CO<sub>2</sub> per Gallon (grams)</b>
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	99.1%	0.9%	8899
2013	99.1%	0.9%	8899

#### Changes in Car-Truck Classification Definitions

Car-truck definitions through the 2010 report were based EPA's engineering judgment. Until recently, EPA and NHTSA had slightly different regulatory definitions for car-truck classifications with respect to health-related emissions and fuel economy, respectively, and

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the Trends report followed a third approach, though in practice there was broad (though not universal) agreement among the three approaches.

Beginning with the 2011 report, Trends car-truck classifications followed current regulatory definitions used by both EPA and NHTSA for CO<sub>2</sub> emissions and fuel economy standards. See definitions for passenger automobiles (cars) and non-passenger automobiles (trucks) later in this section. These current definitions differ from those used in older versions of this report, and reflect a decision by NHTSA to reclassify many small, 2-wheel drive, sport utility vehicles (SUVs) from the truck category to the car category, beginning with MY 2011. When this re-classification was initiated in the 2011 report, the absolute truck share decreased by approximately 10%.

The current car-truck definitions have been “propagated back” throughout the entire historical Trends database to maintain the integrity of long-term trends of car and truck production share. Since we did not have all of the requisite technical information on which to make retroactive car-truck classifications, we used engineering judgment to classify past models.

#### **Inclusion of Medium-Duty Passenger Vehicles**

Beginning with the 2011 report, medium-duty passenger vehicles (MDPVs), those SUVs and passenger vans (but, not pickup trucks) with gross vehicle weight ratings between 8500 and 10,000 pounds, are included in the light-duty truck category. This coincided with new regulations by NHTSA to treat these vehicles as light-duty, rather than heavy-duty, vehicles beginning in MY 2011. This represents a minor change to the database, since the number of MDPVs is much smaller than it once was (e.g., only 6500 MDPVs were sold in MY 2012). It should be noted that this is one change to the database that has not been “propagated back” through the historic database, as we do not have MDPV data prior to MY 2011. Accordingly, this represents a small inflection point for the database—for the overall car and truck fleet in MY 2011, the inclusion of MDPVs decreased average adjusted fuel economy by 0.01 mpg and increased average adjusted CO<sub>2</sub> emissions by 0.3 g/mi, compared to the fleet without MDPVs. The impacts on the truck fleet only were about twice as high, but still very small in absolute terms.

## **E. COMPARISON OF PRELIMINARY AND FINAL FLEETWIDE FUEL ECONOMY VALUES**

In recent years, the data for the last model year included in each report has been preliminary (i.e., based on projected vehicle production volumes provided by automakers prior to the beginning of the model year), while the data for all other model years has been final. This

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leads to the logical question, how accurate have the preliminary projections been?

Table 10.4 compares the preliminary and final fleetwide fuel economy values for recent years (note that the differences for CO<sub>2</sub> emissions data would be similar, on a percentage basis).

For the adjusted fuel economy data, values are only shown beginning in MY 2007, as final adjusted values in this report reflect the revised methodology for calculating adjusted fuel economy values beginning with the 2007 report and therefore the comparable preliminary values prior to MY 2007 would not reflect an apples-to-apples comparison. Since MY 2007, the final adjusted fuel economy values have typically been a little higher than the preliminary adjusted fuel economy values. The major exceptions have been MY 2009, when the final value was 1.3 mpg higher, and MY 2011, when the final value was 0.4 mpg lower.

Comparative unadjusted fuel economy data are shown back to MY 2000. For a majority of the years, the final unadjusted fuel economy values have been higher than the preliminary fuel economy values, and typically the final value is within 0.5 mpg of the preliminary value. As with the adjusted data, the biggest outlier was MY 2009, when the final unadjusted value was 1.8 mpg higher than the preliminary value. There was considerable market turmoil in MY 2009 driven by the economic recession.

**Table 10.4**

**Comparison of Preliminary and Final Adjusted and Unadjusted Fuel Economy Values: Both Cars and Trucks**

Model Year	Adjusted Fuel Economy (MPG)			Unadjusted Fuel Economy (MPG)		
	Preliminary Value	Final Value	Final Minus Preliminary	Preliminary Value	Final Value	Final Minus Preliminary
2000	-	-	-	24.0	24.3	+0.3
2001	-	-	-	23.9	24.2	+0.3
2002	-	-	-	24.0	24.1	+0.1
2003	-	-	-	24.4	24.3	-0.1
2004	-	-	-	24.4	24.0	-0.4
2005	-	-	-	24.6	24.8	+0.2
2006	-	-	-	24.6	25.2	+0.6
2007	20.2	20.6	+0.4	25.3	25.8	+0.5
2008	20.8	21.0	+0.2	26.0	26.3	+0.3
2009	21.1	22.4	+1.3	26.4	28.2	+1.8
2010	22.5	22.6	+0.1	28.3	28.4	+0.1
2011	22.8	22.4	-0.4	28.6	28.1	-0.5
2012	23.8	23.6	-0.2	30.0	29.8	-0.2
2013	24.0	-	-	30.3	-	-

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## F. DEFINITIONS AND ACRONYMS

Electric vehicle (EV) means a motor vehicle that is powered solely by an electric motor drawing current from a rechargeable energy storage system, such as from storage batteries or other portable electrical energy storage devices. For the Trends report, electric vehicles do not generally include fuel cell vehicles.

Flexible fuel vehicle (FFV) means any motor vehicle engineered and designed to be operated on a petroleum fuel and on a methanol or ethanol fuel, or any mixture of the petroleum fuel and methanol or ethanol. Methanol-fueled and ethanol-fueled vehicles that are only marginally functional when using gasoline ( e.g., the engine has a drop in rated horsepower of more than 80 percent) are not flexible fuel vehicles.

Footprint means the product of average track width (rounded to the nearest tenth of an inch) and wheelbase (measured in inches and rounded to the nearest tenth of an inch), divided by 144 and then rounded to the nearest tenth of a square foot, where the average track width is the average of the front and rear track widths, where each is measured in inches and rounded to the nearest tenth of an inch.

Fuel cell vehicle (FCV) means an electric vehicle propelled solely by an electric motor where energy for the motor is supplied by an electrochemical cell that produces electricity via the non-combustion reaction of a consumable fuel, typically hydrogen.

Gasoline gallon equivalent means an amount of electricity or fuel with the energy equivalence of one gallon of gasoline. For purposes of the Trends report, one gallon of gasoline is equivalent to 33.705 kilowatt-hours of electricity or 121.5 standard cubic feet of natural gas.

Hybrid electric vehicle (HEV) means a motor vehicle which draws propulsion energy from onboard sources of stored energy that are both an internal combustion engine or heat engine using consumable fuel, and a rechargeable energy storage system such as a battery, capacitor, hydraulic accumulator, or flywheel, where recharge energy for the energy storage system comes solely from sources on board the vehicle.

Light Truck means an automobile that is not a car or a work truck and includes vehicles described in paragraphs (a) and (b) below:

- (a) An automobile designed to perform at least one of the following functions:
  - (1) Transport more than 10 persons;
  - (2) Provide temporary living quarters;
  - (3) Transport property on an open bed;
  - (4) Provide, as sold to the first retail purchaser, greater cargo-carrying than passenger-carrying volume, such as in a cargo van; if a vehicle is sold with a second-row seat, its cargo-carrying volume is determined with that seat installed, regardless of whether the manufacturer has described that seat as optional; or
  - (5) Permit expanded use of the automobile for cargo-carrying purposes or other

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nonpassenger-carrying purposes through:

- (i) For non-passenger automobiles manufactured in model year 2008 and beyond, for vehicles equipped with at least 3 rows of designated seating positions as standard equipment, permit expanded use of the automobile for cargo-carrying purposes or other nonpassenger-carrying purposes through the removal or stowing of foldable or pivoting seats so as to create a flat, leveled cargo surface extending from the forwardmost point of installation of those seats to the rear of the automobile's interior.
- (b) An automobile capable of off-highway operation, as indicated by the fact that it:
  - (1)(i) Has 4-wheel drive; or
  - (ii) Is rated at more than 6000 pounds gross vehicle weight; and
  - (2) Has at least four of the following characteristics calculated when the automobile is at curb weight, on a level surface, with the front wheels parallel to the automobile's longitudinal centerline, and the tires inflated to the manufacturer's recommended pressure—
    - (i) Approach angle of not less than 28 degrees.
    - (ii) Breakover angle of not less than 14 degrees.
    - (iii) Departure angle of not less than 20 degrees.
    - (iv) Running clearance of not less than 20 centimeters.
    - (v) Front and rear axle clearances of not less than 18 centimeters each.

*\*Please see Section 10.C for Changes in Car-Truck Classification Definitions over time.*

Minivan means a light truck which is designed primarily to carry no more than eight passengers, having an integral enclosure fully enclosing the driver, passenger, and load-carrying compartments, and rear seats readily removed, folded, stowed, or pivoted to facilitate cargo carrying. A minivan typically includes one or more sliding doors and a rear liftgate. Minivans typically have less total interior volume or overall height than full sized vans and are commonly advertised and marketed as “minivans.”

Mpg means miles per gallon.

Mpge means miles per gasoline gallon equivalent (see gasoline gallon equivalent above).

Pickup truck means a light truck which has a passenger compartment and an open cargo bed.

Plug-in hybrid electric vehicle (PHEV) means a hybrid electric vehicle that has the capability to charge the battery from an off-vehicle electric source, such that the off-vehicle source cannot be connected to the vehicle while the vehicle is in motion.

Special purpose vehicles means automobiles with GVWR less than or equal to 8,500 pounds and medium-duty passenger vehicles which possess special features and which the Administrator determines are more appropriately classified separately from typical automobiles.

*\*For purposes of the Trends report, we used engineering judgment to allocate the very small number of vehicles, labeled as special purpose vehicles at fuel economy.gov, to the three truck types: truck SUV,*

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*van/minivan, or truck*

Sport utility vehicle (SUV) means a light truck with an extended roof line to increase cargo or passenger capacity, cargo compartment open to the passenger compartment, and one or more rear seats readily removed or folded to facilitate cargo carrying. Generally, 2-wheel drive SUVs equal to or less than 6000 lbs GVWR are passenger cars for CAFE and GHG standards compliance, but continue to be labeled as SUVs.

Station wagon means cars with an extended roof line to increase cargo or passenger capacity, cargo compartment open to the passenger compartment, a tailgate, and one or more rear seats readily removed or folded to facilitate cargo carrying.

Track width -means the lateral distance between the centerlines of the base tires at ground, including the camber angle.

Van means any light truck having an integral enclosure fully enclosing the driver compartment and load carrying compartment. The distance from the leading edge of the windshield to the foremost body section of vans is typically shorter than that of pickup trucks and SUVs.

Wheelbase is the longitudinal distance between front and rear wheel centerlines.

## G. LINKS FOR MORE INFORMATION

This report, *Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 through 2013* (EPA-420-R-13-011) is available on the EPA's Office of Transportation and Air Quality's (OTAQ) web site at: [epa.gov/otaq/fetrends.htm](http://epa.gov/otaq/fetrends.htm). The Executive Summary of this report (EPA-420-S-13-002) is available at the same we site.

A copy of the *Fuel Economy Guide* giving city and highway fuel economy data for individual models is available at: [fueleconomy.gov](http://fueleconomy.gov) or by calling the U.S. Department of Energy at (800) 423-1363.

The website [fueleconomy.gov](http://fueleconomy.gov) provides fuel economy and environmental information for vehicles from model year 1984 through the present. The site has many tools that allow users to search for vehicles and find information on vehicle fuel economy, fuel consumption, estimated annual fuel cost, and CO<sub>2</sub> emissions. The site also allows users to personalize fuel economy and fueling cost estimates based on personalized inputs for fuel cost, annual mileage, and percentage of city versus highway driving.

EPA's Green Vehicle Guide ([epa.gov/greenvehicles](http://epa.gov/greenvehicles)) is designed to help car buyers identify the cleanest, most fuel-efficient vehicle that meets their needs. The site includes information on SmartWay certified vehicles, how advanced technology vehicles work, and infographics and videos that provide tips on saving money and reducing

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emissions through smarter vehicle choices.

For detailed information about EPA's GHG emissions standards for motor vehicles, see: [epa.gov/otaq/climate/regulations.htm](http://epa.gov/otaq/climate/regulations.htm).

For detailed information about DOT's Corporate Average Fuel Economy (CAFE) program, including a program overview, related rulemaking activities, and summaries of the formal CAFE performance of individual manufacturers since 1978, see: [nhtsa.dot.gov/fuel-economy](http://nhtsa.dot.gov/fuel-economy).

For more information about the EPA/Department of Transportation (DOT) Fuel Economy and Environment Labels, see: [epa.gov/otaq/carlabel](http://epa.gov/otaq/carlabel).

## H. AUTHORS AND ACKNOWLEDGEMENTS

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**2013 FE Trends Report**  
**Appendix A: Vehicles with Lowest and Highest Unadjusted, Laboratory Fuel Economy by Model Year**

Rank	Car or Truck	Model Year	Manufacturer	Model Name	Vehicle Type	Inertia Weight	Drive	Transmission	Gears	Fuel Delivery	HP	CID	Fuel Economy (MPG)		
													City	Hwy	Comb
Low	Car	1975	GM	TORONADO	Car	5500	Front	Automatic		Carb	175	455	8.5	12.1	9.8
Low	Car	1976	Jaguar Land Rover	JENSEN	Car	4500	Rear	Automatic	3	Carb	250	440	8.6	12.8	10.1
Low	Car	1977	BMW	ROLLS ROYCE/	Car	5500	Rear	Automatic		Carb	170	412	8.7	11.4	9.7
Low	Car	1978	Chrysler-Fiat	MONACO	Car	5000	Rear	Automatic	3	Carb	240	440	8.3	11.2	9.4
Low	Car	1979	Aston Martin	ASTON MARTIN V8	Car	4500	Rear	Manual	5	Carb	60	326	7.6	12.4	9.2
Low	Car	1980	Aston Martin	79 ASTON MARTIN	Car	4500	Rear	Manual	5	Carb	275	326	7.6	12.4	9.2
Low	Car	1981	Peugeot	604	Car	3500	Rear	Automatic	3	Carb	132	174	3.5	7.7	5.0
Low	Car	1982	Chrysler-Fiat	QUATTROPORTE	Car	5000	Rear	Automatic with Lockup	3	Carb	288	301	8.5	12.6	9.9
Low	Car	1983	Chrysler-Fiat	QUATTROPORTE	Car	5000	Rear	Automatic with Lockup	3	Carb	288	301	8.5	12.6	9.9
Low	Car	1984	Chrysler-Fiat	QUATTROPORTE	Car	5000	Rear	Automatic with Lockup	3	Carb	288	301	8.5	12.6	9.9
Low	Car	1985	Chrysler-Fiat	QUATTROPORTE	Car	5000	Rear	Automatic with Lockup	3	Carb	288	301	8.5	12.6	9.9
Low	Car	1986	VW	COUNTACH	Car	3500	Rear	Manual	5	Port	420	315	6.8	13.4	8.7
Low	Car	1987	VW	COUNTACH	Car	3500	Rear	Manual	5	Port	420	315	6.8	13.4	8.7
Low	Car	1988	VW	COUNTACH	Car	3500	Rear	Manual	5	Port	420	315	6.8	13.4	8.7
Low	Car	1989	VW	COUNTACH	Car	3500	Rear	Manual	5	TBI	420	315	6.8	13.4	8.7
Low	Car	1990	Aston Martin	LAG	Car	5000	Rear	Automatic with Lockup	3	Port	240	326	9.3	13.9	10.9
Low	Car	1991	Vector	VECTOR W8	Car	4000	Rear	Automatic	3	Port	450	365	8.2	13.7	10.0
Low	Car	1992	Vector	VECTOR W8	Car	4000	Rear	Automatic	3	Port	450	365	8.2	13.7	10.0
Low	Car	1993	Vector	VECTOR W8	Car	4000	Rear	Automatic	3	Port	450	365	8.2	13.7	10.0
Low	Car	1994	VW	DB132/DIABLO	Car	4000	4wd	Manual	5	Port	492	348	10.4	18.1	12.8
Low	Car	1995	Chrysler-Fiat	FERRARI F50	Car	3000	Rear	Manual	6	Port	510	287	8.4	14.1	10.3
Low	Car	1996	VW	AVTECH SC_-M12	Car	4000	Rear	Manual	5	Port	492	348	9.9	16.2	12.0
Low	Car	1997	VW	DB132-144 - DIABLO	Car	4000	4wd	Manual	5	Port	492	348	10.2	18.1	12.7
Low	Car	1998	Chrysler-Fiat	FERRARI 550_MARANELLO	Car	4000	Rear	Manual	6	Port	475	334	10.1	18.9	12.8
Low	Car	1999	Chrysler-Fiat	FERRARI 550_MARANELLO	Car	4000	Rear	Manual	6	Port	475	334	10.0	18.0	12.5
Low	Car	2000	Chrysler-Fiat	FERRARI 550_MARANELLO	Car	4000	Rear	Manual	6	Port	475	334	9.4	16.7	11.7
Low	Car	2001	Chrysler-Fiat	FERRARI 550_MARANELLO-BARCHE	Car	4000	Rear	Manual	6	Port	475	334	9.4	16.7	11.7
Low	Car	2002	VW	L-147 MURCIELAGO	Car	4000	4wd	Manual	6	Port	580	378	10.1	16.3	12.2
Low	Car	2003	Chrysler-Fiat	ENZO FERRARI	Car	3500	Rear	Automatic with Lockup	6	Port	646	366	8.4	15.8	10.7
Low	Car	2004	VW	L-147-148 MURCIELAGO	Car	4000	4wd	Manual	6	Port	580	378	10.1	17.1	12.4
Low	Car	2005	VW	L-147-148 MURCIELAGO	Car	4000	4wd	Manual	6	Port	580	378	10.1	17.1	12.4
Low	Car	2006	VW	VEYRON	Car	4500	4wd	Automatic with Lockup	6	Port	1001	488	9.4	18.9	12.1
Low	Car	2007	VW	L-147-148 MURCIELAGO	Car	4000	4wd	Manual	6	Port	631	396	10.1	17.5	12.5
Low	Car	2008	VW	VEYRON	Car	4500	4wd	Automatic with Lockup	6	Port	1001	488	9.5	17.8	12.0
Low	Car	2009	VW	MURCIELAGO ROADSTER	Car	4000	4wd	Manual	6	Port	631	396	10.1	17.5	12.5
Low	Car	2010	VW	Veyron	Car	4500	4wd	Automatic	7	Port	1001	488	9.5	17.8	12.0
Low	Car	2011	Chrysler-Fiat	Ferrari 612 SCAGLIETTI	Car	4500	Rear	Automatic	6	Port	532	348	11.5	21.8	14.6
Low	Car	2012	VW	Veyron	Car	4500	4wd	Automatic	7	Port	1200	488	10.0	17.9	12.5
Low	Car	2013	VW	Veyron	Car	4500	4wd	Automatic with Lockup	7	Port	1200	488	10.0	17.9	12.5

**2013 FE Trends Report**  
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Rank	Car or Truck	Model Year	Manufacturer	Model Name	Vehicle Type	Inertia Weight	Drive	Transmission	Gears	Fuel Delivery	HP	CID	Fuel Economy (MPG)		
													City	Hwy	Comb
High	Car	1975	Honda	CIVIC CVCC	Car	2000	Front	Manual	5	Carb	52	90	28.2	42.3	33.2
High	Car	1976	Honda	CIVIC CVCC	Car	2000	Front	Manual	3	Carb	60	91	31.6	42.8	35.8
High	Car	1977	Honda	CIVIC CVCC	Car	2000	Front	Manual		Carb	60	91	39.7	51.6	44.3
High	Car	1978	VW	RABBIT	Car	2250	Front	Manual	4	Diesel	48	90	39.1	52.2	44.1
High	Car	1979	VW	RABBIT	Car	2250	Front	Manual	5	Diesel	48	90	40.8	54.6	46.0
High	Car	1980	VW	RABBIT	Car	2250	Front	Manual	5	Diesel	48	90	41.9	56.5	47.4
High	Car	1981	VW	RABBIT	Car	2250	Front	Manual	4	Diesel	52	97	42.1	58.2	48.1
High	Car	1982	VW	RABBIT	Car	2250	Front	Manual	4	Diesel	52	97	45.4	57.8	50.2
High	Car	1983	Nissan	NISSAN SENTRA	Car	2250	Front	Manual	4	Diesel	55	103	48.2	61.3	53.4
High	Car	1984	Honda	CIVIC COUPE	Car	2000	Front	Manual	5	Carb	60	82	50.8	65.7	56.5
High	Car	1985	Suzuki	SA310	Car	1750	Front	Manual	5	Carb	48	61	52.7	67.5	58.5
High	Car	1985	GM	SPRINT	Car	1750	Front	Manual	5	Carb	48	61	52.7	67.5	58.5
High	Car	1985	GM	FIREFLY	Car	1750	Front	Manual	5	Carb	48	61	52.7	67.5	58.5
High	Car	1986	GM	SPRINT ER	Car	1750	Front	Manual	5	Carb	46	61	61.5	76.4	67.4
High	Car	1987	GM	SPRINT ER	Car	1750	Front	Manual	5	Carb	46	61	59.7	74.5	65.6
High	Car	1988	GM	SPRINT METRO	Car	1750	Front	Manual	5	Carb	46	61	59.7	74.5	65.6
High	Car	1989	Honda	CIVIC CRX	Car	2000	Front	Manual	5	Port	62	91	55.2	70.6	61.2
High	Car	1990	GM	METRO XFI	Car	1750	Front	Manual	5	TBI	49	61	59.1	74.8	65.3
High	Car	1991	GM	METRO XFI	Car	1750	Front	Manual	5	TBI	55	61	59.1	74.7	65.3
High	Car	1992	GM	METRO XFi	Car	1750	Front	Manual	5	TBI	55	61	59.1	74.8	65.3
High	Car	1993	GM	METRO XFI	Car	1750	Front	Manual	5	TBI	55	61	59.1	74.8	65.3
High	Car	1994	GM	METRO XFi	Car	1750	Front	Manual	5	TBI	55	61	60.0	74.7	65.8
High	Car	1995	Honda	CIVIC HB VX	Car	2250	Front	Manual	5	Port	91	91	51.7	72.0	59.2
High	Car	1996	Suzuki	SWIFT	Car	2000	Front	Manual	5	TBI	55	61	49.5	63.1	54.8
High	Car	1997	GM	METRO	Car	2000	Front	Manual	5	TBI	55	61	48.9	63.2	54.4
High	Car	1998	GM	METRO	Car	2000	Front	Manual	5	TBI	55	60	47.5	63.5	53.6
High	Car	1999	VW	NEW JETTA	Car	3000	Front	Manual	5	Diesel	90	116	46.3	62.8	52.5
High	Car	1999	VW	NEW GOLF	Car	3000	Front	Manual	5	Diesel	90	116	46.3	62.8	52.5
High	Car	1999	VW	NEW BEETLE	Car	3000	Front	Manual	5	Diesel	90	116	46.3	62.8	52.5
High	Car	2000	Honda	INSIGHT	Car	2000	Front	Manual	5	Port	67	61	68.3	89.4	76.4
High	Car	2001	Honda	INSIGHT	Car	2000	Front	Manual	5	Port	67	61	67.7	88.1	75.6
High	Car	2002	Honda	INSIGHT	Car	2000	Front	Manual	5	Port	67	61	67.7	87.2	75.3
High	Car	2003	Honda	INSIGHT	Car	2000	Front	Manual	5	Port	67	61	67.4	87.2	75.1
High	Car	2004	Honda	INSIGHT	Car	2000	Front	Manual	5	Port	67	61	67.1	84.1	73.8
High	Car	2005	Honda	INSIGHT	Car	2000	Front	Manual	5	Port	73	61	67.7	84.4	74.3
High	Car	2006	Honda	INSIGHT	Car	2000	Front	Manual	5	Port	73	61	67.0	84.2	73.8
High	Car	2007	Toyota	PRIUS	Car	3000	Front	CVT	1	Port	76	91	66.6	64.8	65.8
High	Car	2008	Toyota	PRIUS	Car	3000	Front	CVT	1	Port	76	91	66.6	64.8	65.8
High	Car	2009	Toyota	PRIUS	Car	3000	Front	CVT	1	Port	76	91	66.6	64.8	65.8
High	Car	2010	Toyota	PRIUS	Car	3500	Front	CVT	1	Port	98	110	71.9	69.6	70.8
High	Car	2011	Toyota	PRIUS	Car	3500	Front	CVT	1	Port	98	110	72.1	69.7	71.0
High	Car	2012	Toyota	PRIUS	Car	3500	Front	CVT	1	Port	98	109.7	72.0	69.7	71.0
High	Car	2013	Toyota	PRIUS c	Car	2750	Front	CVT	1	Port	72	91.35	71.8	69.6	70.8

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													City	Hwy	Comb
Low	Truck	1975	Ford	FORD F-250	Pickup	5000	Rear	Automatic		Carb	150	360	8.4	10.0	9.0
Low	Truck	1976	GM	CHEV P20 STEP	Van	6500	Rear	Automatic		Carb	245	454	8.1	10.9	9.2
Low	Truck	1977	Toyota	LAND CRUISER WAG	Truck SUV	4500	Rear	Manual		Carb	125	258	8.2	11.4	9.4
Low	Truck	1978	GM	CHEV C20 SUBN	Truck SUV	5500	Rear	Automatic		Carb	185	454	8.9	10.4	9.5
Low	Truck	1978	GM	GMC C2500 SUBN	Truck SUV	5500	Rear	Automatic		Carb	185	454	8.9	10.4	9.5
Low	Truck	1979	Ford	PICKUP	Pickup	5500	Rear	Automatic	3	Carb	270	460	9.0	9.9	9.4
Low	Truck	1980	GM	CAB CHAS.	Pickup	6000	Rear	Automatic with Lockup	3	Carb	155	350	9.0	11.3	9.9
Low	Truck	1981	Chrysler-Fiat	B250 VAN CONVERS	Van	5500	Rear	Automatic	3	Carb	170	360	9.9	12.9	11.1
Low	Truck	1982	GM	G30 SPRTVN 2WD	Van	5500	Rear	Automatic with Lockup	3	Carb	165	350	10.6	13.9	11.9
Low	Truck	1982	GM	G35 SPRTVN 2WD	Van	6000	Rear	Automatic with Lockup	3	Carb	165	350	10.6	13.9	11.9
Low	Truck	1982	GM	G35 SPRTVN 2WD	Van	5500	Rear	Automatic with Lockup	3	Carb	165	350	10.6	13.9	11.9
Low	Truck	1982	GM	G30 SPRTVN 2WD	Van	6000	Rear	Automatic with Lockup	3	Carb	165	350	10.6	13.9	11.9
Low	Truck	1983	Ford	E250 ECONOLINE 2	Van	5500	Rear	Automatic	3	Carb	143	351	10.9	13.9	12.1
Low	Truck	1984	Chrysler-Fiat	B350 WAGON 2WD	Van	5500	Rear	Automatic	3	Carb	175	360	9.7	13.7	11.2
Low	Truck	1985	Ford	E250 ECONOLINE 2	Van	5500	Rear	Automatic	3	Carb	154	351	10.6	12.3	11.3
Low	Truck	1986	Chrysler-Fiat	B350 WAGON 2WD	Van	5500	Rear	Automatic	3	Carb	170	360	10.9	14.3	12.2
Low	Truck	1987	Chrysler-Fiat	AW150 RAMCHARGER	Truck SUV	5000	4wd	Automatic	3	Carb	175	360	10.3	14.4	11.8
Low	Truck	1988	Chrysler-Fiat	W100/W150 PICKUP	Pickup	5000	4wd	Automatic	3	Carb	175	360	10.4	13.7	11.7
Low	Truck	1988	Chrysler-Fiat	W250 PICKUP 4WD	Pickup	5000	4wd	Automatic	3	Carb	175	360	10.4	13.7	11.7
Low	Truck	1989	Chrysler-Fiat	B350 WAGON 2WD	Van	5500	Rear	Automatic	3	TBI	145	360	11.0	14.1	12.2
Low	Truck	1990	GM	C1500 P/U 2WD	Pickup	4500	Rear	Automatic	3	TBI	230	454	10.6	14.1	11.9
Low	Truck	1991	Chrysler-Fiat	W250 PICKUP 4WD	Pickup	5500	4wd	Manual	3	TBI	190	360	10.4	16.1	12.4
Low	Truck	1992	Chrysler-Fiat	W250 PICKUP 4WD	Pickup	5000	4wd	Manual	4	TBI	203	360	10.3	16.7	12.4
Low	Truck	1992	Chrysler-Fiat	W250 PICKUP 4WD	Pickup	5500	4wd	Manual	4	TBI	203	360	10.3	16.7	12.4
Low	Truck	1993	GM	C1500 P/U 2WD	Pickup	4500	Rear	Automatic with Lockup	4	TBI	255	454	10.6	15.8	12.5
Low	Truck	1994	Chrysler-Fiat	B150/B250 WAGON	Van	5500	Rear	Automatic with Lockup	4	Port	230	360	12.7	18.2	14.7
Low	Truck	1995	Chrysler-Fiat	B3500 WAGON 2WD	Van	5500	Rear	Automatic with Lockup	4	Port	230	360	12.5	18.7	14.7
Low	Truck	1996	Chrysler-Fiat	RAM 1500_PICKUP_4WD	Pickup	5500	4wd	Automatic with Lockup	4	Port	230	360	12.2	19.5	14.7
Low	Truck	1996	Chrysler-Fiat	RAM 2500_PICKUP_4WD	Pickup	5500	4wd	Automatic with Lockup	4	Port	230	360	12.2	19.5	14.7
Low	Truck	1997	Chrysler-Fiat	B3500 WAGON_2WD	Van	6000	Rear	Automatic with Lockup	4	Port	230	360	12.1	18.8	14.4
Low	Truck	1997	Chrysler-Fiat	B3500 WAGON_2WD	Van	5500	Rear	Automatic with Lockup	4	Port	230	360	12.1	18.8	14.4
Low	Truck	1998	Chrysler-Fiat	RAM 1500_PICKUP_4WD	Pickup	6000	4wd	Automatic with Lockup	4	Port	235	360	12.8	20.8	15.5
Low	Truck	1999	Chrysler-Fiat	RAM 1500_PICKUP_4WD	Pickup	5000	4wd	Automatic with Lockup	4	Port	245	360	13.0	20.8	15.7
Low	Truck	1999	Chrysler-Fiat	DURANGO 4WD	Truck SUV	5000	4wd	Automatic with Lockup	4	Port	245	360	13.0	20.8	15.7
Low	Truck	2000	Chrysler-Fiat	RAM 1500_PICKUP_4WD	Pickup	6000	4wd	Automatic with Lockup	4	Port	230	318	12.8	20.4	15.4
Low	Truck	2001	GM	K1500 SIERRA_4WD	Pickup	5500	4wd	Automatic with Lockup	4	Port	300	364	12.4	18.0	14.4
Low	Truck	2002	Chrysler-Fiat	RAM 1500_PICKUP_4WD	Pickup	5500	4wd	Automatic with Lockup	4	Port	245	360	12.7	19.7	15.1
Low	Truck	2003	GM	G1500-2500 CHEVY_VAN_2WD	Van	6000	Rear	Automatic with Lockup	4	Port	300	364	10.7	18.0	13.1
Low	Truck	2004	GM	G1500-2500 SAVANA 2WD CARGO	Van	6000	Rear	Automatic with Lockup	4	Port	300	412	10.2	17.1	12.5
Low	Truck	2004	GM	G1500-2500 CHEVY VAN 2WD	Van	6000	Rear	Automatic with Lockup	4	Port	300	412	10.2	17.1	12.5
Low	Truck	2005	Chrysler-Fiat	RAM 1500 PICKUP 2WD	Pickup	6000	Rear	Automatic with Lockup	4	Port	500	505	10.0	15.7	12.0
Low	Truck	2006	Chrysler-Fiat	RAM 1500 PICKUP 2WD	Pickup	6000	Rear	Automatic with Lockup	4	Port	500	505	10.0	15.7	12.0
Low	Truck	2007	Ford	STAGE3 F150 SUPERCREW 4WD	Pickup	6500	4wd	Automatic with Lockup	4	Port	445	330	12.9	19.1	15.1
Low	Truck	2008	Daimler	G55 AMG	Truck SUV	6000	4wd	Automatic with Lockup	5	Port	493	332	13.2	18.5	15.2
Low	Truck	2009	Daimler	ML63 AMG	Truck SUV	5500	4wd	Automatic with Lockup	7	Port	503	379	12.8	19.8	15.2
Low	Truck	2010	Daimler	ML 63 AMG	Truck SUV	5500	4wd	Automatic with Lockup	7	Port	503	384	12.8	19.7	15.2
Low	Truck	2011	Ford	E350 WAGON	Van	7000	Rear	Automatic with Lockup	5	Port	305	415	11.5	17.1	13.5
Low	Truck	2012	Ford	E350 WAGON	Van	7000	Rear	Automatic with Lockup	5	Port	305	415	11.3	16.7	13.2
Low	Truck	2013	Ford	E350 WAGON	Van	7000	Rear	Automatic with Lockup	5	Port	305	415	11.8	17.9	13.9

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													City	Hwy	Comb
High	Truck	1975	Nissan	PICKUP	Pickup	2750	Rear	Manual		Carb	107	119	20.4	31.7	24.3
High	Truck	1976	Ford	COURIER PICKUP	Pickup	3000	Rear	Manual		Carb	65	109	23.5	33.3	27.0
High	Truck	1977	Ford	COURIER CAB CHAS	Pickup	3000	Rear	Manual		Carb	67	110	27.8	39.8	32.2
High	Truck	1977	Mazda	MAZDA B1800 PICK	Pickup	3000	Rear	Manual		Carb	67	110	27.8	39.8	32.2
High	Truck	1977	Ford	COURIER PICKUP	Pickup	3000	Rear	Manual		Carb	67	110	27.8	39.8	32.2
High	Truck	1978	Ford	COURIER PICKUP	Pickup	3000	Rear	Manual		Carb	67	110	29.2	38.4	32.7
High	Truck	1978	Mazda	B1800 PICKUP	Pickup	3000	Rear	Manual		Carb	67	110	29.2	38.4	32.7
High	Truck	1978	Ford	COURIER CAB CHAS	Pickup	3000	Rear	Manual		Carb	67	110	29.2	38.4	32.7
High	Truck	1979	Mazda	B2000 PICKUP	Pickup	3000	Rear	Manual	5	Carb	72	120	26.7	36.8	30.5
High	Truck	1979	Ford	COURIER PICKUP	Pickup	3000	Rear	Manual	5	Carb	72	120	26.7	36.8	30.5
High	Truck	1980	VW	2WD	Pickup	2250	Front	Manual	5	Diesel	48	90	39.9	53.3	45.0
High	Truck	1981	VW	P/U 2WD	Pickup	2250	Front	Manual	5	Diesel	52	97	37.2	50.8	42.3
High	Truck	1982	VW	P/U 2WD	Pickup	2250	Front	Manual	4	Diesel	52	97	40.6	48.0	43.6
High	Truck	1983	VW	P/U 2WD	Pickup	2250	Front	Manual	4	Diesel	52	97	42.0	49.6	45.1
High	Truck	1984	GM	PUP P/U 2WD	Pickup	2750	Rear	Manual	4	Diesel	62	137	38.4	49.1	42.6
High	Truck	1985	GM	PUP P/U 2WD	Pickup	2750	Rear	Manual	4	Diesel	62	137	38.4	49.1	42.6
High	Truck	1986	GM	PUP 2WD	Pickup	2750	Rear	Manual	4	Diesel	62	137	38.4	49.1	42.6
High	Truck	1987	GM	PUP-2WD	Pickup	3000	Rear	Manual	4	Diesel	60	137	38.4	49.8	42.8
High	Truck	1988	Suzuki	SAMURAI	Truck SUV	2250	4wd	Manual	5	Carb	64	81	30.6	37.2	33.2
High	Truck	1989	Suzuki	SIDEKICK	Truck SUV	2250	4wd	Manual	5	Carb	64	79	31.0	36.9	33.4
High	Truck	1990	Suzuki	SAMURAI	Truck SUV	2500	4wd	Manual	5	TBI	66	79	31.2	36.8	33.5
High	Truck	1991	Suzuki	SAMURAI	Truck SUV	2500	4wd	Manual	5	TBI	66	79	31.3	36.7	33.5
High	Truck	1992	Suzuki	SAMURAI	Truck SUV	2500	4wd	Manual	5	TBI	66	79	31.2	36.8	33.5
High	Truck	1993	Suzuki	SAMURAI	Truck SUV	2500	4wd	Manual	5	TBI	66	79	31.2	36.8	33.5
High	Truck	1994	Suzuki	SAMURAI	Truck SUV	2500	4wd	Manual	5	TBI	66	79	31.2	36.8	33.5
High	Truck	1995	Suzuki	SAMURAI	Truck SUV	2500	4wd	Manual	5	TBI	66	79	31.3	36.8	33.6
High	Truck	1996	GM	S10 PICKUP_2WD	Pickup	3000	Rear	Manual	5	Port	118	134	26.6	39.8	31.3
High	Truck	1996	GM	SONOMA 2WD	Pickup	3000	Rear	Manual	5	Port	118	134	26.6	39.8	31.3
High	Truck	1997	GM	S10 PICKUP_2WD	Pickup	3000	Rear	Manual	5	Port	118	134	26.6	39.8	31.3
High	Truck	1997	GM	SONOMA 2WD	Pickup	3000	Rear	Manual	5	Port	118	134	26.6	39.8	31.3
High	Truck	1998	Suzuki	X-90 4WD	Truck SUV	2750	4wd	Manual	5	Port	95	97	27.6	35.9	30.8
High	Truck	1999	GM	TRACKER 4X4_CONVERTIBLE	Truck SUV	3000	4wd	Manual	5	Port	97	97	28.1	35.8	31.1
High	Truck	2000	GM	TRACKER CONVERTIBLE_4X4	Truck SUV	3000	4wd	Manual	5	Port	97	97	27.9	35.0	30.7
High	Truck	2000	Suzuki	VITARA CONVERTIBLE_4WD	Truck SUV	3000	4wd	Manual	5	Port	97	97	27.9	35.0	30.7
High	Truck	2001	Mazda	B2300 2WD	Pickup	3500	Rear	Manual	5	Port	138	140	26.7	35.0	29.9
High	Truck	2001	Ford	RANGER PICKUP_2WD	Pickup	3500	Rear	Manual	5	Port	138	140	26.7	35.0	29.9
High	Truck	2002	GM	TRACKER 4WD_HARDTOP	Truck SUV	3500	4wd	Automatic with Lockup	4	Port	141	118	28.6	39.5	32.7
High	Truck	2002	Suzuki	VITARA 4-DOOR_4WD	Truck SUV	3500	4wd	Automatic with Lockup	4	Port	141	118	28.6	39.5	32.7
High	Truck	2003	Mazda	B2300 2WD	Pickup	3500	Rear	Manual	5	Port	140	140	26.7	36.5	30.4
High	Truck	2003	Ford	RANGER PICKUP_2WD	Pickup	3500	Rear	Manual	5	Port	140	140	26.7	36.5	30.4
High	Truck	2004	Ford	RANGER PICKUP 2WD	Pickup	3500	Rear	Manual	5	Port	140	140	26.2	37.1	30.2
High	Truck	2004	Mazda	B2300 2WD	Pickup	3500	Rear	Manual	5	Port	140	140	26.2	37.1	30.2
High	Truck	2005	Ford	ESCAPE HEV 4WD	Truck SUV	4000	4wd	CVT	1	Port	135	140	36.5	36.7	36.6
High	Truck	2006	Ford	ESCAPE HYBRID 4WD	Truck SUV	4000	4wd	CVT	1	Port	135	140	36.5	36.7	36.6
High	Truck	2006	Ford	MARINER HYBRID 4WD	Truck SUV	4000	4wd	CVT	1	Port	135	140	36.5	36.7	36.6
High	Truck	2006	Mazda	TRIBUTE HYBRID 4WD	Truck SUV	4000	4wd	CVT	1	Port	135	140	36.5	36.7	36.6
High	Truck	2007	Ford	ESCAPE HYBRID 4WD	Truck SUV	4000	4wd	CVT	1	Port	133	140	35.8	37.3	36.5
High	Truck	2007	Ford	MARINER HYBRID 4WD	Truck SUV	4000	4wd	CVT	1	Port	133	140	35.8	37.3	36.5
High	Truck	2008	Ford	MARINER HYBRID 4WD	Truck SUV	4000	4wd	CVT	1	Port	133	140	38.3	37.7	38.0
High	Truck	2008	Mazda	TRIBUTE HYBRID 4WD	Truck SUV	4000	4wd	CVT	1	Port	133	140	38.3	37.7	38.0
High	Truck	2008	Ford	ESCAPE HYBRID 4WD	Truck SUV	4000	4wd	CVT	1	Port	133	140	38.3	37.7	38.0
High	Truck	2009	GM	VUE HYBRID	Truck SUV	4500	Front	CVT	1	GDI	262	218	34.5	41.7	37.4
High	Truck	2010	Mazda	TRIBUTE HYBRID 4WD	Truck SUV	4000	4wd	CVT	1	Port	155	153	40.1	38.3	39.3
High	Truck	2011	Ford	ESCAPE HYBRID 4WD	Truck SUV	4000	4wd	CVT	1	Port	155	153	39.8	38.1	39.0
High	Truck	2011	Ford	MARINER HYBRID 4WD	Truck SUV	4000	4wd	CVT	1	Port	155	153	39.8	38.1	39.0
High	Truck	2012	Ford	ESCAPE HYBRID AWD	Truck SUV	4000	4wd	CVT	1	Port	155	152.6	39.8	38.1	39.0
High	Truck	2013	Toyota	RX 450h AWD	Truck SUV	5000	4wd	CVT	6	Port	245	210.9	38.5	38.6	38.6

## 2013 FE Trends Report

### Appendix B: Production-Weighted Percent Distribution of Adjusted Fuel Economy (MPG)

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	10.2	11.3	11.7	12.3	12.7	14.6	17.3	18.9	22.9	24.5	28.5	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	12.6	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	24.9	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	26.1	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	24.5	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	23.8	27.1	27.6	30.1	31.3	38.2	54.8	23.8
Car	1988	7.5	18.1	19.2	19.4	21.2	22.4	24.1	27.2	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	23.2	26.3	27.2	29.1	31.0	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	21.0	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	20.8	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	25.8	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	29.6	30.9	42.9	53.0	23.0
Car	2007	10.4	17.2	18.7	19.6	20.7	21.2	23.6	26.0	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	35.1	42.9	49.3	25.7
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	11.0	18.8	20.5	22.0	23.5	24.3	27.6	30.6	32.1	33.2	35.6	48.1	49.4	27.0
Car	2013	11.2	19.0	20.9	22.1	23.7	24.5	27.6	31.4	32.1	33.2	37.2	48.8	49.2	27.4

## 2013 FE Trends Report

### Appendix B: Production-Weighted Percent Distribution of Adjusted Fuel Economy (MPG)

Car or Truck	Model Year	Percentile Level													Actual Average
		0%	1%	5%	10%	20%	25%	50%	75%	80%	90%	95%	99%	100%	
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	8.9	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	24.4	27.8	12.9
Truck	1979	7.9	8.0	9.2	9.6	10.4	10.7	12.1	15.2	16.1	19.5	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	18.2	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	14.4	15.1	15.7	18.5	21.8	22.9	24.2	25.4	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	23.7	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	20.4	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	12.9	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	19.6	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	14.8	15.2	17.4	19.4	19.6	21.5	22.7	24.3	25.6	17.2
Truck	1997	12.0	13.1	13.8	14.5	15.0	15.3	16.8	18.6	19.3	20.2	22.0	24.2	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	23.9	25.1	17.1
Truck	1999	13.0	13.0	13.6	13.9	14.7	15.1	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	22.8	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	22.6	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
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	11.0	14.5	15.3	16.1	17.3	17.6	19.2	21.2	22.2	23.8	24.3	24.6	28.5	19.1
Truck	2012	10.8	14.6	15.3	16.0	17.4	17.7	19.4	21.3	22.2	23.7	24.8	25.6	28.5	19.3
Truck	2013	11.4	14.7	15.4	16.4	17.5	17.8	19.6	22.0	23.1	24.5	26.0	27.5	29.4	19.7

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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 Combined	Car	1975		6.6%	57.4%	23.9%	9.0%	3.1%														
Adjusted Combined	Car	1976		0.3%	57.6%	24.4%	13.2%	3.8%	0.7%													
Adjusted Combined	Car	1977		0.3%	44.0%	36.6%	10.2%	6.5%	1.5%	0.8%												
Adjusted Combined	Car	1978		0.3%	26.8%	48.4%	13.6%	6.9%	3.6%	0.3%												
Adjusted Combined	Car	1979		0.1%	24.2%	48.5%	17.9%	8.0%	1.0%	0.4%												
Adjusted Combined	Car	1980		0.0%	5.7%	44.7%	33.0%	12.7%	2.7%	1.0%	0.2%											
Adjusted Combined	Car	1981	0.0%	0.0%	2.6%	38.1%	33.6%	18.4%	5.1%	1.5%	0.8%											
Adjusted Combined	Car	1982		0.0%	0.3%	31.1%	31.6%	27.9%	7.0%	1.2%	0.8%											
Adjusted Combined	Car	1983		0.0%	0.3%	33.7%	29.6%	24.7%	9.5%	1.9%	0.4%	0.0%										
Adjusted Combined	Car	1984		0.0%	0.1%	26.9%	33.2%	30.7%	5.5%	3.0%	0.4%	0.2%										
Adjusted Combined	Car	1985		0.0%	0.1%	27.4%	29.3%	33.5%	7.3%	1.5%	0.4%	0.5%										
Adjusted Combined	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 Combined	Car	1987		0.0%	0.3%	16.0%	40.0%	33.1%	8.6%	1.5%	0.0%	0.3%	0.2%									
Adjusted Combined	Car	1988		0.0%	0.3%	14.4%	40.5%	33.8%	8.1%	2.5%	0.0%	0.2%	0.2%									
Adjusted Combined	Car	1989		0.0%	0.3%	14.5%	46.3%	30.5%	6.2%	1.8%	0.0%	0.3%	0.1%									
Adjusted Combined	Car	1990		0.0%	0.2%	14.1%	50.7%	28.7%	5.2%	0.7%	0.1%	0.3%	0.0%									
Adjusted Combined	Car	1991		0.0%	0.2%	16.5%	49.1%	26.8%	5.8%	0.9%	0.6%	0.1%	0.0%									
Adjusted Combined	Car	1992		0.0%	0.2%	14.1%	56.0%	22.1%	5.0%	1.6%	0.8%	0.1%	0.1%									
Adjusted Combined	Car	1993		0.0%	0.1%	17.4%	50.8%	24.2%	5.2%	1.5%	0.6%	0.0%	0.1%									
Adjusted Combined	Car	1994			0.1%	18.8%	50.7%	23.5%	4.9%	1.4%	0.6%	0.0%	0.1%									
Adjusted Combined	Car	1995		0.0%	0.1%	15.2%	51.7%	25.2%	7.0%	0.4%	0.4%	0.0%										
Adjusted Combined	Car	1996			0.1%	12.9%	60.5%	20.6%	5.1%	0.4%	0.3%											
Adjusted Combined	Car	1997			0.1%	12.7%	59.1%	23.6%	4.1%	0.2%	0.2%											
Adjusted Combined	Car	1998			0.1%	13.8%	57.2%	25.3%	3.2%	0.1%	0.3%											
Adjusted Combined	Car	1999			0.0%	14.0%	62.9%	21.3%	1.5%	0.1%	0.1%											
Adjusted Combined	Car	2000		0.0%	0.0%	14.2%	66.1%	17.8%	1.5%	0.2%	0.1%			0.1%								
Adjusted Combined	Car	2001		0.0%	0.0%	16.8%	58.0%	18.3%	6.5%	0.1%	0.3%	0.0%		0.0%								
Adjusted Combined	Car	2002			0.1%	12.8%	64.4%	16.6%	5.5%	0.2%	0.4%	0.0%		0.0%								
Adjusted Combined	Car	2003		0.0%	0.1%	12.3%	60.4%	22.6%	3.9%	0.0%	0.8%	0.0%	0.0%									
Adjusted Combined	Car	2004			0.1%	14.8%	57.0%	25.1%	2.0%	0.1%	0.3%	0.6%	0.0%									
Adjusted Combined	Car	2005			0.2%	16.0%	48.7%	27.6%	5.8%	0.1%	0.3%	1.4%	0.0%									
Adjusted Combined	Car	2006			0.3%	16.1%	52.4%	21.6%	8.1%	0.0%	0.4%	1.0%	0.0%									
Adjusted Combined	Car	2007			0.3%	13.9%	44.6%	29.1%	10.0%		0.4%	1.8%										
Adjusted Combined	Car	2008			0.2%	11.5%	46.7%	29.9%	9.0%	0.3%	0.4%	2.1%										
Adjusted Combined	Car	2009			0.2%	6.0%	38.6%	37.1%	16.2%	0.4%	0.3%	1.3%										
Adjusted Combined	Car	2010			0.1%	4.7%	35.1%	38.4%	16.0%	1.4%	0.7%	3.6%										
Adjusted Combined	Car	2011			0.1%	4.9%	36.1%	42.5%	12.9%	1.2%	0.4%	1.9%										
Adjusted Combined	Car	2012			0.1%	3.2%	26.5%	39.8%	25.3%	1.9%	1.2%	2.0%										
Adjusted Combined	Car	2013			0.1%	3.2%	25.2%	39.3%	25.1%	2.9%	0.8%	3.4%										

**2013 FE Trends Report**  
**Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band**

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 Combined	Truck	1975		27.7%	51.8%	18.0%	2.5%															
Adjusted Combined	Truck	1976		12.0%	66.1%	16.7%	5.1%															
Adjusted Combined	Truck	1977		3.7%	66.0%	19.9%	9.2%	1.3%														
Adjusted Combined	Truck	1978		2.9%	68.6%	19.0%	8.6%	0.9%														
Adjusted Combined	Truck	1979		14.4%	59.3%	18.4%	6.8%	1.2%														
Adjusted Combined	Truck	1980		0.2%	40.7%	37.9%	19.1%	1.5%		0.6%												
Adjusted Combined	Truck	1981		0.0%	22.8%	50.7%	16.1%	7.1%	2.6%	0.7%												
Adjusted Combined	Truck	1982			21.9%	45.1%	23.7%	8.0%	0.8%	0.6%												
Adjusted Combined	Truck	1983			21.1%	41.3%	26.7%	9.8%	0.9%	0.2%												
Adjusted Combined	Truck	1984		0.1%	24.2%	43.0%	24.8%	7.1%	0.8%	0.1%												
Adjusted Combined	Truck	1985		0.0%	27.8%	40.8%	26.3%	4.8%	0.3%	0.0%												
Adjusted Combined	Truck	1986			19.7%	41.4%	33.5%	5.3%	0.1%	0.0%												
Adjusted Combined	Truck	1987			17.3%	43.1%	33.4%	6.1%	0.0%	0.0%												
Adjusted Combined	Truck	1988		0.0%	17.8%	53.0%	22.1%	6.9%														
Adjusted Combined	Truck	1989			18.8%	54.3%	24.3%	2.7%														
Adjusted Combined	Truck	1990		0.3%	21.8%	55.5%	18.8%	3.6%														
Adjusted Combined	Truck	1991			16.6%	59.9%	21.4%	2.1%														
Adjusted Combined	Truck	1992			19.2%	60.0%	20.7%	0.1%														
Adjusted Combined	Truck	1993			14.5%	66.2%	19.2%	0.0%														
Adjusted Combined	Truck	1994			23.1%	60.7%	16.1%	0.1%														
Adjusted Combined	Truck	1995			24.4%	59.8%	15.8%	0.0%														
Adjusted Combined	Truck	1996			22.0%	61.0%	17.1%	0.0%														
Adjusted Combined	Truck	1997			19.5%	70.5%	10.1%	0.0%														
Adjusted Combined	Truck	1998			23.5%	62.0%	14.6%	0.0%														
Adjusted Combined	Truck	1999			24.2%	63.7%	12.2%															
Adjusted Combined	Truck	2000			17.1%	72.0%	11.0%															
Adjusted Combined	Truck	2001			23.5%	66.6%	9.9%															
Adjusted Combined	Truck	2002			19.9%	71.3%	8.6%	0.2%														
Adjusted Combined	Truck	2003			24.1%	61.6%	14.4%															
Adjusted Combined	Truck	2004			25.5%	63.4%	11.1%															
Adjusted Combined	Truck	2005		0.0%	20.9%	64.4%	14.6%	0.1%														
Adjusted Combined	Truck	2006		0.0%	13.8%	69.9%	14.8%	1.5%														
Adjusted Combined	Truck	2007			10.1%	74.4%	14.7%	0.8%														
Adjusted Combined	Truck	2008			9.7%	70.5%	18.9%	0.9%														
Adjusted Combined	Truck	2009			2.6%	66.9%	29.5%	1.1%														
Adjusted Combined	Truck	2010			3.0%	63.3%	31.4%	2.4%														
Adjusted Combined	Truck	2011			3.7%	58.8%	34.8%	2.7%														
Adjusted Combined	Truck	2012			3.9%	55.2%	35.7%	5.3%														
Adjusted Combined	Truck	2013			2.5%	50.6%	37.9%	9.0%														

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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	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%								
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%	0.2%	6.7%	25.0%	42.7%	20.6%	2.9%	2.0%										
Adjusted Highway	Car	2013			0.0%	0.2%	5.5%	24.2%	36.5%	27.7%	2.4%	3.4%										

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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	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%														
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%	20.3%	52.2%	27.4%														
Adjusted Highway	Truck	2013			0.0%	15.6%	52.7%	29.1%	2.6%													

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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	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%									
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%	0.8%	23.7%	43.6%	26.2%	1.6%	0.1%	1.9%		2.0%									
Adjusted City	Car	2013		0.0%	0.8%	22.6%	41.6%	26.9%	3.0%	0.5%	1.3%	0.7%	2.7%									

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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	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%															
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%	30.8%	54.5%	14.4%	0.2%	0.0%													
Adjusted City	Truck	2013		0.0%	32.7%	49.1%	16.8%	1.4%														

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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	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%									
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%	3.9%	18.7%	30.5%	21.8%	18.9%	1.9%	0.9%	1.1%	0.1%		2.0%					
Lab 55/45	Car	2013			0.0%	0.1%	3.6%	16.9%	30.5%	19.1%	21.9%	2.6%	0.8%	0.7%	0.2%	0.8%	2.8%					

**2013 FE Trends Report**  
**Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band**

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	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%													
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%	10.2%	48.2%	29.6%	11.7%	0.3%												
Lab 55/45	Truck	2013			0.0%	9.2%	44.1%	29.6%	15.8%	1.3%												

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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	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%								
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%	2.7%	20.6%	33.9%	20.1%	18.0%	0.1%	0.6%	0.5%	1.3%	0.1%		2.0%					
Lab City	Car	2013		0.0%	0.1%	3.1%	19.1%	30.9%	24.8%	15.8%	1.1%	0.5%	0.1%	0.9%	0.1%	0.8%	2.8%					

**2013 FE Trends Report**  
**Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band**

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	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%													
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			0.9%	42.8%	41.3%	14.7%		0.3%												
Lab City	Truck	2013			1.4%	38.9%	40.7%	15.8%	2.7%	0.5%												

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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	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%					
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%	0.5%	6.5%	16.5%	20.6%	30.9%	14.1%	8.5%	0.3%	2.1%						
Lab Highway	Car	2013				0.0%	0.1%	0.5%	4.6%	14.1%	26.3%	22.7%	16.3%	11.3%	0.1%	3.7%						

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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	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%												
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%	5.9%	36.2%	28.8%	23.7%	5.6%											
Lab Highway	Truck	2013				0.0%	6.7%	33.5%	31.7%	17.3%	10.6%	0.3%										

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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 Combined	All	1975		10.7%	56.3%	22.7%	7.8%	2.5%														
Adjusted Combined	All	1976		2.8%	59.4%	22.8%	11.5%	3.0%	0.5%													
Adjusted Combined	All	1977		0.9%	48.4%	33.3%	10.0%	5.5%	1.2%	0.7%												
Adjusted Combined	All	1978		0.9%	36.2%	41.7%	12.5%	5.6%	2.8%	0.3%												
Adjusted Combined	All	1979		3.2%	31.9%	41.8%	15.5%	6.5%	0.8%	0.3%												
Adjusted Combined	All	1980		0.0%	11.4%	43.6%	30.7%	10.8%	2.3%	1.0%	0.2%											
Adjusted Combined	All	1981	0.0%	0.0%	6.1%	40.2%	30.6%	16.4%	4.6%	1.3%	0.7%											
Adjusted Combined	All	1982		0.0%	4.5%	33.9%	30.1%	24.0%	5.8%	1.1%	0.6%											
Adjusted Combined	All	1983		0.0%	4.9%	35.3%	28.9%	21.4%	7.6%	1.5%	0.3%	0.0%										
Adjusted Combined	All	1984		0.0%	5.8%	30.7%	31.2%	25.1%	4.4%	2.3%	0.3%	0.1%										
Adjusted Combined	All	1985		0.0%	7.0%	30.7%	28.6%	26.4%	5.5%	1.1%	0.3%	0.3%										
Adjusted Combined	All	1986		0.0%	5.7%	23.6%	35.6%	27.8%	5.3%	1.4%	0.2%	0.2%	0.1%	0.2%								
Adjusted Combined	All	1987		0.0%	4.9%	23.3%	38.2%	25.8%	6.3%	1.1%	0.0%	0.2%	0.1%									
Adjusted Combined	All	1988		0.0%	5.4%	25.7%	35.1%	26.0%	5.7%	1.8%	0.0%	0.2%	0.1%									
Adjusted Combined	All	1989		0.0%	5.8%	26.4%	39.7%	22.1%	4.3%	1.3%	0.0%	0.2%	0.1%									
Adjusted Combined	All	1990		0.1%	6.6%	26.4%	41.3%	21.2%	3.7%	0.5%	0.1%	0.2%	0.0%									
Adjusted Combined	All	1991		0.0%	5.2%	29.7%	40.7%	19.3%	4.0%	0.6%	0.4%	0.1%	0.0%									
Adjusted Combined	All	1992		0.0%	6.2%	28.5%	44.9%	15.2%	3.4%	1.1%	0.5%	0.1%	0.1%									
Adjusted Combined	All	1993		0.0%	4.8%	33.2%	40.6%	16.3%	3.5%	1.0%	0.4%	0.0%	0.1%									
Adjusted Combined	All	1994			8.8%	34.7%	37.5%	14.6%	3.0%	0.9%	0.4%	0.0%	0.1%									
Adjusted Combined	All	1995		0.0%	9.0%	31.5%	38.6%	16.0%	4.4%	0.3%	0.3%	0.0%										
Adjusted Combined	All	1996			8.3%	31.1%	44.1%	12.8%	3.2%	0.3%	0.2%											
Adjusted Combined	All	1997			7.8%	35.7%	39.6%	14.2%	2.5%	0.1%	0.1%											
Adjusted Combined	All	1998			9.8%	33.9%	39.4%	14.8%	1.9%	0.1%	0.2%											
Adjusted Combined	All	1999			10.1%	34.7%	41.7%	12.4%	0.9%	0.1%	0.1%											
Adjusted Combined	All	2000		0.0%	7.1%	38.0%	43.3%	10.5%	0.9%	0.1%	0.1%			0.0%								
Adjusted Combined	All	2001		0.0%	9.8%	37.4%	38.1%	10.7%	3.8%	0.1%	0.2%	0.0%		0.0%								
Adjusted Combined	All	2002			8.9%	39.0%	39.4%	9.3%	3.0%	0.1%	0.2%	0.0%		0.0%								
Adjusted Combined	All	2003		0.0%	11.1%	35.0%	39.1%	12.2%	2.1%	0.0%	0.4%	0.0%	0.0%									
Adjusted Combined	All	2004			12.3%	38.1%	35.0%	13.0%	1.1%	0.1%	0.1%	0.3%	0.0%									
Adjusted Combined	All	2005		0.0%	9.3%	37.5%	33.6%	15.4%	3.2%	0.1%	0.2%	0.8%	0.0%									
Adjusted Combined	All	2006		0.0%	6.0%	38.8%	36.6%	13.1%	4.7%	0.0%	0.2%	0.6%	0.0%									
Adjusted Combined	All	2007			4.3%	38.8%	32.3%	17.5%	5.9%		0.2%	1.0%										
Adjusted Combined	All	2008			4.1%	35.5%	35.4%	18.1%	5.4%	0.2%	0.2%	1.2%										
Adjusted Combined	All	2009			1.0%	26.0%	35.6%	25.2%	10.9%	0.2%	0.2%	0.9%										
Adjusted Combined	All	2010			1.2%	26.5%	33.7%	25.0%	10.0%	0.9%	0.5%	2.3%										
Adjusted Combined	All	2011			1.6%	27.7%	35.6%	25.7%	7.4%	0.7%	0.2%	1.1%										
Adjusted Combined	All	2012			1.5%	21.7%	29.7%	27.5%	16.3%	1.2%	0.8%	1.3%										
Adjusted Combined	All	2013			0.9%	20.1%	29.7%	28.5%	16.2%	1.9%	0.5%	2.2%										

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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	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%									
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%	7.4%	22.9%	25.9%	27.5%	13.2%	1.9%	1.3%										
Adjusted Highway	All	2013			0.0%	5.7%	22.3%	26.0%	24.4%	17.9%	1.6%	2.2%										

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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	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%											
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%	11.5%	34.7%	33.2%	16.9%	1.1%	0.1%	1.2%		1.3%									
Adjusted City	All	2013		0.0%	12.1%	32.0%	32.7%	17.8%	2.0%	0.3%	0.8%	0.5%	1.7%									

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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	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%										
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%	3.8%	19.7%	22.6%	23.8%	14.1%	12.2%	1.2%	0.6%	0.7%	0.1%		1.3%					
Lab 55/45	All	2013			0.0%	3.4%	18.0%	21.4%	25.3%	12.8%	14.1%	1.7%	0.5%	0.4%	0.1%	0.5%	1.8%					

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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	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%												
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%	0.4%	17.0%	28.0%	27.1%	12.9%	11.7%	0.1%	0.4%	0.3%	0.9%	0.1%		1.3%					
Lab City	All	2013		0.0%	0.5%	15.8%	26.8%	25.5%	16.9%	10.3%	0.7%	0.3%	0.1%	0.6%	0.1%	0.5%	1.8%					

## 2013 FE Trends Report

### Appendix C: Percent of 1975 to 2013 Production by Fuel Economy Band

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	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%											
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%					
Lab Highway	All	1995			0.0%	1.0%	16.1%	11.4%	21.4%	34.0%	9.4%	5.2%	1.0%	0.2%	0.2%		0.0%					
Lab Highway	All	1996				0.9%	14.6%	13.4%	28.0%	29.2%	7.6%	4.8%	1.3%	0.1%	0.2%							
Lab Highway	All	1997				0.2%	16.4%	16.7%	22.4%	28.1%	11.4%	3.8%	0.7%	0.1%	0.1%							
Lab Highway	All	1998				0.0%	14.2%	17.9%	21.2%	30.6%	10.1%	5.5%	0.4%	0.0%	0.2%							
Lab Highway	All	1999				0.1%	17.4%	17.9%	19.1%	33.4%	8.2%	3.5%	0.3%	0.0%	0.1%							
Lab Highway	All	2000				0.1%	16.2%	18.9%	20.3%	32.6%	9.2%	2.3%	0.3%	0.1%	0.1%					0.0%		
Lab Highway	All	2001				0.1%	19.5%	16.1%	25.3%	23.9%	9.4%	3.8%	1.7%	0.2%	0.1%		0.0%			0.0%		
Lab Highway	All	2002				0.4%	21.4%	17.1%	20.6%	24.6%	10.7%	3.7%	1.1%	0.3%	0.1%		0.0%			0.0%		
Lab Highway	All	2003				0.0%	17.8%	18.8%	23.7%	21.0%	13.6%	4.2%	0.4%	0.2%	0.3%		0.0%			0.0%		
Lab Highway	All	2004				0.0%	20.9%	19.6%	21.7%	20.7%	12.1%	4.2%	0.2%	0.1%	0.5%		0.0%		0.0%			
Lab Highway	All	2005				0.1%	15.0%	18.8%	24.1%	19.5%	16.5%	4.7%	0.3%	0.1%	0.9%		0.0%		0.0%			
Lab Highway	All	2006				0.0%	12.8%	19.0%	24.1%	23.7%	14.1%	3.4%	2.1%	0.0%	0.8%		0.0%		0.0%			
Lab Highway	All	2007				0.0%	8.3%	21.7%	23.1%	21.6%	15.7%	6.4%	1.9%		1.3%							
Lab Highway	All	2008				0.0%	6.4%	20.1%	22.8%	23.8%	15.7%	7.4%	2.2%	0.2%	1.5%							
Lab Highway	All	2009				0.0%	3.0%	14.1%	19.9%	22.5%	22.2%	13.9%	2.7%	0.6%	1.1%							
Lab Highway	All	2010				0.0%	4.2%	14.3%	22.1%	18.6%	15.7%	18.6%	3.4%	0.6%	0.5%	2.3%						
Lab Highway	All	2011				0.1%	2.8%	15.9%	20.9%	22.3%	13.2%	18.1%	4.7%	0.8%	0.2%	1.1%						
Lab Highway	All	2012				0.0%	2.1%	13.2%	14.4%	19.1%	15.2%	19.9%	9.1%	5.5%	0.2%	1.4%						
Lab Highway	All	2013				0.0%	2.5%	12.2%	14.3%	15.3%	20.7%	14.7%	10.5%	7.3%	0.1%	2.4%						

## 2013 FE Trends Report

### Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				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 Comb			CID	HP							Front	4WD
Car	Car	1975	8237	0.806	15.8	12.3	15.2	13.5	4058		288	136	14.2	0.515	0.0331	32.3			6.5%	
Car	Car	1976	9722	0.788	17.5	13.7	16.6	14.9	4059		287	134	14.4	0.502	0.0324	35.5			5.8%	
Car	Car	1977	11300	0.800	18.3	14.4	17.4	15.6	3944	110.4	279	133	14.0	0.516	0.0335	36.4	2091	4021	6.8%	
Car	Car	1978	11175	0.773	19.9	15.5	19.1	16.9	3588	109.0	251	124	13.7	0.538	0.0342	35.9	2240	3926	9.6%	
Car	Car	1979	10794	0.778	20.3	15.9	19.2	17.2	3485	108.9	238	119	13.8	0.545	0.0338	35.4	2258	3878	11.9%	0.3%
Car	Car	1980	9443	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%
Car	Car	1981	8733	0.827	25.1	19.6	24.2	21.4	3076	106.5	182	99	14.4	0.594	0.0320	38.9	2744	4161	37.0%	0.7%
Car	Car	1982	7819	0.803	26.0	20.1	25.5	22.2	3054	106.1	175	99	14.4	0.609	0.0320	40.1	2836	4273	45.6%	0.8%
Car	Car	1983	8002	0.777	25.9	19.9	25.5	22.1	3112	108.7	182	104	14.0	0.615	0.0330	40.7	2904	4426	47.3%	3.1%
Car	Car	1984	10675	0.761	26.3	20.2	26.0	22.4	3099	107.5	179	106	13.8	0.637	0.0339	41.1	2910	4425	53.7%	1.0%
Car	Car	1985	10791	0.746	27.0	20.7	26.8	23.0	3093	108.2	177	111	13.3	0.671	0.0355	42.0	2992	4551	61.6%	2.1%
Car	Car	1986	11015	0.717	27.9	21.2	27.6	23.7	3041	107.3	167	111	13.2	0.701	0.0360	42.6	3057	4585	71.1%	1.1%
Car	Car	1987	10731	0.722	28.1	21.2	27.7	23.8	3031	106.6	162	112	13.0	0.732	0.0365	42.8	3051	4569	77.0%	1.1%
Car	Car	1988	10736	0.702	28.6	21.4	28.2	24.1	3047	107.0	160	116	12.8	0.759	0.0375	43.7	3119	4693	81.7%	0.8%
Car	Car	1989	10018	0.693	28.1	20.9	27.9	23.7	3099	107.7	163	121	12.5	0.783	0.0387	43.8	3080	4723	82.5%	1.0%
Car	Car	1990	8810	0.698	27.8	20.5	27.5	23.3	3176	107.1	163	129	12.1	0.829	0.0401	44.2	3014	4746	84.6%	1.0%
Car	Car	1991	8524	0.678	28.0	20.5	27.6	23.4	3154	106.8	163	132	11.8	0.851	0.0413	44.3	3040	4746	83.2%	1.4%
Car	Car	1992	8108	0.666	27.6	20.0	27.5	23.1	3240	108.4	170	141	11.5	0.868	0.0428	44.9	3040	4877	80.8%	1.1%
Car	Car	1993	8456	0.640	28.2	20.3	27.9	23.5	3207	108.4	166	138	11.6	0.865	0.0425	45.4	3107	4929	85.1%	1.2%
Car	Car	1994	8415	0.596	28.0	20.0	27.7	23.3	3250	108.2	168	143	11.4	0.884	0.0432	45.7	3086	4955	84.4%	0.4%
Car	Car	1995	9396	0.620	28.3	20.0	28.1	23.4	3263	108.7	167	152	10.9	0.945	0.0460	46.4	3130	5045	82.0%	1.2%
Car	Car	1996	7890	0.600	28.3	19.8	28.0	23.3	3282	109.0	165	154	10.8	0.958	0.0464	46.5	3125	5080	86.5%	1.5%
Car	Car	1997	8334	0.576	28.4	19.8	28.0	23.4	3274	108.7	164	156	10.7	0.974	0.0469	46.7	3127	5076	86.5%	1.7%
Car	Car	1998	7971	0.551	28.5	19.7	28.0	23.4	3306	108.6	164	159	10.6	0.993	0.0475	47.3	3138	5145	87.0%	2.3%
Car	Car	1999	8376	0.551	28.2	19.4	27.5	23.0	3365	109.1	166	164	10.5	1.009	0.0481	47.5	3106	5191	87.2%	2.2%
Car	Car	2000	9125	0.551	28.2	19.3	27.3	22.9	3369	109.6	165	168	10.4	1.032	0.0492	47.6	3121	5224	84.9%	2.1%
Car	Car	2001	8405	0.539	28.4	19.4	27.3	23.0	3380	109.3	165	168	10.3	1.042	0.0492	48.4	3159	5292	84.1%	3.2%
Car	Car	2002	8301	0.515	28.6	19.4	27.2	23.1	3391	110.0	166	173	10.2	1.066	0.0504	48.9	3200	5382	84.9%	3.8%
Car	Car	2003	7921	0.502	29.0	19.5	27.5	23.3	3417	109.6	165	176	10.0	1.087	0.0510	49.9	3237	5481	82.0%	3.5%
Car	Car	2004	7537	0.480	28.9	19.3	27.4	23.1	3462	110.4	168	183	9.8	1.106	0.0521	50.5	3261	5587	80.8%	5.4%
Car	Car	2005	8027	0.505	29.5	19.6	27.6	23.5	3463	111.4	166	182	9.8	1.115	0.0518	51.8	3384	5790	79.8%	5.8%
Car	Car	2006	7993	0.529	29.2	19.4	27.5	23.3	3534	111.5	172	194	9.6	1.146	0.0540	52.4	3351	5855	75.8%	5.8%
Car	Car	2007	8082	0.529	30.3	20.1	28.3	24.1	3507	110.2	165	189	9.6	1.157	0.0531	54.2	3468	5994	80.5%	5.7%
Car	Car	2008	7319	0.527	30.5	20.2	28.5	24.3	3527	109.9	165	193	9.6	1.178	0.0536	54.9	3490	6056	77.7%	7.3%
Car	Car	2009	5636	0.605	32.1	21.3	29.6	25.3	3464	110.0	155	184	9.8	1.190	0.0520	56.5	3645	6228	82.6%	6.7%
Car	Car	2010	6055	0.545	33.2	22.0	30.5	26.2	3474	110.5	156	187	9.6	1.197	0.0527	59.8	3863	6629	81.6%	5.9%
Car	Car	2011	5728	0.477	32.8	21.6	30.8	26.0	3559	111.1	159	199	9.4	1.252	0.0548	59.9	3795	6665	78.2%	8.4%
Car	Car	2012	7379	0.549	35.3	23.2	32.6	27.8	3448	110.7	148	189	9.6	1.279	0.0537	62.4	4067	6927	84.2%	6.2%
Car	Car	2013	7731	0.538	35.7	23.4	32.9	28.0	3504		148	199	9.4	1.343	0.0555	64.7			79.7%	8.0%

## 2013 FE Trends Report

### Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Midsize	Large
Car	Car	1975	19.6%	0.3%			5.1%		0.2%				55.4%	23.3%	21.3%
Car	Car	1976	17.1%				3.2%		0.3%				55.4%	25.2%	19.4%
Car	Car	1977	16.8%				4.2%		0.5%				51.9%	24.5%	23.5%
Car	Car	1978	19.8%	7.1%			5.1%		0.9%				44.7%	34.4%	21.0%
Car	Car	1979	21.1%	8.8%			4.7%		2.1%				43.7%	34.2%	22.1%
Car	Car	1980	30.9%	16.8%			6.2%	0.7%	4.4%				54.4%	34.4%	11.3%
Car	Car	1981	29.9%	33.3%			6.1%	2.6%	5.9%				51.5%	36.4%	12.2%
Car	Car	1982	29.2%	51.4%			7.2%	9.8%	4.7%				56.5%	31.0%	12.5%
Car	Car	1983	26.1%	56.7%			9.5%	18.9%	2.1%				53.1%	31.8%	15.1%
Car	Car	1984	24.1%	58.3%			15.0%	24.4%	1.7%				57.4%	29.4%	13.2%
Car	Car	1985	22.8%	58.7%			21.4%	32.0%	0.9%				55.7%	28.9%	15.4%
Car	Car	1986	24.8%	58.0%			36.7%	28.4%	0.3%	4.8%			59.5%	27.9%	12.6%
Car	Car	1987	24.9%	59.5%			42.5%	30.5%	0.3%	14.7%			63.5%	24.3%	12.2%
Car	Car	1988	24.3%	66.1%			53.7%	30.0%	0.0%	19.9%			64.8%	22.3%	12.8%
Car	Car	1989	21.0%	69.3%	0.1%		62.4%	27.8%	0.0%	24.4%			58.3%	28.2%	13.5%
Car	Car	1990	19.6%	72.9%	0.0%		77.5%	21.1%	0.0%	33.0%	0.6%		58.6%	28.7%	12.8%
Car	Car	1991	20.5%	73.6%	0.0%		78.0%	21.8%	0.1%	34.1%	2.4%		61.5%	26.2%	12.3%
Car	Car	1992	17.4%	76.4%	0.0%		89.5%	10.4%	0.1%	35.0%	4.6%		56.5%	27.8%	15.6%
Car	Car	1993	17.8%	77.0%	0.0%		91.6%	8.4%		36.7%	4.8%		57.2%	29.5%	13.3%
Car	Car	1994	16.7%	79.3%			94.9%	5.1%	0.0%	41.0%	8.0%		58.5%	26.1%	15.4%
Car	Car	1995	16.3%	81.9%			98.8%	1.2%	0.1%	52.2%	9.8%		57.3%	28.6%	14.0%
Car	Car	1996	14.9%	83.6%	0.0%		98.8%	1.1%	0.1%	57.3%	11.7%		54.3%	32.0%	13.6%
Car	Car	1997	13.5%	85.8%	0.1%		99.1%	0.8%	0.1%	58.6%	11.3%		55.1%	30.6%	14.3%
Car	Car	1998	12.3%	87.3%	0.1%		99.7%	0.1%	0.2%	61.4%	18.4%		49.4%	39.1%	11.4%
Car	Car	1999	10.9%	88.4%	0.0%		99.7%	0.1%	0.2%	64.7%	17.1%		47.7%	39.7%	12.6%
Car	Car	2000	11.2%	87.7%	0.0%		99.7%	0.1%	0.2%	65.1%	23.4%	0.1%	47.5%	34.3%	18.2%
Car	Car	2001	11.4%	87.5%	0.2%		99.7%		0.3%	67.3%	28.3%	0.0%	50.8%	32.3%	16.8%
Car	Car	2002	11.2%	88.2%	0.4%		99.6%		0.4%	69.9%	33.9%	0.3%	48.6%	36.3%	15.1%
Car	Car	2003	11.2%	87.9%	0.9%		99.6%		0.4%	73.8%	41.3%	0.6%	50.6%	33.5%	15.9%
Car	Car	2004	10.2%	88.2%	1.4%		99.7%		0.3%	77.3%	44.2%	0.9%	47.4%	35.6%	17.0%
Car	Car	2005	9.3%	88.0%	2.6%		99.6%		0.4%	78.2%	51.6%	2.1%	44.2%	38.9%	16.9%
Car	Car	2006	9.4%	88.1%	2.4%		99.4%		0.6%	80.8%	60.6%	1.5%	46.2%	32.9%	20.9%
Car	Car	2007	8.5%	81.1%	10.4%	0.3%	99.6%		0.0%	84.8%	65.2%	3.4%	44.6%	40.0%	15.4%
Car	Car	2008	8.0%	80.2%	11.5%	3.2%	96.8%		0.1%	87.8%	63.5%	3.4%	44.6%	35.8%	19.5%
Car	Car	2009	6.8%	82.0%	10.8%	4.5%	94.8%		0.7%	92.0%	79.7%	3.0%	47.6%	35.4%	17.0%
Car	Car	2010	5.7%	77.7%	14.8%	6.6%	92.4%		1.0%	92.8%	90.5%	6.1%	48.8%	37.5%	13.7%
Car	Car	2011	5.4%	81.2%	12.8%	16.4%	82.4%		1.1%	93.5%	93.9%	4.1%	38.5%	43.4%	18.2%
Car	Car	2012	5.6%	87.8%	15.3%	25.8%	73.0%		1.2%	98.2%	97.6%	5.3%			
Car	Car	2013	7.7%	84.3%	18.3%	35.9%	62.6%		1.5%	97.9%	97.7%	7.1%			

## 2013 FE Trends Report

### Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				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 Comb			CID	HP							Front	4WD
Car	Car 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	Car 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	Car SUV	1977	19	0.001	14.3	11.2	13.6	12.2	4000		261	124	14.4	0.477	0.0311	29.5				
Car	Car SUV	1978	16	0.001	13.6	10.4	13.5	11.6	4000		262	126	14.2	0.481	0.0315	27.9				
Car	Car SUV	1979	16	0.001	16.8	13.9	14.8	14.3	3271		185	99	14.9	0.576	0.0300	27.8				
Car	Car SUV	1980	0	0.000	17.2	13.9	15.5	14.6	4000		280	122	15.1	0.436	0.0305	34.6				
Car	Car SUV	1981	0	0.000	17.3	13.7	16.1	14.7	4000		318	140	13.3	0.440	0.0350	34.5				
Car	Car SUV	1982	13	0.001	23.4	20.2	19.3	19.8	2630		159	88	13.7	0.557	0.0335	30.7				
Car	Car SUV	1983	34	0.003	24.3	19.5	22.4	20.7	3124		163	101	14.1	0.617	0.0325	38.4				
Car	Car SUV	1984	55	0.004	22.6	17.5	22.1	19.3	3487		179	109	14.5	0.615	0.0313	39.7				
Car	Car SUV	1985	88	0.006	23.5	17.6	24.2	20.1	3469		171	109	14.4	0.637	0.0314	40.8				
Car	Car SUV	1986	59	0.004	22.3	17.1	21.7	18.9	3479		170	121	13.3	0.713	0.0348	38.9				
Car	Car SUV	1987	95	0.006	22.9	17.1	23.1	19.4	3492		179	131	12.7	0.730	0.0374	40.0				
Car	Car SUV	1988	109	0.007	22.7	17.1	22.5	19.2	3495		199	142	11.9	0.719	0.0405	39.9				
Car	Car SUV	1989	108	0.007	22.7	17.1	22.1	19.1	3497		226	148	11.4	0.668	0.0422	39.8				
Car	Car SUV	1990	65	0.005	22.5	16.9	21.5	18.8	3518		209	146	11.7	0.714	0.0415	39.6				
Car	Car SUV	1991	224	0.018	21.8	16.4	20.5	18.2	3733		215	145	12.6	0.680	0.0385	40.7				
Car	Car SUV	1992	243	0.020	21.4	16.1	20.1	17.8	3713		210	153	12.0	0.734	0.0409	39.9				
Car	Car SUV	1993	473	0.036	20.4	15.0	19.6	17.0	3848		238	179	10.8	0.757	0.0462	39.5				
Car	Car SUV	1994	332	0.023	21.8	16.1	20.5	18.0	3735		209	163	11.3	0.791	0.0434	40.6			2.6%	
Car	Car SUV	1995	220	0.015	21.5	15.7	20.5	17.8	3763		214	165	11.4	0.783	0.0436	40.6			0.1%	
Car	Car SUV	1996	287	0.022	22.4	16.2	21.1	18.4	3710		215	167	11.0	0.802	0.0448	41.7			6.3%	
Car	Car SUV	1997	361	0.025	23.5	17.1	21.7	19.2	3549		190	159	11.0	0.875	0.0446	41.9			20.3%	
Car	Car SUV	1998	454	0.031	22.3	16.0	20.8	18.2	3824		218	168	11.1	0.802	0.0439	42.8			10.3%	
Car	Car SUV	1999	488	0.032	22.7	16.3	21.0	18.5	3831		211	170	11.1	0.846	0.0442	43.7			15.4%	
Car	Car SUV	2000	617	0.037	22.0	15.7	20.3	17.9	3870		211	174	11.0	0.857	0.0448	42.8			12.7%	
Car	Car SUV	2001	743	0.048	23.3	16.4	21.4	18.8	3765		194	180	10.5	0.961	0.0477	44.2			37.1%	
Car	Car SUV	2002	603	0.037	24.0	16.8	22.0	19.3	3747		183	179	10.4	1.003	0.0479	45.3			55.5%	
Car	Car SUV	2003	575	0.036	24.8	17.2	22.7	19.9	3716		181	181	10.3	1.014	0.0486	46.4			65.9%	
Car	Car SUV	2004	639	0.041	24.9	17.0	23.1	20.0	3854		191	198	9.9	1.039	0.0511	48.2			72.9%	3.4%
Car	Car SUV	2005	813	0.051	25.4	17.3	23.2	20.2	3848		186	192	10.1	1.040	0.0498	49.0			74.0%	14.5%
Car	Car SUV	2006	751	0.050	25.7	17.5	23.5	20.5	3876		184	192	10.2	1.051	0.0493	50.0			77.7%	8.6%
Car	Car SUV	2007	919	0.060	25.9	17.6	23.8	20.6	3935		185	208	9.7	1.127	0.0524	51.2			85.4%	4.7%
Car	Car SUV	2008	924	0.066	26.6	18.1	24.4	21.2	3902		179	204	9.8	1.141	0.0518	52.4			87.0%	5.3%
Car	Car SUV	2009	608	0.065	27.8	18.8	25.3	22.0	3846		175	206	9.6	1.174	0.0534	53.9			92.2%	2.8%
Car	Car SUV	2010	915	0.082	29.1	19.6	26.5	23.0	3949		172	213	9.5	1.240	0.0538	57.8			88.4%	8.9%
Car	Car SUV	2011	1207	0.101	29.9	20.0	27.4	23.6	3890		166	207	9.7	1.243	0.0530	58.5			88.8%	9.7%
Car	Car SUV	2012	1269	0.094	29.6	19.8	27.1	23.4	3913		167	211	9.6	1.259	0.0536	58.5			81.7%	14.5%
Car	Car SUV	2013	1526	0.106	31.2	20.7	28.5	24.5	3951		159	210	9.8	1.335	0.0528	61.9			86.1%	12.2%

2013 FE Trends Report  
Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Midsize	Large
Car	Car SUV	1975	68.3%										61.4%	38.6%	
Car	Car SUV	1976	69.1%										63.1%	36.9%	
Car	Car SUV	1977	82.5%										79.5%	20.5%	
Car	Car SUV	1978	84.2%										81.6%	18.4%	
Car	Car SUV	1979	37.7%	3.9%									83.5%	16.5%	
Car	Car SUV	1980	3.9%	86.8%										100.0%	
Car	Car SUV	1981		100.0%										100.0%	
Car	Car SUV	1982	4.6%	8.9%									86.5%	13.5%	
Car	Car SUV	1983	19.3%	43.2%									37.6%	62.4%	
Car	Car SUV	1984	19.4%	64.8%									5.6%	94.4%	
Car	Car SUV	1985	15.9%	84.1%				5.3%						100.0%	
Car	Car SUV	1986	18.1%	81.9%			0.0%	86.8%	0.0%				0.0%	100.0%	
Car	Car SUV	1987	14.3%	85.7%			32.8%	67.2%					24.1%	75.9%	
Car	Car SUV	1988	24.6%	75.4%			48.2%	51.8%					35.2%	64.8%	
Car	Car SUV	1989	27.4%	72.6%			44.7%	53.9%					32.0%	68.0%	
Car	Car SUV	1990	35.1%	63.0%			63.3%	31.6%					41.2%	58.8%	
Car	Car SUV	1991	22.2%	77.7%			49.3%	49.9%					20.9%	79.1%	
Car	Car SUV	1992	24.6%	75.4%			68.4%	30.3%					19.9%	80.1%	
Car	Car SUV	1993	10.9%	89.1%			90.6%	8.7%					10.2%	89.8%	
Car	Car SUV	1994	21.5%	70.9%			92.1%	7.9%		11.5%			18.7%	81.3%	
Car	Car SUV	1995	17.4%	82.6%			90.8%	9.2%		19.1%			11.5%	88.5%	
Car	Car SUV	1996	15.4%	84.6%			100.0%			32.4%			14.4%	85.6%	
Car	Car SUV	1997	23.2%	70.7%			100.0%			54.6%			41.3%	58.7%	
Car	Car SUV	1998	11.1%	88.9%			100.0%			29.2%			18.4%	81.6%	
Car	Car SUV	1999	8.4%	91.6%			100.0%			38.4%	4.6%		13.5%	85.6%	0.9%
Car	Car SUV	2000	5.7%	94.3%			100.0%			34.0%	5.0%		21.2%	78.1%	0.6%
Car	Car SUV	2001	6.2%	93.8%			100.0%			43.1%	10.0%		18.7%	75.3%	6.0%
Car	Car SUV	2002	7.5%	92.3%	0.2%		100.0%			70.3%	18.2%		18.3%	75.3%	6.4%
Car	Car SUV	2003	7.2%	84.3%	8.5%		100.0%			68.1%	19.6%		10.0%	83.4%	6.6%
Car	Car SUV	2004	5.8%	87.9%	6.3%		100.0%			75.5%	37.9%		7.0%	78.4%	14.6%
Car	Car SUV	2005	3.7%	91.9%	4.5%		100.0%			67.5%	27.3%	0.5%	5.0%	58.8%	36.2%
Car	Car SUV	2006	3.1%	91.7%	5.2%		100.0%			86.8%	33.4%	1.1%		65.8%	34.2%
Car	Car SUV	2007	1.6%	94.5%	3.9%		100.0%			82.7%	46.8%	1.6%	0.2%	66.3%	33.4%
Car	Car SUV	2008	0.7%	93.6%	5.7%	2.2%	97.8%			89.6%	56.4%	2.3%		72.8%	27.2%
Car	Car SUV	2009	0.6%	85.9%	13.5%	1.3%	98.7%			94.1%	73.7%	2.7%		75.2%	24.8%
Car	Car SUV	2010	0.2%	91.5%	8.3%	26.2%	73.8%			100.0%	99.9%	1.4%		58.9%	41.1%
Car	Car SUV	2011	0.5%	91.5%	8.0%	27.6%	72.4%			100.0%	99.8%	0.6%		61.3%	38.7%
Car	Car SUV	2012	0.4%	98.5%	11.1%	39.4%	60.6%			98.0%	98.0%	0.4%			
Car	Car SUV	2013	0.5%	99.1%	8.6%	47.5%	52.5%			100.0%	99.5%	0.3%			

## 2013 FE Trends Report

### Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				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 Comb			CID	HP							Front	4WD
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		279	133	14.0	0.516	0.0335	36.4			6.8%	
Car	All	1978	11191	0.775	19.9	15.5	19.1	16.9	3588		251	124	13.7	0.538	0.0342	35.9			9.6%	
Car	All	1979	10810	0.779	20.2	15.9	19.2	17.2	3485		238	119	13.8	0.545	0.0338	35.4			11.9%	0.3%
Car	All	1980	9444	0.835	23.5	18.3	22.6	20.0	3101		188	100	14.3	0.583	0.0322	36.6			29.7%	0.9%
Car	All	1981	8734	0.828	25.1	19.5	24.2	21.4	3076		182	99	14.4	0.594	0.0320	38.9			37.0%	0.7%
Car	All	1982	7832	0.805	26.0	20.1	25.5	22.2	3053		175	99	14.4	0.609	0.0320	40.1			45.6%	0.8%
Car	All	1983	8035	0.780	25.9	19.9	25.5	22.1	3112		182	104	14.0	0.615	0.0330	40.7			47.1%	3.1%
Car	All	1984	10730	0.765	26.3	20.2	25.9	22.4	3101		179	106	13.8	0.637	0.0338	41.1			53.5%	1.0%
Car	All	1985	10879	0.752	26.9	20.6	26.7	23.0	3096		177	111	13.3	0.671	0.0354	41.9			61.1%	2.1%
Car	All	1986	11074	0.721	27.9	21.2	27.6	23.7	3043		167	111	13.2	0.701	0.0360	42.6			70.7%	1.0%
Car	All	1987	10826	0.728	28.0	21.2	27.7	23.8	3035		162	113	13.0	0.732	0.0365	42.7			76.4%	1.1%
Car	All	1988	10845	0.709	28.5	21.4	28.1	24.1	3051		161	116	12.8	0.758	0.0375	43.7			80.9%	0.8%
Car	All	1989	10126	0.701	28.1	20.8	27.8	23.6	3104		163	121	12.4	0.782	0.0387	43.7			81.6%	1.0%
Car	All	1990	8875	0.704	27.7	20.4	27.4	23.3	3178		163	129	12.1	0.829	0.0401	44.2			84.0%	1.0%
Car	All	1991	8748	0.696	27.8	20.4	27.4	23.3	3168		164	133	11.9	0.847	0.0413	44.2			81.1%	1.3%
Car	All	1992	8350	0.686	27.4	19.8	27.2	22.9	3254		171	141	11.5	0.864	0.0427	44.7			78.4%	1.1%
Car	All	1993	8929	0.676	27.6	19.9	27.3	23.0	3241		170	140	11.5	0.859	0.0427	45.1			80.6%	1.1%
Car	All	1994	8747	0.619	27.7	19.8	27.4	23.0	3268		169	144	11.4	0.880	0.0432	45.5			81.3%	0.4%
Car	All	1995	9616	0.635	28.1	19.8	27.9	23.3	3274		168	153	10.9	0.941	0.0460	46.2			80.1%	1.1%
Car	All	1996	8177	0.622	28.0	19.7	27.6	23.1	3297		167	155	10.8	0.952	0.0463	46.4			83.7%	1.4%
Car	All	1997	8695	0.601	28.2	19.7	27.6	23.2	3285		165	156	10.7	0.970	0.0468	46.5			83.8%	1.7%
Car	All	1998	8425	0.583	28.1	19.5	27.5	23.0	3334		167	160	10.6	0.983	0.0473	47.1			82.9%	2.1%
Car	All	1999	8865	0.583	27.8	19.2	27.0	22.7	3390		168	164	10.5	1.000	0.0479	47.3			83.2%	2.1%
Car	All	2000	9742	0.588	27.7	19.0	26.7	22.5	3401		168	168	10.4	1.021	0.0489	47.3			80.4%	2.0%
Car	All	2001	9148	0.586	27.9	19.1	26.7	22.6	3411		167	169	10.3	1.035	0.0491	48.0			80.3%	3.0%
Car	All	2002	8904	0.553	28.3	19.2	26.8	22.8	3415		167	173	10.2	1.061	0.0502	48.6			82.9%	3.6%
Car	All	2003	8496	0.539	28.7	19.3	27.1	23.0	3437		166	176	10.0	1.082	0.0508	49.7			80.9%	3.2%
Car	All	2004	8176	0.520	28.5	19.1	27.0	22.9	3492		170	184	9.8	1.101	0.0520	50.3			80.2%	5.3%
Car	All	2005	8839	0.556	29.1	19.4	27.2	23.1	3498		168	183	9.9	1.108	0.0516	51.5			79.2%	6.6%
Car	All	2006	8744	0.579	28.9	19.2	27.1	23.0	3563		173	194	9.6	1.138	0.0536	52.2			75.9%	6.0%
Car	All	2007	9001	0.589	29.8	19.8	27.8	23.7	3551		167	191	9.6	1.154	0.0530	53.9			81.0%	5.6%
Car	All	2008	8243	0.593	30.1	20.0	28.0	23.9	3569		166	194	9.6	1.174	0.0534	54.6			78.8%	7.1%
Car	All	2009	6244	0.670	31.6	21.0	29.2	25.0	3502		157	186	9.8	1.189	0.0522	56.3			83.5%	6.3%
Car	All	2010	6969	0.627	32.6	21.7	29.9	25.7	3536		158	190	9.6	1.203	0.0528	59.6			82.5%	6.3%
Car	All	2011	6934	0.578	32.3	21.3	30.1	25.6	3617		161	200	9.5	1.250	0.0544	59.6			80.1%	8.6%
Car	All	2012	8648	0.644	34.3	22.6	31.7	27.0	3516		151	192	9.6	1.276	0.0537	61.9			83.8%	7.4%
Car	All	2013	9257	0.644	34.8	22.9	32.1	27.4	3578		150	201	9.4	1.341	0.0550	64.2			80.8%	8.7%

## 2013 FE Trends Report

### Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Midsize	Large
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%
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%	4.7%			59.2%	28.3%	12.5%
Car	All	1987	24.8%	59.7%			42.4%	30.8%	0.2%	14.6%			63.2%	24.8%	12.1%
Car	All	1988	24.3%	66.2%			53.7%	30.2%	0.0%	19.7%			64.5%	22.8%	12.7%
Car	All	1989	21.1%	69.3%	0.1%		62.2%	28.1%	0.0%	24.1%			58.0%	28.7%	13.4%
Car	All	1990	19.8%	72.8%	0.0%		77.4%	21.2%	0.0%	32.8%	0.6%		58.4%	28.9%	12.7%
Car	All	1991	20.6%	73.7%	0.0%		77.2%	22.6%	0.1%	33.2%	2.4%		60.4%	27.6%	12.0%
Car	All	1992	17.6%	76.4%	0.0%		88.9%	11.0%	0.1%	34.0%	4.4%		55.5%	29.4%	15.2%
Car	All	1993	17.5%	77.6%	0.0%		91.5%	8.5%		34.8%	4.5%		54.7%	32.7%	12.6%
Car	All	1994	16.9%	78.9%			94.8%	5.2%	0.0%	39.9%	7.7%		57.0%	28.2%	14.8%
Car	All	1995	16.3%	81.9%			98.6%	1.3%	0.1%	51.4%	9.6%		56.3%	30.0%	13.7%
Car	All	1996	14.9%	83.6%	0.0%		98.8%	1.1%	0.1%	56.4%	11.3%		52.9%	33.9%	13.2%
Car	All	1997	13.9%	85.2%	0.1%		99.2%	0.8%	0.1%	58.4%	10.8%		54.5%	31.7%	13.7%
Car	All	1998	12.2%	87.4%	0.1%		99.7%	0.1%	0.2%	59.6%	17.4%		47.7%	41.4%	10.8%
Car	All	1999	10.8%	88.6%	0.0%		99.8%	0.1%	0.2%	63.2%	16.4%		45.8%	42.2%	12.0%
Car	All	2000	10.8%	88.1%	0.0%		99.7%	0.1%	0.2%	63.2%	22.2%	0.1%	45.8%	37.1%	17.1%
Car	All	2001	11.0%	88.0%	0.2%		99.8%		0.2%	65.3%	26.9%	0.0%	48.2%	35.8%	16.0%
Car	All	2002	10.9%	88.4%	0.4%		99.6%		0.4%	69.9%	32.8%	0.3%	46.6%	39.0%	14.5%
Car	All	2003	10.9%	87.7%	1.4%		99.7%		0.3%	73.4%	39.8%	0.6%	47.8%	36.9%	15.3%
Car	All	2004	9.8%	88.2%	1.7%		99.7%		0.3%	77.1%	43.7%	0.9%	44.3%	38.9%	16.8%
Car	All	2005	8.8%	88.4%	2.8%		99.6%		0.4%	77.2%	49.4%	1.9%	40.6%	40.7%	18.6%
Car	All	2006	8.8%	88.4%	2.7%		99.4%		0.6%	81.3%	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%	84.6%	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%	88.0%	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%	92.2%	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%	93.8%	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%	94.6%	94.9%	3.4%	31.8%	46.5%	21.7%
Car	All	2012	4.9%	89.4%	14.6%	27.8%	71.2%		1.0%	98.2%	97.7%	4.6%			
Car	All	2013	6.5%	86.8%	16.7%	37.8%	60.9%		1.2%	98.3%	98.0%	6.0%			

## 2013 FE Trends Report

### Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				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 Comb			CID	HP							Front	4WD
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				
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	0.0384	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	661	0.049	26.7	17.7	25.3	21.4	4440		210	254	9.2	1.211	0.0570	59.3			93.5%	3.1%
Truck	Van	2013	568	0.040	26.2	17.4	24.9	21.0	4626		215	264	9.1	1.226	0.0569	60.7			92.5%	3.3%

**2013 FE Trends Report**  
**Appendix D: Fuel Economy Data Stratified by Vehicle Type**

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Midsize	Large
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%
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%		3.5%			0.8%	91.4%	7.9%
Truck	Van	1995	0.1%	98.2%			87.4%	12.6%		4.5%			0.4%	93.4%	6.3%
Truck	Van	1996	0.0%	98.4%			100.0%			5.7%			0.1%	92.1%	7.8%
Truck	Van	1997		99.6%			100.0%			6.3%				89.0%	11.0%
Truck	Van	1998		100.0%			100.0%			10.4%				91.1%	8.9%
Truck	Van	1999		100.0%			100.0%			12.5%	8.2%			88.3%	11.7%
Truck	Van	2000		100.0%			100.0%			21.6%	15.0%			90.0%	10.0%
Truck	Van	2001		100.0%			100.0%			22.6%	17.0%			76.2%	23.8%
Truck	Van	2002		100.0%			100.0%			28.4%	20.9%			91.0%	9.0%
Truck	Van	2003		100.0%			100.0%			25.8%	19.6%			91.0%	9.0%
Truck	Van	2004		100.0%			100.0%			52.3%	46.1%			93.7%	6.3%
Truck	Van	2005		94.9%	5.1%		100.0%			38.0%	25.0%			96.3%	3.7%
Truck	Van	2006		95.3%	4.7%		100.0%			46.8%	36.4%			94.0%	6.0%
Truck	Van	2007		95.5%	4.5%		100.0%			53.1%	48.7%			96.3%	3.7%
Truck	Van	2008	0.1%	99.9%			100.0%			52.8%	48.1%		2.1%	94.5%	3.4%
Truck	Van	2009	0.3%	99.7%			100.0%			58.9%	47.1%		6.0%	89.9%	4.1%
Truck	Van	2010	0.2%	99.8%			100.0%			51.8%	37.7%		3.6%	93.7%	2.7%
Truck	Van	2011		96.9%	3.1%		100.0%			96.6%	92.5%			96.6%	3.4%
Truck	Van	2012	0.2%	99.8%	3.2%		100.0%			96.1%	91.7%				
Truck	Van	2013	0.2%	99.8%	5.7%		100.0%			95.3%	97.0%				

## 2013 FE Trends Report

### Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				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 Comb			CID	HP							Front	4WD
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%
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	2773	0.206	25.1	17.0	23.1	20.0	4639		214	261	9.2	1.232	0.0558	58.5			13.7%	79.9%
Truck	Truck SUV	2013	3020	0.210	26.1	17.7	24.1	20.8	4626		209	261	9.2	1.295	0.0561	60.7			14.5%	78.9%

## 2013 FE Trends Report

### Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Midsize	Large
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%
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%		13.4%			9.8%	77.1%	13.1%
Truck	Truck SUV	1995	15.0%	85.0%			84.9%	15.1%		15.1%			10.3%	75.3%	14.4%
Truck	Truck SUV	1996	6.1%	93.9%			100.0%		0.0%	13.5%			4.9%	80.0%	15.0%
Truck	Truck SUV	1997	9.7%	90.3%			100.0%		0.0%	19.1%			16.3%	56.9%	26.8%
Truck	Truck SUV	1998	7.5%	92.5%			100.0%		0.0%	22.0%			10.9%	58.9%	30.2%
Truck	Truck SUV	1999	5.9%	94.1%			100.0%			26.4%	2.9%		10.6%	57.4%	32.0%
Truck	Truck SUV	2000	4.9%	95.1%			100.0%			22.7%	2.5%		10.6%	54.7%	34.7%
Truck	Truck SUV	2001	3.8%	96.2%			100.0%			39.6%	14.4%		9.3%	51.1%	39.6%
Truck	Truck SUV	2002	3.2%	96.7%	0.0%		100.0%			44.2%	25.0%		6.8%	37.6%	55.6%
Truck	Truck SUV	2003	2.2%	96.5%	1.3%		100.0%			51.6%	33.4%		5.8%	46.0%	48.2%
Truck	Truck SUV	2004	2.2%	96.7%	1.0%		100.0%		0.0%	53.2%	38.4%		5.2%	49.1%	45.7%
Truck	Truck SUV	2005	2.2%	96.3%	1.5%		99.7%		0.3%	64.3%	50.0%	0.2%	5.3%	49.0%	45.7%
Truck	Truck SUV	2006	2.4%	93.0%	4.6%		99.7%		0.3%	69.8%	60.2%	3.1%	4.4%	54.0%	41.6%
Truck	Truck SUV	2007	2.1%	92.1%	5.8%		99.7%		0.3%	61.8%	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%	71.8%	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%	82.3%	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%	82.7%	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%	83.6%	92.6%	0.6%		54.5%	45.5%
Truck	Truck SUV	2012	1.6%	95.5%	9.9%	18.3%	80.5%		1.2%	89.2%	95.8%	0.6%			
Truck	Truck SUV	2013	1.4%	97.7%	14.9%	23.3%	76.0%		0.7%	89.6%	96.8%	1.5%			

## 2013 FE Trends Report

### Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				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 Comb			CID	HP							Front	4WD
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%
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	1357	0.101	21.3	14.5	19.9	17.2	5335		286	317	8.9	1.122	0.0590	56.9				62.4%
Truck	Pickup	2013	1525	0.106	21.5	14.6	20.3	17.4	5471		287	330	8.8	1.175	0.0600	58.8				60.7%

**2013 FE Trends Report**  
**Appendix D: Fuel Economy Data Stratified by Vehicle Type**

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Midsize	Large
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%
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%		2.2%			13.4%	39.0%	47.6%
Truck	Pickup	1995	39.6%	59.5%			69.5%	30.5%		5.5%			13.1%	30.8%	56.0%
Truck	Pickup	1996	34.6%	64.0%			99.8%		0.2%	13.3%			11.3%	35.7%	53.0%
Truck	Pickup	1997	25.3%	74.7%			99.9%		0.1%	6.7%			5.4%	28.7%	65.9%
Truck	Pickup	1998	27.3%	71.1%			100.0%		0.0%	11.2%			10.8%	34.3%	54.9%
Truck	Pickup	1999	17.5%	81.5%			100.0%		0.0%	7.7%			8.4%	29.9%	61.7%
Truck	Pickup	2000	16.7%	82.5%			100.0%			12.7%			3.9%	29.3%	66.8%
Truck	Pickup	2001	12.0%	87.1%			100.0%			12.8%			3.2%	21.6%	75.1%
Truck	Pickup	2002	9.5%	89.6%			100.0%			17.8%			8.3%	19.6%	72.1%
Truck	Pickup	2003	10.3%	88.8%			100.0%			14.5%			7.9%	21.3%	70.8%
Truck	Pickup	2004	7.0%	92.1%			100.0%			32.4%	18.9%	0.0%	6.4%	15.1%	78.5%
Truck	Pickup	2005	5.7%	94.3%			100.0%			40.9%	39.1%	0.0%	0.4%	9.4%	90.2%
Truck	Pickup	2006	6.2%	93.8%			100.0%			49.0%	47.5%	0.1%	0.3%	12.5%	87.1%
Truck	Pickup	2007	4.4%	95.6%			100.0%			40.0%	40.0%	0.0%		12.5%	87.5%
Truck	Pickup	2008	4.0%	96.0%			100.0%			41.3%	37.8%			15.5%	84.5%
Truck	Pickup	2009	4.1%	95.7%	0.2%		100.0%			42.4%	36.8%	0.2%		18.6%	81.4%
Truck	Pickup	2010	2.4%	97.5%	0.1%		100.0%			59.9%	62.2%	0.1%		12.0%	88.0%
Truck	Pickup	2011	2.1%	97.8%	0.1%	7.6%	92.4%			50.1%	86.1%	0.1%		1.4%	98.6%
Truck	Pickup	2012	1.5%	98.5%	0.1%	10.3%	89.7%			55.7%	94.6%	0.1%			
Truck	Pickup	2013	1.3%	98.7%	0.3%	14.3%	85.7%			58.9%	96.8%	0.3%			

## 2013 FE Trends Report

### Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				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 Comb			CID	HP							Front	4WD
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%
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	4791	0.356	24.1	16.3	22.3	19.3	4809		234	276	9.1	1.198	0.0569	58.2			20.9%	64.4%
Truck	All	2013	5114	0.356	24.5	16.6	22.9	19.7	4878		233	282	9.1	1.251	0.0573	60.1			18.8%	65.1%

## 2013 FE Trends Report

### Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Midsize	Large
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%
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%		5.2%			9.2%	61.9%	28.9%
Truck	All	1995	20.7%	78.5%			79.4%	20.6%		8.0%			8.5%	62.5%	29.1%
Truck	All	1996	15.6%	83.4%			99.9%		0.1%	11.2%			6.1%	66.0%	27.9%
Truck	All	1997	14.1%	85.8%			100.0%		0.0%	11.1%			8.2%	52.2%	39.7%
Truck	All	1998	13.6%	85.8%			100.0%		0.0%	14.8%			8.2%	57.0%	34.8%
Truck	All	1999	9.2%	90.4%			100.0%		0.0%	15.7%	3.0%		7.3%	53.5%	39.2%
Truck	All	2000	8.2%	91.5%			100.0%			18.6%	4.6%		5.4%	53.7%	40.9%
Truck	All	2001	6.3%	93.4%			100.0%			25.9%	9.3%		5.2%	44.4%	50.4%
Truck	All	2002	4.7%	94.9%	0.0%		100.0%			32.8%	16.0%		6.1%	40.9%	53.0%
Truck	All	2003	4.6%	94.4%	0.6%		100.0%			34.6%	19.7%		5.5%	45.2%	49.3%
Truck	All	2004	3.5%	95.6%	0.6%		100.0%		0.0%	46.2%	32.9%	0.0%	4.9%	43.4%	51.6%
Truck	All	2005	2.9%	95.3%	1.8%		99.9%		0.1%	51.1%	41.2%	0.1%	2.6%	46.0%	51.4%
Truck	All	2006	3.3%	93.7%	3.1%		99.9%		0.1%	58.4%	51.5%	1.5%	2.2%	47.1%	50.7%
Truck	All	2007	2.6%	93.8%	3.7%		99.9%		0.1%	53.3%	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%	59.5%	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%	66.6%	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%	71.5%	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%	75.2%	90.7%	0.4%		43.4%	56.6%
Truck	All	2012	1.4%	97.0%	6.2%	13.5%	85.8%		0.7%	80.6%	94.9%	0.4%			
Truck	All	2013	1.2%	98.3%	9.5%	18.0%	81.6%		0.4%	81.1%	96.8%	1.0%			

## 2013 FE Trends Report

### Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				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 Comb			CID	HP							Front	4WD
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	0.0362	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%
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%
All	All	2012	13438	1.000	29.8	19.9	27.6	23.6	3977		180	222	9.4	1.248	0.0548	60.5			61.4%	27.7%
All	All	2013	14370	1.000	30.3	20.2	28.1	24.0	4041		179	230	9.3	1.309	0.0558	62.8			58.7%	28.8%

## 2013 FE Trends Report

### Appendix D: Fuel Economy Data Stratified by Vehicle Type

Car or Truck	Vehicle Type	Model Year	Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Midsize	Large
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%	3.4%			49.3%	33.7%	17.0%
All	All	1987	29.1%	55.4%			39.9%	31.4%	0.3%	10.6%			51.4%	34.1%	14.5%
All	All	1988	27.6%	62.2%			50.6%	34.3%	0.1%	14.0%			50.0%	32.7%	17.3%
All	All	1989	24.6%	65.5%	0.1%		57.3%	33.9%	0.1%	16.9%			44.7%	37.6%	17.7%
All	All	1990	22.2%	71.2%	0.0%		70.8%	27.0%	0.1%	23.1%	0.4%		44.9%	37.2%	17.8%
All	All	1991	23.9%	71.6%	0.0%		70.6%	28.7%	0.1%	23.1%	1.7%		45.3%	39.4%	15.2%
All	All	1992	20.7%	74.8%	0.0%		81.6%	17.8%	0.1%	23.3%	3.0%		41.1%	39.9%	19.0%
All	All	1993	19.8%	76.5%	0.0%		85.0%	14.6%		23.5%	3.0%		39.8%	42.4%	17.8%
All	All	1994	19.5%	77.6%			87.7%	12.1%	0.0%	26.7%	4.8%		38.8%	41.0%	20.1%
All	All	1995	17.9%	80.7%			91.6%	8.4%	0.0%	35.6%	6.1%		38.8%	41.9%	19.3%
All	All	1996	15.2%	83.5%	0.0%		99.3%	0.7%	0.1%	39.3%	7.0%		35.2%	46.0%	18.7%
All	All	1997	14.0%	85.5%	0.0%		99.5%	0.5%	0.1%	39.6%	6.5%		36.0%	39.9%	24.1%
All	All	1998	12.8%	86.7%	0.0%		99.8%	0.1%	0.1%	40.9%	10.1%		31.2%	47.9%	20.8%
All	All	1999	10.1%	89.4%	0.0%		99.9%	0.1%	0.1%	43.4%	10.8%		29.7%	46.9%	23.4%
All	All	2000	9.7%	89.5%	0.0%		99.8%	0.0%	0.1%	44.8%	15.0%	0.0%	29.2%	43.9%	26.9%
All	All	2001	9.0%	90.3%	0.1%		99.9%		0.1%	49.0%	19.6%	0.0%	30.4%	39.4%	30.2%
All	All	2002	8.2%	91.4%	0.2%		99.8%		0.2%	53.3%	25.3%	0.2%	28.5%	39.8%	31.7%
All	All	2003	8.0%	90.8%	1.1%		99.8%		0.2%	55.5%	30.6%	0.3%	28.3%	40.7%	31.0%
All	All	2004	6.8%	91.8%	1.2%		99.9%		0.1%	62.3%	38.5%	0.5%	25.4%	41.1%	33.5%
All	All	2005	6.2%	91.5%	2.3%		99.7%		0.3%	65.6%	45.8%	1.1%	23.7%	43.1%	33.2%
All	All	2006	6.5%	90.6%	2.8%		99.6%		0.4%	71.7%	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%	71.7%	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%	76.4%	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%	83.8%	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%	85.5%	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%	86.4%	93.1%	2.2%	18.4%	45.2%	36.5%
All	All	2012	3.6%	92.1%	11.6%	22.7%	76.4%		0.9%	91.9%	96.7%	3.1%			
All	All	2013	4.7%	90.9%	14.2%	30.8%	68.3%		0.9%	92.2%	97.6%	4.2%			

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			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
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
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
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
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
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
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
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
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
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
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														
Car	1750	2011														
Car	1750	2012														
Car	1750	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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	4037	3533	100.0%		90.1%									
Car	1750	1986	4053	3547	100.0%		64.7%									
Car	1750	1987	4045	3539	100.0%		100.0%									
Car	1750	1988	3698	3236	100.0%		59.5%					2.8%				
Car	1750	1989	4457	3900	100.0%		100.0%					100.0%				
Car	1750	1990	4760	4165	100.0%		100.0%					100.0%				
Car	1750	1991	4725	4134	100.0%		100.0%					100.0%				
Car	1750	1992	4690	4104	100.0%		100.0%					100.0%				
Car	1750	1993	4655	4074	100.0%		100.0%					100.0%				
Car	1750	1994	4653	4071	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														
Car	1750	2011														
Car	1750	2012														
Car	1750	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Car	2000	1996	37	0.003	52.3	38.6	44.4	41.4	2000	100.0	72	60	14.8	0.846	0.0298	41.6
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Car	2000	2012	5	0.000	49.5	33.4	37.7	35.7	2000	50.0	61	70	13.3	1.148	0.0350	35.7
Car	2000	2013	6	0.000	50.3	34.5	38.2	36.5	2000	50.0	61	70	13.3	1.148	0.0350	36.5

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car	2000	1975			100.0%		88.1%	11.9%								
Car	2000	1976			92.5%		89.7%									
Car	2000	1977	2307	2307	100.0%		87.0%									
Car	2000	1978	2423	2423	100.0%		93.4%	6.6%								
Car	2000	1979	2208	2208	100.0%		78.8%	10.3%								
Car	2000	1980	2434	2434	100.0%		68.5%	8.0%								
Car	2000	1981	2857	2857	82.7%		90.6%									
Car	2000	1982	3022	3022	85.1%		88.3%	2.5%								
Car	2000	1983	3216	3216	91.9%		93.4%				8.1%					
Car	2000	1984	2802	2802	98.7%		96.7%	3.1%			1.3%					
Car	2000	1985	2343	2343	100.0%		94.7%	5.3%			11.9%					
Car	2000	1986	2253	2253	100.0%		100.0%									
Car	2000	1987	2737	2737	100.0%		80.5%				6.3%			26.4%		
Car	2000	1988	3343	3343	93.9%	6.1%	99.0%				14.0%	0.0%		17.5%		
Car	2000	1989	3360	3360	100.0%		65.0%				37.9%	19.3%		8.3%		
Car	2000	1990	3670	3670	100.0%		89.8%				50.5%	46.9%		3.0%		
Car	2000	1991	3478	3478	100.0%		68.4%				29.1%	69.2%		1.3%		
Car	2000	1992	3465	3465	100.0%		53.4%				13.0%	86.6%		0.4%		
Car	2000	1993	3629	3629	100.0%		76.2%				28.7%	71.3%		1.8%		
Car	2000	1994	3661	3661	100.0%		52.3%				1.5%	98.5%		1.5%		
Car	2000	1995	4278	4278	100.0%		100.0%					100.0%				
Car	2000	1996	4157	4157	100.0%		100.0%					100.0%				
Car	2000	1997	3871	3871	100.0%		100.0%					100.0%				
Car	2000	1998	3765	3765	100.0%		100.0%					100.0%				
Car	2000	1999	3461	3461	100.0%		100.0%					100.0%				
Car	2000	2000	3153	3153	52.4%		100.0%				52.4%	47.6%		52.4%	52.4%	52.4%
Car	2000	2001	2817	2817	100.0%		100.0%				100.0%			100.0%	100.0%	100.0%
Car	2000	2002	2778	2778	100.0%		100.0%				100.0%			100.0%	100.0%	100.0%
Car	2000	2003	2749	2749	100.0%		100.0%				100.0%			100.0%	100.0%	100.0%
Car	2000	2004	2673	2673	100.0%		100.0%				100.0%			100.0%	100.0%	100.0%
Car	2000	2005	2663	2663	100.0%		100.0%				100.0%			100.0%	100.0%	100.0%
Car	2000	2006	2649	2649	100.0%		100.0%				100.0%			100.0%	100.0%	100.0%
Car	2000	2007														
Car	2000	2008	1857	1857							100.0%			100.0%	100.0%	
Car	2000	2009	1857	1857							100.0%			100.0%	100.0%	
Car	2000	2010	1841	1841							100.0%			100.0%	100.0%	
Car	2000	2011	1826	1826							100.0%			100.0%	100.0%	
Car	2000	2012	1787	1787							100.0%			100.0%	100.0%	
Car	2000	2013	1824	1824							100.0%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Car	2250	2012	10	0.001	52.3	35.9	37.4	36.7	2250	77.4	81	94	11.6	1.159	0.0418	41.3
Car	2250	2013	12	0.001	52.3	36.0	37.4	36.8	2250	77.4	81	94	11.6	1.159	0.0418	41.4

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car	2250	1975			46.1%		88.0%	2.3%			22.6%					
Car	2250	1976			37.5%		72.2%				5.7%					
Car	2250	1977	2385	2683	43.0%		78.9%				14.4%		1.9%			
Car	2250	1978	2394	2694	41.6%		77.5%	3.1%			16.7%		4.1%			
Car	2250	1979	2394	2694	44.8%		82.5%	1.0%			15.6%		5.5%			
Car	2250	1980	2515	2830	57.9%		76.5%	0.7%			14.9%		9.3%			
Car	2250	1981	2713	3052	69.8%		78.4%	5.0%			6.5%		9.2%			
Car	2250	1982	2833	3187	79.8%		71.6%	6.8%			5.7%		4.7%			
Car	2250	1983	3003	3379	93.2%	1.6%	70.6%	10.2%			8.0%	12.1%	1.4%			
Car	2250	1984	3113	3502	91.1%		71.8%	13.5%			6.8%	16.5%	2.6%			
Car	2250	1985	3130	3521	97.1%	0.3%	65.3%	21.6%			1.6%	8.6%	0.1%			
Car	2250	1986	3068	3452	96.3%		65.5%	20.1%			7.7%	6.3%	0.0%	5.6%		
Car	2250	1987	2972	3344	96.3%		70.5%	14.1%			9.9%	3.4%		49.5%		
Car	2250	1988	3015	3392	100.0%		69.9%	18.0%			9.4%	28.1%		48.4%		
Car	2250	1989	3043	3424	100.0%		63.5%	15.0%	4.5%		5.1%	28.0%		63.5%		
Car	2250	1990	2858	3216	95.4%	4.6%	70.3%	3.6%	2.5%		39.4%	20.3%		66.3%		
Car	2250	1991	2838	3193	95.7%	4.3%	69.6%	22.3%	2.4%		80.3%	18.8%		86.9%		
Car	2250	1992	3110	3498	99.8%	0.2%	80.0%	12.5%	0.2%		97.8%	2.0%		77.9%		
Car	2250	1993	3026	3404	98.6%	1.4%	76.0%	13.3%	0.5%		98.2%	1.8%		87.8%		
Car	2250	1994	3107	3495	100.0%		79.9%	16.6%			96.5%	3.5%		62.3%		
Car	2250	1995	3152	3546	100.0%		48.7%	27.7%			69.9%	30.1%		37.9%		
Car	2250	1996	3001	3376	100.0%		29.5%	32.8%			63.1%	36.9%		43.2%		
Car	2250	1997	2916	3281	100.0%		39.1%	4.4%			38.2%	61.8%		17.3%		
Car	2250	1998	2801	3152	100.0%		22.8%				100.0%			100.0%		
Car	2250	1999	2706	3044	100.0%		23.5%				100.0%			100.0%		
Car	2250	2000	2907	3270	40.6%		39.3%				100.0%			100.0%	33.9%	
Car	2250	2001	2673	3007	100.0%		15.3%		6.2%		100.0%			34.4%	16.5%	6.2%
Car	2250	2002	2969	3341	100.0%		54.4%		45.6%		100.0%			100.0%	100.0%	45.6%
Car	2250	2003	3114	3504	100.0%		65.3%		34.7%		100.0%			100.0%	100.0%	34.7%
Car	2250	2004	2468	2777	100.0%		6.4%		93.6%		100.0%			100.0%	100.0%	93.6%
Car	2250	2005	1924	2165	37.0%		93.7%		6.3%		100.0%			100.0%	100.0%	6.3%
Car	2250	2006	1434	1613	20.0%		80.0%		20.0%		100.0%			100.0%	100.0%	20.0%
Car	2250	2007	1175	1322			100.0%				100.0%			100.0%	100.0%	
Car	2250	2008	1177	1324			100.0%				100.0%			100.0%	100.0%	
Car	2250	2009	1179	1326			100.0%				100.0%			100.0%	100.0%	
Car	2250	2010	1173	1319			100.0%				100.0%			100.0%	100.0%	
Car	2250	2011	1176	1323			100.0%				100.0%			100.0%	100.0%	
Car	2250	2012	2843	3199	100.0%			100.0%	100.0%		100.0%			100.0%	100.0%	
Car	2250	2013	2846	3202	100.0%			100.0%	100.0%		100.0%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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
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
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
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
Car	2500	1982	1443	0.148	31.2	24.4	29.7	26.6	2500	91.5	106	72	15.4	0.683	0.0289	33.6
Car	2500	1983	1240	0.120	32.2	25.3	30.5	27.4	2500	94.8	107	75	15.0	0.705	0.0300	34.6
Car	2500	1984	1529	0.109	32.7	25.6	31.2	27.8	2500	96.3	107	78	14.7	0.726	0.0312	35.2
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
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
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
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
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
Car	2500	1990	942	0.075	35.1	26.9	32.1	29.2	2500	94.0	97	89	13.0	0.920	0.0356	36.7
Car	2500	1991	748	0.059	35.8	27.2	32.7	29.6	2500	94.2	96	91	12.8	0.957	0.0365	37.2
Car	2500	1992	525	0.043	35.9	26.8	33.1	29.6	2500	94.1	97	94	12.5	0.980	0.0376	37.3
Car	2500	1993	517	0.039	36.5	26.9	33.9	30.0	2500	93.9	99	94	12.5	0.956	0.0374	37.8
Car	2500	1994	424	0.030	36.0	26.3	33.5	29.5	2500	94.4	100	92	12.8	0.930	0.0366	37.3
Car	2500	1995	484	0.032	37.5	27.0	35.1	30.6	2500	94.1	100	99	12.0	0.991	0.0396	38.5
Car	2500	1996	329	0.025	37.4	26.6	34.9	30.4	2500	95.3	103	102	11.8	0.999	0.0407	38.2
Car	2500	1997	329	0.023	37.0	26.2	34.2	29.9	2500	94.8	101	98	12.2	0.976	0.0393	37.6
Car	2500	1998	207	0.014	37.3	26.0	34.9	30.1	2500	99.6	104	97	12.1	0.948	0.0390	37.7
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
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
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
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
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
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
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
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
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
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
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
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
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
Car	2500	2012	91	0.007	42.9	29.3	35.6	32.6	2500	97.4	91	104	11.6	1.148	0.0416	40.8
Car	2500	2013	114	0.008	43.5	29.5	36.3	33.1	2500	98.5	86	98	12.2	1.146	0.0394	41.4

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car	2500	1975			36.0%		75.2%	0.1%			20.4%					
Car	2500	1976			18.3%		67.5%				12.9%					
Car	2500	1977	2278	2847	20.7%		69.3%				12.5%		1.2%			
Car	2500	1978	2197	2746	34.3%		53.2%				8.0%					
Car	2500	1979	2163	2703	43.7%	3.5%	52.1%	4.7%			2.3%		0.6%			
Car	2500	1980	2218	2772	47.9%	3.9%	52.5%				3.8%		2.8%			
Car	2500	1981	2398	2997	53.6%	2.7%	52.4%	0.9%			4.1%		2.5%			
Car	2500	1982	2469	3086	69.3%	0.6%	57.3%	8.6%			4.6%		3.0%			
Car	2500	1983	2643	3303	68.9%	13.1%	50.5%	20.7%			3.2%	0.1%	0.4%			
Car	2500	1984	2721	3401	75.4%	2.4%	47.3%	26.4%			11.9%	1.6%	2.2%			
Car	2500	1985	2789	3486	77.1%	9.2%	53.7%	19.8%			15.7%	4.2%	1.7%			
Car	2500	1986	2882	3602	94.3%	0.9%	49.5%	22.1%			16.9%	5.3%	1.0%	2.7%		
Car	2500	1987	2810	3513	97.7%	0.8%	47.7%	32.6%			13.6%	19.5%		20.7%		
Car	2500	1988	2869	3586	99.7%	0.3%	48.3%	41.8%			11.9%	51.5%		31.8%		
Car	2500	1989	2830	3537	97.8%	2.2%	52.0%	37.6%			24.7%	47.3%		44.7%		
Car	2500	1990	2768	3460	94.4%	0.1%	56.7%	34.2%	0.1%		44.5%	51.0%		58.7%		
Car	2500	1991	2820	3524	94.7%	0.1%	62.7%	36.6%	0.1%		64.0%	36.0%		66.1%	5.1%	
Car	2500	1992	2818	3522	94.7%	0.0%	53.6%	46.3%	0.0%		82.6%	17.4%		64.3%	8.9%	
Car	2500	1993	2846	3557	95.8%	0.0%	61.9%	32.8%	0.0%		76.7%	23.3%		55.1%	4.6%	
Car	2500	1994	2828	3535	95.2%		50.7%	41.6%			75.4%	24.6%		68.4%	3.1%	
Car	2500	1995	2909	3637	95.9%		48.4%	45.6%			100.0%			66.4%	1.4%	
Car	2500	1996	2933	3666	94.2%		50.1%	43.7%			100.0%			65.1%	8.8%	
Car	2500	1997	2873	3592	94.4%		47.0%	53.0%			100.0%			60.4%	1.8%	
Car	2500	1998	3003	3754	100.0%		38.9%	61.1%			100.0%			54.0%	2.8%	
Car	2500	1999	2722	3403	100.0%		41.9%	58.1%			100.0%			59.9%	0.2%	
Car	2500	2000	2836	3544	88.4%		45.3%	54.7%			100.0%			71.0%	29.3%	
Car	2500	2001	2890	3612	96.8%		36.1%	63.9%			100.0%			73.4%	26.6%	
Car	2500	2002	2976	3719	96.4%		38.0%	62.0%			100.0%			43.4%	24.2%	
Car	2500	2003	3018	3772	86.7%		23.9%	76.1%			100.0%			100.0%	100.0%	
Car	2500	2004	2975	3719	84.7%		32.3%	67.7%			100.0%			100.0%	100.0%	
Car	2500	2005	3052	3815	90.7%		15.0%	85.0%			100.0%			100.0%	100.0%	
Car	2500	2006	3079	3849	100.0%		29.5%	70.5%			100.0%			100.0%	100.0%	
Car	2500	2007	3193	3991	100.0%		18.2%	81.8%			100.0%			100.0%	100.0%	
Car	2500	2008	3157	3946	100.0%		16.8%	83.2%			100.0%			100.0%	100.0%	
Car	2500	2009	3114	3892	100.0%		12.9%	87.1%			100.0%			100.0%	100.0%	
Car	2500	2010	3132	3915	100.0%		11.6%	88.4%			100.0%			100.0%	100.0%	
Car	2500	2011	3099	3874	100.0%		14.5%	85.5%			100.0%			100.0%	100.0%	
Car	2500	2012	3172	3965	100.0%		27.9%	72.1%			100.0%			100.0%	100.0%	
Car	2500	2013	3255	4069	100.0%		28.8%	71.2%			100.0%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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
Car	2750	1979	459	0.033	24.0	18.5	23.7	20.5	2750	82.2	132	94	13.6	0.710	0.0341	28.4
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
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
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
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
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
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
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
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
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
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
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
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
Car	2750	1992	1280	0.105	32.6	24.0	31.1	27.0	2750	98.5	110	106	12.3	0.972	0.0386	37.4
Car	2750	1993	1651	0.125	33.0	24.0	31.4	27.2	2750	101.9	112	106	12.4	0.955	0.0384	37.6
Car	2750	1994	1522	0.108	33.6	24.3	32.1	27.7	2750	101.2	109	108	12.1	1.001	0.0394	38.2
Car	2750	1995	1747	0.115	33.9	24.4	32.1	27.8	2750	102.6	110	111	12.0	1.017	0.0403	38.4
Car	2750	1996	1241	0.094	33.9	24.2	31.7	27.6	2750	101.5	108	117	11.5	1.086	0.0427	38.2
Car	2750	1997	1637	0.113	34.0	24.1	31.8	27.6	2750	100.5	109	113	11.7	1.039	0.0409	38.2
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
Car	2750	1999	1347	0.089	34.6	24.2	32.0	27.9	2750	100.5	110	118	11.3	1.078	0.0428	38.4
Car	2750	2000	1318	0.080	34.3	23.8	31.5	27.4	2750	100.5	108	120	11.2	1.118	0.0437	37.9
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
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
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
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
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
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
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
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
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
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
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
Car	2750	2012	398	0.030	44.5	29.7	37.1	33.5	2750	101.4	95	116	11.2	1.211	0.0420	47.0
Car	2750	2013	414	0.029	45.1	30.0	37.2	33.7	2750	101.1	95	116	11.2	1.217	0.0421	47.4

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car	2750	1975			0.4%		70.3%	0.3%			3.9%					
Car	2750	1976			0.9%		63.5%				3.6%					
Car	2750	1977	1728	2375	2.0%		67.5%				9.4%					
Car	2750	1978	1892	2602	0.9%		66.7%				5.5%					
Car	2750	1979	1720	2365	5.4%		59.6%				6.1%					
Car	2750	1980	2176	2992	47.9%		53.6%				13.8%					
Car	2750	1981	2533	3482	70.0%		36.0%				18.3%		0.6%			
Car	2750	1982	2566	3528	77.9%	3.1%	33.7%	30.2%			6.4%	5.8%	0.4%			
Car	2750	1983	2756	3790	89.4%	4.0%	31.2%	33.0%			12.3%	40.6%	0.6%			
Car	2750	1984	2653	3648	87.7%	2.2%	30.5%	36.3%			12.2%	42.4%	1.0%			
Car	2750	1985	2707	3722	93.3%	2.8%	21.8%	45.1%			14.5%	59.5%	0.4%			
Car	2750	1986	2667	3667	92.7%	2.9%	34.7%	47.5%			32.1%	52.6%	0.3%	17.5%		
Car	2750	1987	2658	3655	95.7%	1.9%	31.5%	44.0%			24.7%	58.4%	0.2%	26.4%		
Car	2750	1988	2717	3736	97.4%	1.8%	31.0%	58.1%			18.9%	59.8%		27.2%		
Car	2750	1989	2719	3738	97.5%	1.1%	29.6%	59.2%			21.8%	63.8%	0.3%	22.6%		
Car	2750	1990	2637	3625	99.0%	0.9%	25.7%	65.5%			56.5%	43.0%	0.2%	46.9%		
Car	2750	1991	2724	3746	99.3%	0.2%	28.1%	68.0%			63.5%	36.1%	0.3%	47.0%	6.6%	
Car	2750	1992	2681	3687	99.5%	0.5%	30.1%	64.4%			85.9%	14.0%	0.1%	58.8%	11.0%	
Car	2750	1993	2789	3835	98.4%	1.6%	27.3%	69.4%			93.8%	6.2%		52.9%	12.1%	
Car	2750	1994	2816	3872	98.7%	0.1%	32.1%	66.4%			99.7%	0.3%		67.4%	20.1%	
Car	2750	1995	2865	3940	99.9%	0.0%	27.6%	72.4%			100.0%			74.7%	13.3%	
Car	2750	1996	2816	3872	100.0%		25.1%	74.8%	0.1%		100.0%			88.0%	17.3%	
Car	2750	1997	2788	3833	100.0%		22.1%	77.5%	0.4%		100.0%			75.7%	16.8%	
Car	2750	1998	2820	3877	100.0%		22.3%	77.1%	0.3%		100.0%			83.2%	22.1%	
Car	2750	1999	2807	3860	100.0%		19.1%	80.3%	0.2%		100.0%			83.3%	20.8%	
Car	2750	2000	2768	3806	96.9%		21.1%	77.2%	0.1%		100.0%			92.2%	42.0%	
Car	2750	2001	2874	3952	94.2%		20.1%	78.4%	0.1%		100.0%			93.1%	65.9%	
Car	2750	2002	2884	3966	98.5%		22.1%	77.0%	0.4%		100.0%			93.8%	63.4%	
Car	2750	2003	2964	4075	98.2%		21.3%	77.4%	1.3%		100.0%			100.0%	80.0%	
Car	2750	2004	2955	4062	98.8%		23.0%	75.7%	1.3%		100.0%			99.6%	78.4%	
Car	2750	2005	2976	4092	99.6%		16.8%	82.2%	1.0%		100.0%			93.2%	75.4%	
Car	2750	2006	2982	4100	96.7%		17.1%	81.5%	1.5%		100.0%			91.8%	86.1%	
Car	2750	2007	3044	4186	97.6%		14.9%	85.1%			100.0%			87.8%	79.7%	
Car	2750	2008	3042	4182	96.3%		19.3%	80.7%			100.0%			98.0%	60.7%	
Car	2750	2009	3122	4293	98.4%		21.1%	78.9%			100.0%			100.0%	84.8%	
Car	2750	2010	3188	4383	96.3%		16.7%	83.3%			100.0%			100.0%	100.0%	
Car	2750	2011	3174	4365	97.7%		13.4%	86.6%			100.0%			100.0%	100.0%	
Car	2750	2012	3478	4783	98.4%		9.8%	78.9%	29.8%	24.8%	75.2%			100.0%	100.0%	11.3%
Car	2750	2013	3500	4813	98.5%		12.0%	75.4%	30.3%	26.7%	73.3%			100.0%	100.0%	12.6%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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
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
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
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
Car	3000	1982	1554	0.160	25.7	19.7	25.4	21.9	3000	104.2	163	103	13.6	0.640	0.0343	33.3
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
Car	3000	1984	1994	0.142	26.4	20.2	26.2	22.5	3000	104.9	157	107	13.3	0.689	0.0357	34.1
Car	3000	1985	2037	0.141	27.1	20.7	26.9	23.1	3000	106.7	154	110	13.0	0.727	0.0366	35.0
Car	3000	1986	2830	0.184	27.5	21.0	27.1	23.4	3000	106.6	151	108	13.2	0.723	0.0359	35.3
Car	3000	1987	2743	0.185	27.9	21.2	27.4	23.6	3000	106.3	147	111	12.9	0.767	0.0371	35.8
Car	3000	1988	3146	0.206	28.4	21.4	27.8	24.0	3000	105.3	145	114	12.6	0.797	0.0380	36.3
Car	3000	1989	3402	0.235	28.4	21.2	27.7	23.9	3000	105.2	146	118	12.3	0.815	0.0393	36.0
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
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
Car	3000	1992	1918	0.158	28.4	20.8	27.6	23.7	3000	102.7	146	127	11.6	0.885	0.0423	35.6
Car	3000	1993	2021	0.153	28.7	20.8	27.8	23.8	3000	102.6	147	125	11.8	0.863	0.0417	35.9
Car	3000	1994	2033	0.144	29.1	21.0	28.0	24.0	3000	102.9	143	124	11.8	0.881	0.0413	36.2
Car	3000	1995	1933	0.128	29.7	21.2	28.8	24.5	3000	103.6	139	136	10.9	0.988	0.0452	36.9
Car	3000	1996	1796	0.137	29.9	21.1	29.2	24.6	3000	103.1	137	133	11.0	0.980	0.0444	37.0
Car	3000	1997	1765	0.122	30.0	21.0	29.0	24.5	3000	102.5	136	134	11.0	0.993	0.0447	36.9
Car	3000	1998	1153	0.080	30.1	21.0	28.8	24.5	3000	101.1	132	131	11.2	0.997	0.0436	37.0
Car	3000	1999	924	0.061	30.1	20.9	28.4	24.4	3000	99.9	128	128	11.4	1.001	0.0426	36.8
Car	3000	2000	1470	0.089	30.6	21.3	28.6	24.7	3000	102.0	126	127	11.6	1.007	0.0423	37.3
Car	3000	2001	1255	0.080	31.6	21.8	29.1	25.3	3000	102.5	125	129	11.4	1.031	0.0429	38.3
Car	3000	2002	1587	0.099	31.4	21.6	28.9	25.1	3000	104.2	124	132	11.2	1.064	0.0440	38.0
Car	3000	2003	1776	0.113	32.8	22.4	29.8	26.0	3000	104.4	121	133	11.0	1.098	0.0443	39.5
Car	3000	2004	1576	0.100	33.5	22.5	30.4	26.4	3000	105.5	123	136	10.7	1.103	0.0452	40.3
Car	3000	2005	1738	0.109	34.2	23.0	30.6	26.8	3000	106.1	121	135	10.6	1.110	0.0449	41.3
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
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
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
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
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
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
Car	3000	2012	1886	0.140	40.3	26.6	35.9	31.2	3000	106.7	114	145	10.3	1.276	0.0484	47.1
Car	3000	2013	1645	0.114	40.1	26.5	35.6	31.1	3000	107.6	113	147	10.2	1.301	0.0489	47.0

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car	3000	1975			3.5%		48.5%	0.1%			17.1%					
Car	3000	1976			2.5%		50.4%				9.8%					
Car	3000	1977	1771	2656	3.6%		51.3%				22.4%					
Car	3000	1978	1885	2828	4.4%		35.2%				18.0%					
Car	3000	1979	1834	2751	2.6%		39.7%				14.1%		0.1%			
Car	3000	1980	2040	3060	32.0%		30.9%	1.0%			7.5%		0.5%			
Car	3000	1981	2168	3252	45.4%		21.6%	0.7%			11.9%		0.4%			
Car	3000	1982	2319	3479	53.2%		17.0%	65.1%			18.6%	26.9%	0.7%			
Car	3000	1983	2346	3520	63.0%		17.2%	62.7%			22.7%	26.5%	0.7%			
Car	3000	1984	2381	3571	73.9%	0.2%	16.2%	58.2%			27.6%	29.6%	0.8%			
Car	3000	1985	2489	3734	77.9%	0.5%	14.4%	53.5%			37.5%	34.7%	0.4%			
Car	3000	1986	2513	3770	82.2%	1.0%	15.1%	56.4%			35.7%	49.0%	0.2%	2.3%		
Car	3000	1987	2539	3809	84.1%	1.9%	15.7%	63.5%			49.6%	49.5%	0.0%	10.6%		
Car	3000	1988	2547	3821	90.6%	1.2%	17.2%	66.8%			69.9%	30.1%	0.0%	22.6%		
Car	3000	1989	2525	3788	91.3%	1.4%	16.4%	71.5%			73.4%	24.0%		33.6%		
Car	3000	1990	2497	3746	95.0%	0.7%	20.8%	68.8%			74.9%	25.0%		46.7%		
Car	3000	1991	2458	3687	93.3%	1.5%	18.4%	72.4%			75.7%	24.3%		41.8%		
Car	3000	1992	2438	3657	94.2%	0.7%	20.3%	66.3%			87.2%	12.8%		36.5%	0.2%	
Car	3000	1993	2455	3683	94.6%	0.9%	19.7%	68.9%			86.8%	13.2%		38.2%	0.2%	
Car	3000	1994	2481	3721	99.1%	0.3%	16.5%	75.6%			89.5%	10.5%		37.2%	0.7%	
Car	3000	1995	2546	3819	95.4%	2.6%	22.1%	77.9%			98.6%	1.4%		65.5%	9.9%	
Car	3000	1996	2544	3817	96.7%	1.8%	20.7%	79.3%			100.0%			61.9%	12.4%	
Car	3000	1997	2521	3781	95.5%	2.3%	19.8%	80.1%			99.9%		0.1%	69.1%	7.6%	
Car	3000	1998	2494	3741	94.6%	2.7%	24.2%	75.5%			99.0%		1.0%	57.4%	21.0%	
Car	3000	1999	2455	3682	94.4%	2.5%	26.9%	72.0%			99.0%		1.0%	49.9%	24.9%	
Car	3000	2000	2544	3816	95.7%	1.2%	21.2%	77.1%			98.6%		1.4%	48.2%	17.3%	
Car	3000	2001	2628	3942	95.9%	0.7%	22.8%	74.8%	1.3%		98.6%		1.4%	56.5%	26.4%	
Car	3000	2002	2642	3963	98.1%	0.2%	19.2%	79.0%	1.4%		98.9%		1.1%	64.4%	27.7%	1.4%
Car	3000	2003	2747	4121	97.0%	1.4%	19.4%	77.9%	2.7%		99.0%		1.0%	85.6%	40.1%	2.6%
Car	3000	2004	2842	4263	97.6%	1.2%	15.2%	79.8%	5.0%		99.4%		0.6%	92.7%	46.5%	4.5%
Car	3000	2005	2935	4402	98.0%	0.8%	15.9%	75.7%	8.4%		99.7%		0.3%	91.9%	62.6%	8.5%
Car	3000	2006	2913	4369	97.2%	1.2%	17.0%	75.8%	7.2%		99.9%		0.1%	94.7%	71.7%	7.1%
Car	3000	2007	3081	4622	97.3%	0.8%	14.3%	68.2%	17.5%	1.2%	98.8%			96.3%	55.9%	10.7%
Car	3000	2008	3156	4733	98.0%	0.9%	12.0%	66.9%	21.1%	1.3%	98.7%			98.1%	63.8%	12.3%
Car	3000	2009	3161	4742	99.0%	0.7%	9.8%	77.4%	12.8%	0.9%	99.1%			98.8%	79.4%	6.5%
Car	3000	2010	3136	4704	100.0%	0.0%	6.3%	83.2%	10.5%	1.1%	98.9%			97.2%	90.3%	2.8%
Car	3000	2011	3192	4789	99.9%	0.1%	7.6%	76.3%	16.2%	3.1%	96.9%			97.0%	89.0%	2.8%
Car	3000	2012	3343	5015	99.2%	0.8%	8.0%	90.3%	10.7%	27.2%	72.8%			97.6%	98.0%	1.3%
Car	3000	2013	3369	5053	97.5%	1.0%	11.8%	82.6%	9.2%	25.9%	74.1%			97.3%	99.0%	2.0%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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
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
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
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
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
Car	3500	1983	1669	0.162	22.8	17.5	22.6	19.5	3500	111.8	238	122	13.6	0.524	0.0348	34.3
Car	3500	1984	2220	0.158	22.9	17.5	22.8	19.5	3500	109.6	236	127	13.2	0.556	0.0363	34.5
Car	3500	1985	2461	0.170	23.4	17.7	23.7	20.0	3500	111.9	228	133	12.7	0.603	0.0379	35.1
Car	3500	1986	2760	0.180	24.4	18.2	25.1	20.8	3500	113.5	225	141	12.0	0.654	0.0404	36.5
Car	3500	1987	2521	0.170	24.6	18.0	25.7	20.9	3500	114.0	217	147	11.6	0.703	0.0421	36.7
Car	3500	1988	2693	0.176	25.4	18.5	26.5	21.5	3500	113.5	212	151	11.4	0.732	0.0431	37.9
Car	3500	1989	2688	0.186	25.1	18.2	26.2	21.3	3500	114.2	207	151	11.4	0.751	0.0431	37.4
Car	3500	1990	2704	0.214	25.5	18.3	26.4	21.5	3500	113.0	194	150	11.4	0.795	0.0430	37.7
Car	3500	1991	2137	0.170	25.4	18.2	26.0	21.3	3500	111.2	195	156	11.1	0.822	0.0446	37.4
Car	3500	1992	2822	0.232	25.6	18.2	26.2	21.5	3500	113.6	192	155	11.2	0.829	0.0442	37.6
Car	3500	1993	2848	0.216	26.0	18.5	26.5	21.7	3500	114.2	194	156	11.1	0.825	0.0447	38.2
Car	3500	1994	2770	0.196	26.1	18.4	26.5	21.7	3500	111.7	191	156	11.1	0.837	0.0445	38.2
Car	3500	1995	3628	0.240	26.4	18.5	26.9	22.0	3500	111.9	188	166	10.6	0.906	0.0473	38.5
Car	3500	1996	3154	0.240	26.5	18.5	26.6	22.0	3500	111.5	181	164	10.7	0.925	0.0470	38.5
Car	3500	1997	3196	0.221	26.7	18.5	26.8	22.1	3500	112.4	181	170	10.4	0.957	0.0486	38.7
Car	3500	1998	3995	0.276	27.1	18.6	27.0	22.3	3500	111.5	178	170	10.4	0.969	0.0485	39.2
Car	3500	1999	4610	0.303	27.2	18.6	26.8	22.3	3500	110.8	174	170	10.4	0.993	0.0486	39.1
Car	3500	2000	4665	0.282	27.1	18.5	26.7	22.2	3500	111.5	175	174	10.2	1.013	0.0498	38.9
Car	3500	2001	4313	0.276	27.2	18.5	26.5	22.1	3500	110.6	174	177	10.1	1.029	0.0505	38.9
Car	3500	2002	4294	0.266	27.7	18.7	26.6	22.4	3500	112.5	176	183	9.8	1.063	0.0524	39.4
Car	3500	2003	4119	0.261	28.0	18.7	26.9	22.6	3500	111.1	175	185	9.8	1.076	0.0528	39.7
Car	3500	2004	3561	0.227	28.1	18.7	26.9	22.6	3500	110.4	176	188	9.6	1.097	0.0538	39.8
Car	3500	2005	3265	0.205	28.9	19.2	27.3	23.1	3500	111.8	170	185	9.8	1.111	0.0528	40.7
Car	3500	2006	3024	0.200	29.2	19.3	27.4	23.2	3500	111.4	167	188	9.7	1.144	0.0537	41.0
Car	3500	2007	3016	0.197	29.9	19.9	28.0	23.8	3500	110.3	160	184	9.8	1.163	0.0525	42.0
Car	3500	2008	2458	0.177	30.6	20.3	28.4	24.3	3500	110.8	155	184	9.8	1.195	0.0525	42.8
Car	3500	2009	2191	0.235	31.7	21.0	29.5	25.1	3500	113.2	149	177	9.9	1.193	0.0507	44.2
Car	3500	2010	2339	0.211	34.6	22.9	31.6	27.2	3500	113.6	147	173	9.7	1.173	0.0495	49.8
Car	3500	2011	2537	0.211	34.8	22.8	32.5	27.5	3500	113.2	144	179	9.7	1.249	0.0511	49.4
Car	3500	2012	3362	0.250	35.9	23.6	33.3	28.3	3500	114.0	142	176	9.9	1.250	0.0502	50.7
Car	3500	2013	3385	0.236	37.3	24.5	34.2	29.2	3500	112.3	137	180	9.7	1.330	0.0514	52.6

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car	3500	1975					19.3%				6.5%		1.9%			
Car	3500	1976					17.2%				5.7%		1.4%			
Car	3500	1977	1789	3132			16.2%				6.1%		2.7%			
Car	3500	1978	1919	3358			4.7%	6.4%			1.4%		0.5%			
Car	3500	1979	1934	3385			4.0%	16.9%			1.3%		0.8%			
Car	3500	1980	1980	3465	0.2%	0.4%	3.1%	37.9%			2.2%		1.7%			
Car	3500	1981	2160	3780		0.5%	3.4%	84.4%			3.0%		2.5%			
Car	3500	1982	2170	3798	0.5%	0.6%	6.9%	88.4%			5.1%	4.4%	4.9%			
Car	3500	1983	2199	3848	0.9%	0.8%	8.7%	83.4%			9.1%	5.3%	2.6%			
Car	3500	1984	2167	3792	8.2%	0.2%	7.7%	88.9%			23.5%	12.1%	1.4%			
Car	3500	1985	2246	3930	35.2%	0.0%	8.3%	88.8%			37.6%	32.3%	0.7%			
Car	3500	1986	2377	4160	49.2%	0.5%	8.6%	88.5%			59.4%	20.7%	0.1%	1.1%		
Car	3500	1987	2399	4199	64.1%	0.4%	8.8%	87.8%			77.1%	15.0%	0.4%	3.1%		
Car	3500	1988	2464	4312	72.8%	0.2%	7.9%	89.7%			88.2%	11.4%		6.1%		
Car	3500	1989	2444	4278	80.6%	0.2%	6.8%	88.2%			87.8%	12.2%	0.0%	7.7%		
Car	3500	1990	2443	4275	84.5%	1.9%	6.3%	89.6%			97.2%	2.8%	0.0%	12.6%		
Car	3500	1991	2386	4176	79.7%	2.7%	7.4%	88.3%			96.0%	3.9%	0.1%	16.4%	0.1%	
Car	3500	1992	2447	4283	78.6%	1.7%	5.2%	92.2%			98.0%	1.9%	0.1%	24.0%	2.4%	
Car	3500	1993	2495	4365	87.5%	1.6%	4.6%	93.7%			99.6%	0.4%		24.4%	2.6%	
Car	3500	1994	2438	4266	84.8%	0.9%	7.4%	91.5%			100.0%			26.2%	9.0%	
Car	3500	1995	2466	4315	79.4%	1.4%	7.1%	91.8%			100.0%			37.4%	10.5%	
Car	3500	1996	2455	4297	89.0%	2.5%	7.5%	91.8%			99.8%		0.2%	47.0%	12.3%	
Car	3500	1997	2488	4353	88.8%	2.9%	6.2%	93.8%			99.9%		0.1%	48.7%	12.5%	
Car	3500	1998	2494	4365	88.0%	2.7%	5.7%	94.2%			100.0%			55.1%	17.8%	
Car	3500	1999	2476	4333	90.0%	2.6%	5.9%	93.7%			100.0%			63.4%	16.5%	
Car	3500	2000	2479	4339	88.4%	2.5%	6.4%	93.0%			100.0%			65.7%	22.5%	
Car	3500	2001	2461	4307	88.8%	1.9%	7.1%	92.4%			99.9%		0.1%	64.8%	21.4%	
Car	3500	2002	2533	4433	88.3%	2.6%	7.7%	92.0%	0.1%		99.7%		0.3%	67.8%	33.6%	
Car	3500	2003	2529	4426	87.1%	1.7%	8.5%	91.3%	0.2%		99.7%		0.3%	66.6%	40.7%	
Car	3500	2004	2516	4404	84.1%	2.6%	8.6%	90.7%	0.2%		99.6%		0.4%	66.6%	37.6%	
Car	3500	2005	2608	4563	85.9%	4.4%	7.2%	92.4%	0.1%		99.4%		0.6%	70.6%	47.3%	0.6%
Car	3500	2006	2618	4581	85.4%	4.1%	8.8%	91.0%			98.6%		1.4%	78.5%	57.4%	
Car	3500	2007	2657	4651	86.7%	3.7%	8.1%	79.7%	12.2%	0.2%	99.8%			87.1%	67.8%	0.2%
Car	3500	2008	2720	4759	86.7%	6.1%	7.8%	75.7%	16.5%	2.5%	97.5%			93.9%	63.3%	0.3%
Car	3500	2009	2865	5013	89.4%	5.6%	5.6%	80.7%	13.6%	3.0%	95.3%		1.7%	98.1%	78.4%	0.5%
Car	3500	2010	3247	5681	92.1%	3.6%	4.8%	67.0%	24.0%	3.2%	94.2%		2.6%	98.1%	94.9%	10.7%
Car	3500	2011	3204	5607	89.4%	5.2%	4.9%	76.9%	17.5%	16.9%	80.9%		2.2%	99.5%	96.8%	6.4%
Car	3500	2012	3308	5789	92.6%	4.2%	3.9%	86.8%	19.6%	17.8%	79.7%		2.5%	99.7%	96.7%	7.3%
Car	3500	2013	3388	5930	90.5%	4.1%	6.1%	84.5%	28.4%	34.9%	61.8%		3.3%	99.6%	96.3%	7.8%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
Car	4000	1975	1089	0.106	15.6	12.4	14.5	13.3	4000		292	130	14.5	0.443	0.0325	27.0
Car	4000	1976	1977	0.160	17.7	14.0	16.5	15.0	4000		280	122	15.4	0.433	0.0305	30.4
Car	4000	1977	3323	0.235	17.9	14.2	16.7	15.2	4000	113.5	293	133	14.2	0.453	0.0333	30.6
Car	4000	1978	2235	0.155	18.0	14.1	17.1	15.3	4000	114.9	306	145	13.1	0.474	0.0362	30.9
Car	4000	1979	2643	0.190	17.8	14.0	16.7	15.1	4000	119.6	311	147	13.0	0.472	0.0367	30.5
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
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
Car	4000	1982	1215	0.125	20.6	15.6	20.9	17.6	4000	126.4	287	135	13.8	0.479	0.0339	35.6
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
Car	4000	1984	1702	0.121	20.6	15.5	20.9	17.6	4000	126.3	289	139	13.4	0.485	0.0347	35.3
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
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
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
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
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
Car	4000	1990	986	0.078	23.0	16.7	23.7	19.4	4000	123.1	263	165	12.0	0.643	0.0412	39.0
Car	4000	1991	1114	0.089	23.3	16.7	24.1	19.6	4000	124.9	265	187	10.7	0.718	0.0466	39.4
Car	4000	1992	1166	0.096	23.4	16.7	24.1	19.7	4000	123.4	258	198	10.2	0.788	0.0495	39.5
Car	4000	1993	1059	0.080	23.6	16.7	24.1	19.7	4000	121.9	253	198	10.3	0.806	0.0494	39.6
Car	4000	1994	1342	0.095	23.5	16.6	24.0	19.6	4000	121.5	248	204	10.0	0.842	0.0510	39.3
Car	4000	1995	1281	0.085	23.5	16.4	24.2	19.6	4000	121.3	253	219	9.4	0.885	0.0547	39.3
Car	4000	1996	1093	0.083	23.9	16.6	24.6	19.9	4000	124.1	249	218	9.5	0.885	0.0546	39.9
Car	4000	1997	1259	0.087	23.8	16.4	24.3	19.8	4000	123.1	249	225	9.3	0.913	0.0562	39.6
Car	4000	1998	918	0.064	23.8	16.4	24.0	19.7	4000	123.0	247	234	8.9	0.963	0.0585	39.5
Car	4000	1999	1179	0.077	24.2	16.4	24.5	19.9	4000	123.5	238	233	9.0	1.003	0.0582	40.0
Car	4000	2000	1382	0.083	24.4	16.5	24.5	20.0	4000	122.3	235	240	8.8	1.036	0.0600	40.2
Car	4000	2001	1331	0.085	24.6	16.6	24.5	20.2	4000	121.2	227	226	9.2	1.021	0.0565	40.5
Car	4000	2002	1256	0.078	24.8	16.7	24.3	20.2	4000	116.6	223	230	9.1	1.052	0.0574	40.5
Car	4000	2003	1013	0.064	25.1	16.8	24.5	20.4	4000	114.0	215	233	9.0	1.106	0.0584	40.9
Car	4000	2004	1287	0.082	25.4	16.8	24.9	20.6	4000	113.7	211	239	8.8	1.147	0.0596	41.4
Car	4000	2005	1637	0.103	25.7	16.9	25.0	20.7	4000	115.1	214	240	8.7	1.138	0.0600	41.7
Car	4000	2006	2241	0.148	26.0	17.2	25.1	21.0	4000	116.3	215	245	8.6	1.159	0.0613	42.2
Car	4000	2007	2197	0.144	27.0	17.8	25.9	21.7	4000	114.4	208	241	8.6	1.177	0.0603	43.9
Car	4000	2008	2284	0.164	26.9	17.7	26.1	21.7	4000	113.6	209	247	8.5	1.202	0.0619	43.7
Car	4000	2009	1315	0.141	27.5	18.1	26.4	22.1	4000	113.0	208	251	8.3	1.219	0.0628	44.8
Car	4000	2010	1399	0.126	27.7	18.3	26.6	22.2	4000	112.1	213	262	8.1	1.239	0.0654	45.2
Car	4000	2011	1472	0.123	28.2	18.6	27.4	22.7	4000	111.5	207	263	8.1	1.281	0.0657	45.9
Car	4000	2012	1354	0.101	29.1	19.0	28.2	23.3	4000	111.4	205	276	7.8	1.355	0.0689	47.5
Car	4000	2013	1756	0.122	30.6	20.0	29.6	24.5	4000	110.9	195	274	7.7	1.429	0.0684	50.7

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car	4000	1975					7.6%				0.6%					
Car	4000	1976					6.9%				0.4%		0.6%			
Car	4000	1977	1739	3477			3.3%				0.5%		0.4%			
Car	4000	1978	1782	3563	0.0%		3.0%	10.4%			0.9%		0.7%			
Car	4000	1979	1830	3660	5.3%		2.2%	10.4%			2.8%		2.3%			
Car	4000	1980	2003	4007	10.9%	2.3%	0.9%	40.1%			2.5%	4.9%	9.6%			
Car	4000	1981	2171	4343	11.1%	0.9%	0.9%	82.8%			1.2%	10.3%	13.2%			
Car	4000	1982	2244	4487	11.1%	1.3%		89.6%			1.8%	18.7%	9.4%			
Car	4000	1983	2211	4422	12.5%	1.3%		94.6%			2.0%	38.0%	4.4%			
Car	4000	1984	2225	4449	12.8%	1.1%		95.8%			2.1%	41.1%	2.8%			
Car	4000	1985	2337	4674	13.0%	0.0%	0.1%	94.8%			3.8%	41.4%	2.0%			
Car	4000	1986	2366	4733	0.2%	0.7%	0.2%	92.5%			48.3%	4.4%	0.5%	1.1%		
Car	4000	1987	2275	4550	1.1%	0.4%	3.6%	87.9%			50.9%	3.2%	1.2%	4.5%		
Car	4000	1988	2392	4783	6.3%	0.3%	1.6%	92.7%			75.0%	2.2%		5.5%		
Car	4000	1989	2447	4894	8.9%	0.0%	2.5%	92.5%			84.4%	13.6%		4.0%		
Car	4000	1990	2400	4800	33.2%	0.1%	1.8%	95.5%			95.3%	4.6%	0.1%	10.5%	5.5%	
Car	4000	1991	2459	4918	38.6%	0.9%	1.9%	95.4%			86.8%	12.9%	0.4%	10.4%	6.1%	
Car	4000	1992	2440	4881	41.3%	1.9%	1.6%	97.3%			94.8%	5.2%		20.5%	8.5%	
Car	4000	1993	2415	4829	39.2%	0.7%	0.9%	97.1%			95.7%	4.3%		31.4%	8.1%	
Car	4000	1994	2390	4780	45.6%	0.2%	0.8%	97.3%			100.0%			41.7%	6.0%	
Car	4000	1995	2386	4773	44.7%	0.6%	1.2%	96.4%			99.6%		0.4%	41.9%	6.8%	
Car	4000	1996	2476	4953	51.6%	0.7%	1.1%	97.1%			99.8%		0.2%	48.3%	4.2%	
Car	4000	1997	2440	4879	50.7%	0.9%	1.0%	99.0%			99.8%		0.2%	48.2%	7.0%	
Car	4000	1998	2427	4854	50.5%	4.4%	1.2%	98.8%			99.6%		0.4%	54.9%	12.2%	
Car	4000	1999	2469	4938	55.1%	3.8%	1.5%	98.5%			99.6%		0.4%	59.5%	11.4%	
Car	4000	2000	2459	4918	55.7%	4.0%	2.1%	97.9%			100.0%			52.2%	13.4%	
Car	4000	2001	2455	4910	51.4%	12.9%	3.3%	96.7%			100.0%			60.3%	19.4%	
Car	4000	2002	2369	4738	51.9%	15.7%	2.5%	97.3%	0.2%		100.0%			70.5%	23.1%	
Car	4000	2003	2343	4686	46.2%	16.8%	3.1%	96.0%	0.9%		100.0%			77.5%	26.4%	
Car	4000	2004	2359	4719	61.0%	17.1%	3.7%	95.8%	0.5%		99.9%		0.1%	82.2%	47.9%	
Car	4000	2005	2406	4812	53.4%	13.3%	4.1%	93.0%	2.9%		99.4%		0.6%	78.7%	44.2%	
Car	4000	2006	2459	4917	52.5%	10.4%	3.9%	93.3%	2.8%		99.8%		0.2%	76.5%	56.6%	0.2%
Car	4000	2007	2513	5026	64.5%	12.1%	3.4%	89.3%	7.3%		99.9%		0.1%	75.1%	70.4%	3.3%
Car	4000	2008	2487	4974	60.2%	12.4%	3.8%	92.4%	3.8%	5.8%	94.1%		0.2%	75.6%	65.9%	1.5%
Car	4000	2009	2534	5067	60.2%	13.6%	2.2%	89.1%	8.6%	11.1%	88.7%		0.2%	76.1%	81.6%	4.1%
Car	4000	2010	2532	5063	51.4%	11.8%	4.8%	84.3%	10.1%	17.4%	82.4%		0.1%	81.7%	84.0%	4.7%
Car	4000	2011	2565	5129	56.4%	13.8%	4.0%	87.8%	7.5%	22.0%	77.5%		0.5%	84.5%	94.2%	2.5%
Car	4000	2012	2651	5302	54.0%	13.3%	4.1%	89.6%	9.9%	39.1%	60.9%			98.9%	99.6%	5.8%
Car	4000	2013	2822	5645	54.1%	15.5%	5.8%	86.4%	9.5%	46.6%	53.4%			98.7%	99.1%	11.2%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Car	4500	2004	317	0.020	22.9	15.2	22.7	18.7	4500	132.6	267	252	9.3	0.956	0.0560	42.1
Car	4500	2005	355	0.022	23.1	15.4	22.4	18.7	4500	132.1	283	272	8.8	0.967	0.0605	42.2
Car	4500	2006	371	0.025	22.6	14.9	22.3	18.4	4500	132.0	289	296	8.2	1.030	0.0658	41.5
Car	4500	2007	328	0.022	22.5	14.8	22.3	18.3	4500	124.9	295	312	7.9	1.060	0.0694	41.5
Car	4500	2008	297	0.021	22.4	14.7	22.2	18.2	4500	122.0	284	303	8.1	1.079	0.0674	41.2
Car	4500	2009	183	0.020	23.3	15.4	22.9	18.9	4500	115.1	280	316	7.8	1.149	0.0702	42.8
Car	4500	2010	221	0.020	24.1	15.9	23.7	19.6	4500	117.5	267	315	7.9	1.214	0.0700	44.3
Car	4500	2011	326	0.027	24.8	16.3	24.5	20.2	4500	116.4	259	323	7.7	1.287	0.0719	45.9
Car	4500	2012	243	0.018	25.5	16.7	25.2	20.7	4500	114.1	262	356	7.1	1.397	0.0791	47.2
Car	4500	2013	359	0.025	26.1	17.1	25.8	21.1	4500	114.9	254	351	7.2	1.419	0.0780	48.2

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car	4500	1975			0.9%		0.6%				1.6%					
Car	4500	1976			2.0%		0.1%				2.3%					
Car	4500	1977	1680	3780	1.3%		0.1%				1.6%					
Car	4500	1978	1739	3912	2.7%			12.9%			3.1%		1.5%			
Car	4500	1979	1808	4068	4.4%		0.0%	9.3%			3.4%		5.5%			
Car	4500	1980	2273	5115	7.5%		0.0%	54.2%			0.0%		28.7%			
Car	4500	1981	2459	5532	8.6%			61.7%				29.7%	44.2%			
Car	4500	1982	2696	6067	6.3%		0.0%	99.8%					45.3%			
Car	4500	1983	2512	5651	1.4%		0.0%	100.0%					12.3%			
Car	4500	1984	2630	5918	0.6%		0.0%	100.0%					4.2%			
Car	4500	1985	2884	6490	0.1%		0.0%	100.0%				0.0%	1.1%			
Car	4500	1986	2903	6532			0.0%	91.2%			8.7%					
Car	4500	1987	3043	6846			0.0%	100.0%			0.1%					
Car	4500	1988	2797	6293			0.0%	100.0%			2.9%					
Car	4500	1989	2638	5936			0.0%	96.2%			8.0%					
Car	4500	1990	2306	5189				84.4%			20.5%	30.5%		4.2%		
Car	4500	1991	2445	5500			0.7%	82.1%			26.2%	73.8%		11.6%	3.2%	
Car	4500	1992	2590	5828			0.2%	89.6%			12.2%	87.8%		5.0%	5.5%	
Car	4500	1993	2658	5981			0.2%	96.0%			10.6%	89.4%		9.3%	3.1%	
Car	4500	1994	2602	5854			0.2%	93.6%			100.0%			8.9%	7.0%	
Car	4500	1995	2413	5429		0.5%	0.5%	82.4%			100.0%			35.3%	6.0%	
Car	4500	1996	2525	5681		0.4%	0.4%	90.6%			100.0%			23.6%	15.0%	
Car	4500	1997	2025	4557			0.1%	99.9%			100.0%			97.7%	79.9%	
Car	4500	1998	1842	4144		0.0%	0.2%	99.8%			100.0%			95.7%	99.2%	
Car	4500	1999	1722	3873			0.1%	99.9%			100.0%			100.0%	61.9%	
Car	4500	2000	2080	4679		1.0%	0.3%	99.7%			100.0%			96.6%	26.1%	
Car	4500	2001	2122	4774		11.4%	1.1%	98.9%			100.0%			94.6%	34.8%	
Car	4500	2002	2254	5072		6.9%	0.7%	99.3%			100.0%			61.6%	20.8%	
Car	4500	2003	2443	5496		3.6%	0.2%	99.8%			100.0%			22.6%	8.3%	
Car	4500	2004	2477	5574	14.3%	7.2%	0.4%	99.6%			100.0%			44.2%	18.9%	
Car	4500	2005	2481	5582	13.9%	9.6%	0.4%	99.3%			100.0%			33.2%	16.6%	
Car	4500	2006	2436	5482	15.8%	9.9%	0.1%	99.4%			100.0%			41.9%	19.9%	
Car	4500	2007	2301	5178	13.3%	8.0%	0.1%	99.6%			100.0%			52.3%	21.8%	1.0%
Car	4500	2008	2236	5030	3.8%	19.3%	0.8%	98.3%		6.0%	94.0%			51.6%	34.3%	0.3%
Car	4500	2009	2201	4953	8.9%	27.8%	5.6%	93.3%		12.2%	87.8%			59.3%	68.7%	0.3%
Car	4500	2010	2315	5210	3.6%	41.3%	5.4%	93.9%	0.1%	24.3%	75.7%			62.9%	75.2%	0.1%
Car	4500	2011	2374	5341	7.6%	39.5%	2.8%	96.6%	0.1%	42.6%	56.4%		1.0%	70.7%	81.6%	0.1%
Car	4500	2012	2396	5390	1.5%	42.5%	4.6%	93.9%		58.9%	40.2%		0.9%	75.3%	91.3%	0.6%
Car	4500	2013	2459	5534	3.0%	45.6%	4.2%	93.8%	0.5%	58.5%	41.1%		0.4%	78.0%	94.3%	1.3%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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
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
Car	5000	1980	2	0.000	12.5	9.9	11.9	10.7	5000	121.9	382	156	14.6	0.409	0.0313	26.8
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Car	5000	2005	70	0.004	21.7	14.7	20.6	17.5	5000	164.1	218	254	9.9	1.163	0.0508	43.9
Car	5000	2006	25	0.002	21.5	14.6	20.3	17.4	5000	162.4	224	264	9.7	1.172	0.0528	43.5
Car	5000	2007	30	0.002	20.9	13.7	21.0	17.1	5000	143.8	281	319	8.6	1.119	0.0638	42.9
Car	5000	2008	24	0.002	20.2	13.4	20.0	16.5	5000	134.6	308	370	7.6	1.189	0.0740	41.6
Car	5000	2009	17	0.002	21.2	14.1	21.0	17.3	5000	121.9	304	402	6.8	1.333	0.0804	43.6
Car	5000	2010	22	0.002	21.6	14.4	21.1	17.5	5000	121.3	296	390	6.9	1.327	0.0780	44.3
Car	5000	2011	22	0.002	22.1	14.7	21.8	18.1	5000	123.5	283	391	7.0	1.393	0.0782	45.5
Car	5000	2012	27	0.002	22.7	15.0	22.5	18.5	5000	123.5	275	446	6.3	1.626	0.0893	46.7
Car	5000	2013	35	0.002	24.0	15.6	24.1	19.5	5000	123.1	272	443	6.4	1.632	0.0885	48.9

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car	5000	1975														
Car	5000	1976			0.3%											
Car	5000	1977	1571	3927	3.3%						0.7%					
Car	5000	1978	1663	4157	4.9%			14.1%			0.4%		0.9%			
Car	5000	1979	1587	3968							0.9%		9.1%			
Car	5000	1980	1320	3299							6.7%					
Car	5000	1981	1231	3078							42.6%	57.4%				
Car	5000	1982	1160	2900				14.2%			44.2%	41.5%				
Car	5000	1983	1246	3115				6.5%			19.3%	74.2%				
Car	5000	1984	1171	2928				15.8%			37.4%	46.8%				
Car	5000	1985	1050	2626				16.3%			83.7%					
Car	5000	1986	1039	2598				30.6%			69.4%					
Car	5000	1987	1095	2738				1.8%			100.0%					
Car	5000	1988	1170	2925				4.9%			100.0%					
Car	5000	1989	1180	2950							100.0%					
Car	5000	1990	885	2212				100.0%			100.0%					
Car	5000	1991														
Car	5000	1992	1851	4628							89.1%		10.9%	89.1%	89.1%	
Car	5000	1993	1996	4989							100.0%			93.5%	59.7%	
Car	5000	1994	2142	5354							94.0%		6.0%	94.0%	65.1%	
Car	5000	1995	1962	4904							97.3%		2.7%	97.3%	97.3%	
Car	5000	1996	2093	5232				100.0%			100.0%			100.0%	100.0%	
Car	5000	1997	2108	5269				100.0%			100.0%			100.0%	100.0%	
Car	5000	1998	2114	5286				100.0%			100.0%			100.0%	100.0%	
Car	5000	1999	2030	5075				100.0%			100.0%			92.0%	93.0%	
Car	5000	2000	1827	4567				100.0%			100.0%			100.0%	100.0%	
Car	5000	2001	1814	4534				100.0%			100.0%			2.3%	98.8%	
Car	5000	2002	1880	4700				100.0%			100.0%			100.0%		
Car	5000	2003	2053	5133				100.0%			100.0%			100.0%	100.0%	
Car	5000	2004	2880	7200		98.1%		100.0%			100.0%			100.0%	1.0%	
Car	5000	2005	2883	7207	30.8%	67.6%		100.0%			100.0%			100.0%	1.9%	
Car	5000	2006	2828	7069		94.6%		100.0%			100.0%			100.0%	6.0%	
Car	5000	2007	2478	6196	1.2%	90.7%		100.0%			100.0%			100.0%	1.0%	
Car	5000	2008	2253	5633	1.1%	68.8%		100.0%		2.0%	98.0%			100.0%	18.2%	
Car	5000	2009	2123	5308		58.1%		100.0%		33.0%	67.0%			100.0%	63.8%	
Car	5000	2010	2148	5370		73.4%		100.0%		30.5%	69.5%			100.0%	100.0%	6.6%
Car	5000	2011	2247	5617	4.3%	68.0%		100.0%		73.6%	26.4%			100.0%	95.4%	3.6%
Car	5000	2012	2306	5766		60.1%		100.0%		83.2%	12.9%		3.8%	100.0%	96.0%	0.7%
Car	5000	2013	2412	6029		68.6%		100.0%		80.4%	18.8%		0.9%	100.0%	99.1%	1.6%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Car	5500	2005	5	0.000	16.7	11.0	17.3	13.9	5500	107.8	347	491	6.5	1.409	0.0894	38.6
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
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
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
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
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
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
Car	5500	2012	1	0.000	17.7	11.6	19.1	15.0	5500	102.1	363	549	5.7	1.511	0.0998	41.4
Car	5500	2013	1	0.000	20.0	13.1	20.7	16.5	5500		319	526	6.1	1.643	0.0956	46.1

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car	5500	1975			8.2%											
Car	5500	1976			7.4%						2.9%					
Car	5500	1977	1421	3908	15.9%						3.1%					
Car	5500	1978	1437	3951	33.7%						30.0%					
Car	5500	1979	1060	2916												
Car	5500	1980	922	2534							5.0%					
Car	5500	1981	888	2442							100.0%					
Car	5500	1982	798	2194							100.0%					
Car	5500	1983	862	2370							100.0%					
Car	5500	1984	866	2382							100.0%					
Car	5500	1985	866	2382							100.0%					
Car	5500	1986	861	2369							100.0%					
Car	5500	1987	854	2348							100.0%					
Car	5500	1988	937	2578							100.0%					
Car	5500	1989	1098	3018							100.0%					
Car	5500	1990	1182	3251							100.0%					
Car	5500	1991	1187	3264							100.0%					
Car	5500	1992	1280	3519				100.0%			100.0%					
Car	5500	1993	1678	4614				56.9%			71.8%	28.2%		43.1%	43.1%	
Car	5500	1994	2106	5792				92.4%			100.0%			7.6%	7.6%	
Car	5500	1995	2186	6011				100.0%			100.0%					
Car	5500	1996	2311	6357				100.0%			100.0%					
Car	5500	1997	2328	6403	73.2%			100.0%			100.0%			73.2%		
Car	5500	1998	2060	5666	94.1%			100.0%			100.0%			94.1%		
Car	5500	1999	1216	3345				100.0%			100.0%					
Car	5500	2000	2390	6573	92.1%			100.0%			100.0%			92.2%		
Car	5500	2001	1630	4482				100.0%			100.0%					
Car	5500	2002	1589	4371				100.0%			100.0%					
Car	5500	2003														
Car	5500	2004	1952	5368	11.6%	76.2%		100.0%			100.0%			100.0%	88.4%	
Car	5500	2005	1529	4205	5.9%	85.4%		100.0%			100.0%			100.0%	94.1%	
Car	5500	2006	2559	7037		98.4%		100.0%			100.0%			100.0%	78.2%	
Car	5500	2007	2619	7203		91.6%		100.0%			89.8%		10.2%	100.0%	75.6%	
Car	5500	2008	2576	7083		94.3%		100.0%		3.3%	87.2%		9.5%	100.0%	88.0%	18.3%
Car	5500	2009	2537	6976		87.9%		100.0%		15.3%	76.0%		8.7%	100.0%	89.2%	5.4%
Car	5500	2010	1727	4748		33.0%		91.5%	8.5%	55.3%	44.7%			100.0%	100.0%	8.5%
Car	5500	2011	1894	5208		63.8%		66.2%	33.8%	33.8%	66.2%			100.0%	63.8%	33.8%
Car	5500	2012	1543	4242		92.6%		95.0%	5.0%		100.0%			100.0%	92.6%	5.0%
Car	5500	2013			7.7%	90.1%		96.0%	4.0%	34.6%	65.4%			100.0%	100.0%	4.0%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Car	6000	2012	2	0.000	17.9	11.7	18.9	15.0	6000	112.9	387	548	6.2	1.423	0.0914	45.1
Car	6000	2013	4	0.000	19.9	13.2	21.0	16.8	6000		301	449	7.7	1.499	0.0748	50.6

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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	1358	4075							100.0%					
Car	6000	1986	1355	4065							100.0%					
Car	6000	1987	1391	4174							100.0%					
Car	6000	1988	1571	4713							100.0%					
Car	6000	1989														
Car	6000	1990														
Car	6000	1991														
Car	6000	1992														
Car	6000	1993	2135	6404				100.0%			0.5%	99.5%				
Car	6000	1994	1060	3180				100.0%			100.0%					
Car	6000	1995	1059	3176				100.0%			100.0%					
Car	6000	1996	1106	3319				100.0%			100.0%					
Car	6000	1997	1104	3312				100.0%			100.0%					
Car	6000	1998	1102	3305				100.0%			100.0%					
Car	6000	1999	2325	6976	100.0%			100.0%			100.0%			100.0%		
Car	6000	2000	1399	4198				100.0%			100.0%					
Car	6000	2001	2474	7422	81.6%			100.0%			100.0%			81.6%		
Car	6000	2002	2278	6833	86.8%			100.0%			100.0%			86.8%		
Car	6000	2003	2379	7138	93.9%			100.0%			100.0%			93.9%		
Car	6000	2004	2318	6955	88.6%			100.0%			100.0%			88.6%		
Car	6000	2005	2019	6058	74.5%			100.0%			100.0%			74.5%		
Car	6000	2006	1477	4431		92.9%		100.0%			100.0%			100.0%	92.9%	
Car	6000	2007	1520	4561	24.3%	68.9%		100.0%			100.0%			100.0%	68.9%	
Car	6000	2008	1553	4660	28.6%	69.8%		100.0%			100.0%			98.4%	69.8%	
Car	6000	2009	1696	5087	46.4%	42.1%		100.0%			100.0%			94.6%	42.1%	
Car	6000	2010	1627	4882	44.9%	39.3%		100.0%		15.8%	84.2%			100.0%	84.7%	
Car	6000	2011	1822	5465	34.6%	22.2%		100.0%		35.0%	65.0%			91.8%	65.4%	
Car	6000	2012	1706	5117		48.4%		100.0%		40.2%	59.8%			88.5%	100.0%	
Car	6000	2013			33.3%	39.5%		100.0%		82.4%	17.6%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Car	6500	2012	0	0.000	15.5	10.3	15.7	12.8	6500	128.0	359	603	6.1	1.681	0.0928	41.6
Car	6500	2013	0	0.000	16.3	10.9	18.0	14.0	6500	111.3	413	487	7.3	1.178	0.0749	45.7

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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														
Car	6500	1987														
Car	6500	1988														
Car	6500	1989														
Car	6500	1990														
Car	6500	1991														
Car	6500	1992														
Car	6500	1993														
Car	6500	1994	1602	5206				100.0%			100.0%					
Car	6500	1995	1599	5196				100.0%			100.0%					
Car	6500	1996														
Car	6500	1997	1737	5646				100.0%			100.0%					
Car	6500	1998	1615	5248				100.0%			100.0%					
Car	6500	1999														
Car	6500	2000	1121	3644				100.0%			100.0%					
Car	6500	2001	1119	3636				100.0%			100.0%					
Car	6500	2002	1116	3629				100.0%			100.0%					
Car	6500	2003	1114	3621				100.0%			100.0%					
Car	6500	2004	2072	6734				100.0%			100.0%					
Car	6500	2005														
Car	6500	2006	2113	6869	100.0%			100.0%			100.0%			100.0%		
Car	6500	2007	2027	6587				100.0%			100.0%			0.1%		
Car	6500	2008	1834	5959	59.4%			100.0%			100.0%			80.3%		
Car	6500	2009	1865	6060	73.5%			100.0%			100.0%			84.6%		
Car	6500	2010	1233	4008				100.0%			100.0%			2.4%	2.4%	
Car	6500	2011	2017	6556				100.0%			100.0%			3.7%	3.7%	
Car	6500	2012	1639	5327				100.0%			100.0%			100.0%	100.0%	
Car	6500	2013	1564	5082				100.0%		35.5%	64.5%			35.5%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
Car SUV	2500	1975														
Car SUV	2500	1976														
Car SUV	2500	1977														
Car SUV	2500	1978														
Car SUV	2500	1979														
Car SUV	2500	1980														
Car SUV	2500	1981														
Car SUV	2500	1982	11	0.001	23.6	20.7	19.1	19.9	2500		151	84	13.7	0.556	0.0336	24.9
Car SUV	2500	1983	13	0.001	23.2	20.4	18.7	19.6	2500		151	87	13.3	0.580	0.0350	24.5
Car SUV	2500	1984	3	0.000	22.6	19.7	18.3	19.1	2500		150	93	12.6	0.620	0.0372	23.8
Car SUV	2500	1985														
Car SUV	2500	1986														
Car SUV	2500	1987														
Car SUV	2500	1988														
Car SUV	2500	1989														
Car SUV	2500	1990	2	0.000	32.2	25.6	27.8	26.7	2500		97	80	13.9	0.825	0.0320	33.3
Car SUV	2500	1991	12	0.001	30.7	24.3	26.4	25.3	2500		94	77	14.3	0.827	0.0310	31.7
Car SUV	2500	1992	17	0.001	29.6	23.3	25.3	24.3	2500		96	79	14.2	0.826	0.0316	30.4
Car SUV	2500	1993	19	0.001	29.3	23.0	24.9	23.9	2500		96	79	14.1	0.825	0.0318	30.0
Car SUV	2500	1994	27	0.002	29.0	22.6	24.6	23.6	2500		97	80	14.0	0.829	0.0322	29.5
Car SUV	2500	1995	19	0.001	29.7	22.7	25.4	24.0	2500		97	81	13.9	0.835	0.0324	30.1
Car SUV	2500	1996	3	0.000	29.3	22.3	25.1	23.7	2500		97	95	12.3	0.979	0.0380	29.6
Car SUV	2500	1997	4	0.000	28.4	21.6	23.9	22.8	2500		97	95	12.4	0.979	0.0380	28.5
Car SUV	2500	1998	7	0.000	28.5	21.5	23.9	22.7	2500		97	95	12.3	0.979	0.0380	28.4
Car SUV	2500	1999														
Car SUV	2500	2000														
Car SUV	2500	2001														
Car SUV	2500	2002														
Car SUV	2500	2003														
Car SUV	2500	2004														
Car SUV	2500	2005														
Car SUV	2500	2006														
Car SUV	2500	2007														
Car SUV	2500	2008														
Car SUV	2500	2009														
Car SUV	2500	2010														
Car SUV	2500	2011														
Car SUV	2500	2012														
Car SUV	2500	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car SUV	2500	1975														
Car SUV	2500	1976														
Car SUV	2500	1977														
Car SUV	2500	1978														
Car SUV	2500	1979														
Car SUV	2500	1980														
Car SUV	2500	1981														
Car SUV	2500	1982														
Car SUV	2500	1983														
Car SUV	2500	1984														
Car SUV	2500	1985														
Car SUV	2500	1986														
Car SUV	2500	1987														
Car SUV	2500	1988														
Car SUV	2500	1989														
Car SUV	2500	1990					100.0%					100.0%				
Car SUV	2500	1991					100.0%					100.0%				
Car SUV	2500	1992					72.6%	27.4%				100.0%				
Car SUV	2500	1993					66.4%	33.6%			6.7%	93.3%				
Car SUV	2500	1994					55.6%	44.4%			8.3%	91.7%		2.6%		
Car SUV	2500	1995					58.4%	41.6%			6.6%	93.4%				
Car SUV	2500	1996					66.6%	33.4%			100.0%			100.0%		
Car SUV	2500	1997					27.2%	72.8%			100.0%			100.0%		
Car SUV	2500	1998					52.5%	47.5%			100.0%			100.0%		
Car SUV	2500	1999														
Car SUV	2500	2000														
Car SUV	2500	2001														
Car SUV	2500	2002														
Car SUV	2500	2003														
Car SUV	2500	2004														
Car SUV	2500	2005														
Car SUV	2500	2006														
Car SUV	2500	2007														
Car SUV	2500	2008														
Car SUV	2500	2009														
Car SUV	2500	2010														
Car SUV	2500	2011														
Car SUV	2500	2012														
Car SUV	2500	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
Car SUV	2750	1975														
Car SUV	2750	1976														
Car SUV	2750	1977														
Car SUV	2750	1978														
Car SUV	2750	1979	9	0.001	20.8	17.5	17.7	17.6	2750		121	80	15.4	0.661	0.0291	24.2
Car SUV	2750	1980														
Car SUV	2750	1981														
Car SUV	2750	1982														
Car SUV	2750	1983														
Car SUV	2750	1984														
Car SUV	2750	1985														
Car SUV	2750	1986														
Car SUV	2750	1987														
Car SUV	2750	1988														
Car SUV	2750	1989														
Car SUV	2750	1990														
Car SUV	2750	1991														
Car SUV	2750	1992	4	0.000	29.2	22.8	25.3	24.0	2750		97	95	13.1	0.979	0.0345	33.0
Car SUV	2750	1993	2	0.000	29.1	22.5	25.2	23.8	2750		97	95	13.1	0.979	0.0345	32.8
Car SUV	2750	1994	3	0.000	28.0	21.8	23.8	22.8	2750		97	95	13.3	0.979	0.0345	31.3
Car SUV	2750	1995	1	0.000	27.7	21.6	23.1	22.4	2750		97	95	13.4	0.979	0.0345	30.8
Car SUV	2750	1996	18	0.001	28.8	21.7	25.0	23.3	2750		102	100	12.8	0.980	0.0365	32.1
Car SUV	2750	1997	2	0.000	29.6	21.7	26.4	24.0	2750		115	113	11.7	0.982	0.0411	32.9
Car SUV	2750	1998	0	0.000	29.3	21.4	25.8	23.5	2750		97	95	13.4	0.979	0.0345	32.4
Car SUV	2750	1999	2	0.000	31.0	22.9	26.3	24.6	2750		97	97	12.9	1.001	0.0354	33.8
Car SUV	2750	2000	1	0.000	31.1	22.8	26.3	24.6	2750		97	97	12.9	1.000	0.0353	33.8
Car SUV	2750	2001	0	0.000	31.0	22.7	26.0	24.4	2750		122	97	12.9	0.795	0.0353	33.6
Car SUV	2750	2002														
Car SUV	2750	2003														
Car SUV	2750	2004														
Car SUV	2750	2005														
Car SUV	2750	2006														
Car SUV	2750	2007														
Car SUV	2750	2008														
Car SUV	2750	2009														
Car SUV	2750	2010														
Car SUV	2750	2011														
Car SUV	2750	2012														
Car SUV	2750	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car SUV	2750	1975														
Car SUV	2750	1976														
Car SUV	2750	1977														
Car SUV	2750	1978														
Car SUV	2750	1979														
Car SUV	2750	1980														
Car SUV	2750	1981														
Car SUV	2750	1982														
Car SUV	2750	1983														
Car SUV	2750	1984														
Car SUV	2750	1985														
Car SUV	2750	1986														
Car SUV	2750	1987														
Car SUV	2750	1988														
Car SUV	2750	1989														
Car SUV	2750	1990														
Car SUV	2750	1991														
Car SUV	2750	1992					100.0%				100.0%					
Car SUV	2750	1993					100.0%				100.0%					
Car SUV	2750	1994					40.1%	59.9%			100.0%			100.0%		
Car SUV	2750	1995						100.0%			100.0%					
Car SUV	2750	1996			21.1%		54.4%	45.6%			100.0%			100.0%		
Car SUV	2750	1997			71.7%		48.5%	51.5%			100.0%			100.0%		
Car SUV	2750	1998						100.0%			100.0%			100.0%		
Car SUV	2750	1999			1.4%		100.0%				100.0%			4.1%		
Car SUV	2750	2000					100.0%				100.0%					
Car SUV	2750	2001					100.0%				100.0%					
Car SUV	2750	2002														
Car SUV	2750	2003														
Car SUV	2750	2004														
Car SUV	2750	2005														
Car SUV	2750	2006														
Car SUV	2750	2007														
Car SUV	2750	2008														
Car SUV	2750	2009														
Car SUV	2750	2010														
Car SUV	2750	2011														
Car SUV	2750	2012														
Car SUV	2750	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
Car SUV	3000	1975														
Car SUV	3000	1976														
Car SUV	3000	1977														
Car SUV	3000	1978														
Car SUV	3000	1979														
Car SUV	3000	1980														
Car SUV	3000	1981														
Car SUV	3000	1982	1	0.000	25.8	20.0	25.0	22.0	3000		173	110	12.6	0.636	0.0367	33.1
Car SUV	3000	1983														
Car SUV	3000	1984	1	0.000	28.3	21.9	27.6	24.1	3000		121	83	15.6	0.686	0.0276	36.2
Car SUV	3000	1985	5	0.000	23.4	18.6	21.9	19.9	3000		158	107	13.0	0.678	0.0356	30.2
Car SUV	3000	1986	2	0.000	25.7	20.2	24.0	21.8	3000		151	117	12.0	0.774	0.0390	32.8
Car SUV	3000	1987	2	0.000	26.4	20.6	24.7	22.3	3000		150	117	12.0	0.780	0.0390	33.5
Car SUV	3000	1988	1	0.000	26.3	20.5	24.2	22.1	3000		150	117	12.0	0.780	0.0390	33.3
Car SUV	3000	1989	1	0.000	24.9	19.0	23.5	20.9	3000		150	117	12.0	0.780	0.0390	31.4
Car SUV	3000	1990	1	0.000	25.0	19.0	23.4	20.9	3000		150	117	12.0	0.780	0.0390	31.4
Car SUV	3000	1991	0	0.000	23.3	17.8	21.2	19.3	3000		150	130	11.0	0.867	0.0433	29.0
Car SUV	3000	1992	1	0.000	24.8	18.6	23.2	20.6	3000		150	130	11.0	0.867	0.0433	30.9
Car SUV	3000	1993	3	0.000	25.2	19.2	22.5	20.7	3000		150	130	11.0	0.867	0.0433	31.1
Car SUV	3000	1994	7	0.000	25.6	19.2	23.0	21.0	3000		135	120	11.9	0.899	0.0400	31.5
Car SUV	3000	1995	5	0.000	27.9	20.9	24.8	22.7	3000		89	82	16.2	0.913	0.0272	34.1
Car SUV	3000	1996	25	0.002	28.7	21.1	25.8	23.3	3000		121	115	12.3	0.961	0.0385	35.2
Car SUV	3000	1997	137	0.009	28.0	20.5	25.0	22.7	3000		130	127	11.4	0.979	0.0424	34.1
Car SUV	3000	1998	35	0.002	29.7	21.6	26.5	23.9	3000		118	121	11.8	1.024	0.0404	36.0
Car SUV	3000	1999	38	0.002	29.9	21.7	26.3	23.9	3000		123	127	11.3	1.033	0.0423	36.0
Car SUV	3000	2000	35	0.002	29.7	21.4	26.0	23.7	3000		122	127	11.3	1.044	0.0423	35.6
Car SUV	3000	2001	67	0.004	29.7	21.3	25.7	23.5	3000		122	140	10.5	1.146	0.0466	35.4
Car SUV	3000	2002	63	0.004	30.6	21.5	27.0	24.2	3000		121	146	10.2	1.206	0.0488	36.4
Car SUV	3000	2003	54	0.003	29.9	20.9	26.1	23.5	3000		122	143	10.4	1.171	0.0476	35.4
Car SUV	3000	2004	40	0.003	30.9	21.5	26.8	24.2	3000		144	161	9.4	1.118	0.0537	36.3
Car SUV	3000	2005	41	0.003	30.9	21.3	26.7	24.1	3000		144	161	9.4	1.118	0.0537	36.1
Car SUV	3000	2006														
Car SUV	3000	2007														
Car SUV	3000	2008														
Car SUV	3000	2009														
Car SUV	3000	2010														
Car SUV	3000	2011														
Car SUV	3000	2012														
Car SUV	3000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car SUV	3000	1975														
Car SUV	3000	1976														
Car SUV	3000	1977														
Car SUV	3000	1978														
Car SUV	3000	1979														
Car SUV	3000	1980														
Car SUV	3000	1981														
Car SUV	3000	1982					65.4%	34.6%								
Car SUV	3000	1983														
Car SUV	3000	1984					100.0%									
Car SUV	3000	1985					39.2%	60.8%								
Car SUV	3000	1986					63.1%	36.9%				94.6%				
Car SUV	3000	1987					87.0%	13.0%				100.0%				
Car SUV	3000	1988					88.5%	11.5%				100.0%				
Car SUV	3000	1989					86.3%	13.7%				100.0%				
Car SUV	3000	1990					88.1%	11.9%				100.0%				
Car SUV	3000	1991					100.0%				100.0%					
Car SUV	3000	1992					100.0%				100.0%					
Car SUV	3000	1993					100.0%				100.0%					
Car SUV	3000	1994					100.0%				100.0%			28.8%		
Car SUV	3000	1995					100.0%				53.8%	46.2%				
Car SUV	3000	1996			56.4%		37.3%	62.7%			100.0%			82.0%		
Car SUV	3000	1997			50.1%		41.4%	42.6%			100.0%			100.0%		
Car SUV	3000	1998			80.4%		23.7%	76.3%			100.0%			100.0%		
Car SUV	3000	1999			72.8%		17.9%	82.1%			100.0%			79.5%		
Car SUV	3000	2000			60.7%		13.4%	86.6%			100.0%			60.7%		
Car SUV	3000	2001			61.0%		20.1%	79.9%			100.0%			61.0%	61.0%	
Car SUV	3000	2002			100.0%		9.6%	90.4%			100.0%			83.0%	83.0%	
Car SUV	3000	2003			100.0%		9.0%	91.0%			100.0%			75.8%	75.8%	
Car SUV	3000	2004			100.0%		5.5%	94.5%			100.0%			100.0%	100.0%	
Car SUV	3000	2005			100.0%		5.3%	94.7%			100.0%			100.0%	100.0%	
Car SUV	3000	2006														
Car SUV	3000	2007														
Car SUV	3000	2008														
Car SUV	3000	2009														
Car SUV	3000	2010														
Car SUV	3000	2011														
Car SUV	3000	2012														
Car SUV	3000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
Car SUV	3500	1975														
Car SUV	3500	1976	0	0.000	14.3	11.4	13.3	12.2	3500		350	161	10.6	0.459	0.0459	21.3
Car SUV	3500	1977														
Car SUV	3500	1978														
Car SUV	3500	1979														
Car SUV	3500	1980														
Car SUV	3500	1981														
Car SUV	3500	1982	0	0.000	16.6	14.6	13.4	14.0	3500		173	110	14.5	0.636	0.0314	24.5
Car SUV	3500	1983	21	0.002	25.1	19.0	25.4	21.4	3500		170	109	14.5	0.640	0.0311	37.6
Car SUV	3500	1984	46	0.003	23.5	17.8	24.0	20.1	3500		173	110	14.4	0.636	0.0314	35.2
Car SUV	3500	1985	82	0.006	23.5	17.6	24.4	20.1	3500		172	109	14.5	0.634	0.0311	35.2
Car SUV	3500	1986	57	0.004	22.1	17.0	21.6	18.8	3500		171	121	13.4	0.711	0.0346	33.0
Car SUV	3500	1987	93	0.006	22.8	17.1	23.0	19.4	3500		179	131	12.7	0.729	0.0374	34.0
Car SUV	3500	1988	108	0.007	22.7	17.0	22.5	19.2	3500		200	142	11.9	0.718	0.0405	33.7
Car SUV	3500	1989	107	0.007	22.7	17.0	22.0	19.1	3500		226	148	11.4	0.667	0.0422	33.5
Car SUV	3500	1990	57	0.005	22.4	16.8	21.7	18.8	3500		216	148	11.5	0.698	0.0423	33.0
Car SUV	3500	1991	82	0.007	21.8	16.8	19.8	18.1	3500		207	130	13.3	0.632	0.0372	31.9
Car SUV	3500	1992	76	0.006	20.9	15.9	19.1	17.3	3500		205	151	11.8	0.732	0.0431	30.5
Car SUV	3500	1993	78	0.006	20.3	15.3	18.7	16.8	3500		211	160	11.3	0.751	0.0457	29.5
Car SUV	3500	1994	75	0.005	21.4	15.9	19.9	17.7	3500		201	161	11.0	0.812	0.0461	31.0
Car SUV	3500	1995	34	0.002	20.1	14.4	19.7	16.7	3500		241	189	9.4	0.785	0.0540	29.3
Car SUV	3500	1996	63	0.005	21.6	15.6	20.6	17.8	3500		224	183	9.7	0.826	0.0522	31.3
Car SUV	3500	1997	33	0.002	22.2	16.1	20.6	18.2	3500		194	166	10.6	0.891	0.0476	31.9
Car SUV	3500	1998	71	0.005	24.0	17.3	22.0	19.5	3500		169	151	11.5	0.929	0.0430	34.6
Car SUV	3500	1999	84	0.006	24.3	17.5	22.0	19.7	3500		163	156	11.1	1.005	0.0445	34.7
Car SUV	3500	2000	88	0.005	24.0	17.4	21.3	19.3	3500		151	150	11.4	1.043	0.0429	34.0
Car SUV	3500	2001	215	0.014	24.6	17.4	22.3	19.8	3500		160	166	10.6	1.061	0.0475	34.9
Car SUV	3500	2002	180	0.011	25.5	17.9	23.0	20.4	3500		159	173	10.2	1.085	0.0495	36.1
Car SUV	3500	2003	218	0.014	26.5	18.2	24.4	21.2	3500		161	172	10.3	1.064	0.0490	37.3
Car SUV	3500	2004	147	0.009	27.0	18.4	24.7	21.5	3500		159	172	10.2	1.083	0.0492	37.9
Car SUV	3500	2005	239	0.015	27.2	18.8	24.0	21.5	3500		155	170	10.3	1.099	0.0485	37.7
Car SUV	3500	2006	262	0.017	28.3	19.5	25.0	22.3	3500		148	163	10.6	1.104	0.0466	39.1
Car SUV	3500	2007	288	0.019	29.0	19.8	25.8	22.9	3500		144	159	10.9	1.104	0.0453	40.2
Car SUV	3500	2008	370	0.027	28.9	19.7	25.7	22.8	3500		150	169	10.3	1.126	0.0483	39.9
Car SUV	3500	2009	260	0.028	29.9	20.2	26.9	23.6	3500		152	179	9.9	1.175	0.0512	41.3
Car SUV	3500	2010	357	0.032	30.8	20.9	27.5	24.2	3500		155	184	9.7	1.188	0.0526	42.4
Car SUV	3500	2011	491	0.041	31.3	21.1	28.2	24.7	3500		150	177	9.9	1.179	0.0507	43.3
Car SUV	3500	2012	448	0.033	31.7	21.5	28.2	24.9	3500		151	182	9.8	1.207	0.0521	43.7
Car SUV	3500	2013	447	0.031	34.0	22.8	30.2	26.5	3500		140	172	10.2	1.250	0.0492	46.6

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car SUV	3500	1975														
Car SUV	3500	1976					15.6%									
Car SUV	3500	1977														
Car SUV	3500	1978														
Car SUV	3500	1979														
Car SUV	3500	1980														
Car SUV	3500	1981														
Car SUV	3500	1982						100.0%								
Car SUV	3500	1983					30.8%	69.2%								
Car SUV	3500	1984					21.4%	78.6%								
Car SUV	3500	1985					14.4%	85.6%				5.7%				
Car SUV	3500	1986					16.1%	83.9%			0.0%	86.5%	0.0%			
Car SUV	3500	1987					13.1%	86.9%			33.3%	66.7%				
Car SUV	3500	1988					23.9%	76.1%			48.7%	51.3%				
Car SUV	3500	1989					27.1%	72.9%			45.0%	53.6%				
Car SUV	3500	1990					36.5%	63.5%			61.8%	32.3%				
Car SUV	3500	1991					15.0%	85.0%			24.2%	73.6%				
Car SUV	3500	1992					23.5%	76.5%			60.0%	36.1%				
Car SUV	3500	1993					11.4%	88.6%			66.1%	29.7%				
Car SUV	3500	1994					14.6%	51.7%			98.4%	1.6%				
Car SUV	3500	1995			0.9%		10.4%	89.6%			100.0%					
Car SUV	3500	1996					12.2%	87.8%			100.0%			31.6%		
Car SUV	3500	1997			8.9%		15.8%	84.2%			100.0%			44.4%		
Car SUV	3500	1998			27.0%		29.7%	70.3%			100.0%			60.9%		
Car SUV	3500	1999			30.0%		20.6%	79.4%			100.0%			68.1%		
Car SUV	3500	2000			29.9%		9.3%	90.7%			100.0%			77.4%		
Car SUV	3500	2001			56.6%		7.6%	92.4%			100.0%			69.3%		
Car SUV	3500	2002			80.6%		12.1%	87.3%	0.6%		100.0%			95.0%	16.2%	
Car SUV	3500	2003			98.4%		10.4%	78.0%	11.6%		100.0%			98.4%	13.1%	
Car SUV	3500	2004			96.7%		14.9%	77.0%	8.1%		100.0%			100.0%	32.0%	
Car SUV	3500	2005			100.0%		10.0%	90.0%			100.0%			100.0%	12.8%	
Car SUV	3500	2006			99.5%		7.2%	92.8%			100.0%			100.0%	38.4%	
Car SUV	3500	2007			100.0%		3.6%	96.4%			100.0%			100.0%	70.7%	2.6%
Car SUV	3500	2008			100.0%		1.6%	90.0%	8.4%		100.0%			100.0%	60.7%	
Car SUV	3500	2009			100.0%		1.1%	86.9%	12.0%		100.0%			100.0%	80.9%	
Car SUV	3500	2010			100.0%		0.5%	87.8%	11.8%		100.0%			100.0%	100.0%	
Car SUV	3500	2011			100.0%		0.8%	85.0%	14.2%	0.3%	99.7%			100.0%	100.0%	
Car SUV	3500	2012			99.3%		1.1%	97.1%	25.4%	0.2%	99.8%			100.0%	100.0%	
Car SUV	3500	2013			99.0%		1.7%	98.3%	21.8%	11.2%	88.8%			100.0%	98.3%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
Car SUV	4000	1975	10	0.001	13.1	10.1	12.6	11.1	4000		262	113	15.6	0.430	0.0282	22.6
Car SUV	4000	1976	11	0.001	12.3	9.3	12.5	10.5	4000		261	122	14.7	0.467	0.0305	22.1
Car SUV	4000	1977	19	0.001	14.3	11.2	13.6	12.2	4000		261	124	14.4	0.477	0.0311	25.1
Car SUV	4000	1978	16	0.001	13.6	10.4	13.5	11.6	4000		262	126	14.2	0.481	0.0315	23.8
Car SUV	4000	1979	7	0.000	13.3	10.8	12.0	11.3	4000		275	125	14.3	0.457	0.0312	22.8
Car SUV	4000	1980	0	0.000	17.2	13.9	15.5	14.6	4000		280	122	15.1	0.436	0.0305	29.4
Car SUV	4000	1981	0	0.000	17.3	13.7	16.1	14.7	4000		318	140	13.3	0.440	0.0350	29.4
Car SUV	4000	1982	1	0.000	19.3	15.2	18.3	16.4	4000		250	115	15.5	0.460	0.0288	32.9
Car SUV	4000	1983														
Car SUV	4000	1984	6	0.000	16.7	14.2	14.1	14.1	4000		258	112	15.9	0.434	0.0280	28.3
Car SUV	4000	1985														
Car SUV	4000	1986														
Car SUV	4000	1987														
Car SUV	4000	1988														
Car SUV	4000	1989														
Car SUV	4000	1990	6	0.000	20.9	16.1	19.1	17.4	4000		173	143	13.1	0.828	0.0359	34.9
Car SUV	4000	1991	129	0.010	21.2	15.7	20.6	17.8	4000		232	160	11.9	0.695	0.0401	35.7
Car SUV	4000	1992	144	0.012	20.9	15.4	20.1	17.4	4000		229	164	11.8	0.716	0.0411	35.0
Car SUV	4000	1993	372	0.028	20.1	14.7	19.6	16.8	4000		253	188	10.5	0.753	0.0471	33.8
Car SUV	4000	1994	221	0.016	21.1	15.5	20.2	17.5	4000		229	176	11.1	0.773	0.0440	35.1
Car SUV	4000	1995	161	0.011	21.0	15.2	20.1	17.4	4000		227	173	11.3	0.770	0.0433	34.9
Car SUV	4000	1996	178	0.014	21.4	15.5	20.4	17.7	4000		239	176	11.1	0.750	0.0441	35.5
Car SUV	4000	1997	184	0.013	21.1	15.2	19.9	17.4	4000		236	184	10.7	0.791	0.0460	34.9
Car SUV	4000	1998	342	0.024	21.4	15.3	20.1	17.5	4000		241	178	11.0	0.749	0.0446	35.1
Car SUV	4000	1999	364	0.024	21.9	15.6	20.3	17.8	4000		231	178	11.0	0.789	0.0444	35.7
Car SUV	4000	2000	493	0.030	21.3	15.1	19.8	17.4	4000		229	181	10.9	0.810	0.0453	34.8
Car SUV	4000	2001	461	0.030	22.1	15.5	20.5	17.9	4000		220	191	10.4	0.888	0.0479	36.0
Car SUV	4000	2002	361	0.022	22.5	15.7	20.9	18.2	4000		206	188	10.6	0.927	0.0469	36.7
Car SUV	4000	2003	303	0.019	23.1	16.1	21.2	18.6	4000		206	194	10.4	0.950	0.0485	37.4
Car SUV	4000	2004	413	0.026	24.2	16.5	22.6	19.5	4000		202	202	10.0	1.002	0.0505	39.1
Car SUV	4000	2005	473	0.030	24.8	16.8	23.0	19.8	4000		199	196	10.2	0.988	0.0491	39.8
Car SUV	4000	2006	429	0.028	25.0	16.9	23.2	20.0	4000		198	199	10.1	1.005	0.0497	40.2
Car SUV	4000	2007	473	0.031	25.3	17.2	23.2	20.1	4000		199	219	9.3	1.120	0.0548	40.5
Car SUV	4000	2008	378	0.027	26.3	17.8	24.1	20.9	4000		188	210	9.6	1.126	0.0526	42.4
Car SUV	4000	2009	279	0.030	27.2	18.5	24.7	21.6	4000		187	217	9.4	1.162	0.0542	43.7
Car SUV	4000	2010	301	0.027	30.4	20.3	28.1	24.1	4000		162	204	10.0	1.255	0.0510	48.8
Car SUV	4000	2011	494	0.041	30.2	20.0	27.9	23.8	4000		164	206	9.9	1.253	0.0516	48.2
Car SUV	4000	2012	595	0.044	29.9	19.9	27.6	23.6	4000		163	207	9.9	1.279	0.0517	47.9
Car SUV	4000	2013	787	0.055	31.5	20.8	29.0	24.8	4000		150	203	10.1	1.387	0.0508	49.9

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car SUV	4000	1975					68.3%									
Car SUV	4000	1976					70.6%									
Car SUV	4000	1977					82.5%									
Car SUV	4000	1978					84.2%									
Car SUV	4000	1979					90.6%	9.4%								
Car SUV	4000	1980					3.9%	86.8%								
Car SUV	4000	1981						100.0%								
Car SUV	4000	1982						100.0%								
Car SUV	4000	1983														
Car SUV	4000	1984														
Car SUV	4000	1985														
Car SUV	4000	1986														
Car SUV	4000	1987														
Car SUV	4000	1988														
Car SUV	4000	1989														
Car SUV	4000	1990						80.6%			100.0%					
Car SUV	4000	1991					19.1%	80.6%			69.8%	30.2%				
Car SUV	4000	1992					16.9%	83.1%			80.0%	20.0%				
Car SUV	4000	1993					6.8%	93.2%			99.7%	0.3%				
Car SUV	4000	1994			3.9%		17.1%	82.9%			99.8%	0.2%		14.7%		
Car SUV	4000	1995					11.5%	88.5%			100.0%			26.2%		
Car SUV	4000	1996					8.7%	91.3%			100.0%			17.8%		
Car SUV	4000	1997					10.5%	89.5%			100.0%			21.0%		
Car SUV	4000	1998					5.2%	94.8%			100.0%			14.1%		
Car SUV	4000	1999			6.1%		4.1%	95.9%			100.0%			27.5%	6.1%	
Car SUV	4000	2000			6.3%		4.4%	95.6%			100.0%			24.5%	6.3%	
Car SUV	4000	2001			24.6%		3.4%	96.6%			100.0%			28.3%	7.3%	
Car SUV	4000	2002			35.3%		4.8%	95.2%			100.0%			55.7%	8.1%	
Car SUV	4000	2003			36.4%		4.5%	87.7%	7.8%		100.0%			45.0%	14.3%	
Car SUV	4000	2004			68.8%		3.1%	90.0%	6.8%		100.0%			62.1%	28.1%	
Car SUV	4000	2005			68.0%	22.1%	0.5%	91.9%	7.7%		100.0%			44.2%	19.3%	0.9%
Car SUV	4000	2006			75.5%	11.9%	0.5%	90.4%	9.1%		100.0%			76.8%	20.9%	1.9%
Car SUV	4000	2007			84.3%	7.0%	0.7%	91.7%	7.6%		100.0%			66.3%	37.2%	1.5%
Car SUV	4000	2008			86.9%	9.5%	0.1%	94.2%	5.7%	5.3%	94.7%			74.6%	60.9%	5.7%
Car SUV	4000	2009			94.9%	4.6%	0.2%	81.6%	18.3%	2.8%	97.2%			87.3%	73.9%	5.9%
Car SUV	4000	2010			87.0%	13.0%	0.1%	91.7%	8.2%	55.9%	44.1%			100.0%	99.8%	2.2%
Car SUV	4000	2011			85.0%	13.1%	0.5%	94.6%	5.0%	49.9%	50.1%			100.0%	99.6%	0.9%
Car SUV	4000	2012			76.8%	17.7%	0.1%	99.4%	4.3%	66.1%	33.9%			95.8%	95.8%	0.5%
Car SUV	4000	2013			84.9%	15.1%	0.1%	99.9%	2.5%	75.2%	24.8%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
Car SUV	4500	1975														
Car SUV	4500	1976														
Car SUV	4500	1977														
Car SUV	4500	1978														
Car SUV	4500	1979														
Car SUV	4500	1980														
Car SUV	4500	1981														
Car SUV	4500	1982														
Car SUV	4500	1983														
Car SUV	4500	1984														
Car SUV	4500	1985														
Car SUV	4500	1986														
Car SUV	4500	1987														
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Car SUV	4500	1990														
Car SUV	4500	1991														
Car SUV	4500	1992														
Car SUV	4500	1993														
Car SUV	4500	1994														
Car SUV	4500	1995														
Car SUV	4500	1996														
Car SUV	4500	1997														
Car SUV	4500	1998														
Car SUV	4500	1999														
Car SUV	4500	2000														
Car SUV	4500	2001														
Car SUV	4500	2002														
Car SUV	4500	2003														
Car SUV	4500	2004	39	0.002	21.0	14.1	20.3	17.1	4500		238	281	8.4	1.187	0.0625	38.5
Car SUV	4500	2005	46	0.003	21.7	14.6	20.7	17.6	4500		232	268	8.6	1.161	0.0597	39.5
Car SUV	4500	2006	46	0.003	21.5	14.6	20.3	17.4	4500		232	265	8.7	1.145	0.0589	39.2
Car SUV	4500	2007	148	0.010	23.4	15.6	22.3	18.9	4500		221	263	8.8	1.193	0.0585	42.5
Car SUV	4500	2008	162	0.012	23.7	15.9	22.6	19.1	4500		216	261	8.8	1.209	0.0580	43.1
Car SUV	4500	2009	65	0.007	24.0	16.1	22.6	19.3	4500		218	266	8.7	1.226	0.0592	43.4
Car SUV	4500	2010	248	0.022	25.6	17.3	23.7	20.4	4500		206	266	8.7	1.296	0.0590	46.1
Car SUV	4500	2011	218	0.018	26.5	17.8	24.9	21.2	4500		204	276	8.5	1.363	0.0613	47.9
Car SUV	4500	2012	224	0.017	25.7	17.1	24.1	20.5	4500		212	277	8.5	1.311	0.0616	46.3
Car SUV	4500	2013	288	0.020	26.8	17.8	25.2	21.4	4500		216	287	8.3	1.330	0.0638	48.3

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car SUV	4500	1975														
Car SUV	4500	1976														
Car SUV	4500	1977														
Car SUV	4500	1978														
Car SUV	4500	1979														
Car SUV	4500	1980														
Car SUV	4500	1981														
Car SUV	4500	1982														
Car SUV	4500	1983														
Car SUV	4500	1984														
Car SUV	4500	1985														
Car SUV	4500	1986														
Car SUV	4500	1987														
Car SUV	4500	1988														
Car SUV	4500	1989														
Car SUV	4500	1990														
Car SUV	4500	1991														
Car SUV	4500	1992														
Car SUV	4500	1993														
Car SUV	4500	1994														
Car SUV	4500	1995														
Car SUV	4500	1996														
Car SUV	4500	1997														
Car SUV	4500	1998														
Car SUV	4500	1999														
Car SUV	4500	2000														
Car SUV	4500	2001														
Car SUV	4500	2002														
Car SUV	4500	2003														
Car SUV	4500	2004				55.1%		100.0%			100.0%			100.0%	100.0%	
Car SUV	4500	2005					3.3%	96.7%			100.0%			100.0%	100.0%	
Car SUV	4500	2006					4.8%	95.2%			100.0%			100.0%	100.0%	
Car SUV	4500	2007			66.1%		0.6%	99.4%			100.0%			100.0%	27.7%	
Car SUV	4500	2008			65.1%		0.2%	99.8%			100.0%			100.0%	32.5%	
Car SUV	4500	2009			55.2%		0.1%	99.9%			100.0%			100.0%	42.8%	
Car SUV	4500	2010			73.8%	16.1%	0.0%	98.6%	1.4%	28.6%	71.4%			100.0%	100.0%	
Car SUV	4500	2011			72.4%	23.4%		100.0%		39.1%	60.9%			100.0%	100.0%	
Car SUV	4500	2012			59.2%	35.0%		100.0%		47.1%	52.9%			100.0%	100.0%	
Car SUV	4500	2013			69.0%	23.7%		100.0%	3.2%	29.1%	70.9%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
Car SUV	5000	1975														
Car SUV	5000	1976														
Car SUV	5000	1977														
Car SUV	5000	1978														
Car SUV	5000	1979														
Car SUV	5000	1980														
Car SUV	5000	1981														
Car SUV	5000	1982														
Car SUV	5000	1983														
Car SUV	5000	1984														
Car SUV	5000	1985														
Car SUV	5000	1986														
Car SUV	5000	1987														
Car SUV	5000	1988														
Car SUV	5000	1989														
Car SUV	5000	1990														
Car SUV	5000	1991														
Car SUV	5000	1992														
Car SUV	5000	1993														
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Car SUV	5000	1996														
Car SUV	5000	1997														
Car SUV	5000	1998														
Car SUV	5000	1999														
Car SUV	5000	2000														
Car SUV	5000	2001														
Car SUV	5000	2002														
Car SUV	5000	2003														
Car SUV	5000	2004														
Car SUV	5000	2005	13	0.001	19.1	12.6	19.4	15.7	5000		236	273	9.3	1.158	0.0546	39.4
Car SUV	5000	2006	15	0.001	20.7	13.7	20.5	16.9	5000		235	272	9.3	1.160	0.0544	42.3
Car SUV	5000	2007	10	0.001	20.6	13.7	20.4	16.8	5000		232	269	9.4	1.160	0.0537	42.2
Car SUV	5000	2008	14	0.001	20.9	13.9	20.3	17.0	5000		228	265	9.5	1.165	0.0531	42.4
Car SUV	5000	2009	4	0.000	19.2	12.6	19.4	15.8	5000		226	263	9.6	1.166	0.0526	39.5
Car SUV	5000	2010	8	0.001	33.6	24.7	26.0	25.4	5000		200	260	7.7	1.319	0.0519	66.2
Car SUV	5000	2011	4	0.000	32.3	23.4	25.6	24.6	5000		198	263	7.9	1.358	0.0527	64.4
Car SUV	5000	2012	2	0.000	40.3	31.4	27.9	29.3	5000		211	245	7.6	1.164	0.0490	73.3
Car SUV	5000	2013	5	0.000	40.4	31.5	27.9	29.4	5000		211	245	7.8	1.162	0.0490	73.4

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Car SUV	5000	1975														
Car SUV	5000	1976														
Car SUV	5000	1977														
Car SUV	5000	1978														
Car SUV	5000	1979														
Car SUV	5000	1980														
Car SUV	5000	1981														
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Car SUV	5000	1992														
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Car SUV	5000	1997														
Car SUV	5000	1998														
Car SUV	5000	1999														
Car SUV	5000	2000														
Car SUV	5000	2001														
Car SUV	5000	2002														
Car SUV	5000	2003														
Car SUV	5000	2004														
Car SUV	5000	2005				100.0%		100.0%			100.0%			100.0%	100.0%	
Car SUV	5000	2006				90.0%		100.0%			100.0%			100.0%	100.0%	
Car SUV	5000	2007				94.4%		100.0%			100.0%			100.0%	100.0%	
Car SUV	5000	2008				96.8%		100.0%			100.0%			100.0%	100.0%	
Car SUV	5000	2009				97.0%		100.0%			100.0%			100.0%	100.0%	
Car SUV	5000	2010			73.4%	26.6%		26.6%	73.4%		100.0%			100.0%	100.0%	73.4%
Car SUV	5000	2011			66.8%	33.2%		33.2%	66.8%		100.0%			100.0%	100.0%	66.8%
Car SUV	5000	2012			99.7%	0.3%		0.3%	99.7%		100.0%			100.0%	100.0%	99.7%
Car SUV	5000	2013			100.0%				100.0%		100.0%			100.0%	100.0%	100.0%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	2006														
Van	2250	2007														
Van	2250	2008														
Van	2250	2009														
Van	2250	2010														
Van	2250	2011														
Van	2250	2012														
Van	2250	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%			
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														
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Van	2250	2006														
Van	2250	2007														
Van	2250	2008														
Van	2250	2009														
Van	2250	2010														
Van	2250	2011														
Van	2250	2012														
Van	2250	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
Van	2750	1975														
Van	2750	1976														
Van	2750	1977														
Van	2750	1978														
Van	2750	1979														
Van	2750	1980														
Van	2750	1981														
Van	2750	1982														
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														
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Van	2750	2006														
Van	2750	2007														
Van	2750	2008														
Van	2750	2009														
Van	2750	2010														
Van	2750	2011														
Van	2750	2012														
Van	2750	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Van	2750	1975														
Van	2750	1976														
Van	2750	1977														
Van	2750	1978														
Van	2750	1979														
Van	2750	1980														
Van	2750	1981														
Van	2750	1982														
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														
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Van	2750	2006														
Van	2750	2007														
Van	2750	2008														
Van	2750	2009														
Van	2750	2010														
Van	2750	2011														
Van	2750	2012														
Van	2750	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
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														
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Van	3000	2007														
Van	3000	2008														
Van	3000	2009														
Van	3000	2010														
Van	3000	2011														
Van	3000	2012														
Van	3000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Van	3000	1975					71.4%					100.0%				
Van	3000	1976														
Van	3000	1977														
Van	3000	1978														
Van	3000	1979														
Van	3000	1980														
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%			95.2%		
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	3000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	69	0.005	31.3	21.2	27.3	24.3	3500		136	146	11.6	1.074	0.0417	42.5
Van	3500	2013	28	0.002	32.8	22.4	26.7	24.7	3500		139	146	11.7	1.048	0.0416	43.2

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%				
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%		0.7%		
Van	3500	1995			95.4%	0.8%	0.2%	99.8%			87.5%	12.5%		14.3%		
Van	3500	1996			76.3%	0.4%	0.1%	99.9%			100.0%			75.5%		
Van	3500	1997			73.1%			100.0%			100.0%			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%		1.7%	98.3%			100.0%			100.0%	47.1%	
Van	3500	2013			100.0%		3.1%	96.9%	43.5%		100.0%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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														
Van	4000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Van	4000	1975					34.8%									
Van	4000	1976					30.9%									
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%		4.6%		
Van	4000	1995			79.7%	10.1%		100.0%			96.0%	4.0%		3.0%		
Van	4000	1996			90.3%			100.0%			100.0%			5.3%		
Van	4000	1997			87.9%			100.0%			100.0%			6.3%		
Van	4000	1998			96.2%			100.0%			100.0%			11.6%		
Van	4000	1999			95.7%			100.0%			100.0%			15.9%	8.5%	
Van	4000	2000			95.9%			100.0%			100.0%			25.7%	13.9%	
Van	4000	2001			95.8%			100.0%			100.0%			32.6%	18.6%	
Van	4000	2002			95.7%			100.0%			100.0%			33.0%	24.5%	
Van	4000	2003			96.9%			100.0%			100.0%			19.6%	15.5%	
Van	4000	2004			92.6%			100.0%			100.0%			15.3%	12.0%	
Van	4000	2005			95.4%			89.6%	10.4%		100.0%			20.7%		
Van	4000	2006			100.0%			78.1%	21.9%		100.0%			39.3%	6.3%	
Van	4000	2007			100.0%			68.9%	31.1%		100.0%			41.3%		
Van	4000	2008														
Van	4000	2009														
Van	4000	2010														
Van	4000	2011														
Van	4000	2012														
Van	4000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			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
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	554	0.041	26.7	17.6	25.6	21.4	4500		215	268	8.7	1.245	0.0596	48.3
Van	4500	2013	366	0.025	26.9	17.8	25.6	21.5	4500		214	267	8.8	1.243	0.0592	48.5

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%		1.6%		
Van	4500	1995				7.5%		97.8%			56.0%	44.0%		2.5%		
Van	4500	1996			52.1%	6.1%		97.8%			100.0%			1.7%		
Van	4500	1997			35.5%	13.3%		98.0%			100.0%			2.2%		
Van	4500	1998			40.3%	14.7%		100.0%			100.0%			4.6%		
Van	4500	1999			76.0%	4.8%		100.0%			100.0%			11.8%	11.8%	
Van	4500	2000			78.4%	3.7%		100.0%			100.0%			21.1%	21.1%	
Van	4500	2001			88.5%	1.9%		100.0%			100.0%			27.2%	26.7%	
Van	4500	2002			90.9%	2.8%		100.0%			100.0%			24.7%	23.9%	
Van	4500	2003			88.6%	6.0%		100.0%			100.0%			30.1%	29.3%	
Van	4500	2004			93.2%	5.0%		100.0%			100.0%			64.8%	64.8%	
Van	4500	2005			92.3%	6.6%		96.2%	3.8%		100.0%			42.6%	38.8%	
Van	4500	2006			95.6%	4.4%		97.9%	2.1%		100.0%			52.0%	44.7%	
Van	4500	2007			97.2%	2.8%		98.3%	1.7%		100.0%			56.6%	56.2%	
Van	4500	2008			96.1%	3.9%		100.0%			100.0%			51.7%	51.0%	
Van	4500	2009			97.4%	2.6%		100.0%			100.0%			46.9%	39.6%	
Van	4500	2010			98.4%	1.6%		100.0%			100.0%			29.6%	29.6%	
Van	4500	2011			98.5%	1.5%		96.5%	3.5%		100.0%			100.0%	100.0%	
Van	4500	2012			99.1%	0.9%		100.0%	3.9%		100.0%			100.0%	100.0%	
Van	4500	2013			100.0%			100.0%	5.6%		100.0%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	27	0.002	22.6	15.4	21.0	18.1	5000		240	229	10.9	0.982	0.0459	45.6
Van	5000	2013	159	0.011	25.0	16.5	24.2	20.2	5000		222	275	9.4	1.246	0.0550	50.5

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%				
Van	5000	1995			1.7%	22.7%	0.7%	87.0%			90.2%	9.8%				
Van	5000	1996				15.2%		93.1%			100.0%					
Van	5000	1997				16.9%		100.0%			100.0%					
Van	5000	1998				15.3%		100.0%			100.0%					
Van	5000	1999			0.1%	11.3%		100.0%			100.0%			0.1%		
Van	5000	2000				16.7%		100.0%			100.0%					
Van	5000	2001				12.7%		100.0%			100.0%					
Van	5000	2002			32.1%	13.3%		100.0%			100.0%			32.1%		
Van	5000	2003			37.7%	15.3%		100.0%			100.0%			37.7%		
Van	5000	2004			52.5%	10.0%		100.0%			100.0%			52.5%		
Van	5000	2005			58.9%	10.5%		100.0%			100.0%			58.9%		
Van	5000	2006				13.0%		100.0%			100.0%					
Van	5000	2007						100.0%			100.0%					
Van	5000	2008			63.9%			100.0%			100.0%			63.9%		
Van	5000	2009			88.5%			100.0%			100.0%			88.5%	58.9%	
Van	5000	2010			93.7%			100.0%			100.0%			93.7%	57.5%	
Van	5000	2011				72.8%		100.0%			100.0%			72.8%	72.8%	
Van	5000	2012				44.9%		100.0%			100.0%			44.9%	44.9%	
Van	5000	2013			82.5%	10.0%		100.0%			100.0%			92.5%	92.5%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	3	0.000	18.5	12.8	16.8	14.8	5500		323	308	9.2	0.954	0.0560	40.8
Van	5500	2013	7	0.000	18.7	13.0	17.1	15.0	5500		317	294	9.6	0.925	0.0535	41.4

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%				
Van	5500	1995						70.8%			94.9%	5.1%				
Van	5500	1996						61.5%			100.0%					
Van	5500	1997			5.9%			100.0%			100.0%					
Van	5500	1998						100.0%			100.0%					
Van	5500	1999			2.8%			100.0%			100.0%					
Van	5500	2000			10.0%			100.0%			100.0%					
Van	5500	2001			1.9%	17.8%		100.0%			100.0%			1.9%		
Van	5500	2002			7.2%			100.0%			100.0%			7.2%		
Van	5500	2003			1.4%	1.9%		100.0%			100.0%			1.4%		
Van	5500	2004				24.9%		100.0%			100.0%					
Van	5500	2005				39.2%		100.0%			100.0%					
Van	5500	2006				33.6%		100.0%			100.0%					
Van	5500	2007				100.0%		100.0%			100.0%					
Van	5500	2008				48.5%		100.0%			100.0%					
Van	5500	2009				55.0%		100.0%			100.0%					
Van	5500	2010				64.7%		100.0%			100.0%				100.0%	
Van	5500	2011				52.7%		100.0%			100.0%			11.4%	82.1%	
Van	5500	2012				69.4%		100.0%			100.0%				97.4%	
Van	5500	2013				23.9%		100.0%			100.0%				79.5%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	6	0.000	18.0	12.6	16.3	14.5	6000		311	277	10.9	0.887	0.0461	43.5
Van	6000	2013	6	0.000	18.0	12.5	16.4	14.5	6000		314	279	10.8	0.886	0.0466	43.5

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%					
Van	6000	1995						100.0%			100.0%					
Van	6000	1996						100.0%			100.0%					
Van	6000	1997						100.0%			100.0%					
Van	6000	1998						100.0%			100.0%					
Van	6000	1999						100.0%			100.0%					
Van	6000	2000						100.0%			100.0%					
Van	6000	2001				95.4%		100.0%			100.0%					
Van	6000	2002						100.0%			100.0%					
Van	6000	2003				39.1%		100.0%			100.0%					
Van	6000	2004				17.8%		100.0%			100.0%					
Van	6000	2005				18.6%		100.0%			100.0%					
Van	6000	2006				19.0%		100.0%			100.0%					
Van	6000	2007				28.6%		100.0%			100.0%					
Van	6000	2008				32.9%		100.0%			100.0%					
Van	6000	2009				37.3%		100.0%			100.0%					
Van	6000	2010				33.3%		100.0%			100.0%				100.0%	
Van	6000	2011				21.7%		100.0%			100.0%				56.6%	
Van	6000	2012				16.0%		100.0%			100.0%				56.4%	
Van	6000	2013				16.2%		100.0%			100.0%				57.3%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
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														
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	16.3	11.2	15.4	13.3	6500		320	272	11.6	0.853	0.0419	43.1
Van	6500	2013	1	0.000	16.2	11.1	15.4	13.2	6500		333	276	11.5	0.831	0.0424	43.0

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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														
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%				33.9%	
Van	6500	2012						100.0%			100.0%				48.0%	
Van	6500	2013						100.0%			100.0%				39.6%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
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	15.0	10.1	14.9	12.4	7000		367	322	10.7	0.878	0.0460	43.4
Van	7000	2013	0	0.000	15.1	10.1	14.9	12.4	7000		369	323	10.7	0.878	0.0462	43.5

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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														
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%				95.3%	
Van	7000	2012						100.0%			100.0%				94.8%	
Van	7000	2013						100.0%			100.0%				95.2%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
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	11.9	0.885	0.0405	47.8
Van	8000	2013														

# 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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														
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%	
Van	8000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
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	2000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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														
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	2000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
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	2250	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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														
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	2250	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	2500	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%				
Truck SUV	2500	1993				100.0%	100.0%					100.0%				
Truck SUV	2500	1994				100.0%	100.0%					100.0%				
Truck SUV	2500	1995				100.0%	100.0%				63.1%	36.9%				
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	2500	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	2750	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%				
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%		14.3%		
Truck SUV	2750	1995				100.0%	47.4%	52.6%			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	2750	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	3000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%				
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%		12.8%		
Truck SUV	3000	1995				100.0%	79.7%	20.3%			81.4%	18.6%				
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%			17.6%		
Truck SUV	3000	2000				100.0%	59.3%	40.7%			100.0%			0.0%		
Truck SUV	3000	2001				100.0%	33.0%	67.0%			100.0%					
Truck SUV	3000	2002				100.0%	60.1%	39.9%			100.0%					
Truck SUV	3000	2003				100.0%	42.6%	57.4%			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	3000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	301	0.022	30.8	21.1	27.1	24.2	3500		149	175	10.0	1.178	0.0500	42.4
Truck SUV	3500	2013	366	0.025	31.9	21.8	27.8	24.9	3500		142	169	10.4	1.195	0.0483	43.7

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%			
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%					
Truck SUV	3500	1995				100.0%	30.2%	69.8%			100.0%			4.4%		
Truck SUV	3500	1996				100.0%	12.8%	87.2%			100.0%			4.6%		
Truck SUV	3500	1997				95.7%	47.0%	53.0%			100.0%			46.1%		
Truck SUV	3500	1998				94.4%	39.4%	60.6%			100.0%			65.1%		
Truck SUV	3500	1999				100.0%	26.3%	73.7%			100.0%			83.2%		
Truck SUV	3500	2000				100.0%	15.9%	84.1%			100.0%			60.4%		
Truck SUV	3500	2001				98.6%	11.8%	88.2%			100.0%			84.1%	10.6%	
Truck SUV	3500	2002				98.6%	10.0%	89.5%	0.4%		100.0%			90.7%	38.5%	
Truck SUV	3500	2003			5.3%	94.0%	7.8%	88.5%	3.7%		100.0%			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%			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				100.0%	3.2%	77.4%	29.8%		100.0%			100.0%	100.0%	
Truck SUV	3500	2013			8.3%	91.7%	3.5%	96.5%	33.5%	7.4%	92.6%			100.0%	91.7%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	568	0.042	29.1	19.8	25.8	22.9	4000		167	207	10.0	1.242	0.0518	46.1
Truck SUV	4000	2013	623	0.043	30.8	20.9	27.3	24.1	4000		148	207	10.0	1.446	0.0517	48.7

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%								
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%		23.2%		
Truck SUV	4000	1995				92.6%	15.1%	84.9%			100.0%			21.5%		
Truck SUV	4000	1996				95.8%	5.9%	94.1%			100.0%			12.1%		
Truck SUV	4000	1997				86.9%	7.6%	92.4%			100.0%			34.4%		
Truck SUV	4000	1998				89.3%	4.5%	95.5%			100.0%			32.6%		
Truck SUV	4000	1999				85.8%	8.8%	91.2%			100.0%			36.2%	11.5%	
Truck SUV	4000	2000				82.6%	10.9%	89.1%			100.0%			37.0%	13.0%	
Truck SUV	4000	2001			7.4%	77.3%	6.5%	93.5%			100.0%			49.6%	33.3%	
Truck SUV	4000	2002			11.5%	68.4%	7.6%	92.4%			100.0%			59.6%	32.6%	
Truck SUV	4000	2003			12.5%	80.6%	7.0%	87.6%	5.4%		100.0%			65.8%	47.6%	
Truck SUV	4000	2004			8.8%	76.1%	6.7%	88.6%	4.7%		100.0%			42.0%	29.7%	
Truck SUV	4000	2005			12.0%	88.0%	3.4%	88.6%	8.0%		100.0%			69.7%	32.7%	1.1%
Truck SUV	4000	2006			9.8%	90.2%	7.3%	87.4%	5.3%		100.0%			63.5%	40.2%	2.3%
Truck SUV	4000	2007			7.6%	86.4%	3.5%	91.6%	4.8%		100.0%			78.4%	65.0%	1.0%
Truck SUV	4000	2008			2.7%	89.5%	3.3%	88.7%	8.0%	2.1%	97.9%			85.3%	63.1%	2.3%
Truck SUV	4000	2009			6.0%	91.5%	0.3%	85.4%	14.3%	5.8%	94.2%			92.2%	75.9%	1.9%
Truck SUV	4000	2010			7.0%	90.4%	2.3%	79.4%	15.6%	3.8%	96.2%			91.1%	90.2%	1.0%
Truck SUV	4000	2011			4.9%	91.2%	1.6%	76.2%	22.2%	3.9%	96.1%			91.5%	91.0%	0.5%
Truck SUV	4000	2012			6.1%	93.9%	3.6%	94.9%	25.2%	3.9%	96.1%			100.0%	100.0%	0.4%
Truck SUV	4000	2013			3.1%	96.9%	2.5%	97.5%	23.5%	37.6%	62.4%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	789	0.059	24.7	16.8	22.8	19.7	4500		213	264	8.9	1.249	0.0586	44.7
Truck SUV	4500	2013	910	0.063	25.9	17.5	23.9	20.7	4500		207	269	8.7	1.319	0.0599	46.8

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%								
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%			11.9%		
Truck SUV	4500	1995				90.4%	5.7%	94.3%			100.0%			21.5%		
Truck SUV	4500	1996				74.7%	3.2%	96.8%			100.0%			9.4%		
Truck SUV	4500	1997				79.0%	2.5%	97.5%			100.0%			7.5%		
Truck SUV	4500	1998				89.8%	1.6%	98.4%			100.0%			9.8%		
Truck SUV	4500	1999				91.2%	0.9%	99.1%			100.0%			9.9%		
Truck SUV	4500	2000				91.6%	1.7%	98.3%			100.0%			12.6%		
Truck SUV	4500	2001			16.4%	71.8%	1.6%	98.4%			100.0%			28.8%	15.1%	
Truck SUV	4500	2002				73.4%	0.9%	99.1%			100.0%			35.9%	25.7%	
Truck SUV	4500	2003			0.0%	68.6%	0.4%	99.6%			100.0%			50.6%	39.0%	
Truck SUV	4500	2004			2.6%	74.9%	0.6%	99.4%			100.0%			58.7%	48.4%	
Truck SUV	4500	2005			0.9%	70.7%	0.8%	99.2%			99.1%		0.9%	70.0%	61.9%	
Truck SUV	4500	2006			8.5%	63.6%	0.9%	86.6%	12.5%		99.2%		0.8%	81.3%	72.7%	9.1%
Truck SUV	4500	2007			6.8%	76.3%	2.7%	90.0%	7.4%		100.0%		0.0%	78.3%	63.3%	3.8%
Truck SUV	4500	2008			11.2%	77.8%	1.9%	95.5%	2.6%		100.0%		0.0%	75.7%	61.6%	2.6%
Truck SUV	4500	2009			22.0%	75.0%	1.0%	91.1%	7.9%	1.3%	98.7%			82.4%	66.8%	0.0%
Truck SUV	4500	2010			18.8%	76.9%	1.4%	94.1%	4.5%	2.7%	97.3%			79.7%	71.3%	
Truck SUV	4500	2011			22.1%	75.0%	1.2%	95.0%	3.8%	3.9%	96.1%			84.8%	82.9%	
Truck SUV	4500	2012			22.8%	71.7%	1.9%	98.1%	3.8%	5.7%	94.3%			90.0%	90.0%	
Truck SUV	4500	2013			23.7%	74.2%	1.6%	98.4%	15.3%	11.6%	88.0%		0.3%	100.0%	99.7%	0.1%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	693	0.052	24.3	16.4	22.7	19.5	5000		220	288	8.9	1.312	0.0576	48.9
Truck SUV	5000	2013	599	0.042	24.8	16.8	23.1	19.9	5000		218	289	8.8	1.333	0.0579	50.1

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%								
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%		31.5%		
Truck SUV	5000	1995				75.9%	2.3%	97.7%			75.2%	24.8%		12.7%		
Truck SUV	5000	1996				72.0%	2.6%	97.4%			100.0%			22.5%		
Truck SUV	5000	1997				26.2%		100.0%			100.0%			20.6%		
Truck SUV	5000	1998				58.8%		100.0%			100.0%					
Truck SUV	5000	1999				54.4%		100.0%			100.0%			14.6%		
Truck SUV	5000	2000				68.0%		100.0%			100.0%			2.2%	2.2%	
Truck SUV	5000	2001				97.1%	0.3%	99.7%			100.0%			20.3%	20.3%	
Truck SUV	5000	2002				88.4%	4.5%	95.5%			100.0%			62.5%	45.2%	
Truck SUV	5000	2003				86.9%	0.1%	99.9%			100.0%			71.5%	56.1%	
Truck SUV	5000	2004				79.3%	0.2%	99.8%			100.0%			73.5%	58.7%	
Truck SUV	5000	2005				82.4%	0.1%	99.9%			100.0%			70.1%	61.6%	
Truck SUV	5000	2006			1.0%	83.6%	0.4%	99.6%			100.0%			64.5%	62.9%	
Truck SUV	5000	2007				8.0%	81.1%	0.3%	99.7%		98.9%		1.1%	58.0%	56.5%	
Truck SUV	5000	2008			17.4%	71.0%	0.1%	96.3%	3.5%	0.5%	98.4%		1.1%	69.0%	65.2%	3.5%
Truck SUV	5000	2009			33.9%	60.2%	0.1%	96.7%	3.2%	23.5%	75.5%		1.0%	84.8%	85.5%	3.2%
Truck SUV	5000	2010			25.8%	64.9%	0.0%	94.2%	5.8%	40.6%	58.8%		0.6%	80.0%	81.5%	5.8%
Truck SUV	5000	2011			24.3%	63.5%	0.0%	98.4%	1.6%	45.2%	53.9%		0.9%	99.0%	99.5%	1.6%
Truck SUV	5000	2012			24.1%	71.6%	0.0%	98.3%	1.7%	54.3%	44.9%		0.8%	99.2%	99.2%	1.7%
Truck SUV	5000	2013			28.7%	66.1%	0.0%	95.7%	4.2%	36.9%	61.1%		2.0%	98.1%	92.1%	4.2%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	84	0.006	21.6	14.6	20.3	17.4	5500		286	351	7.6	1.270	0.0639	49.0
Truck SUV	5500	2013	121	0.008	21.6	14.4	20.9	17.5	5500		277	350	8.3	1.296	0.0636	48.7

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%									
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%				
Truck SUV	5500	1995				66.5%		100.0%				100.0%				
Truck SUV	5500	1996				74.9%		100.0%			100.0%		0.0%			
Truck SUV	5500	1997				85.1%		100.0%			100.0%					
Truck SUV	5500	1998				85.1%		100.0%			100.0%			3.4%		
Truck SUV	5500	1999				14.8%		100.0%			100.0%			4.3%		
Truck SUV	5500	2000				40.6%		100.0%			100.0%			15.8%		
Truck SUV	5500	2001				45.7%		100.0%			100.0%			23.7%		
Truck SUV	5500	2002				19.9%		100.0%			100.0%			28.8%		
Truck SUV	5500	2003				20.0%		100.0%			100.0%			24.7%	0.4%	
Truck SUV	5500	2004				47.7%		100.0%			100.0%			47.2%	30.3%	
Truck SUV	5500	2005				56.9%		100.0%			100.0%			46.4%	39.0%	
Truck SUV	5500	2006				62.1%		100.0%			100.0%			43.5%	43.5%	
Truck SUV	5500	2007				84.3%		100.0%			100.0%			61.1%	38.1%	
Truck SUV	5500	2008				94.1%	0.1%	99.9%		43.7%	56.3%			60.4%	55.8%	
Truck SUV	5500	2009				73.4%	0.3%	99.7%		28.0%	68.0%		4.0%	64.8%	69.6%	
Truck SUV	5500	2010				86.1%	0.0%	98.9%	1.1%	44.5%	45.5%		10.0%	82.3%	92.9%	1.1%
Truck SUV	5500	2011				95.8%		99.9%	0.1%	35.9%	54.8%		9.3%	59.1%	90.7%	1.5%
Truck SUV	5500	2012				96.0%		100.0%		15.6%	62.1%		22.3%	50.9%	73.8%	2.1%
Truck SUV	5500	2013				94.9%		100.0%		51.8%	46.2%		2.0%	62.6%	89.9%	1.8%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	276	0.021	20.7	13.8	19.6	16.6	6000		321	339	9.1	1.063	0.0565	50.2
Truck SUV	6000	2013	332	0.023	21.3	14.4	21.2	17.6	6000		328	341	9.1	1.048	0.0568	53.7

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Truck SUV	6000	1975				100.0%	12.7%									
Truck SUV	6000	1976				100.0%	12.8%									
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%				
Truck SUV	6000	1995				100.0%		100.0%			1.0%	99.0%				
Truck SUV	6000	1996				100.0%		100.0%			99.5%		0.5%			
Truck SUV	6000	1997				100.0%		100.0%			99.6%		0.4%			
Truck SUV	6000	1998				100.0%		100.0%			99.7%		0.3%	13.0%		
Truck SUV	6000	1999				100.0%		100.0%			100.0%			29.8%		
Truck SUV	6000	2000				100.0%		100.0%			100.0%			13.6%		
Truck SUV	6000	2001				93.4%		100.0%			100.0%			23.0%		
Truck SUV	6000	2002				84.5%		100.0%			100.0%			7.3%		
Truck SUV	6000	2003				75.1%		100.0%			100.0%			7.8%	2.1%	
Truck SUV	6000	2004				78.2%		100.0%			99.9%		0.1%	13.4%	7.3%	
Truck SUV	6000	2005				76.6%		100.0%			100.0%			36.6%	34.9%	
Truck SUV	6000	2006				77.2%		100.0%			99.8%		0.2%	63.1%	63.0%	
Truck SUV	6000	2007				56.7%		100.0%			99.7%		0.3%	14.8%	28.6%	
Truck SUV	6000	2008				57.2%		98.2%	1.8%	0.8%	97.9%		1.2%	37.3%	41.8%	1.8%
Truck SUV	6000	2009				57.2%		95.5%	4.5%	1.4%	96.9%		1.7%	33.8%	45.4%	5.9%
Truck SUV	6000	2010				60.7%		99.3%	0.6%	12.9%	84.5%		2.6%	51.2%	89.8%	0.7%
Truck SUV	6000	2011				65.9%		99.7%	0.3%	15.4%	82.1%		2.5%	36.1%	98.4%	0.3%
Truck SUV	6000	2012				66.2%		100.0%	0.3%	18.1%	78.2%		3.7%	42.8%	96.3%	0.3%
Truck SUV	6000	2013				59.3%		100.0%	4.3%	15.7%	83.3%		1.1%	29.4%	98.9%	4.3%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			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
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	61	0.005	18.6	12.7	17.5	15.0	6500		344	344	9.7	0.998	0.0529	49.0
Truck SUV	6500	2013	68	0.005	18.9	12.9	17.8	15.3	6500		348	352	9.5	1.007	0.0541	50.0

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%			100.0%	44.5%	
Truck SUV	6500	2011				91.5%		98.7%	1.3%		100.0%			68.4%	100.0%	1.3%
Truck SUV	6500	2012				88.7%		100.0%	1.2%		100.0%			74.8%	100.0%	1.2%
Truck SUV	6500	2013				89.2%		100.0%	4.0%		100.0%			66.6%	100.0%	4.0%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
Truck SUV	7000	1982														
Truck SUV	7000	1983														
Truck SUV	7000	1984														
Truck SUV	7000	1985														
Truck SUV	7000	1986														
Truck SUV	7000	1987														
Truck SUV	7000	1988														
Truck SUV	7000	1989														
Truck SUV	7000	1990														
Truck SUV	7000	1991														
Truck SUV	7000	1992														
Truck SUV	7000	1993														
Truck SUV	7000	1994														
Truck SUV	7000	1995														
Truck SUV	7000	1996														
Truck SUV	7000	1997														
Truck SUV	7000	1998														
Truck SUV	7000	1999														
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														
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	2	0.000	15.4	10.3	15.4	12.7	7000		366	352	10.0	0.961	0.0503	44.5
Truck SUV	7000	2013	1	0.000	15.4	10.3	15.4	12.7	7000		366	352	10.0	0.961	0.0503	44.5

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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														
Truck SUV	7000	1982														
Truck SUV	7000	1983														
Truck SUV	7000	1984														
Truck SUV	7000	1985														
Truck SUV	7000	1986														
Truck SUV	7000	1987														
Truck SUV	7000	1988														
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Truck SUV	7000	1992														
Truck SUV	7000	1993														
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Truck SUV	7000	1999														
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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														
Truck SUV	7000	2009														
Truck SUV	7000	2010														
Truck SUV	7000	2011				100.0%		100.0%			100.0%				100.0%	
Truck SUV	7000	2012				100.0%		100.0%			100.0%				100.0%	
Truck SUV	7000	2013				100.0%		100.0%			100.0%				100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
Truck SUV	8500	1985														
Truck SUV	8500	1986														
Truck SUV	8500	1987														
Truck SUV	8500	1988														
Truck SUV	8500	1989														
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														
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	0	0.000	16.4	11.2	15.6	13.3	8500		330	310	12.9	0.941	0.0365	56.6
Truck SUV	8500	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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														
Truck SUV	8500	1985														
Truck SUV	8500	1986														
Truck SUV	8500	1987														
Truck SUV	8500	1988														
Truck SUV	8500	1989														
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														
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						100.0%			100.0%			100.0%	100.0%	
Truck SUV	8500	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
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Pickup	2000	2001														
Pickup	2000	2002														
Pickup	2000	2003														
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Pickup	2000	2006														
Pickup	2000	2007														
Pickup	2000	2008														
Pickup	2000	2009														
Pickup	2000	2010														
Pickup	2000	2011														
Pickup	2000	2012														
Pickup	2000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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														
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Pickup	2000	2007														
Pickup	2000	2008														
Pickup	2000	2009														
Pickup	2000	2010														
Pickup	2000	2011														
Pickup	2000	2012														
Pickup	2000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
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Pickup	2250	1997														
Pickup	2250	1998														
Pickup	2250	1999														
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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	2250	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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														
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Pickup	2250	2007														
Pickup	2250	2008														
Pickup	2250	2009														
Pickup	2250	2010														
Pickup	2250	2011														
Pickup	2250	2012														
Pickup	2250	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
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Pickup	2500	2009														
Pickup	2500	2010														
Pickup	2500	2011														
Pickup	2500	2012														
Pickup	2500	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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														
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Pickup	2500	2009														
Pickup	2500	2010														
Pickup	2500	2011														
Pickup	2500	2012														
Pickup	2500	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
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Pickup	2750	2006														
Pickup	2750	2007														
Pickup	2750	2008														
Pickup	2750	2009														
Pickup	2750	2010														
Pickup	2750	2011														
Pickup	2750	2012														
Pickup	2750	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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														
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	2750	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	3000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%					
Pickup	3000	1995					79.0%	9.2%			100.0%			18.1%		
Pickup	3000	1996					72.2%	2.1%			100.0%			99.9%		
Pickup	3000	1997					82.0%	18.0%			100.0%			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	3000	2013														

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	22	0.002	27.5	18.7	24.5	21.6	3500		177	180	9.9	1.016	0.0516	37.8
Pickup	3500	2013	8	0.001	29.4	20.2	24.4	22.4	3500		164	159	10.8	0.967	0.0454	39.2

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%		1.9%		
Pickup	3500	1995				7.7%	69.5%	30.5%			83.1%	16.9%		6.9%		
Pickup	3500	1996				7.5%	66.2%	33.8%			100.0%			14.8%		
Pickup	3500	1997				1.0%	67.9%	32.1%			100.0%			9.2%		
Pickup	3500	1998				8.5%	57.8%	42.2%			100.0%			18.9%		
Pickup	3500	1999				7.5%	46.9%	53.1%			100.0%			16.1%		
Pickup	3500	2000				5.4%	41.0%	59.0%			100.0%			19.7%		
Pickup	3500	2001				2.8%	40.2%	57.1%			100.0%			34.4%		
Pickup	3500	2002					34.7%	60.6%			100.0%			54.8%		
Pickup	3500	2003				1.4%	36.1%	60.4%			100.0%			33.2%		
Pickup	3500	2004					38.5%	53.7%			100.0%			77.4%	12.7%	
Pickup	3500	2005					37.7%	62.3%			100.0%			77.9%	51.5%	
Pickup	3500	2006				1.2%	35.8%	64.2%			100.0%			86.7%	59.5%	
Pickup	3500	2007					32.3%	67.7%			100.0%			89.2%	89.2%	
Pickup	3500	2008					25.7%	74.3%			100.0%			87.4%	92.4%	
Pickup	3500	2009					23.9%	76.1%			100.0%			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%			98.4%	22.3%	
Pickup	3500	2012					14.8%	85.2%			100.0%			100.0%	100.0%	
Pickup	3500	2013					28.5%	71.5%			100.0%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	92	0.007	25.8	17.7	22.5	20.2	4000		198	198	10.4	1.000	0.0495	40.5
Pickup	4000	2013	64	0.004	25.7	17.9	21.9	19.9	4000		195	190	10.7	0.976	0.0476	40.0

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%				
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%		8.4%		
Pickup	4000	1995				53.8%	38.4%	61.6%			77.2%	22.8%		17.0%		
Pickup	4000	1996				44.0%	31.7%	68.3%			100.0%			22.4%		
Pickup	4000	1997				26.0%	31.3%	68.7%			100.0%			10.9%		
Pickup	4000	1998				42.1%	35.5%	64.5%			100.0%			15.5%		
Pickup	4000	1999				52.4%	26.1%	73.9%			100.0%			16.0%		
Pickup	4000	2000				45.0%	21.0%	79.0%			100.0%			13.6%		
Pickup	4000	2001				43.1%	16.7%	83.3%			100.0%			21.5%		
Pickup	4000	2002				38.1%	19.7%	80.3%			100.0%			40.0%		
Pickup	4000	2003				36.3%	15.4%	84.6%			100.0%			34.5%		
Pickup	4000	2004				41.3%	16.3%	83.7%			100.0%			53.4%	20.3%	
Pickup	4000	2005				35.2%	17.1%	82.9%			100.0%			77.9%	72.5%	
Pickup	4000	2006				29.8%	17.1%	82.9%			100.0%			82.7%	80.5%	
Pickup	4000	2007				27.6%	14.2%	85.8%			100.0%			65.9%	53.6%	
Pickup	4000	2008				31.3%	13.9%	86.1%			100.0%			63.5%	44.0%	
Pickup	4000	2009				25.5%	22.1%	77.9%			100.0%			81.3%	52.7%	
Pickup	4000	2010				24.1%	16.2%	83.8%			100.0%			75.7%	76.3%	
Pickup	4000	2011				35.7%	11.2%	88.8%			100.0%			59.8%	60.2%	
Pickup	4000	2012				18.7%	10.2%	89.8%			100.0%			99.6%	100.0%	
Pickup	4000	2013				22.5%	16.2%	83.8%			100.0%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	157	0.012	22.3	15.3	20.2	17.8	4500		243	247	9.4	1.020	0.0549	40.1
Pickup	4500	2013	94	0.007	23.0	15.8	20.9	18.3	4500		243	240	9.6	0.988	0.0532	41.4

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%			
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%				
Pickup	4500	1995				18.4%	26.6%	73.4%			58.9%	41.1%		0.7%		
Pickup	4500	1996				11.9%	19.0%	81.0%			100.0%			1.4%		
Pickup	4500	1997				16.3%	12.5%	87.5%			100.0%			1.2%		
Pickup	4500	1998				9.6%	11.4%	88.6%			100.0%			0.6%		
Pickup	4500	1999				18.1%	9.4%	90.6%			100.0%					
Pickup	4500	2000				17.7%	10.3%	89.7%			100.0%			7.3%		
Pickup	4500	2001				16.0%	11.0%	89.0%			100.0%			9.1%		
Pickup	4500	2002				27.1%	8.7%	91.3%			100.0%			15.4%		
Pickup	4500	2003				27.6%	12.5%	87.5%			100.0%			12.2%		
Pickup	4500	2004				31.9%	10.9%	89.1%			100.0%			9.1%	6.0%	
Pickup	4500	2005				35.7%	7.6%	92.4%			100.0%			38.1%	38.1%	
Pickup	4500	2006				48.2%	7.0%	93.0%			100.0%			61.1%	61.1%	
Pickup	4500	2007				52.3%	7.3%	92.7%			100.0%			56.2%	47.4%	
Pickup	4500	2008				57.6%	9.1%	90.9%			100.0%			59.4%	50.9%	
Pickup	4500	2009				77.2%	5.8%	94.2%			100.0%			84.1%	39.3%	
Pickup	4500	2010				76.0%	4.4%	95.6%			100.0%			85.5%	86.8%	
Pickup	4500	2011				72.3%	4.3%	95.7%			100.0%			79.3%	80.5%	
Pickup	4500	2012				71.2%	4.7%	95.3%			100.0%			92.2%	93.5%	
Pickup	4500	2013				66.1%	7.5%	92.5%			100.0%			90.3%	90.3%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	0.060	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	126	0.009	21.5	14.6	19.9	17.3	5000		274	288	9.3	1.053	0.0575	43.3
Pickup	5000	2013	180	0.013	22.3	15.2	20.8	17.9	5000		268	294	9.0	1.112	0.0588	45.1

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%			
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%				
Pickup	5000	1995				83.9%	11.0%	89.0%			52.3%	47.7%				
Pickup	5000	1996				70.7%	7.8%	92.1%			99.8%		0.2%			
Pickup	5000	1997				60.1%	5.7%	94.3%			100.0%		0.0%			
Pickup	5000	1998				75.5%	5.1%	94.9%			100.0%		0.0%			
Pickup	5000	1999				73.5%	2.6%	97.4%			100.0%					
Pickup	5000	2000				78.9%	1.6%	98.4%			100.0%			8.9%		
Pickup	5000	2001				46.9%	1.7%	98.3%			100.0%			4.1%		
Pickup	5000	2002				51.3%	2.0%	98.0%			100.0%			5.5%		
Pickup	5000	2003				49.6%	1.5%	98.5%			100.0%			4.7%		
Pickup	5000	2004				46.5%	1.4%	98.6%			100.0%			9.1%	0.3%	0.0%
Pickup	5000	2005				33.5%	2.3%	97.7%			100.0%			15.0%	15.0%	0.1%
Pickup	5000	2006				28.9%	3.8%	96.2%			100.0%			20.2%	20.2%	0.1%
Pickup	5000	2007				17.1%	3.2%	96.8%			100.0%			10.3%	20.8%	0.1%
Pickup	5000	2008				16.1%	1.8%	98.2%			100.0%			8.3%	1.7%	
Pickup	5000	2009				18.3%	0.1%	99.9%			100.0%			10.7%	5.3%	
Pickup	5000	2010				26.1%	1.1%	98.9%			100.0%			17.5%	28.6%	
Pickup	5000	2011				27.2%		100.0%		0.2%	99.8%			36.2%	62.9%	
Pickup	5000	2012				30.8%		100.0%		0.6%	99.4%			39.3%	66.0%	
Pickup	5000	2013				23.5%		100.0%		3.3%	96.7%			51.7%	81.7%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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
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	623	0.046	21.0	14.2	19.9	17.0	5500		316	338	8.6	1.081	0.0615	46.9
Pickup	5500	2013	694	0.048	21.4	14.4	20.8	17.5	5500		309	338	8.6	1.114	0.0615	48.2

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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%			
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%				
Pickup	5500	1995				96.8%	9.4%	90.6%			79.9%	20.1%				
Pickup	5500	1996				99.1%	3.9%	95.3%			96.2%		3.8%			
Pickup	5500	1997				99.8%	0.7%	99.3%			99.8%		0.2%			
Pickup	5500	1998				94.7%	3.9%	96.1%			99.7%		0.3%			
Pickup	5500	1999				93.1%	3.5%	96.5%			100.0%					
Pickup	5500	2000				86.5%	2.3%	97.7%			100.0%					
Pickup	5500	2001				97.9%	1.8%	98.2%			100.0%					
Pickup	5500	2002				73.7%	1.1%	98.9%			100.0%					
Pickup	5500	2003				65.7%	0.9%	99.1%			100.0%					
Pickup	5500	2004				43.4%	0.8%	99.2%			100.0%			27.5%	21.5%	0.0%
Pickup	5500	2005				60.5%	0.5%	99.5%			100.0%			33.0%	33.0%	0.1%
Pickup	5500	2006				56.6%	0.3%	99.7%			100.0%			33.4%	33.4%	0.3%
Pickup	5500	2007				48.5%	0.2%	99.8%			100.0%			23.7%	23.7%	0.0%
Pickup	5500	2008				46.9%	0.2%	99.8%			100.0%			18.5%	18.6%	
Pickup	5500	2009				46.1%		100.0%			100.0%			15.5%	17.4%	
Pickup	5500	2010				44.3%		100.0%			100.0%			32.6%	77.5%	
Pickup	5500	2011				55.4%		100.0%		3.9%	96.1%			21.6%	94.6%	
Pickup	5500	2012				57.1%		100.0%		4.2%	95.8%			22.3%	96.8%	
Pickup	5500	2013				50.0%		100.0%		7.2%	92.8%			31.4%	99.0%	

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
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	323	0.024	20.4	14.0	18.9	16.4	6000		283	359	8.7	1.321	0.0599	49.4
Pickup	6000	2013	466	0.032	20.6	14.1	19.2	16.6	6000		280	369	8.5	1.364	0.0615	50.3

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
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														
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%					
Pickup	6000	1995				100.0%	0.5%	99.5%			100.0%					
Pickup	6000	1996				100.0%		100.0%					100.0%			
Pickup	6000	1997				100.0%		100.0%					100.0%			
Pickup	6000	1998				100.0%	0.5%	99.5%			98.4%		1.6%			
Pickup	6000	1999				100.0%	0.1%	99.9%			100.0%		0.0%			
Pickup	6000	2000				100.0%	3.0%	97.0%			100.0%					
Pickup	6000	2001				100.0%	17.0%	83.0%			100.0%					
Pickup	6000	2002				71.4%	0.1%	99.9%			100.0%			2.3%		
Pickup	6000	2003				69.3%	0.0%	100.0%			100.0%					
Pickup	6000	2004				87.8%	0.0%	100.0%			100.0%			63.9%	63.9%	
Pickup	6000	2005				88.6%	0.0%	100.0%			100.0%			68.0%	68.0%	
Pickup	6000	2006				93.0%	0.0%	100.0%			100.0%			83.0%	83.0%	
Pickup	6000	2007				83.6%		100.0%			100.0%			64.5%	64.5%	
Pickup	6000	2008				86.2%		100.0%			100.0%			77.0%	78.0%	
Pickup	6000	2009				94.5%		98.8%	1.2%		100.0%			67.5%	76.8%	1.2%
Pickup	6000	2010				95.6%		99.6%	0.4%		100.0%			94.1%	42.6%	0.4%
Pickup	6000	2011				95.7%		99.6%	0.4%	26.9%	73.1%			92.8%	100.0%	0.4%
Pickup	6000	2012				95.6%		100.0%	0.2%	35.0%	65.0%			95.8%	100.0%	0.2%
Pickup	6000	2013				94.8%		100.0%	1.0%	35.0%	65.0%			92.2%	100.0%	1.0%

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP				
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														
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	15	0.001	16.7	11.5	15.7	13.6	6500		378	411	8.3	1.086	0.0632	44.1
Pickup	6500	2013	19	0.001	16.7	11.5	15.8	13.6	6500		378	411	8.3	1.086	0.0632	44.2

## 2013 FE Trends Report

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

Vehicle Type	Weight Class	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lock	CVT	GDI	Port	TBI	Diesel			
Pickup	6500	1975														
Pickup	6500	1976														
Pickup	6500	1977														
Pickup	6500	1978														
Pickup	6500	1979														
Pickup	6500	1980														
Pickup	6500	1981														
Pickup	6500	1982														
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%	
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%	
Pickup	6500	2012				100.0%		100.0%			100.0%				100.0%	
Pickup	6500	2013				100.0%		100.0%			100.0%				100.0%	

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
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			64.3%	2.4%	
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			59.7%		
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	2876	68.2%		
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	2838	66.2%	4.2%	
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	2835	57.2%	6.4%	
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	3087	45.5%	2.1%	
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	3349	45.2%		
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	3512	40.0%	32.2%	
Car	Front Wheel Drive	1983	3784	0.473	30.3	23.5	29.5	25.9	2682	104.2	129.5	86	14.4	0.681	0.0317	35.0	2751	3641	36.4%	38.9%	
Car	Front Wheel Drive	1984	5737	0.537	29.7	23.0	29.0	25.3	2752	105.4	133.0	90	14.1	0.694	0.0325	35.2	2725	3709	30.3%	42.4%	
Car	Front Wheel Drive	1985	6648	0.616	29.4	22.6	28.9	25.1	2825	106.5	142.3	98	13.5	0.712	0.0344	35.7	2722	3800	26.3%	48.6%	
Car	Front Wheel Drive	1986	7831	0.711	29.9	22.8	29.4	25.4	2844	107.0	139.9	100	13.5	0.730	0.0347	36.4	2758	3894	27.1%	52.4%	
Car	Front Wheel Drive	1987	8267	0.770	29.7	22.6	29.1	25.2	2869	106.2	139.7	103	13.3	0.752	0.0354	36.3	2703	3855	26.1%	56.5%	
Car	Front Wheel Drive	1988	8768	0.817	30.0	22.5	29.3	25.3	2911	106.2	141.8	107	13.0	0.775	0.0364	36.9	2719	3928	25.5%	64.6%	
Car	Front Wheel Drive	1989	8267	0.825	29.3	21.8	28.8	24.6	2980	107.0	146.9	115	12.6	0.803	0.0381	36.8	2666	3942	21.7%	68.6%	0.2%
Car	Front Wheel Drive	1990	7455	0.846	28.6	21.1	28.3	24.0	3082	106.7	151.3	123	12.1	0.844	0.0397	37.1	2591	3967	19.7%	73.1%	0.0%
Car	Front Wheel Drive	1991	7096	0.832	28.9	21.2	28.4	24.2	3046	106.3	148.8	124	12.1	0.859	0.0402	36.9	2604	3932	21.0%	73.7%	
Car	Front Wheel Drive	1992	6551	0.808	28.4	20.5	28.2	23.7	3120	107.2	157.1	131	11.7	0.868	0.0416	37.2	2580	3987	18.5%	75.4%	0.0%
Car	Front Wheel Drive	1993	7195	0.851	29.0	20.8	28.5	24.1	3109	107.6	154.5	130	11.8	0.871	0.0414	37.5	2626	4045	18.7%	76.3%	
Car	Front Wheel Drive	1994	7104	0.844	28.9	20.7	28.5	24.0	3143	107.6	152.7	133	11.7	0.895	0.0417	37.8	2613	4068	17.4%	78.8%	
Car	Front Wheel Drive	1995	7701	0.820	29.2	20.6	28.9	24.2	3155	108.6	154.3	144	11.0	0.956	0.0450	38.2	2656	4152	16.8%	82.4%	
Car	Front Wheel Drive	1996	6829	0.865	29.0	20.3	28.5	23.9	3200	108.7	153.2	147	11.0	0.974	0.0454	38.3	2620	4160	14.6%	84.4%	0.0%
Car	Front Wheel Drive	1997	7213	0.865	29.1	20.3	28.6	23.9	3197	108.3	153.0	149	10.9	0.985	0.0459	38.3	2612	4151	13.1%	86.1%	0.1%
Car	Front Wheel Drive	1998	6937	0.870	29.2	20.2	28.5	23.9	3243	108.9	154.5	152	10.8	0.998	0.0462	38.8	2621	4226	11.5%	88.0%	0.1%
Car	Front Wheel Drive	1999	7303	0.872	28.7	19.8	28.0	23.5	3307	109.2	157.0	156	10.7	1.010	0.0467	38.8	2580	4249	10.0%	89.4%	0.0%
Car	Front Wheel Drive	2000	7750	0.849	28.8	19.7	27.9	23.4	3313	110.3	155.9	158	10.6	1.030	0.0473	38.8	2596	4284	9.7%	89.3%	0.0%
Car	Front Wheel Drive	2001	7069	0.841	29.2	19.9	28.0	23.6	3312	110.2	155.4	158	10.6	1.034	0.0474	39.3	2631	4333	9.9%	88.8%	0.3%
Car	Front Wheel Drive	2002	7050	0.849	29.5	20.0	27.9	23.7	3320	111.4	156.9	163	10.4	1.056	0.0486	39.5	2662	4400	9.5%	89.8%	0.5%
Car	Front Wheel Drive	2003	6494	0.820	30.1	20.2	28.4	24.1	3320	111.0	154.3	163	10.3	1.077	0.0488	40.2	2703	4467	10.1%	88.8%	1.1%
Car	Front Wheel Drive	2004	6093	0.808	30.2	20.1	28.5	24.1	3357	111.6	157.2	169	10.1	1.096	0.0499	40.7	2721	4541	8.5%	89.6%	1.7%
Car	Front Wheel Drive	2005	6402	0.798	31.1	20.6	28.9	24.7	3337	111.9	152.8	165	10.2	1.097	0.0490	41.5	2804	4652	8.2%	88.9%	2.7%
Car	Front Wheel Drive	2006	6056	0.758	30.9	20.5	28.9	24.6	3398	111.9	155.7	174	10.0	1.131	0.0505	42.1	2792	4715	8.3%	88.9%	2.8%
Car	Front Wheel Drive	2007	6506	0.805	32.0	21.3	29.6	25.3	3397	111.2	151.5	171	10.0	1.141	0.0498	43.5	2876	4846	7.1%	80.4%	12.5%
Car	Front Wheel Drive	2008	5689	0.777	32.4	21.5	30.0	25.6	3404	110.9	150.5	173	10.0	1.157	0.0501	44.1	2907	4903	6.9%	78.3%	14.7%
Car	Front Wheel Drive	2009	4655	0.826	33.8	22.4	30.9	26.5	3364	111.0	142.6	167	10.1	1.174	0.0489	45.0	2993	5002	6.2%	80.7%	13.1%
Car	Front Wheel Drive	2010	4940	0.816	35.4	23.5	32.0	27.7	3351	111.2	140.2	165	10.0	1.181	0.0489	47.6	3173	5303	4.4%	76.2%	17.3%
Car	Front Wheel Drive	2011	4482	0.782	34.9	23.0	32.4	27.6	3430	112.5	143.6	174	9.9	1.223	0.0502	48.0	3165	5405	4.2%	80.8%	14.6%
Car	Front Wheel Drive	2012	6212	0.842	37.0	24.3	33.8	29.0	3345	111.4	136.4	169	9.9	1.247	0.0502	49.2	3297	5493	4.9%	87.7%	16.2%
Car	Front Wheel Drive	2013	6163	0.797	38.0	25.0	34.6	29.7	3379		134.1	173	9.8	1.299	0.0507	51.3			6.8%	83.7%	21.1%

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsize	Large
Car	Front Wheel Drive	1975		17.6%						87.4%	8.3%	4.3%
Car	Front Wheel Drive	1976		18.9%						86.9%	8.8%	4.4%
Car	Front Wheel Drive	1977		31.3%		2.8%				89.5%	6.1%	4.4%
Car	Front Wheel Drive	1978		31.0%		3.6%				93.6%	4.2%	2.2%
Car	Front Wheel Drive	1979		19.6%		5.6%				87.0%	13.0%	
Car	Front Wheel Drive	1980		9.5%	1.6%	6.8%				67.8%	32.2%	
Car	Front Wheel Drive	1981		5.4%	1.8%	5.4%				68.1%	31.9%	
Car	Front Wheel Drive	1982		5.0%	13.9%	2.7%				71.0%	29.0%	
Car	Front Wheel Drive	1983		5.8%	25.1%	1.3%				68.3%	31.7%	
Car	Front Wheel Drive	1984		8.6%	27.9%	1.6%				69.0%	31.0%	
Car	Front Wheel Drive	1985		21.0%	33.5%	0.7%				63.3%	29.4%	7.2%
Car	Front Wheel Drive	1986		33.1%	34.2%	0.3%	5.7%			62.5%	28.5%	9.1%
Car	Front Wheel Drive	1987		38.0%	36.7%	0.0%	17.9%			66.3%	24.7%	9.0%
Car	Front Wheel Drive	1988		48.5%	35.1%		23.1%			67.5%	23.8%	8.7%
Car	Front Wheel Drive	1989		58.0%	31.4%	0.0%	26.9%			61.0%	29.3%	9.7%
Car	Front Wheel Drive	1990		75.2%	23.6%	0.0%	34.4%			61.1%	28.8%	10.1%
Car	Front Wheel Drive	1991		77.5%	22.3%	0.1%	35.4%	1.9%		64.1%	27.3%	8.5%
Car	Front Wheel Drive	1992		90.3%	9.7%	0.0%	34.5%	3.4%		61.6%	27.3%	11.1%
Car	Front Wheel Drive	1993		91.9%	8.1%		37.9%	3.8%		60.4%	29.7%	9.9%
Car	Front Wheel Drive	1994		93.9%	6.1%		43.8%	7.7%		61.3%	26.3%	12.4%
Car	Front Wheel Drive	1995		98.6%	1.4%		53.7%	9.9%		60.4%	27.5%	12.1%
Car	Front Wheel Drive	1996		98.7%	1.3%	0.1%	61.1%	11.6%		56.2%	33.3%	10.6%
Car	Front Wheel Drive	1997		99.0%	0.9%	0.0%	60.8%	9.7%		56.9%	31.1%	12.0%
Car	Front Wheel Drive	1998		99.7%	0.2%	0.2%	62.7%	17.3%		48.8%	41.4%	9.8%
Car	Front Wheel Drive	1999		99.8%	0.1%	0.1%	66.3%	15.9%		47.4%	42.1%	10.5%
Car	Front Wheel Drive	2000		99.7%		0.3%	66.5%	22.5%	0.1%	46.5%	36.1%	17.4%
Car	Front Wheel Drive	2001		99.7%		0.3%	67.3%	26.6%	0.0%	50.1%	34.0%	15.9%
Car	Front Wheel Drive	2002		99.5%		0.5%	69.7%	33.7%	0.4%	45.7%	38.9%	15.4%
Car	Front Wheel Drive	2003		99.5%		0.5%	73.8%	41.9%	0.7%	48.7%	36.3%	15.0%
Car	Front Wheel Drive	2004		99.6%		0.4%	78.2%	43.9%	1.2%	45.3%	39.0%	15.7%
Car	Front Wheel Drive	2005		99.5%		0.5%	78.7%	54.1%	2.6%	43.7%	41.9%	14.3%
Car	Front Wheel Drive	2006		99.3%		0.7%	81.3%	62.3%	2.0%	46.4%	36.3%	17.2%
Car	Front Wheel Drive	2007	0.3%	99.7%			85.5%	67.7%	4.2%	43.4%	43.2%	13.3%
Car	Front Wheel Drive	2008	2.0%	98.0%			88.4%	66.9%	4.3%	44.0%	37.9%	18.1%
Car	Front Wheel Drive	2009	1.8%	97.4%		0.8%	93.2%	82.8%	3.6%	45.9%	38.0%	16.1%
Car	Front Wheel Drive	2010	3.1%	95.7%		1.2%	95.4%	94.4%	7.5%	47.5%	40.6%	11.9%
Car	Front Wheel Drive	2011	12.3%	86.5%		1.2%	94.7%	95.5%	5.2%	32.9%	48.4%	18.7%
Car	Front Wheel Drive	2012	22.2%	76.5%		1.4%	99.3%	97.9%	6.3%			
Car	Front Wheel Drive	2013	31.7%	66.4%		1.8%	99.3%	97.9%	8.8%			

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
Car	Rear Wheel Drive	1975	7698	0.935	15.4	12.0	14.8	13.2	4146		298.2	140	14.1	0.502	0.0333	27.5			16.5%	0.1%	
Car	Rear Wheel Drive	1976	9161	0.942	17.2	13.5	16.3	14.6	4133		294.1	136	14.4	0.491	0.0325	30.3			14.5%		
Car	Rear Wheel Drive	1977	10526	0.932	17.9	14.1	17.0	15.3	4034	111.6	289.2	137	13.9	0.504	0.0336	31.0	1744	3464	13.0%		
Car	Rear Wheel Drive	1978	10100	0.904	19.4	15.1	18.6	16.5	3694	110.6	264.4	129	13.6	0.522	0.0345	30.6	1865	3399	14.9%	7.4%	
Car	Rear Wheel Drive	1979	9474	0.878	19.6	15.4	18.6	16.7	3604	110.8	252.7	124	13.7	0.527	0.0342	30.2	1882	3366	15.9%	9.2%	
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	3359	24.4%	23.4%	
Car	Rear Wheel Drive	1981	5436	0.622	23.5	18.3	22.6	20.0	3333	108.6	211.1	107	14.4	0.548	0.0320	33.5	2203	3670	20.3%	53.3%	
Car	Rear Wheel Drive	1982	4188	0.536	23.3	18.0	22.8	19.9	3384	109.9	216.2	112	14.1	0.553	0.0330	33.9	2217	3762	19.5%	68.0%	
Car	Rear Wheel Drive	1983	3973	0.496	22.5	17.2	22.4	19.2	3547	113.6	235.9	123	13.6	0.549	0.0346	34.3	2200	3916	14.3%	76.4%	
Car	Rear Wheel Drive	1984	4831	0.453	23.1	17.6	23.1	19.7	3514	110.1	233.9	125	13.3	0.569	0.0356	34.9	2190	3857	16.1%	77.7%	
Car	Rear Wheel Drive	1985	3918	0.363	23.5	17.9	23.6	20.1	3576	110.6	239.7	135	12.7	0.600	0.0378	36.0	2226	4010	15.1%	77.0%	
Car	Rear Wheel Drive	1986	3068	0.279	23.8	18.0	24.0	20.3	3547	107.7	239.2	139	12.3	0.625	0.0393	36.0	2191	3919	17.0%	74.4%	
Car	Rear Wheel Drive	1987	2347	0.219	23.5	17.6	23.9	20.0	3608	107.7	241.5	147	12.0	0.660	0.0409	36.2	2163	3936	18.3%	73.0%	
Car	Rear Wheel Drive	1988	1879	0.175	23.5	17.4	23.9	19.9	3689	110.8	248.5	157	11.6	0.675	0.0428	36.9	2221	4141	16.1%	76.2%	
Car	Rear Wheel Drive	1989	1654	0.165	23.6	17.4	24.0	20.0	3708	111.7	243.9	153	11.9	0.675	0.0415	37.1	2241	4199	14.9%	75.9%	
Car	Rear Wheel Drive	1990	1268	0.144	23.6	17.3	23.7	19.9	3724	108.5	234.9	159	11.7	0.732	0.0429	37.1	2160	4080	17.5%	73.4%	
Car	Rear Wheel Drive	1991	1310	0.154	24.0	17.4	24.3	20.2	3726	109.3	240.3	177	10.7	0.783	0.0475	37.7	2208	4177	15.8%	75.3%	
Car	Rear Wheel Drive	1992	1467	0.181	24.6	17.8	24.6	20.6	3760	113.6	227.8	179	10.7	0.834	0.0475	38.7	2346	4452	10.6%	83.1%	
Car	Rear Wheel Drive	1993	1162	0.137	24.3	17.3	24.5	20.3	3814	113.1	242.6	189	10.5	0.817	0.0497	38.7	2298	4430	11.4%	81.8%	
Car	Rear Wheel Drive	1994	1274	0.151	24.0	17.0	24.3	20.0	3841	111.3	252.2	198	10.0	0.819	0.0516	38.5	2233	4330	12.6%	82.0%	
Car	Rear Wheel Drive	1995	1585	0.169	24.6	17.3	24.8	20.5	3784	109.0	230.5	194	10.1	0.884	0.0510	38.8	2239	4259	12.9%	80.5%	
Car	Rear Wheel Drive	1996	943	0.119	24.3	16.9	24.7	20.2	3862	110.5	256.7	207	9.7	0.828	0.0535	39.0	2226	4350	14.9%	79.6%	
Car	Rear Wheel Drive	1997	977	0.117	24.3	16.8	24.5	20.1	3827	109.6	244.6	210	9.5	0.882	0.0547	38.6	2204	4256	13.9%	85.9%	
Car	Rear Wheel Drive	1998	855	0.107	24.5	16.9	24.4	20.2	3771	104.0	242.2	218	9.1	0.924	0.0577	38.3	2107	4003	15.7%	84.0%	
Car	Rear Wheel Drive	1999	887	0.106	24.5	16.8	24.3	20.1	3798	105.7	241.7	226	8.8	0.969	0.0596	38.3	2129	4079	16.0%	83.3%	
Car	Rear Wheel Drive	2000	1185	0.130	25.0	17.1	24.5	20.4	3699	103.5	229.2	228	8.7	1.020	0.0610	37.8	2128	3954	18.3%	79.3%	
Car	Rear Wheel Drive	2001	1062	0.126	24.8	16.9	24.3	20.3	3716	101.4	228.0	226	8.7	1.031	0.0609	37.7	2065	3867	16.8%	82.7%	
Car	Rear Wheel Drive	2002	933	0.112	24.5	16.6	23.8	19.9	3783	98.6	233.7	237	8.5	1.049	0.0628	37.7	1964	3752	18.3%	81.2%	
Car	Rear Wheel Drive	2003	1151	0.145	24.5	16.5	23.7	19.9	3872	100.8	230.3	245	8.4	1.095	0.0636	38.5	2006	3944	15.5%	84.5%	
Car	Rear Wheel Drive	2004	1035	0.137	24.3	16.2	23.8	19.7	3863	100.6	231.0	246	8.4	1.101	0.0641	38.2	1991	3897	17.2%	82.6%	
Car	Rear Wheel Drive	2005	1163	0.145	24.4	16.2	23.5	19.7	3955	104.7	236.1	258	8.3	1.142	0.0654	39.0	2068	4147	13.1%	86.6%	
Car	Rear Wheel Drive	2006	1475	0.185	24.8	16.4	23.9	20.0	3950	107.1	235.3	265	8.1	1.155	0.0671	39.7	2156	4302	12.5%	87.2%	
Car	Rear Wheel Drive	2007	1113	0.138	24.7	16.3	24.0	19.9	3952	102.1	237.7	275	7.9	1.193	0.0697	39.6	2044	4085	14.1%	85.8%	
Car	Rear Wheel Drive	2008	1095	0.150	25.2	16.7	24.4	20.3	3957	103.1	230.0	273	8.0	1.217	0.0687	40.4	2105	4209	11.8%	86.0%	
Car	Rear Wheel Drive	2009	603	0.107	25.5	16.8	24.7	20.6	3954	102.3	234.4	282	7.9	1.234	0.0710	40.9	2120	4224	10.1%	86.7%	
Car	Rear Wheel Drive	2010	755	0.125	25.7	16.9	25.1	20.8	4004	105.4	243.8	292	7.7	1.221	0.0729	41.8	2201	4428	13.0%	85.8%	0.0%
Car	Rear Wheel Drive	2011	766	0.134	26.5	17.4	26.1	21.5	4020	104.5	237.1	307	7.3	1.320	0.0764	43.4	2266	4572	10.6%	87.1%	0.1%
Car	Rear Wheel Drive	2012	708	0.096	27.8	18.1	27.3	22.4	4013	104.7	229.3	318	7.2	1.433	0.0788	45.3	2377	4782	10.7%	86.7%	
Car	Rear Wheel Drive	2013	951	0.123	28.2	18.4	27.7	22.7	3969	103.4	220.3	316	7.2	1.496	0.0792	45.5	2386	4744	14.9%	82.3%	0.2%

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsize	Large
Car	Rear Wheel Drive	1975		4.3%		0.3%				53.2%	24.4%	22.4%
Car	Rear Wheel Drive	1976		2.2%		0.3%				53.5%	26.2%	20.3%
Car	Rear Wheel Drive	1977		2.2%		0.3%				49.2%	25.9%	24.9%
Car	Rear Wheel Drive	1978		2.3%		0.6%				39.5%	37.6%	23.0%
Car	Rear Wheel Drive	1979		2.7%		1.6%				37.6%	37.2%	25.2%
Car	Rear Wheel Drive	1980		4.9%	0.3%	3.5%				48.0%	35.7%	16.2%
Car	Rear Wheel Drive	1981		6.6%	3.1%	6.3%				41.0%	39.4%	19.6%
Car	Rear Wheel Drive	1982		9.2%	6.4%	6.4%				43.6%	33.1%	23.4%
Car	Rear Wheel Drive	1983		13.5%	14.1%	2.9%				35.7%	33.9%	30.4%
Car	Rear Wheel Drive	1984		22.8%	20.8%	1.8%				42.7%	28.0%	29.2%
Car	Rear Wheel Drive	1985		22.9%	31.3%	1.3%				40.8%	29.2%	30.0%
Car	Rear Wheel Drive	1986		46.0%	14.9%	0.3%	2.5%			50.6%	27.2%	22.1%
Car	Rear Wheel Drive	1987		58.9%	9.8%	1.0%	4.0%			52.0%	24.0%	24.1%
Car	Rear Wheel Drive	1988		78.8%	5.3%	0.0%	4.5%			51.1%	16.2%	32.7%
Car	Rear Wheel Drive	1989		83.3%	10.7%	0.0%	10.8%			43.4%	23.1%	33.5%
Car	Rear Wheel Drive	1990		90.5%	6.8%	0.2%	22.1%	4.2%		41.1%	29.8%	29.1%
Car	Rear Wheel Drive	1991		79.5%	20.1%	0.5%	22.4%	5.6%		44.0%	22.4%	33.7%
Car	Rear Wheel Drive	1992		85.7%	14.0%	0.3%	35.5%	10.2%		31.3%	31.8%	36.9%
Car	Rear Wheel Drive	1993		89.4%	10.6%		24.8%	11.3%		34.4%	30.5%	35.1%
Car	Rear Wheel Drive	1994		99.9%		0.1%	26.2%	10.3%		42.1%	25.8%	32.1%
Car	Rear Wheel Drive	1995		99.6%		0.4%	41.7%	10.2%		42.5%	33.2%	24.3%
Car	Rear Wheel Drive	1996		99.7%		0.3%	26.1%	13.2%		42.3%	20.3%	37.4%
Car	Rear Wheel Drive	1997		99.7%		0.3%	38.2%	24.7%		43.4%	22.9%	33.8%
Car	Rear Wheel Drive	1998		99.6%		0.4%	42.8%	27.5%		57.1%	15.4%	27.5%
Car	Rear Wheel Drive	1999		99.5%		0.5%	44.0%	25.8%		52.1%	15.1%	32.8%
Car	Rear Wheel Drive	2000		99.6%	0.4%		50.9%	29.0%		56.3%	16.9%	26.8%
Car	Rear Wheel Drive	2001		100.0%			58.3%	38.7%		58.9%	13.8%	27.3%
Car	Rear Wheel Drive	2002		100.0%			61.3%	36.5%		67.1%	15.1%	17.8%
Car	Rear Wheel Drive	2003		100.0%			67.7%	39.0%		58.5%	16.7%	24.8%
Car	Rear Wheel Drive	2004		100.0%			62.9%	46.9%		57.3%	18.0%	24.8%
Car	Rear Wheel Drive	2005		99.4%		0.6%	67.6%	43.2%		47.7%	22.9%	29.3%
Car	Rear Wheel Drive	2006		99.6%		0.4%	74.1%	53.8%		46.6%	17.8%	35.6%
Car	Rear Wheel Drive	2007	0.4%	99.4%		0.2%	75.1%	55.3%	0.3%	51.2%	21.4%	27.4%
Car	Rear Wheel Drive	2008	5.7%	94.0%		0.3%	79.0%	54.5%	0.1%	48.5%	20.0%	31.5%
Car	Rear Wheel Drive	2009	12.7%	86.9%		0.4%	77.9%	65.9%	0.1%	54.2%	15.9%	29.9%
Car	Rear Wheel Drive	2010	18.5%	81.2%		0.2%	73.1%	61.6%	0.2%	58.8%	14.3%	26.9%
Car	Rear Wheel Drive	2011	27.9%	70.7%		1.4%	83.0%	81.4%	0.2%	60.9%	17.9%	21.2%
Car	Rear Wheel Drive	2012	45.4%	54.3%		0.3%	88.3%	94.7%	0.2%			
Car	Rear Wheel Drive	2013	49.9%	50.0%		0.2%	88.9%	94.9%	0.7%			

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
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	2950	100.0%		
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	2819	53.5%		
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	3117	73.3%	26.7%	
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	3439	67.5%	32.5%	
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	3586	55.8%	14.5%	
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	3672	59.2%	35.4%	
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	4181	54.0%	36.7%	
Car	Four Wheel Drive	1986	116	0.011	26.9	21.1	25.3	22.8	2929	113.2	120.2	92	14.5	0.789	0.0312	33.5	2618	3793	72.4%	0.0%	
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	3821	69.7%	0.5%	
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	3754	76.8%	6.2%	
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	3291	60.9%	15.4%	
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	4212	45.8%	45.1%	2.4%
Car	Four Wheel Drive	1991	118	0.014	26.6	19.9	25.2	22.2	3289	109.5	129.9	145	11.6	1.104	0.0433	36.5	2456	4008	42.4%	45.0%	3.1%
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	4104	49.3%	38.0%	0.1%
Car	Four Wheel Drive	1993	100	0.012	28.0	20.7	26.3	23.2	3217	111.2	127.5	130	12.1	1.008	0.0400	37.2	2587	4156	32.6%	63.9%	0.8%
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	4385	36.5%	61.6%	
Car	Four Wheel Drive	1995	109	0.012	27.7	20.0	26.3	22.8	3310	115.4	135.2	143	11.3	1.056	0.0430	37.7	2640	4361	30.7%	69.3%	
Car	Four Wheel Drive	1996	118	0.015	26.7	19.1	25.4	21.9	3397	118.6	145.4	153	11.0	1.045	0.0449	37.3	2624	4451	32.5%	67.5%	
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	4549	27.9%	72.1%	
Car	Four Wheel Drive	1998	179	0.023	26.5	18.7	25.2	21.6	3526	120.8	149.1	169	10.4	1.136	0.0479	38.2	2627	4621	24.3%	75.7%	
Car	Four Wheel Drive	1999	186	0.022	26.2	18.2	25.2	21.4	3558	119.8	149.2	172	10.3	1.152	0.0481	38.1	2577	4576	22.7%	77.1%	
Car	Four Wheel Drive	2000	190	0.021	26.3	18.4	24.7	21.3	3603	119.0	152.7	181	10.0	1.191	0.0501	38.4	2555	4588	25.4%	74.4%	
Car	Four Wheel Drive	2001	273	0.032	25.2	17.5	23.8	20.5	3831	115.2	156.9	200	9.8	1.292	0.0523	39.4	2375	4565	27.7%	71.9%	
Car	Four Wheel Drive	2002	318	0.038	25.8	17.7	24.4	20.8	3828	112.8	155.3	201	9.7	1.320	0.0528	39.9	2362	4531	27.5%	72.2%	
Car	Four Wheel Drive	2003	276	0.035	26.2	17.8	24.7	21.1	3801	113.4	153.7	194	10.0	1.272	0.0509	40.2	2416	4580	18.9%	81.1%	
Car	Four Wheel Drive	2004	410	0.054	24.8	16.8	23.4	19.9	4010	117.8	173.9	219	9.6	1.278	0.0545	40.0	2359	4766	17.2%	82.7%	
Car	Four Wheel Drive	2005	462	0.058	25.0	16.8	23.4	20.1	3966	121.0	177.5	226	9.2	1.294	0.0568	39.8	2444	4845	14.2%	78.8%	7.0%
Car	Four Wheel Drive	2006	461	0.058	25.4	17.1	23.7	20.3	3994	120.0	182.6	235	9.0	1.309	0.0586	40.6	2455	4890	13.3%	81.5%	5.2%
Car	Four Wheel Drive	2007	463	0.057	25.6	17.1	24.0	20.5	3992	114.9	186.1	240	8.9	1.294	0.0597	41.0	2368	4721	13.7%	80.3%	6.0%
Car	Four Wheel Drive	2008	535	0.073	25.9	17.3	24.3	20.7	3956	113.4	185.4	243	8.7	1.314	0.0608	41.1	2370	4663	11.3%	88.1%	0.6%
Car	Four Wheel Drive	2009	378	0.067	26.7	17.9	24.9	21.3	3919	110.5	179.8	237	8.9	1.322	0.0599	41.8	2373	4623	9.0%	90.7%	
Car	Four Wheel Drive	2010	359	0.059	26.7	17.8	25.0	21.3	4059	110.8	189.4	257	8.5	1.368	0.0627	43.4	2388	4819	7.2%	81.4%	10.1%
Car	Four Wheel Drive	2011	480	0.084	27.5	18.4	26.0	22.1	4028	108.7	183.0	254	8.5	1.413	0.0625	44.7	2427	4863	8.5%	75.8%	15.4%
Car	Four Wheel Drive	2012	458	0.062	29.3	19.5	27.5	23.4	3969	110.2	175.0	255	8.7	1.472	0.0632	46.9	2639	5178	7.4%	91.9%	26.0%
Car	Four Wheel Drive	2013	616	0.080	29.4	19.5	27.8	23.5	4042	110.5	178.9	271	8.3	1.547	0.0661	47.9	2646	5303	5.9%	93.8%	18.4%

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsize	Large
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		1.0%						100.0%		
Car	Four Wheel Drive	1984		7.8%						100.0%		
Car	Four Wheel Drive	1985		9.8%						93.1%	6.9%	
Car	Four Wheel Drive	1986		34.7%						90.3%	9.7%	
Car	Four Wheel Drive	1987		27.6%	6.8%		5.1%			94.9%	5.1%	
Car	Four Wheel Drive	1988		35.2%	44.3%		24.8%			95.3%	4.7%	
Car	Four Wheel Drive	1989		78.1%	21.0%		41.8%			77.1%	22.9%	
Car	Four Wheel Drive	1990		82.1%	17.9%		71.4%			95.0%	5.0%	
Car	Four Wheel Drive	1991		87.5%	12.5%		84.9%			97.3%	2.7%	
Car	Four Wheel Drive	1992		100.0%			62.3%			97.7%	2.3%	
Car	Four Wheel Drive	1993		93.4%	6.6%		85.4%			93.8%	6.2%	
Car	Four Wheel Drive	1994		100.0%			16.7%			98.4%	1.6%	
Car	Four Wheel Drive	1995		100.0%			94.2%			55.1%	44.9%	
Car	Four Wheel Drive	1996		100.0%			84.6%	2.4%		44.4%	55.6%	
Car	Four Wheel Drive	1997		100.0%			88.7%	1.4%		45.3%	54.7%	
Car	Four Wheel Drive	1998		100.0%			98.8%	17.9%		36.7%	63.3%	
Car	Four Wheel Drive	1999		100.0%			98.8%	22.7%		36.7%	63.3%	
Car	Four Wheel Drive	2000		100.0%			100.0%	23.7%		32.0%	67.6%	0.3%
Car	Four Wheel Drive	2001		100.0%			100.0%	32.9%		39.9%	59.4%	0.7%
Car	Four Wheel Drive	2002		100.0%			100.0%	30.3%		59.5%	40.3%	0.2%
Car	Four Wheel Drive	2003		100.0%			100.0%	36.6%		60.6%	38.2%	1.1%
Car	Four Wheel Drive	2004		100.0%			100.0%	40.8%		54.7%	28.6%	16.7%
Car	Four Wheel Drive	2005		100.0%			98.7%	39.1%		42.3%	37.4%	20.4%
Car	Four Wheel Drive	2006		100.0%			96.4%	59.6%		41.0%	36.8%	22.2%
Car	Four Wheel Drive	2007		99.7%		0.3%	98.9%	53.4%		44.5%	39.3%	16.2%
Car	Four Wheel Drive	2008	10.7%	89.1%		0.2%	99.8%	46.6%	0.4%	44.1%	45.5%	10.5%
Car	Four Wheel Drive	2009	24.9%	75.0%		0.1%	99.6%	63.1%	0.1%	57.7%	34.5%	7.8%
Car	Four Wheel Drive	2010	29.6%	70.4%			99.4%	98.4%	0.0%	45.3%	43.1%	11.7%
Car	Four Wheel Drive	2011	37.3%	62.7%			99.0%	98.7%	0.0%	55.0%	36.7%	8.3%
Car	Four Wheel Drive	2012	45.4%	54.4%		0.2%	99.1%	98.1%	0.0%			
Car	Four Wheel Drive	2013	56.4%	43.5%		0.0%	98.6%	100.0%	0.0%			

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
Car SUV	Front Wheel Drive	1975																			
Car SUV	Front Wheel Drive	1976																			
Car SUV	Front Wheel Drive	1977																			
Car SUV	Front Wheel Drive	1978																			
Car SUV	Front Wheel Drive	1979																			
Car SUV	Front Wheel Drive	1980																			
Car SUV	Front Wheel Drive	1981																			
Car SUV	Front Wheel Drive	1982																			
Car SUV	Front Wheel Drive	1983																			
Car SUV	Front Wheel Drive	1984																			
Car SUV	Front Wheel Drive	1985																			
Car SUV	Front Wheel Drive	1986																			
Car SUV	Front Wheel Drive	1987																			
Car SUV	Front Wheel Drive	1988																			
Car SUV	Front Wheel Drive	1989																			
Car SUV	Front Wheel Drive	1990																			
Car SUV	Front Wheel Drive	1991																			
Car SUV	Front Wheel Drive	1992																			
Car SUV	Front Wheel Drive	1993																			
Car SUV	Front Wheel Drive	1994	9	0.026	20.4	15.5	18.4	16.8	4000		183.3	161	12.0	0.871	0.0401	33.7			54.8%	45.2%	
Car SUV	Front Wheel Drive	1995	0	0.001	25.6	18.8	23.5	21.0	3500		122.0	94	16.0	0.770	0.0269	36.7			100.0%		
Car SUV	Front Wheel Drive	1996	18	0.063	30.6	22.4	27.9	24.9	2947		122.0	120	11.7	0.984	0.0408	36.8			23.2%	76.8%	
Car SUV	Front Wheel Drive	1997	73	0.203	28.7	21.0	25.7	23.2	3015		122.0	120	11.9	0.984	0.0399	35.1			28.5%	71.5%	
Car SUV	Front Wheel Drive	1998	47	0.103	29.1	21.2	25.8	23.4	3204		121.2	125	12.1	1.035	0.0394	37.5			13.0%	87.0%	
Car SUV	Front Wheel Drive	1999	75	0.154	27.5	19.9	24.4	22.1	3466		139.5	161	10.8	1.148	0.0459	38.2			5.8%	94.2%	
Car SUV	Front Wheel Drive	2000	79	0.127	26.8	19.3	23.8	21.5	3561		145.3	170	10.6	1.163	0.0471	38.2			3.2%	96.8%	
Car SUV	Front Wheel Drive	2001	276	0.371	25.8	17.9	24.0	20.8	3632		167.1	180	10.2	1.093	0.0496	37.8			6.3%	93.7%	
Car SUV	Front Wheel Drive	2002	335	0.555	26.5	18.3	24.5	21.3	3597		163.4	176	10.2	1.088	0.0491	38.3			7.2%	92.5%	0.3%
Car SUV	Front Wheel Drive	2003	379	0.659	26.7	18.4	24.5	21.3	3574		162.4	174	10.3	1.073	0.0486	38.2			8.1%	79.0%	12.9%
Car SUV	Front Wheel Drive	2004	466	0.729	26.2	17.8	24.2	20.9	3762		181.2	191	10.0	1.059	0.0509	39.4			5.9%	85.5%	8.6%
Car SUV	Front Wheel Drive	2005	602	0.740	26.4	18.0	23.8	20.9	3734		175.7	185	10.1	1.058	0.0495	39.1			4.4%	89.5%	6.0%
Car SUV	Front Wheel Drive	2006	584	0.777	26.7	18.2	24.2	21.2	3777		175.0	184	10.3	1.058	0.0486	40.2			3.2%	90.1%	6.7%
Car SUV	Front Wheel Drive	2007	785	0.854	26.5	18.0	24.2	21.1	3879		178.5	204	9.8	1.145	0.0522	41.0			1.4%	94.0%	4.6%
Car SUV	Front Wheel Drive	2008	804	0.870	27.3	18.5	24.8	21.6	3836		172.8	198	9.8	1.147	0.0514	41.7			0.8%	92.7%	6.5%
Car SUV	Front Wheel Drive	2009	561	0.922	28.3	19.2	25.6	22.4	3800		171.6	203	9.6	1.178	0.0532	42.7			0.6%	84.7%	14.7%
Car SUV	Front Wheel Drive	2010	809	0.884	29.5	19.9	26.8	23.3	3900		170.5	211	9.5	1.231	0.0538	45.7			0.2%	90.4%	9.4%
Car SUV	Front Wheel Drive	2011	1071	0.888	30.5	20.4	27.9	24.1	3847		165.0	205	9.7	1.234	0.0529	46.5			0.6%	90.4%	9.0%
Car SUV	Front Wheel Drive	2012	1036	0.817	30.7	20.5	27.9	24.2	3851		163.4	206	9.7	1.260	0.0533	46.8			0.5%	98.2%	13.6%
Car SUV	Front Wheel Drive	2013	1314	0.861	31.8	21.1	29.0	24.9	3911		156.6	207	9.8	1.344	0.0526	49.0			0.6%	99.1%	10.0%

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsized	Large
Car SUV	Front Wheel Drive	1975										
Car SUV	Front Wheel Drive	1976										
Car SUV	Front Wheel Drive	1977										
Car SUV	Front Wheel Drive	1978										
Car SUV	Front Wheel Drive	1979										
Car SUV	Front Wheel Drive	1980										
Car SUV	Front Wheel Drive	1981										
Car SUV	Front Wheel Drive	1982										
Car SUV	Front Wheel Drive	1983										
Car SUV	Front Wheel Drive	1984										
Car SUV	Front Wheel Drive	1985										
Car SUV	Front Wheel Drive	1986										
Car SUV	Front Wheel Drive	1987										
Car SUV	Front Wheel Drive	1988										
Car SUV	Front Wheel Drive	1989										
Car SUV	Front Wheel Drive	1990										
Car SUV	Front Wheel Drive	1991										
Car SUV	Front Wheel Drive	1992										
Car SUV	Front Wheel Drive	1993										
Car SUV	Front Wheel Drive	1994		100.0%			73.8%				100.0%	
Car SUV	Front Wheel Drive	1995		100.0%							100.0%	
Car SUV	Front Wheel Drive	1996		100.0%			100.0%			100.0%		
Car SUV	Front Wheel Drive	1997		100.0%			100.0%			100.0%		
Car SUV	Front Wheel Drive	1998		100.0%			100.0%			59.1%	40.9%	
Car SUV	Front Wheel Drive	1999		100.0%			100.0%	29.7%		36.5%	63.5%	
Car SUV	Front Wheel Drive	2000		100.0%			100.0%	39.4%		27.2%	72.8%	
Car SUV	Front Wheel Drive	2001		100.0%			81.2%	27.0%		14.7%	85.3%	
Car SUV	Front Wheel Drive	2002		100.0%			78.7%	32.9%		21.4%	67.2%	11.4%
Car SUV	Front Wheel Drive	2003		100.0%			90.5%	28.2%		14.2%	79.6%	6.2%
Car SUV	Front Wheel Drive	2004		100.0%			87.2%	43.5%		8.5%	81.9%	9.6%
Car SUV	Front Wheel Drive	2005		100.0%			79.8%	27.0%	0.7%	6.7%	68.7%	24.6%
Car SUV	Front Wheel Drive	2006		100.0%			88.5%	32.6%	1.4%		70.6%	29.4%
Car SUV	Front Wheel Drive	2007		100.0%			86.8%	47.3%	1.9%		67.6%	32.4%
Car SUV	Front Wheel Drive	2008	2.5%	97.5%			91.9%	54.3%	2.7%		76.6%	23.4%
Car SUV	Front Wheel Drive	2009	1.4%	98.6%			95.7%	75.1%	2.9%		79.0%	21.0%
Car SUV	Front Wheel Drive	2010	19.9%	80.1%			100.0%	99.9%	1.5%		63.9%	36.1%
Car SUV	Front Wheel Drive	2011	20.8%	79.2%			100.0%	99.8%	0.6%		67.2%	32.8%
Car SUV	Front Wheel Drive	2012	33.6%	66.4%			100.0%	100.0%	0.5%			
Car SUV	Front Wheel Drive	2013	42.7%	57.3%			100.0%	99.4%	0.4%			

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
Car SUV	Rear Wheel Drive	1975	10	1.000	13.1	10.1	12.6	11.1	4000		261.6	113	15.6	0.430	0.0282	22.6			68.3%		
Car SUV	Rear Wheel Drive	1976	11	1.000	12.4	9.4	12.5	10.6	3986		263.3	123	14.6	0.467	0.0309	22.1			69.1%		
Car SUV	Rear Wheel Drive	1977	19	1.000	14.3	11.2	13.6	12.2	4000		261.0	124	14.4	0.477	0.0311	25.1			82.5%		
Car SUV	Rear Wheel Drive	1978	16	1.000	13.6	10.4	13.5	11.6	4000		262.3	126	14.2	0.481	0.0315	23.8			84.2%		
Car SUV	Rear Wheel Drive	1979	16	1.000	16.8	13.9	14.8	14.3	3271		185.1	99	14.9	0.576	0.0300	23.6			37.7%	3.9%	
Car SUV	Rear Wheel Drive	1980	0	1.000	17.2	13.9	15.5	14.6	4000		280.2	122	15.1	0.436	0.0305	29.4			3.9%	86.8%	
Car SUV	Rear Wheel Drive	1981	0	1.000	17.3	13.7	16.1	14.7	4000		318.0	140	13.3	0.440	0.0350	29.4				100.0%	
Car SUV	Rear Wheel Drive	1982	13	1.000	23.4	20.2	19.3	19.8	2630		158.6	88	13.7	0.557	0.0335	26.0			4.6%	8.9%	
Car SUV	Rear Wheel Drive	1983	34	1.000	24.3	19.5	22.4	20.7	3124		163.0	101	14.1	0.617	0.0325	32.7			19.3%	43.2%	
Car SUV	Rear Wheel Drive	1984	55	1.000	22.6	17.5	22.1	19.3	3487		179.5	109	14.5	0.615	0.0313	33.9			19.4%	64.8%	
Car SUV	Rear Wheel Drive	1985	88	1.000	23.5	17.6	24.2	20.1	3469		170.9	109	14.4	0.637	0.0314	34.9			15.9%	84.1%	
Car SUV	Rear Wheel Drive	1986	59	1.000	22.3	17.1	21.7	18.9	3479		169.8	121	13.3	0.713	0.0348	33.0			18.1%	81.9%	
Car SUV	Rear Wheel Drive	1987	95	1.000	22.9	17.1	23.1	19.4	3492		178.9	131	12.7	0.730	0.0374	34.0			14.3%	85.7%	
Car SUV	Rear Wheel Drive	1988	109	1.000	22.7	17.1	22.5	19.2	3495		199.2	142	11.9	0.719	0.0405	33.7			24.6%	75.4%	
Car SUV	Rear Wheel Drive	1989	108	1.000	22.7	17.1	22.1	19.1	3497		226.0	148	11.4	0.668	0.0422	33.5			27.4%	72.6%	
Car SUV	Rear Wheel Drive	1990	65	1.000	22.5	16.9	21.5	18.8	3518		208.7	146	11.7	0.714	0.0415	33.2			35.1%	63.0%	
Car SUV	Rear Wheel Drive	1991	224	1.000	21.8	16.4	20.5	18.2	3733		214.9	145	12.6	0.680	0.0385	34.0			22.2%	77.7%	
Car SUV	Rear Wheel Drive	1992	243	1.000	21.4	16.1	20.1	17.8	3713		209.9	153	12.0	0.734	0.0409	33.2			24.6%	75.4%	
Car SUV	Rear Wheel Drive	1993	473	1.000	20.4	15.0	19.6	17.0	3848		238.3	179	10.8	0.757	0.0462	32.9			10.9%	89.1%	
Car SUV	Rear Wheel Drive	1994	323	0.974	21.8	16.1	20.5	18.1	3728		209.5	163	11.3	0.789	0.0434	33.6			20.6%	71.6%	
Car SUV	Rear Wheel Drive	1995	220	0.999	21.5	15.7	20.5	17.8	3764		214.1	165	11.3	0.783	0.0436	33.6			17.3%	82.7%	
Car SUV	Rear Wheel Drive	1996	269	0.937	22.0	15.9	20.8	18.1	3761		221.2	170	10.9	0.790	0.0451	34.1			14.9%	85.1%	
Car SUV	Rear Wheel Drive	1997	287	0.797	22.5	16.3	20.9	18.4	3686		206.8	169	10.8	0.847	0.0459	34.0			21.8%	70.5%	
Car SUV	Rear Wheel Drive	1998	408	0.897	21.7	15.6	20.4	17.8	3895		229.5	173	11.0	0.775	0.0445	34.7			10.9%	89.1%	
Car SUV	Rear Wheel Drive	1999	413	0.846	22.1	15.8	20.5	18.0	3898		223.4	171	11.1	0.791	0.0439	35.1			8.9%	91.1%	
Car SUV	Rear Wheel Drive	2000	538	0.873	21.5	15.3	19.9	17.5	3915		221.1	174	11.0	0.812	0.0445	34.2			6.1%	93.9%	
Car SUV	Rear Wheel Drive	2001	467	0.629	22.1	15.7	20.1	17.8	3844		209.2	179	10.7	0.883	0.0465	34.4			6.1%	93.9%	
Car SUV	Rear Wheel Drive	2002	268	0.445	21.4	15.1	19.6	17.3	3935		207.6	183	10.7	0.898	0.0463	34.1			7.9%	92.1%	
Car SUV	Rear Wheel Drive	2003	196	0.341	21.9	15.4	20.0	17.6	3991		217.6	194	10.3	0.900	0.0486	35.3			5.4%	94.6%	
Car SUV	Rear Wheel Drive	2004	151	0.237	22.4	15.4	20.7	18.0	4042		212.9	204	10.0	0.961	0.0502	36.4			6.3%	93.7%	
Car SUV	Rear Wheel Drive	2005	93	0.115	21.9	14.9	20.5	17.6	4249		224.1	236	9.2	1.055	0.0552	37.5			3.3%	96.7%	
Car SUV	Rear Wheel Drive	2006	103	0.137	22.4	15.2	20.9	18.0	4231		216.3	231	9.4	1.069	0.0542	38.1			4.5%	95.5%	
Car SUV	Rear Wheel Drive	2007	92	0.100	22.5	15.4	20.9	18.1	4280		233.0	244	9.0	1.047	0.0569	38.7			3.9%	96.1%	
Car SUV	Rear Wheel Drive	2008	71	0.076	22.7	15.4	21.3	18.3	4406		221.9	257	8.8	1.165	0.0586	40.3			0.4%	99.6%	
Car SUV	Rear Wheel Drive	2009	31	0.050	23.3	15.8	21.7	18.7	4479		222.6	269	8.6	1.210	0.0600	41.9			0.2%	99.8%	
Car SUV	Rear Wheel Drive	2010	25	0.028	23.3	15.8	21.6	18.7	4500		226.5	264	8.7	1.174	0.0588	42.1			0.3%	99.7%	
Car SUV	Rear Wheel Drive	2011	19	0.015	23.7	16.0	22.1	19.0	4246		221.8	271	8.2	1.226	0.0639	40.3				100.0%	
Car SUV	Rear Wheel Drive	2012	49	0.039	23.8	16.2	22.1	19.1	4098		219.2	233	9.1	1.069	0.0567	39.1			0.3%	99.7%	
Car SUV	Rear Wheel Drive	2013	26	0.017	24.8	17.0	22.2	19.6	4326		214.0	262	8.8	1.226	0.0600	43.2			2.2%	97.8%	

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsize	Large
Car SUV	Rear Wheel Drive	1975								61.4%	38.6%	
Car SUV	Rear Wheel Drive	1976								63.1%	36.9%	
Car SUV	Rear Wheel Drive	1977								79.5%	20.5%	
Car SUV	Rear Wheel Drive	1978								81.6%	18.4%	
Car SUV	Rear Wheel Drive	1979								83.5%	16.5%	
Car SUV	Rear Wheel Drive	1980									100.0%	
Car SUV	Rear Wheel Drive	1981									100.0%	
Car SUV	Rear Wheel Drive	1982								86.5%	13.5%	
Car SUV	Rear Wheel Drive	1983								37.6%	62.4%	
Car SUV	Rear Wheel Drive	1984								5.6%	94.4%	
Car SUV	Rear Wheel Drive	1985			5.3%						100.0%	
Car SUV	Rear Wheel Drive	1986		0.0%	86.8%	0.0%				0.0%	100.0%	
Car SUV	Rear Wheel Drive	1987		32.8%	67.2%					24.1%	75.9%	
Car SUV	Rear Wheel Drive	1988		48.2%	51.8%					35.2%	64.8%	
Car SUV	Rear Wheel Drive	1989		44.7%	53.9%					32.0%	68.0%	
Car SUV	Rear Wheel Drive	1990		63.3%	31.6%					41.2%	58.8%	
Car SUV	Rear Wheel Drive	1991		49.3%	49.9%					20.9%	79.1%	
Car SUV	Rear Wheel Drive	1992		68.4%	30.3%					19.9%	80.1%	
Car SUV	Rear Wheel Drive	1993		90.6%	8.7%					10.2%	89.8%	
Car SUV	Rear Wheel Drive	1994		91.9%	8.1%		9.8%			19.2%	80.8%	
Car SUV	Rear Wheel Drive	1995		90.8%	9.2%		19.1%			11.5%	88.5%	
Car SUV	Rear Wheel Drive	1996		100.0%			27.9%			8.7%	91.3%	
Car SUV	Rear Wheel Drive	1997		100.0%			43.0%			26.3%	73.7%	
Car SUV	Rear Wheel Drive	1998		100.0%			21.0%			13.7%	86.3%	
Car SUV	Rear Wheel Drive	1999		100.0%			27.3%			9.3%	89.6%	1.1%
Car SUV	Rear Wheel Drive	2000		100.0%			24.4%			20.4%	78.9%	0.7%
Car SUV	Rear Wheel Drive	2001		100.0%			20.6%			21.0%	69.5%	9.5%
Car SUV	Rear Wheel Drive	2002		100.0%			59.8%			14.5%	85.5%	
Car SUV	Rear Wheel Drive	2003		100.0%			24.9%	2.9%		1.9%	90.7%	7.4%
Car SUV	Rear Wheel Drive	2004		100.0%			35.9%	11.6%		3.2%	78.8%	18.1%
Car SUV	Rear Wheel Drive	2005		100.0%			59.5%	49.9%			69.2%	30.8%
Car SUV	Rear Wheel Drive	2006		100.0%			68.6%	46.1%			79.4%	20.6%
Car SUV	Rear Wheel Drive	2007		100.0%			75.1%	54.5%		2.2%	86.5%	11.3%
Car SUV	Rear Wheel Drive	2008		100.0%			100.0%	94.5%			80.3%	19.7%
Car SUV	Rear Wheel Drive	2009		100.0%			100.0%	72.2%			45.4%	54.6%
Car SUV	Rear Wheel Drive	2010		100.0%			100.0%	100.0%			87.2%	12.8%
Car SUV	Rear Wheel Drive	2011		100.0%			100.0%	100.0%			81.5%	18.5%
Car SUV	Rear Wheel Drive	2012		100.0%			49.3%	49.3%				
Car SUV	Rear Wheel Drive	2013	41.9%	58.1%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
Car SUV	Four Wheel Drive	1975																			
Car SUV	Four Wheel Drive	1976																			
Car SUV	Four Wheel Drive	1977																			
Car SUV	Four Wheel Drive	1978																			
Car SUV	Four Wheel Drive	1979																			
Car SUV	Four Wheel Drive	1980																			
Car SUV	Four Wheel Drive	1981																			
Car SUV	Four Wheel Drive	1982																			
Car SUV	Four Wheel Drive	1983																			
Car SUV	Four Wheel Drive	1984																			
Car SUV	Four Wheel Drive	1985																			
Car SUV	Four Wheel Drive	1986																			
Car SUV	Four Wheel Drive	1987																			
Car SUV	Four Wheel Drive	1988																			
Car SUV	Four Wheel Drive	1989																			
Car SUV	Four Wheel Drive	1990																			
Car SUV	Four Wheel Drive	1991																			
Car SUV	Four Wheel Drive	1992																			
Car SUV	Four Wheel Drive	1993																			
Car SUV	Four Wheel Drive	1994																			
Car SUV	Four Wheel Drive	1995																			
Car SUV	Four Wheel Drive	1996																			
Car SUV	Four Wheel Drive	1997																			
Car SUV	Four Wheel Drive	1998																			
Car SUV	Four Wheel Drive	1999																			
Car SUV	Four Wheel Drive	2000																			
Car SUV	Four Wheel Drive	2001																			
Car SUV	Four Wheel Drive	2002																			
Car SUV	Four Wheel Drive	2003																			
Car SUV	Four Wheel Drive	2004	22	0.034	20.2	13.6	19.6	16.4	4500		249.8	286	8.3	1.149	0.0636	37.0				100.0%	
Car SUV	Four Wheel Drive	2005	118	0.145	23.8	16.0	22.6	19.2	4113		207.6	195	10.4	0.935	0.0472	39.4				100.0%	
Car SUV	Four Wheel Drive	2006	64	0.086	23.1	15.5	21.8	18.6	4205		209.2	202	10.4	0.959	0.0477	39.0				100.0%	
Car SUV	Four Wheel Drive	2007	43	0.047	23.7	15.9	22.5	19.1	4222		209.6	203	10.3	0.964	0.0478	40.3				100.0%	
Car SUV	Four Wheel Drive	2008	49	0.053	23.6	15.8	22.5	19.0	4273		211.4	214	10.1	1.007	0.0499	40.5				100.0%	
Car SUV	Four Wheel Drive	2009	17	0.028	23.2	15.5	22.3	18.7	4232		209.9	210	10.1	0.997	0.0496	39.6				100.0%	
Car SUV	Four Wheel Drive	2010	81	0.089	27.5	18.4	25.5	21.9	4272		164.9	225	9.7	1.356	0.0524	47.0				100.0%	
Car SUV	Four Wheel Drive	2011	117	0.097	26.0	17.3	24.7	20.9	4229		163.9	221	9.8	1.335	0.0517	44.1				100.0%	
Car SUV	Four Wheel Drive	2012	184	0.145	26.5	17.6	24.6	21.0	4214		175.6	230	9.5	1.308	0.0544	44.4				100.0%	
Car SUV	Four Wheel Drive	2013	187	0.122	28.4	18.9	26.5	22.6	4183		172.3	224	9.8	1.291	0.0531	47.5				100.0%	

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsized	Large
Car SUV	Four Wheel Drive	1975										
Car SUV	Four Wheel Drive	1976										
Car SUV	Four Wheel Drive	1977										
Car SUV	Four Wheel Drive	1978										
Car SUV	Four Wheel Drive	1979										
Car SUV	Four Wheel Drive	1980										
Car SUV	Four Wheel Drive	1981										
Car SUV	Four Wheel Drive	1982										
Car SUV	Four Wheel Drive	1983										
Car SUV	Four Wheel Drive	1984										
Car SUV	Four Wheel Drive	1985										
Car SUV	Four Wheel Drive	1986										
Car SUV	Four Wheel Drive	1987										
Car SUV	Four Wheel Drive	1988										
Car SUV	Four Wheel Drive	1989										
Car SUV	Four Wheel Drive	1990										
Car SUV	Four Wheel Drive	1991										
Car SUV	Four Wheel Drive	1992										
Car SUV	Four Wheel Drive	1993										
Car SUV	Four Wheel Drive	1994										
Car SUV	Four Wheel Drive	1995										
Car SUV	Four Wheel Drive	1996										
Car SUV	Four Wheel Drive	1997										
Car SUV	Four Wheel Drive	1998										
Car SUV	Four Wheel Drive	1999										
Car SUV	Four Wheel Drive	2000										
Car SUV	Four Wheel Drive	2001										
Car SUV	Four Wheel Drive	2002										
Car SUV	Four Wheel Drive	2003										
Car SUV	Four Wheel Drive	2004		100.0%			100.0%	100.0%				100.0%
Car SUV	Four Wheel Drive	2005		100.0%			11.3%	11.3%				100.0%
Car SUV	Four Wheel Drive	2006		100.0%			100.0%	20.5%				100.0%
Car SUV	Four Wheel Drive	2007		100.0%			22.2%	22.2%				100.0%
Car SUV	Four Wheel Drive	2008		100.0%			36.5%	36.5%				100.0%
Car SUV	Four Wheel Drive	2009		100.0%			32.6%	32.6%				100.0%
Car SUV	Four Wheel Drive	2010	97.4%	2.6%			100.0%	100.0%				100.0%
Car SUV	Four Wheel Drive	2011	94.3%	5.7%			100.0%	100.0%			4.7%	95.3%
Car SUV	Four Wheel Drive	2012	82.6%	17.4%			100.0%	100.0%				
Car SUV	Four Wheel Drive	2013	82.5%	17.5%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
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			100.0%		
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			33.3%		
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			25.1%	5.6%	
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			12.4%	4.4%	
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			8.7%	6.1%	
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			5.5%	54.1%	
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			3.0%	78.4%	
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			2.6%	58.8%	
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			1.9%	96.7%	
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			0.2%	99.8%	
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			2.4%	97.6%	
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			1.6%	98.4%	
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			0.6%	99.4%	
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			0.1%	99.9%	
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			0.0%	100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				97.0%	3.0%
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				96.6%	3.4%
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				96.8%	3.2%
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			0.1%	99.9%	
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			0.3%	99.7%	
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			0.2%	99.8%	
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				96.6%	3.4%
Van	Front Wheel Drive	2012	618	0.935	27.1	18.0	25.8	21.7	4388		206.5	255	9.1	1.226	0.0576	47.6			0.2%	99.8%	3.5%
Van	Front Wheel Drive	2013	525	0.925	26.7	17.7	25.5	21.4	4571		211.6	264	9.0	1.244	0.0576	48.9			0.2%	99.8%	6.2%

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsize	Large
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%				100.0%		
Van	Front Wheel Drive	1984				1.3%				11.0%	89.0%	
Van	Front Wheel Drive	1985		0.1%						6.7%	93.3%	
Van	Front Wheel Drive	1986			0.1%					9.0%	91.0%	
Van	Front Wheel Drive	1987		51.6%	0.2%					8.4%	91.6%	
Van	Front Wheel Drive	1988		79.2%	20.8%					2.9%	97.1%	
Van	Front Wheel Drive	1989		72.7%	27.3%					2.2%	97.8%	
Van	Front Wheel Drive	1990		67.9%	32.1%					2.9%	97.1%	
Van	Front Wheel Drive	1991		70.5%	29.5%					1.6%	98.4%	
Van	Front Wheel Drive	1992		82.0%	18.0%					6.1%	93.9%	
Van	Front Wheel Drive	1993		88.8%	11.2%					1.7%	98.3%	
Van	Front Wheel Drive	1994		90.8%	9.2%		0.3%			1.0%	99.0%	
Van	Front Wheel Drive	1995		93.2%	6.8%		3.3%			0.2%	99.7%	0.2%
Van	Front Wheel Drive	1996		100.0%			5.6%			0.1%	99.9%	
Van	Front Wheel Drive	1997		100.0%			7.5%				99.8%	0.2%
Van	Front Wheel Drive	1998		100.0%			12.0%				100.0%	
Van	Front Wheel Drive	1999		100.0%			16.4%	10.8%			99.9%	0.1%
Van	Front Wheel Drive	2000		100.0%			26.8%	18.6%			99.9%	0.1%
Van	Front Wheel Drive	2001		100.0%			32.6%	24.5%			100.0%	
Van	Front Wheel Drive	2002		100.0%			33.7%	24.7%			99.9%	0.1%
Van	Front Wheel Drive	2003		100.0%			30.9%	23.5%			99.6%	0.4%
Van	Front Wheel Drive	2004		100.0%			57.3%	50.1%			100.0%	
Van	Front Wheel Drive	2005		100.0%			38.0%	26.2%			100.0%	
Van	Front Wheel Drive	2006		100.0%			48.2%	38.6%			100.0%	
Van	Front Wheel Drive	2007		100.0%			53.9%	51.0%			100.0%	
Van	Front Wheel Drive	2008		100.0%			53.1%	50.0%		2.2%	97.8%	
Van	Front Wheel Drive	2009		100.0%			60.7%	48.1%		6.4%	93.6%	
Van	Front Wheel Drive	2010		100.0%			52.7%	36.9%		3.7%	96.3%	
Van	Front Wheel Drive	2011		100.0%			100.0%	94.1%			100.0%	
Van	Front Wheel Drive	2012		100.0%			100.0%	94.1%				
Van	Front Wheel Drive	2013		100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
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			23.3%		
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			20.5%		
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			14.3%		
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			13.0%		
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			14.8%	6.8%	
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			26.0%	39.0%	
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			21.7%	46.8%	
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			15.7%	45.8%	
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			12.0%	59.4%	
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			12.7%	57.1%	
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			8.4%	66.5%	
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			6.9%	78.8%	
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			5.1%	74.1%	
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			3.1%	79.6%	
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			2.5%	86.3%	
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			1.6%	90.4%	
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			1.5%	94.3%	
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			0.7%	95.2%	
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			0.8%	95.6%	
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			0.3%	94.7%	
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				94.4%	
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				93.2%	
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				98.6%	
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				100.0%	
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				100.0%	
Van	Rear Wheel Drive	2000	282	0.167	19.1	13.6	17.8	15.6	4717		282.9	208	11.1	0.735	0.0441	36.9				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
Van	Rear Wheel Drive	2012	23	0.034	19.8	13.7	18.2	15.9	5384		282.8	228	11.6	0.798	0.0420	43.0				100.0%	
Van	Rear Wheel Drive	2013	24	0.043	19.6	13.5	18.0	15.8	5447		290.5	239	11.4	0.815	0.0436	43.0				100.0%	

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsize	Large
Van	Rear Wheel Drive	1975			0.2%					0.4%	66.1%	33.6%
Van	Rear Wheel Drive	1976			0.3%					0.3%	61.4%	38.3%
Van	Rear Wheel Drive	1977			0.4%					0.4%	61.0%	38.6%
Van	Rear Wheel Drive	1978			0.4%					0.4%	63.8%	35.8%
Van	Rear Wheel Drive	1979			1.8%					1.8%	65.1%	33.1%
Van	Rear Wheel Drive	1980			6.5%					6.5%	53.8%	39.7%
Van	Rear Wheel Drive	1981			4.6%					4.6%	56.1%	39.3%
Van	Rear Wheel Drive	1982			3.0%	1.8%				4.8%	58.0%	37.2%
Van	Rear Wheel Drive	1983			3.5%	4.4%				3.6%	60.2%	36.2%
Van	Rear Wheel Drive	1984		8.6%	4.0%	1.2%				12.6%	54.3%	33.1%
Van	Rear Wheel Drive	1985		9.1%	4.2%	0.4%				12.3%	60.3%	27.4%
Van	Rear Wheel Drive	1986		29.4%	21.9%	0.5%				8.5%	70.9%	20.6%
Van	Rear Wheel Drive	1987		43.0%	42.8%	0.1%				10.0%	72.2%	17.8%
Van	Rear Wheel Drive	1988		43.5%	56.0%	0.2%				4.9%	75.9%	19.2%
Van	Rear Wheel Drive	1989		49.9%	50.0%	0.1%				2.2%	80.7%	17.1%
Van	Rear Wheel Drive	1990		44.4%	55.4%	0.1%				1.1%	80.6%	18.2%
Van	Rear Wheel Drive	1991		53.1%	46.7%	0.1%				0.8%	84.8%	14.4%
Van	Rear Wheel Drive	1992		60.3%	39.6%	0.1%					84.5%	15.5%
Van	Rear Wheel Drive	1993		66.3%	33.7%						83.8%	16.2%
Van	Rear Wheel Drive	1994		66.6%	33.4%		2.6%				80.9%	19.1%
Van	Rear Wheel Drive	1995		71.6%	28.4%		3.3%				79.2%	20.8%
Van	Rear Wheel Drive	1996		100.0%			5.3%				67.4%	32.6%
Van	Rear Wheel Drive	1997		100.0%			3.1%				64.5%	35.5%
Van	Rear Wheel Drive	1998		100.0%			2.3%				51.9%	48.1%
Van	Rear Wheel Drive	1999		100.0%							45.5%	54.5%
Van	Rear Wheel Drive	2000		100.0%							40.5%	59.5%
Van	Rear Wheel Drive	2001		100.0%							19.8%	80.2%
Van	Rear Wheel Drive	2002		100.0%							29.3%	70.7%
Van	Rear Wheel Drive	2003		100.0%							29.4%	70.6%
Van	Rear Wheel Drive	2004		100.0%							31.4%	68.6%
Van	Rear Wheel Drive	2005		100.0%							35.1%	64.9%
Van	Rear Wheel Drive	2006		100.0%								100.0%
Van	Rear Wheel Drive	2007		100.0%								100.0%
Van	Rear Wheel Drive	2008		100.0%							4.5%	95.5%
Van	Rear Wheel Drive	2009		100.0%								100.0%
Van	Rear Wheel Drive	2010		100.0%				29.1%				100.0%
Van	Rear Wheel Drive	2011		100.0%			2.5%	26.5%			2.5%	97.5%
Van	Rear Wheel Drive	2012		100.0%				20.4%				
Van	Rear Wheel Drive	2013		100.0%				30.1%				

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
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			100.0%		
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			100.0%		
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			66.4%	22.9%	
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			89.7%	10.3%	
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			59.4%	37.2%	
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			3.2%	92.5%	
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			4.6%	95.4%	
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			3.3%	96.7%	
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			0.2%	99.5%	
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			0.5%	99.5%	
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			0.4%	99.6%	
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			0.1%	99.9%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
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				55.2%	44.8%
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				62.4%	37.6%
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				48.4%	51.6%
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				100.0%	
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				100.0%	
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				100.0%	
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				100.0%	
Van	Four Wheel Drive	2012	20	0.031	23.4	15.8	21.8	18.8	4979		229.0	273	9.3	1.213	0.0550	46.9				100.0%	
Van	Four Wheel Drive	2013	18	0.033	23.2	15.7	21.8	18.7	5099		226.8	276	9.4	1.235	0.0541	47.9				100.0%	

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsize	Large
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		67.5%						100.0%		
Van	Four Wheel Drive	1988		100.0%						100.0%		
Van	Four Wheel Drive	1989		100.0%						82.6%	17.4%	
Van	Four Wheel Drive	1990		85.0%	15.0%					8.4%	91.6%	
Van	Four Wheel Drive	1991		85.9%	14.1%					3.8%	96.2%	
Van	Four Wheel Drive	1992		91.1%	8.9%					9.3%	90.7%	
Van	Four Wheel Drive	1993		100.0%						0.3%	99.4%	0.3%
Van	Four Wheel Drive	1994		97.5%	2.5%		34.9%			4.0%	96.0%	
Van	Four Wheel Drive	1995		100.0%			17.0%			2.9%	97.1%	
Van	Four Wheel Drive	1996		100.0%			15.3%			0.4%	99.6%	
Van	Four Wheel Drive	1997		100.0%			10.2%				100.0%	
Van	Four Wheel Drive	1998		100.0%			17.9%				100.0%	
Van	Four Wheel Drive	1999		100.0%							100.0%	
Van	Four Wheel Drive	2000		100.0%							100.0%	
Van	Four Wheel Drive	2001		100.0%							28.9%	71.1%
Van	Four Wheel Drive	2002		100.0%							100.0%	
Van	Four Wheel Drive	2003		100.0%							88.4%	11.6%
Van	Four Wheel Drive	2004		100.0%			55.6%	55.6%			90.7%	9.3%
Van	Four Wheel Drive	2005		100.0%			74.8%	30.0%			95.2%	4.8%
Van	Four Wheel Drive	2006		100.0%			76.9%	39.3%			92.4%	7.6%
Van	Four Wheel Drive	2007		100.0%			84.1%	32.5%			84.1%	15.9%
Van	Four Wheel Drive	2008		100.0%			87.4%	41.0%			87.4%	12.6%
Van	Four Wheel Drive	2009		100.0%			73.2%	73.2%			73.2%	26.8%
Van	Four Wheel Drive	2010		100.0%			65.2%	100.0%			65.2%	34.8%
Van	Four Wheel Drive	2011		100.0%			89.7%	100.0%			89.7%	10.3%
Van	Four Wheel Drive	2012		100.0%			83.9%	100.0%				
Van	Four Wheel Drive	2013		100.0%			85.9%	100.0%				

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
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				100.0%	
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				100.0%	
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			4.3%	95.7%	
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			1.6%	98.4%	
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			1.8%	98.2%	
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			1.1%	85.7%	13.2%
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			2.4%	74.8%	22.8%
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			1.6%	81.6%	16.8%
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			0.9%	90.8%	8.3%
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			0.8%	86.7%	9.6%
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			0.7%	88.9%	10.4%
Truck SUV	Front Wheel Drive	2012	381	0.137	25.7	17.2	24.3	20.6	4674		209.5	269	9.0	1.285	0.0574	48.1				99.3%	0.7%
Truck SUV	Front Wheel Drive	2013	436	0.145	26.7	17.9	24.9	21.3	4605		201.7	261	9.2	1.304	0.0564	49.1				100.0%	12.1%

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsized	Large
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%			17.6%	17.6%			82.4%	17.6%
Truck SUV	Front Wheel Drive	2002		100.0%			100.0%	100.0%			100.0%	
Truck SUV	Front Wheel Drive	2003		100.0%			100.0%	100.0%			99.6%	0.4%
Truck SUV	Front Wheel Drive	2004		100.0%			81.8%	81.8%			91.6%	8.4%
Truck SUV	Front Wheel Drive	2005		100.0%			100.0%	100.0%			91.4%	8.6%
Truck SUV	Front Wheel Drive	2006		100.0%			100.0%	100.0%	13.2%		93.5%	6.5%
Truck SUV	Front Wheel Drive	2007		100.0%			100.0%	99.3%	5.5%		72.6%	27.4%
Truck SUV	Front Wheel Drive	2008		100.0%			100.0%	97.6%	1.9%		55.2%	44.8%
Truck SUV	Front Wheel Drive	2009	20.2%	79.8%			100.0%	83.9%	0.1%		44.6%	55.4%
Truck SUV	Front Wheel Drive	2010	35.7%	64.3%			100.0%	86.7%			34.9%	65.1%
Truck SUV	Front Wheel Drive	2011	40.1%	59.9%			100.0%	100.0%			37.7%	62.3%
Truck SUV	Front Wheel Drive	2012	45.6%	54.4%			100.0%	100.0%				
Truck SUV	Front Wheel Drive	2013	25.1%	74.9%			100.0%	88.1%				

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
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			15.1%		
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			20.1%		
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			17.5%		
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			24.2%		
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			17.2%	1.5%	
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			15.1%	84.1%	
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			2.3%	97.7%	
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				92.4%	
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				95.1%	
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				88.8%	
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				70.4%	
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				91.0%	
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				91.4%	
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				94.4%	
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			3.5%	90.6%	
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			1.6%	88.4%	
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			5.5%	89.1%	
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			8.0%	91.9%	
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			4.7%	95.3%	
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				100.0%	
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			12.3%	87.7%	
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			5.3%	94.7%	
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			3.7%	96.3%	
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			1.1%	98.9%	
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			0.6%	99.4%	
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			0.4%	99.6%	
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			0.4%	99.6%	
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			0.6%	99.4%	
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			0.0%	100.0%	
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			0.3%	99.7%	
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			0.5%	99.5%	
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			0.4%	99.6%	
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			0.2%	99.8%	
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			0.4%	98.7%	0.9%
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			0.2%	97.8%	2.0%
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			0.1%	99.6%	0.3%
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			0.1%	99.7%	0.2%
Truck SUV	Rear Wheel Drive	2012	176	0.064	22.0	14.8	20.8	17.7	5475		294.2	315	9.0	1.089	0.0579	48.5				100.0%	0.2%
Truck SUV	Rear Wheel Drive	2013	200	0.066	22.0	14.9	21.4	18.0	5698		309.8	321	9.1	1.056	0.0568	51.8				100.0%	3.4%

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsize	Large
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				0.0%					19.0%	81.0%
Truck SUV	Rear Wheel Drive	1981									18.3%	81.7%
Truck SUV	Rear Wheel Drive	1982				37.9%					25.1%	74.9%
Truck SUV	Rear Wheel Drive	1983				28.7%					4.9%	95.1%
Truck SUV	Rear Wheel Drive	1984				13.7%					11.2%	88.8%
Truck SUV	Rear Wheel Drive	1985				6.5%					29.6%	70.4%
Truck SUV	Rear Wheel Drive	1986				5.2%					18.4%	81.6%
Truck SUV	Rear Wheel Drive	1987			76.8%	2.7%					20.5%	79.5%
Truck SUV	Rear Wheel Drive	1988			96.6%	2.2%					16.3%	83.7%
Truck SUV	Rear Wheel Drive	1989			98.2%	1.8%					21.9%	78.1%
Truck SUV	Rear Wheel Drive	1990		5.1%	93.2%	1.7%					15.1%	84.9%
Truck SUV	Rear Wheel Drive	1991		17.9%	79.9%	2.2%					23.3%	76.7%
Truck SUV	Rear Wheel Drive	1992		30.0%	70.0%						30.1%	69.9%
Truck SUV	Rear Wheel Drive	1993		21.0%	79.0%						21.0%	79.0%
Truck SUV	Rear Wheel Drive	1994			100.0%							100.0%
Truck SUV	Rear Wheel Drive	1995		58.9%	41.1%						58.9%	41.1%
Truck SUV	Rear Wheel Drive	1996		100.0%			22.4%				77.5%	22.5%
Truck SUV	Rear Wheel Drive	1997		100.0%			26.2%				60.7%	39.3%
Truck SUV	Rear Wheel Drive	1998		100.0%			31.6%				30.9%	69.1%
Truck SUV	Rear Wheel Drive	1999		100.0%			21.0%				27.7%	72.3%
Truck SUV	Rear Wheel Drive	2000		100.0%			24.6%	1.3%			22.5%	77.5%
Truck SUV	Rear Wheel Drive	2001		100.0%			31.1%	10.6%		1.4%	22.2%	76.4%
Truck SUV	Rear Wheel Drive	2002		100.0%			29.6%	17.7%		0.6%	19.5%	79.8%
Truck SUV	Rear Wheel Drive	2003		100.0%			37.8%	23.3%		0.3%	23.7%	76.0%
Truck SUV	Rear Wheel Drive	2004		100.0%			41.6%	30.1%		0.5%	27.8%	71.7%
Truck SUV	Rear Wheel Drive	2005		100.0%			53.3%	41.9%		0.7%	26.9%	72.4%
Truck SUV	Rear Wheel Drive	2006		100.0%			60.5%	53.8%			37.3%	62.7%
Truck SUV	Rear Wheel Drive	2007		99.9%		0.1%	34.0%	32.8%		1.5%	20.8%	77.7%
Truck SUV	Rear Wheel Drive	2008		99.9%		0.1%	45.1%	38.0%	0.9%	1.3%	23.4%	75.3%
Truck SUV	Rear Wheel Drive	2009		100.0%			22.6%	28.6%	2.0%	1.9%	20.6%	77.4%
Truck SUV	Rear Wheel Drive	2010		100.0%			42.8%	57.7%	0.3%	1.5%	25.9%	72.6%
Truck SUV	Rear Wheel Drive	2011	2.3%	97.7%			54.4%	88.8%	0.2%		19.1%	80.9%
Truck SUV	Rear Wheel Drive	2012	3.8%	96.2%			62.5%	100.0%	0.2%			
Truck SUV	Rear Wheel Drive	2013	6.1%	93.9%			40.4%	96.7%	3.4%			

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
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			42.9%		
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			33.6%		
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			34.6%		
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			32.8%		
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			39.2%		
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			47.2%	18.8%	
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			45.0%	35.1%	
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			37.0%	37.4%	
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			37.0%	48.2%	
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			32.5%	37.4%	
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			32.3%	55.6%	
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			41.7%	50.9%	
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			42.1%	48.5%	
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			36.6%	55.3%	
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			27.5%	63.8%	
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			31.3%	65.0%	
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			22.4%	76.0%	
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			22.4%	76.7%	
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			20.2%	78.8%	
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			15.9%	84.1%	
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			15.3%	84.7%	
Truck SUV	Four Wheel Drive	1996	1343	0.838	19.7	14.3	18.7	16.3	4335		258.2	188	11.3	0.744	0.0436	35.3			6.2%	93.8%	
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			11.0%	89.0%	
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			8.5%	91.5%	
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			7.3%	92.7%	
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			5.8%	94.2%	
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			4.8%	95.2%	
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			4.1%	95.8%	0.1%
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			2.9%	95.4%	1.8%
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			2.8%	95.8%	1.4%
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			2.7%	95.4%	1.9%
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			2.9%	91.9%	5.1%
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			2.5%	91.8%	5.7%
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			2.0%	91.6%	6.4%
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			1.3%	86.6%	12.1%
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			2.2%	85.5%	11.8%
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			1.4%	85.7%	12.9%
Truck SUV	Four Wheel Drive	2012	2216	0.799	25.3	17.2	23.1	20.1	4566		209.0	255	9.3	1.234	0.0554	46.1			2.1%	94.5%	12.3%
Truck SUV	Four Wheel Drive	2013	2384	0.789	26.4	17.9	24.2	21.0	4540		201.4	256	9.2	1.313	0.0559	48.0			1.8%	97.1%	16.4%

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsize	Large
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				0.3%				32.8%	60.9%	6.3%
Truck SUV	Four Wheel Drive	1980				2.6%				37.0%	58.7%	4.3%
Truck SUV	Four Wheel Drive	1981								34.7%	62.4%	2.9%
Truck SUV	Four Wheel Drive	1982				13.2%				24.5%	70.7%	4.8%
Truck SUV	Four Wheel Drive	1983				5.6%				18.3%	77.7%	4.0%
Truck SUV	Four Wheel Drive	1984				1.7%				26.7%	70.5%	2.8%
Truck SUV	Four Wheel Drive	1985		4.8%	1.1%	1.2%				19.5%	77.5%	3.0%
Truck SUV	Four Wheel Drive	1986		27.8%	22.1%	1.4%				26.5%	70.6%	2.9%
Truck SUV	Four Wheel Drive	1987		35.1%	36.3%	0.3%				31.6%	65.6%	2.8%
Truck SUV	Four Wheel Drive	1988		50.2%	31.1%	0.2%				30.8%	65.7%	3.5%
Truck SUV	Four Wheel Drive	1989		49.5%	42.9%	0.2%				25.3%	70.5%	4.2%
Truck SUV	Four Wheel Drive	1990		60.9%	33.3%	0.2%				27.4%	67.5%	5.2%
Truck SUV	Four Wheel Drive	1991		63.9%	35.5%	0.1%				10.6%	85.9%	3.5%
Truck SUV	Four Wheel Drive	1992		76.7%	23.3%					11.1%	81.9%	7.0%
Truck SUV	Four Wheel Drive	1993		87.5%	12.5%					12.2%	77.1%	10.7%
Truck SUV	Four Wheel Drive	1994		88.5%	11.5%		14.0%			10.2%	80.6%	9.2%
Truck SUV	Four Wheel Drive	1995		87.8%	12.2%		16.8%			11.4%	77.1%	11.5%
Truck SUV	Four Wheel Drive	1996		100.0%		0.0%	11.8%			5.9%	80.5%	13.6%
Truck SUV	Four Wheel Drive	1997		100.0%		0.0%	17.5%			19.9%	56.1%	24.0%
Truck SUV	Four Wheel Drive	1998		100.0%		0.0%	20.4%			12.7%	63.4%	24.0%
Truck SUV	Four Wheel Drive	1999		100.0%			27.8%	3.7%		13.4%	65.1%	21.5%
Truck SUV	Four Wheel Drive	2000		100.0%			22.3%	2.8%		12.7%	61.0%	26.2%
Truck SUV	Four Wheel Drive	2001		100.0%			43.5%	14.9%		11.9%	54.2%	34.0%
Truck SUV	Four Wheel Drive	2002		100.0%			47.6%	25.7%		8.9%	41.9%	49.1%
Truck SUV	Four Wheel Drive	2003		100.0%			54.3%	34.3%		7.7%	51.3%	41.0%
Truck SUV	Four Wheel Drive	2004		100.0%		0.0%	55.6%	39.3%		6.8%	53.9%	39.3%
Truck SUV	Four Wheel Drive	2005		99.7%		0.3%	65.7%	50.2%	0.3%	6.7%	53.0%	40.3%
Truck SUV	Four Wheel Drive	2006		99.7%		0.3%	70.0%	59.1%	3.1%	5.7%	55.2%	39.1%
Truck SUV	Four Wheel Drive	2007		99.7%		0.3%	65.2%	55.7%	1.4%	5.4%	50.4%	44.2%
Truck SUV	Four Wheel Drive	2008	2.6%	96.8%		0.6%	73.0%	59.7%	2.7%	6.2%	55.8%	38.0%
Truck SUV	Four Wheel Drive	2009	5.4%	93.9%		0.7%	84.2%	69.7%	1.9%	4.2%	62.7%	33.1%
Truck SUV	Four Wheel Drive	2010	9.1%	90.1%		0.8%	83.8%	85.0%	1.9%	5.3%	64.0%	30.7%
Truck SUV	Four Wheel Drive	2011	12.1%	86.8%		1.1%	84.1%	91.7%	0.8%		61.6%	38.4%
Truck SUV	Four Wheel Drive	2012	14.7%	83.7%		1.6%	89.4%	94.7%	0.8%			
Truck SUV	Four Wheel Drive	2013	24.4%	74.7%		0.9%	91.8%	98.4%	1.6%			

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
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			94.0%		
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			100.0%		
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			77.4%		
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			55.7%		
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			71.0%		
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				100.0%	
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				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	0	0.000	20.9	14.4	22.7	17.6	4500		299.0	200	10.9	0.669	0.0444	39.7				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																			
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	Front Wheel Drive	2013																			

**2013 FE Trends Report**  
**Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type**

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsized	Large
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			57.3%	42.7%				100.0%		
Pickup	Front Wheel Drive	1981			27.2%	72.8%				100.0%		
Pickup	Front Wheel Drive	1982			10.7%	34.0%				100.0%		
Pickup	Front Wheel Drive	1983			2.8%	2.7%				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%							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										
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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	Front Wheel Drive	2013										

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
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			41.5%		
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			40.3%		
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			39.0%		
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			40.0%		
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			36.3%	1.5%	
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			55.8%	23.4%	
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			52.6%	31.0%	
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			49.4%	32.9%	
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			53.3%	31.1%	
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			52.1%	32.9%	
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			47.9%	36.2%	
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			56.7%	30.8%	
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			58.0%	28.4%	
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			51.5%	37.9%	
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			52.5%	41.5%	
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			46.2%	49.1%	
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			53.7%	44.9%	
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			48.3%	50.6%	
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			45.2%	53.7%	
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			42.3%	56.4%	
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			45.2%	53.4%	
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			38.5%	59.6%	
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			31.2%	68.8%	
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			31.3%	66.3%	
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			22.6%	75.7%	
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			20.4%	78.3%	
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			14.5%	84.1%	
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			11.4%	87.1%	
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			12.3%	86.2%	
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			8.6%	89.6%	
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			7.2%	92.8%	
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			7.8%	92.2%	
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			5.6%	94.4%	
Pickup	Rear Wheel Drive	2008	942	0.525	21.4	14.6	19.7	17.1	4929		271.2	259	9.9	0.951	0.0520	42.4			5.1%	94.9%	
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			4.4%	95.4%	0.2%
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			2.6%	97.2%	0.2%
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			2.5%	97.4%	0.1%
Pickup	Rear Wheel Drive	2012	510	0.376	22.2	15.1	20.7	17.9	5035		274.3	297	9.0	1.087	0.0584	44.9			1.5%	98.5%	0.1%
Pickup	Rear Wheel Drive	2013	599	0.393	22.2	15.1	21.0	18.0	5200		279.0	312	8.9	1.134	0.0597	46.8			1.2%	98.8%	0.2%

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsize	Large
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				1.6%				14.5%	4.5%	80.9%
Pickup	Rear Wheel Drive	1979				2.8%				13.7%	5.2%	81.1%
Pickup	Rear Wheel Drive	1980				4.3%				28.4%	8.8%	62.8%
Pickup	Rear Wheel Drive	1981				6.2%				18.8%	11.2%	70.0%
Pickup	Rear Wheel Drive	1982				9.8%				18.0%	26.2%	55.8%
Pickup	Rear Wheel Drive	1983			0.0%	4.3%				14.9%	41.5%	43.6%
Pickup	Rear Wheel Drive	1984		1.3%		2.7%				17.9%	37.0%	45.0%
Pickup	Rear Wheel Drive	1985		11.0%	5.7%	1.1%				21.9%	31.9%	46.2%
Pickup	Rear Wheel Drive	1986		18.6%	17.5%	0.6%				27.5%	34.6%	37.9%
Pickup	Rear Wheel Drive	1987		23.7%	33.1%	0.3%				19.4%	52.3%	28.3%
Pickup	Rear Wheel Drive	1988		30.1%	48.7%	0.1%				11.9%	48.1%	40.0%
Pickup	Rear Wheel Drive	1989		34.0%	52.4%	0.1%				13.9%	45.5%	40.7%
Pickup	Rear Wheel Drive	1990		52.0%	39.6%	0.1%				15.0%	37.8%	47.2%
Pickup	Rear Wheel Drive	1991		46.1%	49.6%	0.1%				14.0%	51.5%	34.5%
Pickup	Rear Wheel Drive	1992		57.4%	38.1%	0.1%				11.7%	44.6%	43.7%
Pickup	Rear Wheel Drive	1993		60.6%	36.5%					13.2%	42.1%	44.7%
Pickup	Rear Wheel Drive	1994		72.5%	26.4%		0.7%			11.5%	45.8%	42.7%
Pickup	Rear Wheel Drive	1995		72.9%	27.1%		3.6%			12.2%	38.9%	48.9%
Pickup	Rear Wheel Drive	1996		99.9%		0.1%	11.7%			10.1%	43.3%	46.6%
Pickup	Rear Wheel Drive	1997		100.0%		0.0%	7.5%			6.6%	36.2%	57.2%
Pickup	Rear Wheel Drive	1998		100.0%		0.0%	10.3%			10.0%	42.2%	47.9%
Pickup	Rear Wheel Drive	1999		100.0%			8.4%			8.4%	39.2%	52.4%
Pickup	Rear Wheel Drive	2000		100.0%			12.3%			6.2%	33.9%	59.9%
Pickup	Rear Wheel Drive	2001		100.0%			13.8%			5.3%	24.5%	70.2%
Pickup	Rear Wheel Drive	2002		100.0%			21.1%			9.6%	19.8%	70.6%
Pickup	Rear Wheel Drive	2003		100.0%			15.8%			7.9%	25.2%	66.9%
Pickup	Rear Wheel Drive	2004		100.0%			30.2%	13.5%	0.0%	7.1%	16.3%	76.6%
Pickup	Rear Wheel Drive	2005		100.0%			38.4%	35.8%	0.1%		12.5%	87.5%
Pickup	Rear Wheel Drive	2006		100.0%			44.8%	42.6%	0.1%		19.7%	80.3%
Pickup	Rear Wheel Drive	2007		100.0%			36.6%	38.5%	0.0%		16.3%	83.7%
Pickup	Rear Wheel Drive	2008		100.0%			38.4%	34.3%			19.9%	80.1%
Pickup	Rear Wheel Drive	2009		100.0%			41.5%	34.1%	0.2%		23.0%	77.0%
Pickup	Rear Wheel Drive	2010		100.0%			58.4%	60.9%	0.2%		17.0%	83.0%
Pickup	Rear Wheel Drive	2011	4.8%	95.2%			54.0%	76.0%	0.1%		2.4%	97.6%
Pickup	Rear Wheel Drive	2012	5.5%	94.5%			58.3%	90.2%	0.1%			
Pickup	Rear Wheel Drive	2013	9.2%	90.8%			59.4%	93.5%	0.2%			

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/ CID	HP/ WT	Ton-MPG	Cu Ft-MPG	Ton-MPG	Transmission		
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP							Manual	Lockup	CVT
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			38.4%		
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			33.3%		
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			24.7%		
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			30.2%		
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			64.9%		
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			66.8%	18.6%	
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			76.4%	14.7%	
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			71.4%	17.7%	
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			66.6%	19.9%	
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			62.7%	19.1%	
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			62.4%	26.2%	
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			63.3%	29.4%	
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			59.9%	30.1%	
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			49.7%	40.9%	
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			52.3%	41.5%	
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			44.9%	51.7%	
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			47.5%	50.8%	
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			43.7%	56.2%	
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			40.5%	59.5%	
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			34.6%	65.4%	
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			28.3%	71.7%	
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			25.4%	74.5%	
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			14.0%	86.0%	
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			19.9%	80.1%	
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			11.4%	88.6%	
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			10.7%	89.3%	
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			8.0%	92.0%	
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			7.0%	93.0%	
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			7.3%	92.7%	
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			5.1%	94.9%	
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			4.0%	96.0%	
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			4.2%	95.8%	
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			2.8%	97.2%	
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			2.9%	97.1%	
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			3.8%	95.9%	0.2%
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			2.3%	97.7%	0.1%
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			1.8%	98.1%	0.1%
Pickup	Four Wheel Drive	2012	847	0.624	20.8	14.2	19.4	16.8	5515		293.4	329	8.8	1.143	0.0594	46.3			1.5%	98.5%	0.0%
Pickup	Four Wheel Drive	2013	926	0.607	21.0	14.3	19.8	17.0	5645		291.4	341	8.7	1.202	0.0602	48.1			1.3%	98.7%	0.4%

## 2013 FE Trends Report

### Appendix F: Fuel Economy Data Stratified by Vehicle Type and Drive Type

Vehicle Type	Drive Type	Model Year	Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
			GDI	Port	TBI	Diesel				Small	Midsize	Large
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				0.0%				3.8%		96.2%
Pickup	Four Wheel Drive	1979				0.0%				34.0%		66.0%
Pickup	Four Wheel Drive	1980				0.3%				36.7%		63.3%
Pickup	Four Wheel Drive	1981				2.3%				48.1%		51.9%
Pickup	Four Wheel Drive	1982				9.6%				41.8%	5.1%	53.1%
Pickup	Four Wheel Drive	1983			0.1%	4.8%				26.8%	30.0%	43.2%
Pickup	Four Wheel Drive	1984		0.1%		2.7%				27.2%	27.3%	45.5%
Pickup	Four Wheel Drive	1985		12.7%	1.1%	1.5%				29.8%	23.1%	47.1%
Pickup	Four Wheel Drive	1986		29.0%	17.7%	0.7%				34.9%	20.7%	44.4%
Pickup	Four Wheel Drive	1987		36.4%	28.8%	0.4%				23.8%	39.4%	36.7%
Pickup	Four Wheel Drive	1988		48.7%	47.1%	0.4%				18.7%	29.9%	51.4%
Pickup	Four Wheel Drive	1989		50.5%	47.8%	0.3%				20.9%	25.7%	53.4%
Pickup	Four Wheel Drive	1990		53.5%	46.1%	0.3%				17.8%	19.6%	62.6%
Pickup	Four Wheel Drive	1991		53.5%	46.1%	0.4%				22.5%	27.2%	50.3%
Pickup	Four Wheel Drive	1992		59.7%	40.0%	0.3%				19.2%	22.9%	57.9%
Pickup	Four Wheel Drive	1993		62.9%	37.1%					12.9%	24.2%	63.0%
Pickup	Four Wheel Drive	1994		62.2%	37.8%		5.7%			18.1%	22.5%	59.5%
Pickup	Four Wheel Drive	1995		62.8%	37.2%		9.5%			15.0%	14.5%	70.5%
Pickup	Four Wheel Drive	1996		99.6%		0.4%	17.1%			14.1%	17.4%	68.5%
Pickup	Four Wheel Drive	1997		99.9%		0.1%	5.3%			3.3%	14.4%	82.4%
Pickup	Four Wheel Drive	1998		99.9%		0.1%	13.0%			12.3%	19.7%	68.1%
Pickup	Four Wheel Drive	1999		100.0%		0.0%	6.9%			8.4%	18.6%	73.0%
Pickup	Four Wheel Drive	2000		100.0%			13.3%			0.1%	22.0%	77.9%
Pickup	Four Wheel Drive	2001		100.0%			11.1%				17.0%	83.0%
Pickup	Four Wheel Drive	2002		100.0%			13.2%			6.4%	19.3%	74.2%
Pickup	Four Wheel Drive	2003		100.0%			12.4%			7.8%	15.4%	76.8%
Pickup	Four Wheel Drive	2004		100.0%			34.9%	25.0%	0.0%	5.6%	13.7%	80.7%
Pickup	Four Wheel Drive	2005		100.0%			43.7%	42.9%	0.0%	0.8%	5.9%	93.3%
Pickup	Four Wheel Drive	2006		100.0%			54.1%	53.3%	0.2%	0.7%	4.0%	95.2%
Pickup	Four Wheel Drive	2007		100.0%			44.2%	41.7%	0.0%		7.9%	92.1%
Pickup	Four Wheel Drive	2008		100.0%			44.5%	41.7%			10.6%	89.4%
Pickup	Four Wheel Drive	2009		100.0%			43.3%	39.5%	0.2%		14.4%	85.6%
Pickup	Four Wheel Drive	2010		100.0%			61.0%	63.3%	0.1%		8.3%	91.7%
Pickup	Four Wheel Drive	2011	9.5%	90.5%			47.5%	92.8%	0.1%		0.8%	99.2%
Pickup	Four Wheel Drive	2012	13.2%	86.8%			54.2%	97.3%	0.0%			
Pickup	Four Wheel Drive	2013	17.7%	82.3%			58.6%	98.9%	0.4%			

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car	A3	1975														
Car	A3	1976														
Car	A3	1977														
Car	A3	1978	8125	0.727	18.6	14.6	17.8	15.9	3819	114.4	283	134	13.6	0.493	0.0347	30.4
Car	A3	1979	7462	0.691	19.0	15.0	17.8	16.2	3729	115.0	269	129	13.7	0.501	0.0343	30.2
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
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
Car	A3	1982	1251	0.160	27.9	22.3	25.8	23.7	2679	101.1	124	84	14.8	0.684	0.0311	31.9
Car	A3	1983	1158	0.145	28.2	22.6	25.9	24.0	2749	106.1	130	85	14.8	0.670	0.0309	33.1
Car	A3	1984	1667	0.156	28.3	22.4	26.5	24.1	2741	106.0	129	88	14.4	0.691	0.0321	33.1
Car	A3	1985	1798	0.167	28.8	22.8	26.9	24.5	2764	105.8	129	99	13.3	0.769	0.0356	34.0
Car	A3	1986	1743	0.158	28.8	22.7	26.8	24.4	2778	105.5	130	97	13.6	0.756	0.0348	34.0
Car	A3	1987	1498	0.140	28.2	21.9	26.5	23.9	2763	105.1	130	97	13.6	0.752	0.0349	33.1
Car	A3	1988	892	0.083	28.7	22.3	26.7	24.2	2792	103.4	125	98	13.5	0.795	0.0350	33.9
Car	A3	1989	815	0.081	28.8	22.2	26.5	24.1	2819	102.8	126	97	13.7	0.774	0.0341	34.0
Car	A3	1990	535	0.061	28.8	22.1	26.5	24.0	2869	101.6	129	98	13.7	0.774	0.0341	34.6
Car	A3	1991	368	0.043	27.3	20.8	25.1	22.7	2834	99.5	125	96	13.9	0.784	0.0334	32.4
Car	A3	1992	394	0.049	29.3	22.0	27.0	24.3	2799	99.2	126	98	13.7	0.797	0.0345	34.1
Car	A3	1993	351	0.042	29.5	22.1	27.1	24.3	2819	100.6	128	96	13.8	0.767	0.0338	34.4
Car	A3	1994	267	0.032	30.6	22.7	27.9	25.1	2735	100.2	120	91	14.0	0.784	0.0330	34.4
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
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
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
Car	A3	1998	20	0.003	37.5	27.4	32.4	29.8	2250	89.7	79	79	13.2	1.000	0.0351	33.6
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
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
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
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														
Car	A3	2011														
Car	A3	2012														
Car	A3	2013														

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car	A3	1975											
Car	A3	1976											
Car	A3	1977											
Car	A3	1978	1845	3490	3.9%			3.2%		0.5%			
Car	A3	1979	1882	3488	5.6%			3.0%		1.9%			
Car	A3	1980	2075	3316	29.3%	0.8%		3.9%	0.9%	2.3%			
Car	A3	1981	2238	3279	56.9%	0.0%		5.9%	5.1%	1.8%			
Car	A3	1982	2434	3239	76.5%			8.9%	0.1%	1.8%			
Car	A3	1983	2588	3522	76.1%	5.6%		7.0%	7.1%	1.0%			
Car	A3	1984	2578	3510	94.0%	0.4%		13.1%	12.2%	0.4%			
Car	A3	1985	2626	3600	92.8%	1.1%		18.0%	34.9%	0.1%			
Car	A3	1986	2608	3584	92.0%	1.8%		22.6%	42.7%		0.4%		
Car	A3	1987	2538	3478	96.0%	2.4%		22.2%	56.9%		0.6%		
Car	A3	1988	2540	3502	96.9%	1.7%		54.3%	37.3%		1.1%		
Car	A3	1989	2526	3500	95.9%	2.8%		64.8%	30.3%		2.3%		
Car	A3	1990	2480	3517	97.9%	1.0%		73.6%	26.4%		5.8%		
Car	A3	1991	2314	3217	97.8%	1.2%		79.6%	20.4%		11.0%		
Car	A3	1992	2454	3378	97.8%	1.6%		77.4%	22.6%		9.3%		
Car	A3	1993	2483	3460	99.4%	0.6%		85.4%	14.6%		13.3%		
Car	A3	1994	2574	3451	99.8%	0.2%		81.1%	18.9%		13.0%		
Car	A3	1995	2971	3499	100.0%			43.4%	56.6%		43.4%		
Car	A3	1996	2950	3422	100.0%			30.8%	69.2%		30.8%		
Car	A3	1997	2693	3030	100.0%				100.0%				
Car	A3	1998	2678	3013	100.0%			100.0%			100.0%		
Car	A3	1999	2602	2927	100.0%			100.0%			100.0%		
Car	A3	2000	2587	2911	7.1%			100.0%			100.0%		
Car	A3	2001	2565	2886	100.0%			100.0%			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											
Car	A3	2011											
Car	A3	2012											
Car	A3	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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
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
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
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
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
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
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
Car	A4	1985	200	0.019	24.7	19.8	22.7	21.0	3408	100.5	168	129	12.6	0.790	0.0381	36.3
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
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
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
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
Car	A4	1990	117	0.013	22.7	17.2	21.3	19.0	3652	110.1	175	160	11.5	0.926	0.0434	34.9
Car	A4	1991	131	0.015	23.1	17.3	21.9	19.3	3662	106.2	177	167	11.1	0.970	0.0453	35.6
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
Car	A4	1993	83	0.010	23.6	17.4	22.5	19.6	3853	109.5	186	186	10.9	0.991	0.0474	37.9
Car	A4	1994	65	0.008	23.7	17.2	22.8	19.7	3946	106.1	201	219	9.4	1.098	0.0548	38.9
Car	A4	1995	91	0.010	24.7	17.9	23.7	20.4	3996	103.8	202	217	9.7	1.079	0.0537	41.2
Car	A4	1996	44	0.006	27.1	19.3	26.1	22.3	3720	104.4	171	172	10.9	1.008	0.0460	41.8
Car	A4	1997	1	0.000	22.6	15.7	22.7	18.7	3500	59.9	220	270	7.0	1.227	0.0771	32.8
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
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
Car	A4	2000	70	0.008	28.1	19.0	27.9	23.0	3104	107.6	119	122	12.1	1.031	0.0395	35.6
Car	A4	2001	48	0.006	28.0	18.8	27.7	22.8	3117	107.8	119	121	12.2	1.027	0.0390	35.4
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
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
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
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
Car	A4	2007														
Car	A4	2008														
Car	A4	2009														
Car	A4	2010														
Car	A4	2011														
Car	A4	2012														
Car	A4	2013														

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car	A4	1975											
Car	A4	1976											
Car	A4	1977											
Car	A4	1978	1959	3515				15.1%		48.3%			
Car	A4	1979	2004	3630				23.5%		56.1%			
Car	A4	1980	2129	3763				39.8%		60.2%			
Car	A4	1981	2136	3504				32.1%		26.5%			
Car	A4	1982	2256	3912				32.7%	24.5%	19.4%			
Car	A4	1983	2331	3871	10.1%	4.2%		59.5%		27.5%			
Car	A4	1984	2205	3715				80.0%		20.0%			
Car	A4	1985	2165	3661				82.3%		17.7%			
Car	A4	1986	2105	3647				95.8%		4.2%	0.5%		
Car	A4	1987	2143	3734				87.1%		12.9%	1.1%		
Car	A4	1988	2039	3523	5.9%			99.5%		0.5%	0.8%		
Car	A4	1989	2050	3600	4.0%			99.8%		0.2%	3.1%		
Car	A4	1990	2121	3838	7.5%	0.4%		98.3%		1.7%	4.5%		
Car	A4	1991	2089	3786	11.3%	5.1%		95.4%		4.6%	13.8%		
Car	A4	1992	2094	3877	10.4%	5.0%		96.0%		4.0%	17.7%	20.3%	
Car	A4	1993	2175	4148	10.8%	0.9%		100.0%			41.2%	19.6%	
Car	A4	1994	2118	4136	2.2%	0.0%		98.9%		1.1%	83.4%	25.7%	
Car	A4	1995	2176	4297				93.8%		6.2%	95.3%	27.7%	
Car	A4	1996	2351	4383				94.0%		6.0%	98.2%	2.6%	
Car	A4	1997	1120	1961				100.0%				100.0%	
Car	A4	1998	2608	3773	95.2%			100.0%			35.3%	4.8%	
Car	A4	1999	2525	4022	100.0%			100.0%			100.0%		
Car	A4	2000	2477	3840	100.0%			100.0%			100.0%		
Car	A4	2001	2458	3826	100.0%			100.0%			100.0%		
Car	A4	2002	2421	3740	100.0%			100.0%			100.0%		
Car	A4	2003											
Car	A4	2004	2437	4265	100.0%			100.0%			100.0%		
Car	A4	2005	2430	4252	100.0%			100.0%			100.0%		
Car	A4	2006	2409	4216	100.0%			100.0%			100.0%		
Car	A4	2007											
Car	A4	2008											
Car	A4	2009											
Car	A4	2010											
Car	A4	2011											
Car	A4	2012											
Car	A4	2013											

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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
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
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
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
Car	A5	1994	5	0.001	22.8	16.1	23.3	19.1	4854	102.1	195	217	10.9	1.113	0.0448	46.3
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
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
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
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
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
Car	A5	2000	5	0.001	23.0	15.5	23.2	18.9	3292	59.9	187	255	7.1	1.358	0.0770	31.1
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
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
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
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
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
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
Car	A5	2009	14	0.003	49.5	33.4	40.5	37.1	2000	50.0	61	70	13.3	1.148	0.0350	37.1
Car	A5	2010	3	0.001	49.1	33.3	40.0	36.8	2000	50.0	61	70	13.3	1.148	0.0350	36.8
Car	A5	2011	3	0.001	48.7	33.1	39.5	36.5	2000	50.0	61	70	13.3	1.148	0.0350	36.5
Car	A5	2012	5	0.001	49.5	33.4	37.7	35.7	2000	50.0	61	70	13.3	1.148	0.0350	35.7
Car	A5	2013	6	0.001	50.3	34.5	38.2	36.5	2000	50.0	61	70	13.3	1.148	0.0350	36.5

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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	907	1815				100.0%			100.0%		
Car	A5	1991	921	1842				100.0%			100.0%		
Car	A5	1992	1739	3854				100.0%			100.0%		
Car	A5	1993	1869	4647				100.0%			100.0%		
Car	A5	1994	1941	4780				100.0%			100.0%		
Car	A5	1995	2112	4751				100.0%			100.0%		
Car	A5	1996	2025	4557				100.0%			100.0%		
Car	A5	1997	931	1397				100.0%			100.0%	100.0%	
Car	A5	1998	929	1393				100.0%			100.0%	100.0%	
Car	A5	1999	1158	1906		5.4%		100.0%			100.0%	100.0%	
Car	A5	2000	1133	1882		6.7%		100.0%			100.0%	100.0%	
Car	A5	2001	1158	1949		22.2%		100.0%			100.0%	100.0%	
Car	A5	2002	1184	1990		14.4%		100.0%			100.0%	100.0%	
Car	A5	2003											
Car	A5	2004	1204	2107		28.0%		100.0%			100.0%	100.0%	
Car	A5	2005	1041	1822				100.0%			100.0%	100.0%	
Car	A5	2006	1055	1846				100.0%			100.0%	100.0%	
Car	A5	2007											
Car	A5	2008	1857	1857				100.0%			100.0%	100.0%	
Car	A5	2009	1857	1857				100.0%			100.0%	100.0%	
Car	A5	2010	1841	1841				100.0%			100.0%	100.0%	
Car	A5	2011	1826	1826				100.0%			100.0%	100.0%	
Car	A5	2012	1787	1787				100.0%			100.0%	100.0%	
Car	A5	2013	1824	1824				100.0%			100.0%	100.0%	

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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	0	0.000	13.3	9.3	13.4	11.1	3500	50.0	213	375	5.4	1.761	0.1071	19.5
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
Car	A6	2000														
Car	A6	2001														
Car	A6	2002														
Car	A6	2003														
Car	A6	2004														
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
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
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
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
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
Car	A6	2010	105	0.017	36.2	23.8	33.2	28.4	3552	109.1	126	184	8.8	1.453	0.0515	52.0
Car	A6	2011	16	0.003	44.0	29.8	35.7	32.9	3537	108.7	160	197	8.4	1.182	0.0548	61.4
Car	A6	2012	126	0.017	38.0	25.2	34.4	29.8	3462	108.2	134	185	8.9	1.394	0.0533	52.9
Car	A6	2013	160	0.021	42.6	27.9	38.0	32.9	3238	109.7	115	160	9.8	1.443	0.0498	53.6

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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	557	974				100.0%			100.0%	100.0%	
Car	A6	1999	583	1021				100.0%			100.0%	100.0%	
Car	A6	2000											
Car	A6	2001											
Car	A6	2002											
Car	A6	2003											
Car	A6	2004											
Car	A6	2005	1662	3739				100.0%			100.0%	100.0%	
Car	A6	2006	1616	3531				100.0%			100.0%	100.0%	
Car	A6	2007	1781	4007				100.0%			100.0%	100.0%	
Car	A6	2008	1621	3641				100.0%			100.0%	100.0%	
Car	A6	2009	1356	2963				100.0%			100.0%	100.0%	
Car	A6	2010	3234	5709	94.8%	3.8%	55.1%	2.9%		42.0%	100.0%	60.1%	
Car	A6	2011	3899	6838	91.7%	6.8%	6.8%	93.2%			100.0%	100.0%	91.7%
Car	A6	2012	3353	5755	98.0%		60.1%	26.2%		13.7%	100.0%	86.3%	24.2%
Car	A6	2013	3624	5895	100.0%		57.3%	42.7%			100.0%	100.0%	13.7%

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
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
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
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
Car	A7	2012	12	0.002	23.9	15.9	23.0	19.3	3823	78.6	228	396	5.8	1.733	0.1041	37.6
Car	A7	2013	20	0.003	24.8	16.5	23.7	20.0	3872	79.2	231	416	5.6	1.782	0.1065	39.3

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
Car	A7	2003											
Car	A7	2004											
Car	A7	2005											
Car	A7	2006											
Car	A7	2007											
Car	A7	2008											
Car	A7	2009	1652	2965		32.9%	100.0%				100.0%	100.0%	
Car	A7	2010	1326	2440		14.3%	84.4%	15.6%			100.0%	100.0%	
Car	A7	2011	1615	3222			60.4%	39.6%			100.0%	100.0%	
Car	A7	2012	1566	2982		4.5%	81.5%	18.5%			100.0%	100.0%	
Car	A7	2013	1591	3087		7.9%	93.5%	6.5%			100.0%	100.0%	

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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
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
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
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
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
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
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
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
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
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
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
Car	CVT	2002	35	0.004	43.4	31.0	35.5	33.4	3086	98.3	103	101	15.5	0.947	0.0317	55.1
Car	CVT	2003	74	0.009	41.3	28.7	34.8	31.8	3126	98.5	105	115	11.2	1.076	0.0359	52.6
Car	CVT	2004	102	0.014	46.7	32.6	37.5	35.2	3068	104.7	100	103	10.8	1.012	0.0331	58.0
Car	CVT	2005	208	0.026	45.5	31.5	36.3	34.1	3225	111.5	109	110	10.2	0.971	0.0327	59.7
Car	CVT	2006	194	0.024	42.5	29.1	35.2	32.3	3312	111.6	115	125	10.2	1.067	0.0363	58.1
Car	CVT	2007	838	0.104	37.9	26.1	31.8	29.0	3410	112.6	134	155	9.9	1.144	0.0446	51.9
Car	CVT	2008	842	0.115	38.4	26.3	32.5	29.5	3343	111.7	133	152	9.9	1.128	0.0448	51.6
Car	CVT	2009	611	0.108	37.6	25.7	31.9	28.9	3428	111.4	139	162	9.8	1.147	0.0465	51.3
Car	CVT	2010	893	0.148	42.4	29.0	35.1	32.2	3473	112.2	134	151	9.9	1.104	0.0432	60.3
Car	CVT	2011	731	0.128	39.8	27.1	33.7	30.5	3456	110.4	137	160	9.8	1.164	0.0459	55.9
Car	CVT	2012	1125	0.153	41.6	28.3	34.9	31.7	3380	111.9	133	150	10.1	1.119	0.0441	56.4
Car	CVT	2013	1419	0.183	45.5	30.2	37.7	34.1	3430	112.3	133	157	9.8	1.164	0.0455	61.3

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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	2906	3269	100.0%						100.0%		
Car	CVT	1990	2744	3154	30.8%	69.2%		100.0%			100.0%		
Car	CVT	1991	2696	3087		100.0%		100.0%			100.0%		
Car	CVT	1992	2800	3209	54.5%	45.5%		100.0%			100.0%		
Car	CVT	1993	2658	3044		100.0%		100.0%			100.0%		
Car	CVT	1994											
Car	CVT	1995											
Car	CVT	1996	3136	4312	100.0%			100.0%			100.0%	100.0%	
Car	CVT	1997	3314	4557	100.0%			100.0%			100.0%	100.0%	
Car	CVT	1998	3257	4478	100.0%			100.0%			100.0%	100.0%	
Car	CVT	1999	3195	4393	100.0%			100.0%			100.0%	100.0%	
Car	CVT	2000	3184	4377	100.0%			100.0%			100.0%	100.0%	
Car	CVT	2001	4063	5989	100.0%			100.0%			100.0%	100.0%	8.1%
Car	CVT	2002	3553	5423	100.0%			100.0%			100.0%	69.9%	68.4%
Car	CVT	2003	3379	5204	100.0%			100.0%			64.2%	55.9%	55.4%
Car	CVT	2004	4056	6159	100.0%			100.0%			82.2%	65.2%	65.0%
Car	CVT	2005	4236	6643	84.4%	15.6%		100.0%			89.3%	69.7%	69.0%
Car	CVT	2006	4026	6448	87.7%	12.3%		100.0%			83.9%	65.9%	61.3%
Car	CVT	2007	3477	5833	96.7%	3.3%		100.0%			96.1%	96.6%	31.9%
Car	CVT	2008	3498	5756	99.6%	0.4%	1.9%	98.1%			96.2%	94.2%	29.0%
Car	CVT	2009	3378	5713	100.0%		1.1%	98.9%			96.9%	99.0%	26.2%
Car	CVT	2010	3918	6798	95.9%	4.1%	1.1%	98.9%			94.2%	100.0%	41.2%
Car	CVT	2011	3587	6197	89.8%	10.1%	6.9%	93.1%			98.0%	98.5%	28.9%
Car	CVT	2012	3756	6339	89.4%	10.6%	4.0%	96.0%			98.4%	98.8%	30.4%
Car	CVT	2013	4023	6913	91.9%	8.0%	18.8%	81.2%			98.1%	100.0%	31.4%

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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
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
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
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														
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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	L2	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car	L2	1975											
Car	L2	1976											
Car	L2	1977											
Car	L2	1978	2097	2272	100.0%								
Car	L2	1979	1882	2208	100.0%								
Car	L2	1980	2312	2405	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											
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Car	L2	1998											
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	L2	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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
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
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
Car	L3	1981	2261	0.259	22.4	17.4	21.8	19.1	3641	115.3	254	115	14.6	0.466	0.0317	35.1
Car	L3	1982	3031	0.388	24.4	18.7	24.0	20.8	3265	111.6	204	105	14.4	0.549	0.0322	34.2
Car	L3	1983	2832	0.354	24.4	18.8	24.0	20.8	3235	112.1	202	108	14.0	0.563	0.0331	33.9
Car	L3	1984	3927	0.368	25.5	19.6	25.1	21.7	3184	111.1	190	106	14.0	0.594	0.0332	34.7
Car	L3	1985	3203	0.297	26.8	20.6	26.5	22.9	3104	109.6	180	104	13.9	0.611	0.0333	35.6
Car	L3	1986	2990	0.271	27.7	21.2	27.1	23.5	3022	107.5	167	100	14.0	0.633	0.0331	35.6
Car	L3	1987	2679	0.250	29.1	22.2	28.2	24.6	2925	107.0	151	99	13.9	0.684	0.0335	36.1
Car	L3	1988	3028	0.282	29.8	22.7	28.7	25.1	2866	105.8	140	101	13.5	0.736	0.0350	36.1
Car	L3	1989	2467	0.246	30.0	22.6	28.9	25.2	2865	104.8	138	105	13.1	0.775	0.0365	36.1
Car	L3	1990	1980	0.225	29.7	22.1	28.7	24.9	2913	104.1	139	111	12.7	0.814	0.0379	36.3
Car	L3	1991	1765	0.207	29.1	21.5	28.2	24.3	2918	104.1	144	114	12.4	0.806	0.0389	35.5
Car	L3	1992	1635	0.202	28.5	20.8	27.8	23.7	3003	104.0	151	123	11.9	0.833	0.0409	35.7
Car	L3	1993	1421	0.168	28.4	20.6	27.8	23.6	3020	105.0	158	126	11.8	0.808	0.0414	35.7
Car	L3	1994	899	0.107	30.2	22.0	28.6	24.9	2901	102.2	132	110	12.5	0.852	0.0380	36.1
Car	L3	1995	893	0.095	31.3	22.6	29.4	25.7	2843	103.1	124	121	11.5	0.982	0.0427	36.5
Car	L3	1996	671	0.085	31.6	22.9	29.3	25.8	2826	101.6	120	122	11.5	1.020	0.0431	36.4
Car	L3	1997	611	0.073	31.3	22.6	28.5	25.4	2817	99.8	116	114	12.0	0.988	0.0405	35.8
Car	L3	1998	438	0.055	31.3	22.1	29.1	25.3	2842	100.8	123	125	11.1	1.016	0.0440	36.0
Car	L3	1999	359	0.043	31.6	22.4	28.8	25.4	2853	100.2	122	122	11.3	1.010	0.0429	36.4
Car	L3	2000	505	0.055	31.2	22.0	28.3	25.0	2924	101.4	124	126	11.2	1.025	0.0433	36.5
Car	L3	2001	289	0.034	32.7	22.9	29.3	26.0	2909	102.0	120	127	11.1	1.065	0.0437	37.9
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
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	L3	2013														

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car	L3	1975											
Car	L3	1976											
Car	L3	1977											
Car	L3	1978	1701	3486									
Car	L3	1979	1842	3507									
Car	L3	1980	2020	3826	2.0%					8.3%			
Car	L3	1981	2235	4086		0.7%			0.3%	11.9%			
Car	L3	1982	2358	3838	33.0%	0.7%		2.0%	15.7%	5.2%			
Car	L3	1983	2372	3803	41.4%	1.3%		1.0%	21.8%	1.4%			
Car	L3	1984	2447	3858	51.2%	1.0%		6.5%	31.0%	0.7%			
Car	L3	1985	2543	3910	59.5%	1.3%		7.0%	49.2%	0.1%			
Car	L3	1986	2563	3841	72.1%			9.7%	61.8%				
Car	L3	1987	2659	3866	88.4%			14.4%	56.2%		5.5%		
Car	L3	1988	2679	3825	97.7%			25.3%	58.8%		12.1%		
Car	L3	1989	2649	3789	99.2%	0.1%		27.8%	60.3%		18.8%		
Car	L3	1990	2597	3778	99.9%	0.1%		42.1%	56.0%		24.9%		
Car	L3	1991	2538	3700	100.0%			43.2%	56.8%		18.7%	1.5%	
Car	L3	1992	2478	3714	100.0%			79.2%	20.8%		20.0%	1.2%	
Car	L3	1993	2488	3751	100.0%			80.4%	19.6%		9.4%		
Car	L3	1994	2549	3693	100.0%			78.3%	21.7%		18.2%		
Car	L3	1995	2650	3764	100.0%			96.9%	3.1%		59.3%		
Car	L3	1996	2623	3704	100.0%			100.0%			52.9%		
Car	L3	1997	2533	3567	100.0%			100.0%			60.8%		
Car	L3	1998	2560	3631	100.0%			100.0%			62.0%		
Car	L3	1999	2560	3643	100.0%			100.0%			56.9%		
Car	L3	2000	2539	3706	94.5%			100.0%			63.0%	17.0%	
Car	L3	2001	2666	3870	87.2%			100.0%			80.6%	36.2%	
Car	L3	2002	2818	3875	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	L3	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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
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
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
Car	L4	1983	1708	0.213	21.4	16.0	22.0	18.3	3823	123.3	267	135	13.3	0.523	0.0352	35.1
Car	L4	1984	2296	0.215	21.9	16.4	22.5	18.7	3736	118.3	261	134	13.1	0.542	0.0360	35.1
Car	L4	1985	3127	0.290	23.1	17.3	23.9	19.8	3633	119.4	247	137	12.7	0.583	0.0378	36.0
Car	L4	1986	3401	0.309	25.0	18.5	26.0	21.3	3478	117.2	224	138	12.2	0.652	0.0395	37.1
Car	L4	1987	3702	0.345	25.3	18.7	26.1	21.5	3445	115.1	212	138	12.1	0.693	0.0399	37.0
Car	L4	1988	4069	0.379	25.8	18.9	26.5	21.8	3464	115.4	210	141	11.9	0.714	0.0405	37.9
Car	L4	1989	4475	0.447	25.7	18.8	26.4	21.7	3442	114.9	202	141	11.9	0.741	0.0410	37.5
Car	L4	1990	4442	0.504	25.8	18.8	26.3	21.8	3466	113.4	193	144	11.7	0.790	0.0416	37.7
Car	L4	1991	4505	0.528	26.4	19.1	26.6	22.1	3407	112.9	189	148	11.4	0.823	0.0431	37.7
Car	L4	1992	4560	0.562	26.1	18.6	26.5	21.8	3491	114.4	195	156	11.2	0.841	0.0443	38.1
Car	L4	1993	5077	0.600	26.9	19.2	27.1	22.5	3407	113.3	184	150	11.3	0.853	0.0436	38.3
Car	L4	1994	5748	0.683	26.7	18.9	26.8	22.2	3420	112.2	185	154	11.1	0.865	0.0446	38.0
Car	L4	1995	6773	0.721	27.2	19.0	27.3	22.5	3397	111.9	181	161	10.7	0.919	0.0469	38.3
Car	L4	1996	5895	0.747	27.2	18.9	27.2	22.5	3408	112.0	178	162	10.6	0.937	0.0471	38.3
Car	L4	1997	6393	0.767	27.6	19.1	27.4	22.7	3371	111.5	174	163	10.6	0.958	0.0477	38.3
Car	L4	1998	6260	0.785	27.9	19.3	27.6	22.9	3368	110.9	170	162	10.6	0.975	0.0476	38.7
Car	L4	1999	6686	0.798	27.8	19.0	27.3	22.7	3417	111.4	171	166	10.5	0.988	0.0480	38.8
Car	L4	2000	6876	0.754	27.9	19.0	27.2	22.7	3416	112.1	170	169	10.4	1.011	0.0490	38.9
Car	L4	2001	6238	0.742	28.4	19.3	27.5	23.0	3397	111.8	168	166	10.4	1.005	0.0484	39.2
Car	L4	2002	6275	0.756	28.8	19.5	27.4	23.2	3376	112.3	167	168	10.3	1.027	0.0492	39.3
Car	L4	2003	5300	0.669	29.3	19.7	27.8	23.5	3380	112.7	165	165	10.3	1.026	0.0485	39.8
Car	L4	2004	4840	0.642	29.3	19.6	27.8	23.5	3406	113.5	168	171	10.1	1.046	0.0497	40.0
Car	L4	2005	4656	0.580	30.2	20.1	28.0	24.0	3356	113.6	160	167	10.2	1.068	0.0491	40.2
Car	L4	2006	3780	0.473	29.9	19.9	27.9	23.8	3416	114.8	164	172	10.1	1.080	0.0499	40.6
Car	L4	2007	3010	0.372	31.0	20.5	28.9	24.6	3340	111.5	158	165	10.2	1.074	0.0489	41.1
Car	L4	2008	2902	0.397	30.7	20.3	28.7	24.4	3432	111.9	160	171	10.2	1.091	0.0492	41.9
Car	L4	2009	2051	0.364	33.1	22.0	30.3	26.1	3303	110.6	144	159	10.5	1.124	0.0475	43.2
Car	L4	2010	1971	0.326	34.3	22.8	31.1	26.9	3253	110.9	140	156	10.5	1.136	0.0474	43.8
Car	L4	2011	973	0.170	33.5	22.3	30.8	26.5	3312	113.5	148	156	10.7	1.094	0.0465	43.8
Car	L4	2012	495	0.067	36.3	24.3	32.2	28.3	3099	108.2	118	137	11.1	1.163	0.0441	43.8
Car	L4	2013	419	0.054	37.1	24.9	32.6	28.8	3024	106.2	114	135	11.1	1.179	0.0442	43.5

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car	L4	1975											
Car	L4	1976											
Car	L4	1977											
Car	L4	1978											
Car	L4	1979											
Car	L4	1980	2114	4220					8.9%				
Car	L4	1981	2247	4508					10.4%				
Car	L4	1982	2225	4495	14.8%			2.3%	19.7%	4.6%			
Car	L4	1983	2269	4333	17.5%			6.6%	37.0%	1.9%			
Car	L4	1984	2234	4173	18.2%			14.5%	35.8%	0.8%			
Car	L4	1985	2382	4319	42.4%	1.3%		28.5%	31.5%	0.5%			
Car	L4	1986	2513	4365	57.3%	0.0%		62.3%	6.7%	0.1%	5.2%		
Car	L4	1987	2489	4280	62.2%	0.0%		69.6%	11.6%		17.1%		
Car	L4	1988	2536	4389	66.4%	0.1%		79.9%	9.7%		20.2%		
Car	L4	1989	2508	4317	72.0%	0.3%		84.2%	10.8%		22.3%		
Car	L4	1990	2479	4290	78.2%	0.8%		95.2%	4.0%		29.2%	1.2%	
Car	L4	1991	2517	4271	76.9%	1.2%		91.9%	8.1%		31.5%	2.7%	
Car	L4	1992	2516	4379	72.5%	0.7%		94.8%	5.2%		33.9%	4.8%	
Car	L4	1993	2566	4349	80.2%	1.3%		96.3%	3.7%		38.9%	5.2%	
Car	L4	1994	2511	4273	81.8%	0.4%		99.0%	1.0%		39.9%	8.0%	
Car	L4	1995	2542	4291	80.5%	1.1%		100.0%			46.8%	10.0%	
Car	L4	1996	2530	4295	86.3%	1.3%		100.0%			55.5%	11.5%	
Car	L4	1997	2550	4278	87.5%	1.5%		100.0%			56.2%	10.3%	
Car	L4	1998	2560	4292	90.2%	1.7%		100.0%		0.0%	58.4%	16.8%	
Car	L4	1999	2545	4332	91.3%	1.5%		100.0%		0.0%	62.2%	14.9%	
Car	L4	2000	2565	4366	91.3%	1.5%		100.0%			61.6%	19.6%	
Car	L4	2001	2597	4390	92.4%	1.4%		99.9%		0.1%	61.1%	22.4%	
Car	L4	2002	2626	4418	94.0%	1.5%		99.7%		0.3%	63.7%	28.5%	
Car	L4	2003	2675	4500	91.8%	2.0%		99.8%		0.2%	64.4%	32.7%	
Car	L4	2004	2685	4551	90.7%	2.8%		100.0%			67.8%	32.0%	
Car	L4	2005	2742	4580	90.2%	3.1%		100.0%			69.3%	37.9%	
Car	L4	2006	2750	4674	90.8%	3.2%		100.0%			69.5%	42.6%	
Car	L4	2007	2776	4593	94.6%	2.5%		100.0%			67.5%	47.2%	0.0%
Car	L4	2008	2762	4695	86.9%	4.1%		100.0%			74.9%	48.0%	0.1%
Car	L4	2009	2919	4781	89.6%	5.2%	0.1%	99.9%			83.8%	71.6%	0.3%
Car	L4	2010	3012	4859	90.1%	1.6%	0.0%	100.0%			89.0%	81.5%	0.0%
Car	L4	2011	3031	4975	92.7%	2.8%		100.0%			74.6%	84.6%	
Car	L4	2012	3069	4737	99.8%	0.2%		100.0%			100.0%	98.7%	
Car	L4	2013	3072	4620	99.9%	0.1%		100.0%			100.0%	100.0%	

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
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
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
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
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
Car	L5	1997	150	0.018	24.5	17.0	24.4	20.3	4027	107.3	217	236	9.0	1.097	0.0582	40.9
Car	L5	1998	261	0.033	25.3	17.5	24.9	20.8	3923	105.7	202	233	8.9	1.165	0.0590	41.0
Car	L5	1999	363	0.043	25.4	17.4	25.2	20.9	3826	106.2	187	223	9.1	1.214	0.0578	40.0
Car	L5	2000	622	0.068	24.7	16.8	24.3	20.2	3822	109.7	195	222	9.1	1.151	0.0576	38.7
Car	L5	2001	829	0.099	24.9	17.0	24.2	20.3	3792	108.3	186	220	9.0	1.210	0.0578	38.6
Car	L5	2002	950	0.114	25.5	17.3	24.7	20.7	3788	106.2	184	219	9.0	1.218	0.0575	39.3
Car	L5	2003	1591	0.201	26.9	18.0	26.1	21.8	3655	106.4	177	211	9.1	1.210	0.0576	40.0
Car	L5	2004	1603	0.213	27.2	18.1	26.2	21.9	3704	107.6	174	211	9.2	1.222	0.0568	40.8
Car	L5	2005	2046	0.255	27.5	18.2	26.5	22.1	3749	111.0	186	216	9.2	1.174	0.0570	41.8
Car	L5	2006	2247	0.281	28.3	18.7	27.0	22.6	3716	112.5	189	220	9.0	1.184	0.0584	42.5
Car	L5	2007	2242	0.277	29.6	19.5	28.1	23.6	3597	111.2	169	198	9.6	1.182	0.0542	42.8
Car	L5	2008	1559	0.213	30.7	20.2	28.9	24.4	3549	110.7	163	197	9.5	1.221	0.0546	43.6
Car	L5	2009	1506	0.267	32.4	21.2	30.5	25.6	3473	113.2	151	179	10.0	1.198	0.0509	44.6
Car	L5	2010	1110	0.183	32.8	21.6	30.7	26.0	3417	110.1	154	187	9.5	1.238	0.0539	44.6
Car	L5	2011	642	0.112	33.3	21.8	31.7	26.5	3467	112.0	158	195	9.4	1.246	0.0550	46.0
Car	L5	2012	994	0.135	36.3	23.6	34.1	28.6	3343	109.9	144	179	9.9	1.249	0.0523	48.1
Car	L5	2013	561	0.073	36.0	23.5	33.3	28.3	3280	109.6	148	181	9.9	1.245	0.0531	46.8

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
Car	L5	1993	2017	4286				100.0%			100.0%		
Car	L5	1994	2013	4035				100.0%			100.0%	35.2%	
Car	L5	1995	2086	4493				100.0%			98.0%	21.5%	
Car	L5	1996	1972	4236	16.2%	11.4%		100.0%			67.8%	72.4%	
Car	L5	1997	2196	4401	2.0%	5.4%		98.2%		1.8%	97.4%	46.4%	
Car	L5	1998	2216	4335	7.5%	10.6%		98.7%		1.3%	99.6%	56.2%	
Car	L5	1999	2232	4258	17.3%	11.7%		98.7%		1.3%	99.2%	50.1%	
Car	L5	2000	2234	4250	26.8%	6.6%		98.9%		1.1%	96.3%	54.9%	
Car	L5	2001	2208	4185	31.8%	13.1%		100.0%			99.9%	61.1%	
Car	L5	2002	2218	4187	38.0%	14.3%		100.0%			100.0%	57.8%	
Car	L5	2003	2353	4276	55.5%	7.5%		100.0%			99.2%	66.4%	
Car	L5	2004	2387	4402	65.0%	11.8%		99.4%		0.6%	99.4%	73.6%	
Car	L5	2005	2498	4658	64.3%	8.9%		98.9%		1.1%	91.1%	79.2%	0.9%
Car	L5	2006	2595	4780	68.3%	6.6%		99.7%		0.3%	90.1%	81.6%	0.2%
Car	L5	2007	2676	4771	76.6%	5.0%	0.1%	99.9%			93.7%	82.5%	0.2%
Car	L5	2008	2756	4839	81.9%	5.5%		100.0%			95.3%	80.4%	
Car	L5	2009	2931	5056	93.0%	2.1%	0.1%	99.9%			96.5%	89.3%	
Car	L5	2010	2906	4912	87.2%	2.7%		100.0%			93.5%	93.0%	
Car	L5	2011	3006	5159	83.4%	1.9%		100.0%			95.0%	94.8%	
Car	L5	2012	3189	5276	90.1%	0.7%		100.0%			96.0%	99.2%	
Car	L5	2013	3190	5122	81.9%	2.0%		100.0%			89.6%	98.5%	

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
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
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
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
Car	L6	2003	71	0.009	24.4	16.3	23.9	19.8	3980	101.7	206	263	8.7	1.269	0.0651	39.7
Car	L6	2004	172	0.023	24.6	16.3	24.3	20.0	3996	109.1	216	264	8.5	1.218	0.0653	40.1
Car	L6	2005	322	0.040	26.2	17.3	25.2	21.1	3897	113.0	193	229	9.2	1.179	0.0578	41.3
Car	L6	2006	851	0.106	27.6	18.2	26.4	22.1	3745	107.0	183	224	9.0	1.239	0.0595	41.7
Car	L6	2007	1100	0.136	27.3	18.0	26.3	21.9	3871	110.2	194	242	8.6	1.255	0.0622	42.6
Car	L6	2008	1197	0.164	27.2	17.9	26.4	21.9	3880	109.5	194	249	8.4	1.298	0.0639	42.7
Car	L6	2009	882	0.156	28.2	18.6	27.1	22.6	3838	109.3	188	239	8.5	1.290	0.0618	43.8
Car	L6	2010	1406	0.232	29.8	19.5	28.6	23.8	3738	112.1	181	226	8.8	1.252	0.0599	44.7
Car	L6	2011	2680	0.468	32.0	20.9	30.7	25.6	3632	112.2	163	210	9.2	1.299	0.0570	46.7
Car	L6	2012	3712	0.503	34.4	22.4	32.5	27.2	3474	112.1	151	194	9.5	1.299	0.0551	47.7
Car	L6	2013	3846	0.497	34.2	22.4	32.5	27.2	3543		150	203	9.3	1.374	0.0566	48.5

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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	606	1060				100.0%			100.0%	100.0%	
Car	L6	2001	605	1058				100.0%			100.0%	100.0%	
Car	L6	2002	2153	4743				100.0%			100.0%	100.0%	
Car	L6	2003	2024	4081	25.0%			100.0%			83.2%	75.0%	
Car	L6	2004	2199	4410	14.2%	8.4%		99.4%		0.6%	91.0%	84.7%	
Car	L6	2005	2417	4702	55.8%	11.9%		98.7%		1.3%	92.3%	43.4%	
Car	L6	2006	2396	4483	48.7%	10.6%		96.7%		3.3%	94.1%	73.2%	
Car	L6	2007	2431	4717	60.5%	14.7%	0.8%	99.2%			97.8%	59.0%	0.3%
Car	L6	2008	2419	4696	55.1%	18.6%	14.7%	85.3%			97.9%	59.9%	0.1%
Car	L6	2009	2512	4801	59.0%	17.0%	22.4%	74.2%		3.4%	97.1%	70.2%	0.1%
Car	L6	2010	2704	5024	72.6%	10.4%	19.3%	80.6%		0.1%	96.9%	98.8%	
Car	L6	2011	2920	5253	81.5%	5.8%	26.8%	71.4%		1.8%	98.1%	96.0%	
Car	L6	2012	3111	5351	91.3%	2.8%	36.7%	62.0%		1.3%	98.7%	97.8%	0.5%
Car	L6	2013			88.4%	4.2%	44.7%	53.0%		2.3%	99.1%	97.2%	1.9%

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
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	0.005	21.9	14.6	21.6	17.9	4161	93.4	296	298	7.5	1.006	0.0718	37.3
Car	L7	2005	39	0.005	22.9	15.2	22.5	18.6	3951	79.1	279	293	7.3	1.066	0.0745	36.8
Car	L7	2006	166	0.021	23.7	15.8	22.7	19.1	4171	111.0	226	268	8.3	1.211	0.0650	40.1
Car	L7	2007	170	0.021	23.0	15.3	22.4	18.6	4295	108.8	246	300	7.9	1.236	0.0698	40.2
Car	L7	2008	178	0.024	23.9	15.8	23.0	19.3	4227	106.5	239	295	7.8	1.240	0.0695	41.1
Car	L7	2009	174	0.031	25.1	16.6	24.1	20.2	4093	99.3	229	299	7.5	1.315	0.0731	41.6
Car	L7	2010	200	0.033	25.1	16.7	24.0	20.2	4157	104.7	227	296	7.7	1.306	0.0710	42.1
Car	L7	2011	246	0.043	25.8	17.2	24.7	20.8	4142	102.5	220	291	7.7	1.328	0.0703	43.2
Car	L7	2012	248	0.034	27.9	18.4	26.8	22.4	4094	103.5	203	297	7.7	1.491	0.0722	46.1
Car	L7	2013	309	0.040	28.4	18.7	27.3	22.8	4146	102.0	212	312	7.4	1.497	0.0751	47.6

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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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	1684	3547				100.0%			100.0%		
Car	L7	2005	1469	2965				100.0%			100.0%	26.1%	
Car	L7	2006	2136	4522		11.7%		100.0%			100.0%	71.5%	
Car	L7	2007	2039	4423		12.7%		97.7%		2.3%	100.0%	38.3%	
Car	L7	2008	2070	4402		23.4%		97.4%		2.6%	100.0%	24.4%	
Car	L7	2009	2024	4154		28.9%	1.1%	98.0%		0.9%	100.0%	72.6%	
Car	L7	2010	2121	4413		39.8%	4.9%	95.1%			100.0%	100.0%	0.7%
Car	L7	2011	2139	4440		44.2%	8.0%	90.6%		1.4%	100.0%	100.0%	0.1%
Car	L7	2012	2339	4799		40.9%	54.5%	44.2%		1.3%	100.0%	98.7%	0.4%
Car	L7	2013	2350	4882	0.6%	42.6%	74.7%	24.7%		0.6%	100.0%	99.4%	1.1%

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
Car	L8	1987														
Car	L8	1988														
Car	L8	1989														
Car	L8	1990														
Car	L8	1991														
Car	L8	1992														
Car	L8	1993														
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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
Car	L8	2008	33	0.005	24.7	16.4	23.9	19.9	4497	113.8	284	382	6.4	1.343	0.0853	44.9
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
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
Car	L8	2011	111	0.019	29.3	19.3	28.4	23.6	4323	112.4	189	292	8.0	1.576	0.0670	51.4
Car	L8	2012	249	0.034	29.6	19.3	28.9	23.8	4111	115.8	194	301	7.6	1.606	0.0728	49.2
Car	L8	2013	393	0.051	29.7	19.3	29.0	23.9	4100	113.8	181	296	7.7	1.698	0.0717	49.3

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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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	2360	5309				100.0%			100.0%	100.0%	
Car	L8	2008	2272	5120		6.3%	8.4%	91.6%			100.0%	100.0%	6.3%
Car	L8	2009	2251	5290		42.6%	6.6%	93.4%			100.0%	100.0%	2.2%
Car	L8	2010	2303	5427		32.1%	21.2%	78.8%			100.0%	100.0%	
Car	L8	2011	2684	5786		53.8%	82.1%	17.9%			99.8%	100.0%	0.5%
Car	L8	2012	2780	5692		37.0%	65.9%	34.1%			99.9%	100.0%	0.3%
Car	L8	2013	2751	5613		40.2%	69.3%	30.7%			99.9%	100.0%	0.7%

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car	M3	1975														
Car	M3	1976														
Car	M3	1977														
Car	M3	1978	47	0.004	22.3	17.3	21.6	19.0	3441	113.5	219	100	15.0	0.459	0.0293	32.7
Car	M3	1979	23	0.002	22.1	17.4	20.9	18.8	3584	111.7	224	102	15.2	0.458	0.0286	33.8
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
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
Car	M3	1982														
Car	M3	1983														
Car	M3	1984														
Car	M3	1985														
Car	M3	1986														
Car	M3	1987														
Car	M3	1988														
Car	M3	1989														
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Car	M3	2006														
Car	M3	2007														
Car	M3	2008														
Car	M3	2009														
Car	M3	2010														
Car	M3	2011														
Car	M3	2012														
Car	M3	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car	M3	1975											
Car	M3	1976											
Car	M3	1977											
Car	M3	1978	2173	3708									
Car	M3	1979	2122	3783									
Car	M3	1980	1964	3464									
Car	M3	1981	1892	3311									
Car	M3	1982											
Car	M3	1983											
Car	M3	1984											
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											
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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	M3	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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
Car	M4	1979	1509	0.140	26.8	20.7	26.2	22.8	2606	89.9	124	83	14.5	0.696	0.0313	30.1
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
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
Car	M4	1982	1074	0.137	31.3	24.0	31.1	26.7	2557	94.7	117	77	14.9	0.675	0.0299	34.5
Car	M4	1983	542	0.068	33.7	26.1	32.7	28.7	2494	98.6	112	75	14.9	0.682	0.0299	36.3
Car	M4	1984	668	0.063	35.1	27.2	34.2	30.0	2505	93.6	112	77	14.7	0.695	0.0306	38.0
Car	M4	1985	444	0.041	36.4	28.2	35.4	31.0	2508	98.5	110	81	14.2	0.733	0.0319	39.3
Car	M4	1986	489	0.044	34.9	26.9	33.6	29.6	2535	95.5	114	83	14.1	0.738	0.0324	38.2
Car	M4	1987	344	0.032	35.9	28.0	33.3	30.2	2417	94.4	100	77	14.4	0.769	0.0314	37.2
Car	M4	1988	487	0.045	37.1	29.0	33.9	31.1	2354	96.4	97	74	14.4	0.761	0.0311	37.0
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
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
Car	M4	1991	143	0.017	38.8	29.8	34.7	32.0	2417	97.2	92	89	12.5	0.975	0.0370	38.7
Car	M4	1992	107	0.013	38.5	29.1	34.7	31.6	2376	96.4	92	88	12.5	0.963	0.0372	37.6
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
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
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
Car	M4	1996	20	0.003	42.6	30.9	37.8	34.2	2250	90.0	91	93	11.4	1.022	0.0413	38.5
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	M4	2013														

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car	M4	1975											
Car	M4	1976											
Car	M4	1977											
Car	M4	1978	2208	2753	44.2%			21.2%		3.7%			
Car	M4	1979	2133	2723	32.0%	2.5%		9.8%		2.7%			
Car	M4	1980	2307	2944	47.2%	2.6%		8.3%		7.7%			
Car	M4	1981	2697	3329	62.3%	3.4%		4.3%		6.9%			
Car	M4	1982	2596	3272	69.6%	3.7%		4.4%	3.6%	3.5%			
Car	M4	1983	2912	3578	65.4%	7.8%		7.5%	13.0%	3.5%			
Car	M4	1984	2902	3568	61.2%	5.5%		5.7%	28.8%	3.7%			
Car	M4	1985	3148	3886	74.5%	0.8%		9.0%	18.4%	0.4%			
Car	M4	1986	2944	3676	74.2%	0.9%		14.4%	9.1%	0.1%	0.2%		
Car	M4	1987	2944	3526	92.0%	1.0%		14.2%	31.2%		22.8%		
Car	M4	1988	3066	3579	97.9%	0.6%		19.5%	36.1%		18.1%		
Car	M4	1989	3165	3742	99.3%	0.3%		20.9%	44.7%		35.5%		
Car	M4	1990	3057	3761	99.6%			31.9%	58.4%		57.4%		
Car	M4	1991	3121	3769	100.0%			69.5%	30.1%		78.7%	11.0%	
Car	M4	1992	3052	3623	100.0%			97.5%	2.5%		80.8%	20.0%	
Car	M4	1993	3033	3499	100.0%			95.8%	4.2%		76.7%		
Car	M4	1994	3029	3408	100.0%			100.0%			100.0%		
Car	M4	1995	3088	3474	100.0%			100.0%			100.0%		
Car	M4	1996	3077	3461	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											
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Car	M4	2006											
Car	M4	2007											
Car	M4	2008											
Car	M4	2009											
Car	M4	2010											
Car	M4	2011											
Car	M4	2012											
Car	M4	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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
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
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
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
Car	M5	1982	1210	0.155	32.3	25.1	31.2	27.5	2519	89.8	114	81	14.3	0.710	0.0318	35.2
Car	M5	1983	1543	0.193	31.9	24.6	31.4	27.3	2583	93.3	120	87	13.9	0.732	0.0331	35.8
Car	M5	1984	1908	0.179	31.5	24.2	31.1	26.9	2646	94.3	125	94	13.4	0.757	0.0349	36.3
Car	M5	1985	2019	0.187	32.1	24.6	31.7	27.4	2629	93.8	122	96	13.1	0.791	0.0358	36.5
Car	M5	1986	2239	0.203	32.2	24.7	31.6	27.4	2684	96.0	122	97	13.2	0.805	0.0356	37.3
Car	M5	1987	2328	0.217	31.9	24.2	31.2	27.0	2719	95.5	122	99	13.2	0.821	0.0358	37.1
Car	M5	1988	2117	0.197	32.3	24.3	31.4	27.2	2738	96.8	122	104	12.8	0.852	0.0370	37.7
Car	M5	1989	1784	0.178	31.8	23.8	31.0	26.7	2786	98.0	125	108	12.4	0.883	0.0382	37.6
Car	M5	1990	1528	0.173	31.2	23.2	30.0	26.1	2834	95.9	125	118	11.8	0.967	0.0410	37.3
Car	M5	1991	1599	0.188	32.3	23.9	30.8	26.9	2796	95.7	121	117	11.9	0.974	0.0409	38.0
Car	M5	1992	1299	0.160	32.5	23.8	31.2	26.9	2813	96.7	122	121	11.6	1.009	0.0423	38.4
Car	M5	1993	1416	0.167	33.3	24.2	31.7	27.5	2771	97.1	120	117	11.8	0.978	0.0415	38.6
Car	M5	1994	1329	0.158	33.4	24.1	31.8	27.5	2831	97.8	123	119	11.7	0.986	0.0414	39.4
Car	M5	1995	1476	0.157	33.2	23.7	31.8	27.3	2869	99.2	125	126	11.3	1.026	0.0433	39.5
Car	M5	1996	1125	0.143	33.2	23.5	31.8	27.2	2912	100.1	128	130	11.1	1.029	0.0441	39.9
Car	M5	1997	1096	0.132	33.3	23.4	31.7	27.1	2897	98.7	125	129	11.1	1.048	0.0441	39.6
Car	M5	1998	955	0.120	32.9	22.9	31.2	26.7	2961	99.6	130	134	10.9	1.052	0.0448	39.9
Car	M5	1999	870	0.104	32.0	22.2	30.1	25.9	3001	98.7	131	139	10.7	1.079	0.0460	39.1
Car	M5	2000	941	0.103	31.8	22.0	29.7	25.6	3017	99.3	134	141	10.6	1.084	0.0465	38.9
Car	M5	2001	851	0.101	32.0	22.0	29.8	25.7	3049	99.8	134	144	10.6	1.095	0.0468	39.5
Car	M5	2002	779	0.094	32.0	21.8	29.6	25.5	3081	102.4	133	147	10.6	1.126	0.0472	39.7
Car	M5	2003	689	0.087	32.1	21.8	29.6	25.6	3139	102.7	134	153	10.4	1.159	0.0484	40.7
Car	M5	2004	532	0.071	32.5	21.9	29.8	25.7	3095	103.6	134	154	10.2	1.164	0.0492	40.3
Car	M5	2005	561	0.070	32.4	21.7	29.5	25.6	3112	104.5	136	157	10.2	1.166	0.0497	40.2
Car	M5	2006	514	0.064	32.1	21.4	29.3	25.3	3166	102.5	139	160	10.2	1.161	0.0499	40.6
Car	M5	2007	458	0.057	32.7	21.8	30.0	25.8	3116	102.0	140	161	10.0	1.161	0.0509	40.6
Car	M5	2008	388	0.053	33.0	22.1	29.9	25.9	3152	103.6	137	162	10.1	1.194	0.0504	41.2
Car	M5	2009	250	0.044	34.2	22.9	30.7	26.7	3107	105.6	130	153	10.3	1.191	0.0488	41.8
Car	M5	2010	166	0.027	34.4	23.0	30.9	27.0	3130	106.4	136	161	10.1	1.193	0.0503	42.5
Car	M5	2011	111	0.019	35.4	24.1	31.5	27.8	3092	109.1	120	156	10.3	1.279	0.0496	43.2
Car	M5	2012	143	0.019	37.8	25.1	33.8	29.4	2995	103.9	115	145	10.5	1.250	0.0477	44.2
Car	M5	2013	154	0.020	38.4	25.9	34.1	30.0	2959	104.4	112	140	10.7	1.254	0.0466	44.5

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car	M5	1975											
Car	M5	1976											
Car	M5	1977											
Car	M5	1978	2203	2767	20.5%			5.8%					
Car	M5	1979	1926	2471	33.8%			16.3%		2.0%			
Car	M5	1980	2240	2792	39.2%			19.5%		2.4%			
Car	M5	1981	2445	2993	49.8%			20.2%		5.3%			
Car	M5	1982	2577	3190	56.1%	0.2%		20.2%		4.9%			
Car	M5	1983	2670	3375	66.4%	6.1%		25.0%	7.0%	0.8%			
Car	M5	1984	2649	3439	69.6%	1.4%		31.0%	8.9%	3.2%			
Car	M5	1985	2678	3446	70.3%	5.8%		33.2%	9.3%	2.0%			
Car	M5	1986	2728	3582	78.6%	3.6%		45.7%	12.0%	1.1%	15.1%		
Car	M5	1987	2660	3547	79.2%	3.4%		45.6%	16.3%	0.2%	30.3%		
Car	M5	1988	2728	3657	83.0%	3.1%		48.7%	25.3%		39.9%		
Car	M5	1989	2700	3691	83.2%	3.2%		59.0%	24.3%	0.2%	46.9%		
Car	M5	1990	2576	3590	83.5%	2.6%		77.0%	20.9%	0.1%	63.2%		
Car	M5	1991	2659	3646	84.3%	3.1%		75.9%	23.6%	0.3%	61.1%	2.8%	
Car	M5	1992	2705	3725	85.1%	3.4%		86.4%	13.5%	0.1%	62.9%	7.0%	
Car	M5	1993	2764	3757	89.3%	2.3%		86.3%	13.7%		59.0%	8.5%	
Car	M5	1994	2783	3867	88.7%	1.0%		90.2%	9.8%		61.4%	14.4%	
Car	M5	1995	2787	3929	86.1%	2.2%		97.1%	2.9%		69.0%	14.2%	
Car	M5	1996	2792	4004	86.6%	3.1%		96.3%	3.3%	0.4%	69.2%	19.2%	
Car	M5	1997	2744	3926	86.4%	3.4%		98.1%	1.6%	0.3%	69.4%	17.9%	
Car	M5	1998	2723	3982	83.8%	4.5%		97.6%	1.2%	1.2%	70.7%	26.6%	
Car	M5	1999	2610	3882	83.5%	4.7%		98.1%	0.9%	1.0%	71.4%	26.6%	
Car	M5	2000	2598	3882	78.9%	4.3%		97.9%	0.5%	1.6%	68.2%	33.3%	0.6%
Car	M5	2001	2628	3963	82.2%	4.6%		98.4%		1.6%	73.5%	36.8%	0.2%
Car	M5	2002	2672	4077	78.7%	9.1%		98.2%		1.8%	76.2%	34.9%	0.1%
Car	M5	2003	2697	4198	82.7%	5.9%		97.1%		2.9%	82.8%	37.8%	0.9%
Car	M5	2004	2729	4186	83.1%	6.7%		97.9%		2.1%	86.8%	47.0%	0.9%
Car	M5	2005	2737	4214	83.0%	7.5%		98.4%		1.6%	90.3%	62.1%	0.9%
Car	M5	2006	2663	4181	80.2%	6.4%		96.8%		3.2%	90.8%	65.6%	0.1%
Car	M5	2007	2703	4162	79.3%	5.3%	0.5%	99.5%			93.2%	63.3%	
Car	M5	2008	2754	4276	77.8%	9.6%	0.4%	99.6%			96.2%	62.1%	
Car	M5	2009	2874	4418	84.2%	9.6%	1.8%	98.2%			98.8%	78.1%	
Car	M5	2010	2937	4525	82.2%	6.7%	0.6%	99.4%			97.3%	91.3%	
Car	M5	2011	3082	4723	81.9%	17.6%		100.0%			96.5%	91.1%	
Car	M5	2012	3080	4596	88.7%	10.8%	12.6%	87.4%			95.2%	95.2%	
Car	M5	2013	3158	4654	89.4%	10.1%	4.6%	95.4%			96.8%	96.8%	

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car	M6	1975														
Car	M6	1976														
Car	M6	1977														
Car	M6	1978														
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
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
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
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
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
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
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
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
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
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
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
Car	M6	2000	78	0.009	24.6	16.7	24.5	20.2	3405	75.5	240	271	7.0	1.284	0.0790	34.5
Car	M6	2001	105	0.013	24.4	16.6	24.0	19.9	3512	73.5	210	274	7.2	1.450	0.0779	35.2
Car	M6	2002	148	0.018	26.1	17.6	25.4	21.2	3361	83.3	202	249	7.5	1.375	0.0734	35.9
Car	M6	2003	196	0.025	26.6	18.0	25.4	21.5	3355	82.4	188	251	7.6	1.409	0.0738	36.3
Car	M6	2004	234	0.031	25.8	17.3	24.8	20.8	3469	87.1	186	253	7.7	1.427	0.0723	36.5
Car	M6	2005	184	0.023	26.0	17.3	24.9	20.9	3438	83.8	186	262	7.5	1.548	0.0757	36.3
Car	M6	2006	235	0.029	26.6	17.6	25.5	21.4	3458	86.3	185	258	7.6	1.491	0.0743	37.2
Car	M6	2007	227	0.028	27.7	18.3	26.4	22.2	3476	89.9	177	248	8.0	1.484	0.0709	39.0
Car	M6	2008	196	0.027	27.4	18.1	26.2	22.0	3488	90.6	188	264	7.7	1.481	0.0749	38.9
Car	M6	2009	132	0.023	29.3	19.4	27.7	23.4	3452	92.3	180	251	8.0	1.469	0.0713	41.4
Car	M6	2010	178	0.029	28.8	19.0	27.6	23.1	3605	99.4	209	270	7.8	1.349	0.0731	42.6
Car	M6	2011	201	0.035	30.4	20.0	29.0	24.3	3560	97.8	187	256	8.0	1.410	0.0701	44.4
Car	M6	2012	270	0.037	32.7	21.4	30.9	26.0	3433	102.3	163	227	8.6	1.433	0.0642	45.6
Car	M6	2013	439	0.057	32.5	21.3	30.9	25.9	3459	102.6	164	235	8.5	1.471	0.0661	45.8

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car	M6	1975											
Car	M6	1976											
Car	M6	1977											
Car	M6	1978											
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	967	1692				100.0%					
Car	M6	1990	945	1655				100.0%			37.2%		
Car	M6	1991	982	1770				100.0%			30.8%		
Car	M6	1992	1008	1784				100.0%			16.2%	9.1%	
Car	M6	1993	1416	2513	6.4%			100.0%			19.2%	4.8%	
Car	M6	1994	1551	2810	12.1%			100.0%			24.2%	4.5%	
Car	M6	1995	1522	2774	6.0%	1.5%		100.0%			15.9%	20.2%	
Car	M6	1996	1369	2509		13.3%		100.0%			3.7%	24.2%	
Car	M6	1997	1530	2841		10.6%		100.0%			19.2%	33.9%	
Car	M6	1998	1517	2800		2.8%		100.0%			14.2%	21.0%	
Car	M6	1999	1462	2616	7.0%	3.7%		100.0%			37.4%	29.5%	
Car	M6	2000	1560	2653	15.1%	10.2%		100.0%			61.1%	47.8%	
Car	M6	2001	1467	2621	2.8%	34.7%		100.0%			73.9%	33.5%	
Car	M6	2002	1810	3028	37.4%	11.4%		100.0%			75.4%	53.0%	
Car	M6	2003	1817	3018	43.0%	5.9%		100.0%			90.9%	65.8%	
Car	M6	2004	1854	3206	32.1%	14.8%		100.0%			81.3%	57.3%	
Car	M6	2005	1797	3087	33.3%	12.7%		100.0%			80.0%	60.0%	
Car	M6	2006	1887	3267	38.6%	12.1%		100.0%			86.7%	78.7%	
Car	M6	2007	2060	3561	44.7%	17.2%	5.4%	94.6%			90.8%	65.0%	
Car	M6	2008	2060	3563	47.2%	11.8%	19.0%	81.0%			91.2%	77.6%	
Car	M6	2009	2277	3879	58.0%	7.5%	26.5%	66.7%		6.8%	85.5%	77.5%	
Car	M6	2010	2402	4285	46.7%	8.4%	24.2%	67.0%		8.8%	74.5%	67.3%	
Car	M6	2011	2491	4385	49.2%	10.6%	27.0%	66.3%		6.8%	88.6%	80.6%	2.8%
Car	M6	2012	2783	4695	65.8%	6.8%	35.5%	57.3%		7.2%	92.6%	86.1%	0.5%
Car	M6	2013	2785	4737	64.1%	4.6%	38.2%	56.2%		5.6%	92.7%	87.6%	0.4%

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car	M7	1975														
Car	M7	1976														
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
Car	M7	2010														
Car	M7	2011														
Car	M7	2012	1	0.000	28.5	18.8	27.1	22.8	3500	74.2	220	375	5.5	1.706	0.1071	39.9
Car	M7	2013	4	0.001	28.2	18.7	26.9	22.6	3500	74.1	224	383	5.4	1.712	0.1094	39.5

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car	M7	1975											
Car	M7	1976											
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	778	1556			100.0%				100.0%	100.0%	
Car	M7	2010											
Car	M7	2011											
Car	M7	2012	1691	2960			100.0%				100.0%	100.0%	
Car	M7	2013	1673	2928		24.1%	100.0%				100.0%	100.0%	

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			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
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
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
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
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
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
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														
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Car	OT	2005														
Car	OT	2006														
Car	OT	2007														
Car	OT	2008														
Car	OT	2009														
Car	OT	2010														
Car	OT	2011														
Car	OT	2012														
Car	OT	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car	OT	1975											
Car	OT	1976											
Car	OT	1977											
Car	OT	1978											
Car	OT	1979	2738	2903	100.0%								
Car	OT	1980	2719	2939	100.0%								
Car	OT	1981	2603	2928	100.0%								
Car	OT	1982	2734	3003	100.0%								
Car	OT	1983	2706	3067	100.0%								
Car	OT	1984	2643	3352	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											
Car	OT	2011											
Car	OT	2012										100.0%	
Car	OT	2013											

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car SUV	A3	1975														
Car SUV	A3	1976														
Car SUV	A3	1977														
Car SUV	A3	1978	3	0.158	17.0	13.5	15.7	14.4	4000		281	131	14.2	0.465	0.0327	29.0
Car SUV	A3	1979	9	0.583	20.8	17.5	17.7	17.6	2750		121	80	15.4	0.661	0.0291	24.2
Car SUV	A3	1980	0	0.094	14.3	11.6	12.9	12.1	4000		304	122	14.8	0.401	0.0305	24.3
Car SUV	A3	1981														
Car SUV	A3	1982	11	0.865	23.6	20.7	19.1	19.9	2500		151	84	13.7	0.556	0.0336	24.9
Car SUV	A3	1983	13	0.376	23.2	20.4	18.7	19.6	2500		151	87	13.3	0.580	0.0350	24.5
Car SUV	A3	1984	9	0.158	18.4	15.8	15.3	15.6	3472		220	105	14.7	0.500	0.0312	26.7
Car SUV	A3	1985														
Car SUV	A3	1986														
Car SUV	A3	1987														
Car SUV	A3	1988														
Car SUV	A3	1989														
Car SUV	A3	1990														
Car SUV	A3	1991														
Car SUV	A3	1992														
Car SUV	A3	1993														
Car SUV	A3	1994	25	0.076	22.1	17.3	18.9	18.0	3500		134	118	13.7	0.881	0.0337	31.6
Car SUV	A3	1995														
Car SUV	A3	1996														
Car SUV	A3	1997														
Car SUV	A3	1998														
Car SUV	A3	1999														
Car SUV	A3	2000														
Car SUV	A3	2001														
Car SUV	A3	2002														
Car SUV	A3	2003														
Car SUV	A3	2004														
Car SUV	A3	2005														
Car SUV	A3	2006														
Car SUV	A3	2007														
Car SUV	A3	2008														
Car SUV	A3	2009														
Car SUV	A3	2010														
Car SUV	A3	2011														
Car SUV	A3	2012														
Car SUV	A3	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car SUV	A3	1975											
Car SUV	A3	1976											
Car SUV	A3	1977											
Car SUV	A3	1978											
Car SUV	A3	1979											
Car SUV	A3	1980											
Car SUV	A3	1981											
Car SUV	A3	1982											
Car SUV	A3	1983											
Car SUV	A3	1984											
Car SUV	A3	1985											
Car SUV	A3	1986											
Car SUV	A3	1987											
Car SUV	A3	1988											
Car SUV	A3	1989											
Car SUV	A3	1990											
Car SUV	A3	1991											
Car SUV	A3	1992											
Car SUV	A3	1993											
Car SUV	A3	1994						100.0%					
Car SUV	A3	1995											
Car SUV	A3	1996											
Car SUV	A3	1997											
Car SUV	A3	1998											
Car SUV	A3	1999											
Car SUV	A3	2000											
Car SUV	A3	2001											
Car SUV	A3	2002											
Car SUV	A3	2003											
Car SUV	A3	2004											
Car SUV	A3	2005											
Car SUV	A3	2006											
Car SUV	A3	2007											
Car SUV	A3	2008											
Car SUV	A3	2009											
Car SUV	A3	2010											
Car SUV	A3	2011											
Car SUV	A3	2012											
Car SUV	A3	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car SUV	A4	1975														
Car SUV	A4	1976														
Car SUV	A4	1977														
Car SUV	A4	1978														
Car SUV	A4	1979														
Car SUV	A4	1980														
Car SUV	A4	1981														
Car SUV	A4	1982														
Car SUV	A4	1983														
Car SUV	A4	1984														
Car SUV	A4	1985														
Car SUV	A4	1986														
Car SUV	A4	1987														
Car SUV	A4	1988														
Car SUV	A4	1989														
Car SUV	A4	1990	1	0.018	22.9	18.5	19.6	19.0	4000		144	116	15.4	0.806	0.0290	38.0
Car SUV	A4	1991	0	0.001	22.9	18.2	19.7	18.9	4000		144	112	15.9	0.778	0.0280	37.9
Car SUV	A4	1992														
Car SUV	A4	1993														
Car SUV	A4	1994														
Car SUV	A4	1995														
Car SUV	A4	1996														
Car SUV	A4	1997	22	0.061	25.9	19.4	22.6	21.0	3000		149	142	10.4	0.953	0.0473	31.5
Car SUV	A4	1998														
Car SUV	A4	1999														
Car SUV	A4	2000														
Car SUV	A4	2001														
Car SUV	A4	2002														
Car SUV	A4	2003														
Car SUV	A4	2004														
Car SUV	A4	2005														
Car SUV	A4	2006														
Car SUV	A4	2007														
Car SUV	A4	2008														
Car SUV	A4	2009														
Car SUV	A4	2010														
Car SUV	A4	2011														
Car SUV	A4	2012														
Car SUV	A4	2013														

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car SUV	A4	1975											
Car SUV	A4	1976											
Car SUV	A4	1977											
Car SUV	A4	1978											
Car SUV	A4	1979											
Car SUV	A4	1980											
Car SUV	A4	1981											
Car SUV	A4	1982											
Car SUV	A4	1983											
Car SUV	A4	1984											
Car SUV	A4	1985											
Car SUV	A4	1986											
Car SUV	A4	1987											
Car SUV	A4	1988											
Car SUV	A4	1989											
Car SUV	A4	1990						100.0%					
Car SUV	A4	1991						100.0%					
Car SUV	A4	1992											
Car SUV	A4	1993											
Car SUV	A4	1994											
Car SUV	A4	1995											
Car SUV	A4	1996											
Car SUV	A4	1997						100.0%			100.0%		
Car SUV	A4	1998											
Car SUV	A4	1999											
Car SUV	A4	2000											
Car SUV	A4	2001											
Car SUV	A4	2002											
Car SUV	A4	2003											
Car SUV	A4	2004											
Car SUV	A4	2005											
Car SUV	A4	2006											
Car SUV	A4	2007											
Car SUV	A4	2008											
Car SUV	A4	2009											
Car SUV	A4	2010											
Car SUV	A4	2011											
Car SUV	A4	2012											
Car SUV	A4	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car SUV	CVT	1975														
Car SUV	CVT	1976														
Car SUV	CVT	1977														
Car SUV	CVT	1978														
Car SUV	CVT	1979														
Car SUV	CVT	1980														
Car SUV	CVT	1981														
Car SUV	CVT	1982														
Car SUV	CVT	1983														
Car SUV	CVT	1984														
Car SUV	CVT	1985														
Car SUV	CVT	1986														
Car SUV	CVT	1987														
Car SUV	CVT	1988														
Car SUV	CVT	1989														
Car SUV	CVT	1990														
Car SUV	CVT	1991														
Car SUV	CVT	1992														
Car SUV	CVT	1993														
Car SUV	CVT	1994														
Car SUV	CVT	1995														
Car SUV	CVT	1996														
Car SUV	CVT	1997														
Car SUV	CVT	1998														
Car SUV	CVT	1999														
Car SUV	CVT	2000														
Car SUV	CVT	2001														
Car SUV	CVT	2002	1	0.002	29.9	22.9	25.6	24.3	3500		130	143	11.7	1.101	0.0408	43.1
Car SUV	CVT	2003	49	0.085	27.2	18.8	24.6	21.7	3741		172	191	10.2	1.096	0.0502	40.5
Car SUV	CVT	2004	40	0.063	26.6	18.3	24.2	21.2	3852		190	214	9.5	1.115	0.0550	40.8
Car SUV	CVT	2005	36	0.045	26.9	18.7	23.5	21.2	4000		205	232	8.8	1.124	0.0581	42.9
Car SUV	CVT	2006	39	0.052	27.8	19.4	24.1	21.8	4000		199	222	8.7	1.107	0.0555	44.4
Car SUV	CVT	2007	36	0.039	27.8	19.3	24.2	21.8	4000		199	223	8.7	1.106	0.0557	44.5
Car SUV	CVT	2008	53	0.057	35.2	25.3	27.8	26.7	3705		147	156	10.1	1.061	0.0426	50.5
Car SUV	CVT	2009	82	0.135	30.1	21.0	25.7	23.5	3811		181	209	9.1	1.145	0.0545	45.7
Car SUV	CVT	2010	76	0.083	31.2	21.9	26.1	24.1	3823		174	204	9.2	1.163	0.0531	47.0
Car SUV	CVT	2011	96	0.080	32.1	22.3	27.3	24.9	3663		162	186	9.8	1.145	0.0506	46.1
Car SUV	CVT	2012	141	0.111	31.7	22.1	27.0	24.6	3611		155	185	9.9	1.192	0.0510	44.7
Car SUV	CVT	2013	131	0.086	31.6	21.8	27.2	24.6	3700		162	191	9.9	1.175	0.0511	45.8

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car SUV	CVT	1975											
Car SUV	CVT	1976											
Car SUV	CVT	1977											
Car SUV	CVT	1978											
Car SUV	CVT	1979											
Car SUV	CVT	1980											
Car SUV	CVT	1981											
Car SUV	CVT	1982											
Car SUV	CVT	1983											
Car SUV	CVT	1984											
Car SUV	CVT	1985											
Car SUV	CVT	1986											
Car SUV	CVT	1987											
Car SUV	CVT	1988											
Car SUV	CVT	1989											
Car SUV	CVT	1990											
Car SUV	CVT	1991											
Car SUV	CVT	1992											
Car SUV	CVT	1993											
Car SUV	CVT	1994											
Car SUV	CVT	1995											
Car SUV	CVT	1996											
Car SUV	CVT	1997											
Car SUV	CVT	1998											
Car SUV	CVT	1999											
Car SUV	CVT	2000											
Car SUV	CVT	2001											
Car SUV	CVT	2002			100.0%			100.0%			66.5%		
Car SUV	CVT	2003			100.0%			100.0%			99.8%	48.1%	
Car SUV	CVT	2004			100.0%			100.0%			100.0%	70.4%	
Car SUV	CVT	2005			100.0%			100.0%			100.0%	88.4%	11.6%
Car SUV	CVT	2006			100.0%			100.0%			100.0%	79.2%	20.8%
Car SUV	CVT	2007			100.0%			100.0%			100.0%	80.2%	19.8%
Car SUV	CVT	2008			100.0%			100.0%			100.0%	63.9%	36.8%
Car SUV	CVT	2009			100.0%			100.0%			100.0%	98.4%	15.4%
Car SUV	CVT	2010			100.0%			100.0%			100.0%	100.0%	16.3%
Car SUV	CVT	2011			100.0%			100.0%			100.0%	100.0%	7.2%
Car SUV	CVT	2012			100.0%			100.0%			100.0%	100.0%	3.6%
Car SUV	CVT	2013			100.0%			100.0%			100.0%	100.0%	3.7%

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car SUV	L3	1975														
Car SUV	L3	1976														
Car SUV	L3	1977														
Car SUV	L3	1978														
Car SUV	L3	1979	1	0.039	16.4	13.4	14.6	13.9	4000		289	131	14.3	0.454	0.0328	27.8
Car SUV	L3	1980	0	0.868	17.6	14.3	15.9	15.0	4000		279	123	15.0	0.442	0.0308	30.1
Car SUV	L3	1981	0	1.000	17.3	13.7	16.1	14.7	4000		318	140	13.3	0.440	0.0350	29.4
Car SUV	L3	1982	1	0.089	20.2	15.9	19.1	17.2	3698		224	113	14.7	0.518	0.0311	31.8
Car SUV	L3	1983	0	0.001	25.7	19.6	25.6	21.9	3500		119	82	18.3	0.689	0.0234	38.4
Car SUV	L3	1984														
Car SUV	L3	1985	3	0.037	22.5	18.1	20.4	19.1	3000		161	107	13.0	0.670	0.0358	28.9
Car SUV	L3	1986	9	0.144	21.8	17.4	19.8	18.4	3447		167	116	13.7	0.695	0.0336	31.9
Car SUV	L3	1987	0	0.000	21.5	16.8	19.9	18.1	3500		173	125	13.0	0.723	0.0357	31.7
Car SUV	L3	1988														
Car SUV	L3	1989														
Car SUV	L3	1990														
Car SUV	L3	1991	31	0.138	20.8	17.0	17.1	17.1	3500		151	92	16.7	0.609	0.0263	29.9
Car SUV	L3	1992	24	0.100	20.5	16.8	16.7	16.8	3306		141	100	14.9	0.717	0.0304	27.8
Car SUV	L3	1993	28	0.059	20.7	16.9	16.8	16.9	3277		139	99	14.8	0.724	0.0304	27.7
Car SUV	L3	1994	12	0.036	27.7	21.8	23.2	22.5	2503		97	81	14.1	0.835	0.0324	28.2
Car SUV	L3	1995	8	0.037	28.8	22.5	24.0	23.2	2507		97	80	14.2	0.829	0.0321	29.1
Car SUV	L3	1996	7	0.024	27.4	21.2	22.9	22.1	2715		97	95	13.3	0.979	0.0350	30.0
Car SUV	L3	1997	3	0.008	27.9	21.3	23.3	22.4	2500		97	95	12.4	0.979	0.0380	27.9
Car SUV	L3	1998	3	0.007	27.7	21.0	23.1	22.1	2543		99	96	12.4	0.973	0.0379	28.0
Car SUV	L3	1999	1	0.002	22.5	16.2	20.5	18.3	3500		150	125	13.0	0.833	0.0357	32.0
Car SUV	L3	2000	0	0.001	23.7	16.9	21.8	19.2	3500		150	125	13.0	0.833	0.0357	33.6
Car SUV	L3	2001														
Car SUV	L3	2002														
Car SUV	L3	2003														
Car SUV	L3	2004														
Car SUV	L3	2005														
Car SUV	L3	2006														
Car SUV	L3	2007														
Car SUV	L3	2008														
Car SUV	L3	2009														
Car SUV	L3	2010														
Car SUV	L3	2011														
Car SUV	L3	2012														
Car SUV	L3	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car SUV	L3	1975											
Car SUV	L3	1976											
Car SUV	L3	1977											
Car SUV	L3	1978											
Car SUV	L3	1979											
Car SUV	L3	1980											
Car SUV	L3	1981											
Car SUV	L3	1982											
Car SUV	L3	1983											
Car SUV	L3	1984											
Car SUV	L3	1985											
Car SUV	L3	1986							25.9%				
Car SUV	L3	1987							100.0%				
Car SUV	L3	1988											
Car SUV	L3	1989											
Car SUV	L3	1990											
Car SUV	L3	1991							100.0%				
Car SUV	L3	1992							100.0%				
Car SUV	L3	1993						1.8%	98.2%				
Car SUV	L3	1994						11.6%	88.4%		6.8%		
Car SUV	L3	1995						2.8%	97.2%				
Car SUV	L3	1996						100.0%			100.0%		
Car SUV	L3	1997						100.0%			100.0%		
Car SUV	L3	1998						100.0%			95.7%		
Car SUV	L3	1999						100.0%					
Car SUV	L3	2000						100.0%					
Car SUV	L3	2001											
Car SUV	L3	2002											
Car SUV	L3	2003											
Car SUV	L3	2004											
Car SUV	L3	2005											
Car SUV	L3	2006											
Car SUV	L3	2007											
Car SUV	L3	2008											
Car SUV	L3	2009											
Car SUV	L3	2010											
Car SUV	L3	2011											
Car SUV	L3	2012											
Car SUV	L3	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car SUV	L4	1975														
Car SUV	L4	1976														
Car SUV	L4	1977														
Car SUV	L4	1978														
Car SUV	L4	1979														
Car SUV	L4	1980														
Car SUV	L4	1981														
Car SUV	L4	1982														
Car SUV	L4	1983	14	0.431	25.2	19.1	25.5	21.5	3500		172	110	14.5	0.637	0.0313	37.8
Car SUV	L4	1984	36	0.648	23.6	17.8	24.2	20.2	3500		173	110	14.5	0.636	0.0314	35.4
Car SUV	L4	1985	71	0.804	23.6	17.6	24.5	20.2	3500		172	109	14.5	0.635	0.0313	35.3
Car SUV	L4	1986	40	0.675	22.0	16.7	21.7	18.7	3500		172	124	13.2	0.718	0.0353	32.8
Car SUV	L4	1987	81	0.857	22.6	16.9	22.9	19.2	3499		179	131	12.6	0.732	0.0375	33.7
Car SUV	L4	1988	82	0.754	22.3	16.6	22.2	18.9	3499		205	143	11.8	0.707	0.0410	33.1
Car SUV	L4	1989	78	0.726	22.3	16.8	21.7	18.8	3499		245	153	11.1	0.634	0.0436	33.0
Car SUV	L4	1990	41	0.630	21.8	16.3	21.2	18.3	3559		230	155	11.2	0.691	0.0438	32.7
Car SUV	L4	1991	143	0.639	21.4	15.8	20.9	17.9	3863		240	161	11.6	0.674	0.0417	34.7
Car SUV	L4	1992	159	0.654	20.8	15.3	20.1	17.4	3878		234	170	11.2	0.726	0.0440	33.8
Car SUV	L4	1993	393	0.832	20.0	14.6	19.6	16.7	3940		254	190	10.3	0.755	0.0484	33.1
Car SUV	L4	1994	223	0.673	21.0	15.3	20.3	17.5	3904		235	181	10.6	0.775	0.0466	34.2
Car SUV	L4	1995	174	0.789	20.6	14.9	19.9	17.1	3906		234	180	10.7	0.776	0.0463	33.6
Car SUV	L4	1996	236	0.822	21.8	15.7	20.8	18.0	3805		230	175	10.7	0.783	0.0462	34.3
Car SUV	L4	1997	234	0.650	22.6	16.3	21.1	18.5	3685		205	171	10.8	0.864	0.0459	34.2
Car SUV	L4	1998	252	0.554	22.5	16.1	21.0	18.4	3796		215	180	10.5	0.869	0.0472	35.0
Car SUV	L4	1999	304	0.622	23.0	16.5	21.2	18.7	3790		201	178	10.6	0.927	0.0468	35.5
Car SUV	L4	2000	440	0.713	22.3	15.9	20.4	18.1	3841		205	179	10.6	0.913	0.0466	34.8
Car SUV	L4	2001	582	0.783	23.7	16.7	21.8	19.1	3738		187	176	10.6	0.978	0.0472	35.9
Car SUV	L4	2002	528	0.876	24.0	16.8	22.1	19.4	3744		183	180	10.4	1.010	0.0482	36.5
Car SUV	L4	2003	434	0.755	24.6	17.1	22.6	19.8	3714		182	180	10.3	1.012	0.0486	36.8
Car SUV	L4	2004	413	0.647	25.0	17.1	23.2	20.1	3773		187	184	10.2	0.999	0.0489	38.0
Car SUV	L4	2005	403	0.496	25.9	17.8	23.3	20.6	3676		172	179	10.2	1.054	0.0489	37.8
Car SUV	L4	2006	373	0.496	26.3	18.0	23.7	20.8	3727		168	177	10.5	1.066	0.0475	39.0
Car SUV	L4	2007	305	0.331	27.2	18.6	24.4	21.5	3689		162	170	10.8	1.061	0.0459	39.8
Car SUV	L4	2008	340	0.368	28.0	19.1	25.1	22.1	3645		154	171	10.5	1.117	0.0472	40.4
Car SUV	L4	2009	139	0.229	28.9	19.7	25.8	22.8	3772		147	170	10.8	1.160	0.0453	43.1
Car SUV	L4	2010	86	0.094	30.3	20.5	27.1	23.8	3629		151	177	10.2	1.174	0.0489	43.3
Car SUV	L4	2011	123	0.102	31.9	21.4	29.0	25.1	3511		145	167	10.4	1.150	0.0475	44.2
Car SUV	L4	2012	83	0.066	28.2	19.1	25.6	22.4	3688		174	188	9.9	1.105	0.0509	41.6
Car SUV	L4	2013	40	0.026	27.5	18.7	24.9	21.8	3855		142	165	11.4	1.159	0.0426	42.5

## 2013 FE Trends Report

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Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car SUV	L4	1975											
Car SUV	L4	1976											
Car SUV	L4	1977											
Car SUV	L4	1978											
Car SUV	L4	1979											
Car SUV	L4	1980											
Car SUV	L4	1981											
Car SUV	L4	1982											
Car SUV	L4	1983											
Car SUV	L4	1984											
Car SUV	L4	1985							3.3%				
Car SUV	L4	1986						0.0%	100.0%				
Car SUV	L4	1987						32.2%	67.8%				
Car SUV	L4	1988						39.0%	61.0%				
Car SUV	L4	1989						33.6%	66.4%				
Car SUV	L4	1990						59.8%	40.2%				
Car SUV	L4	1991						58.5%	41.5%				
Car SUV	L4	1992						82.6%	17.4%				
Car SUV	L4	1993						100.0%					
Car SUV	L4	1994			1.8%			100.0%			11.2%		
Car SUV	L4	1995						100.0%			23.5%		
Car SUV	L4	1996			5.8%			100.0%			26.6%		
Car SUV	L4	1997			22.4%			100.0%			44.9%		
Car SUV	L4	1998			16.2%			100.0%			38.4%		
Car SUV	L4	1999			23.3%			100.0%			53.5%	7.3%	
Car SUV	L4	2000			17.3%			100.0%			43.4%	7.0%	
Car SUV	L4	2001			44.4%			100.0%			50.3%	12.1%	
Car SUV	L4	2002			58.6%			100.0%			72.8%	20.1%	
Car SUV	L4	2003			62.8%			100.0%			64.1%	19.1%	
Car SUV	L4	2004			69.9%			100.0%			62.9%	20.4%	
Car SUV	L4	2005			88.8%			100.0%			80.2%	10.0%	
Car SUV	L4	2006			85.8%			100.0%			82.0%	16.2%	
Car SUV	L4	2007			93.4%			100.0%			83.8%	38.0%	2.5%
Car SUV	L4	2008			100.0%			100.0%			100.0%	48.1%	0.6%
Car SUV	L4	2009			100.0%			100.0%			100.0%	74.4%	2.6%
Car SUV	L4	2010			100.0%			100.0%			100.0%	99.4%	
Car SUV	L4	2011			99.8%			100.0%			100.0%	98.3%	
Car SUV	L4	2012			66.3%			100.0%			70.1%	70.1%	
Car SUV	L4	2013			90.2%			100.0%			100.0%	80.9%	

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car SUV	L5	1975														
Car SUV	L5	1976														
Car SUV	L5	1977														
Car SUV	L5	1978														
Car SUV	L5	1979														
Car SUV	L5	1980														
Car SUV	L5	1981														
Car SUV	L5	1982														
Car SUV	L5	1983														
Car SUV	L5	1984														
Car SUV	L5	1985														
Car SUV	L5	1986														
Car SUV	L5	1987														
Car SUV	L5	1988														
Car SUV	L5	1989														
Car SUV	L5	1990														
Car SUV	L5	1991														
Car SUV	L5	1992														
Car SUV	L5	1993														
Car SUV	L5	1994														
Car SUV	L5	1995														
Car SUV	L5	1996														
Car SUV	L5	1997	18	0.050	21.0	15.0	20.1	17.3	4000		244	160	11.9	0.656	0.0400	34.7
Car SUV	L5	1998	149	0.327	21.2	15.2	20.0	17.4	4000		244	160	11.9	0.656	0.0400	34.8
Car SUV	L5	1999	143	0.292	21.6	15.4	20.3	17.7	4000		244	160	11.9	0.656	0.0400	35.4
Car SUV	L5	2000	141	0.229	21.0	14.8	19.7	17.1	4000		244	163	11.7	0.669	0.0408	34.2
Car SUV	L5	2001	116	0.156	20.8	14.6	19.3	16.9	4000		247	212	9.5	0.856	0.0529	33.8
Car SUV	L5	2002	29	0.048	20.6	14.4	19.1	16.7	4000		246	213	9.5	0.865	0.0533	33.3
Car SUV	L5	2003	51	0.088	22.8	15.7	21.3	18.4	3807		218	206	9.5	0.945	0.0539	35.1
Car SUV	L5	2004	148	0.232	23.6	16.0	22.3	19.0	4132		215	244	8.8	1.134	0.0589	39.5
Car SUV	L5	2005	343	0.422	24.4	16.4	22.8	19.5	4059		204	207	9.9	1.012	0.0506	39.7
Car SUV	L5	2006	316	0.421	24.6	16.6	23.1	19.8	4053		203	208	9.9	1.024	0.0511	40.1
Car SUV	L5	2007	414	0.450	25.4	17.2	23.5	20.3	3975		199	219	9.4	1.103	0.0549	40.4
Car SUV	L5	2008	350	0.379	25.7	17.3	23.8	20.5	3986		194	215	9.6	1.109	0.0536	41.0
Car SUV	L5	2009	189	0.311	26.5	17.9	24.4	21.1	3902		187	212	9.5	1.137	0.0540	41.2
Car SUV	L5	2010	127	0.138	29.6	20.0	26.9	23.4	3637		160	190	9.7	1.199	0.0520	42.6
Car SUV	L5	2011	138	0.115	30.2	20.4	27.3	23.8	3585		154	185	9.8	1.210	0.0514	42.7
Car SUV	L5	2012	132	0.104	31.4	20.9	28.8	24.8	3714		164	205	9.4	1.256	0.0551	46.2
Car SUV	L5	2013	111	0.073	32.7	21.8	29.8	25.7	3630		156	192	9.6	1.245	0.0529	46.9

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car SUV	L5	1975											
Car SUV	L5	1976											
Car SUV	L5	1977											
Car SUV	L5	1978											
Car SUV	L5	1979											
Car SUV	L5	1980											
Car SUV	L5	1981											
Car SUV	L5	1982											
Car SUV	L5	1983											
Car SUV	L5	1984											
Car SUV	L5	1985											
Car SUV	L5	1986											
Car SUV	L5	1987											
Car SUV	L5	1988											
Car SUV	L5	1989											
Car SUV	L5	1990											
Car SUV	L5	1991											
Car SUV	L5	1992											
Car SUV	L5	1993											
Car SUV	L5	1994											
Car SUV	L5	1995											
Car SUV	L5	1996											
Car SUV	L5	1997						100.0%					
Car SUV	L5	1998						100.0%					
Car SUV	L5	1999						100.0%					
Car SUV	L5	2000						100.0%					
Car SUV	L5	2001						100.0%					
Car SUV	L5	2002						100.0%					
Car SUV	L5	2003			52.7%			100.0%			58.7%	6.0%	
Car SUV	L5	2004			73.6%	14.6%		100.0%			100.0%	85.5%	
Car SUV	L5	2005			52.6%	34.4%		100.0%			46.5%	42.5%	
Car SUV	L5	2006			65.3%	20.3%		100.0%			90.0%	49.1%	
Car SUV	L5	2007			73.8%	9.9%		100.0%			74.0%	52.9%	
Car SUV	L5	2008			67.8%	12.3%		100.0%			72.5%	71.4%	
Car SUV	L5	2009			78.9%	7.8%		100.0%			81.2%	76.7%	
Car SUV	L5	2010			91.3%			100.0%			100.0%	100.0%	
Car SUV	L5	2011			96.0%			100.0%			100.0%	100.0%	
Car SUV	L5	2012			85.7%	9.4%		100.0%			100.0%	100.0%	
Car SUV	L5	2013			90.6%			100.0%			100.0%	100.0%	

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car SUV	L6	1975														
Car SUV	L6	1976														
Car SUV	L6	1977														
Car SUV	L6	1978														
Car SUV	L6	1979														
Car SUV	L6	1980														
Car SUV	L6	1981														
Car SUV	L6	1982														
Car SUV	L6	1983														
Car SUV	L6	1984														
Car SUV	L6	1985														
Car SUV	L6	1986														
Car SUV	L6	1987														
Car SUV	L6	1988														
Car SUV	L6	1989														
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Car SUV	L6	1998														
Car SUV	L6	1999														
Car SUV	L6	2000														
Car SUV	L6	2001														
Car SUV	L6	2002														
Car SUV	L6	2003														
Car SUV	L6	2004														
Car SUV	L6	2005														
Car SUV	L6	2006														
Car SUV	L6	2007	150	0.163	24.3	16.3	23.1	19.6	4335		195	255	8.7	1.340	0.0589	42.4
Car SUV	L6	2008	175	0.189	24.4	16.2	23.3	19.6	4310		207	260	8.6	1.278	0.0604	42.3
Car SUV	L6	2009	190	0.312	27.6	18.5	25.7	22.0	3848		182	224	9.0	1.230	0.0581	42.4
Car SUV	L6	2010	610	0.667	28.7	19.2	26.5	22.8	4063		176	223	9.4	1.268	0.0548	46.6
Car SUV	L6	2011	830	0.688	29.4	19.6	27.3	23.3	4021		171	219	9.5	1.274	0.0542	47.2
Car SUV	L6	2012	892	0.703	29.3	19.5	27.1	23.2	4009		169	217	9.6	1.284	0.0538	46.9
Car SUV	L6	2013	1226	0.803	31.2	20.6	28.7	24.5	4008		160	215	9.8	1.366	0.0532	49.4

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car SUV	L6	1975											
Car SUV	L6	1976											
Car SUV	L6	1977											
Car SUV	L6	1978											
Car SUV	L6	1979											
Car SUV	L6	1980											
Car SUV	L6	1981											
Car SUV	L6	1982											
Car SUV	L6	1983											
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Car SUV	L6	1986											
Car SUV	L6	1987											
Car SUV	L6	1988											
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Car SUV	L6	2001											
Car SUV	L6	2002											
Car SUV	L6	2003											
Car SUV	L6	2004											
Car SUV	L6	2005											
Car SUV	L6	2006											
Car SUV	L6	2007			98.5%	1.2%		100.0%			100.0%	42.6%	
Car SUV	L6	2008			96.1%	3.6%	11.5%	88.5%			100.0%	40.5%	
Car SUV	L6	2009			98.7%	1.0%	4.2%	95.8%			100.0%	58.8%	
Car SUV	L6	2010			86.7%	13.3%	39.2%	60.8%			100.0%	100.0%	
Car SUV	L6	2011			85.9%	14.1%	40.2%	59.8%			100.0%	100.0%	
Car SUV	L6	2012			80.8%	19.2%	56.0%	44.0%			100.0%	100.0%	
Car SUV	L6	2013			84.8%	15.2%	58.2%	41.8%			100.0%	100.0%	

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car SUV	L7	1975														
Car SUV	L7	1976														
Car SUV	L7	1977														
Car SUV	L7	1978														
Car SUV	L7	1979														
Car SUV	L7	1980														
Car SUV	L7	1981														
Car SUV	L7	1982														
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Car SUV	L7	2002														
Car SUV	L7	2003														
Car SUV	L7	2004														
Car SUV	L7	2005														
Car SUV	L7	2006														
Car SUV	L7	2007														
Car SUV	L7	2008														
Car SUV	L7	2009	5	0.008	24.0	16.1	22.6	19.3	4500		214	300	7.9	1.402	0.0667	43.3
Car SUV	L7	2010	14	0.015	23.8	16.1	22.2	19.1	4500		213	267	8.7	1.254	0.0594	43.0
Car SUV	L7	2011	13	0.011	23.6	16.0	22.2	19.0	4133		213	277	7.9	1.297	0.0669	39.3
Car SUV	L7	2012	14	0.011	23.6	16.0	22.1	19.0	4224		213	274	8.1	1.284	0.0650	40.2
Car SUV	L7	2013	11	0.007	28.1	19.2	24.9	22.1	4500		213	302	7.9	1.415	0.0671	49.7

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car SUV	L7	1975											
Car SUV	L7	1976											
Car SUV	L7	1977											
Car SUV	L7	1978											
Car SUV	L7	1979											
Car SUV	L7	1980											
Car SUV	L7	1981											
Car SUV	L7	1982											
Car SUV	L7	1983											
Car SUV	L7	1984											
Car SUV	L7	1985											
Car SUV	L7	1986											
Car SUV	L7	1987											
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Car SUV	L7	2003											
Car SUV	L7	2004											
Car SUV	L7	2005											
Car SUV	L7	2006											
Car SUV	L7	2007											
Car SUV	L7	2008											
Car SUV	L7	2009						100.0%			100.0%	100.0%	
Car SUV	L7	2010						100.0%			100.0%	100.0%	
Car SUV	L7	2011						100.0%			100.0%	100.0%	
Car SUV	L7	2012						100.0%			100.0%	100.0%	
Car SUV	L7	2013					100.0%				100.0%	100.0%	

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car SUV	M3	1975														
Car SUV	M3	1976														
Car SUV	M3	1977														
Car SUV	M3	1978	14	0.842	13.1	9.9	13.1	11.2	4000		259	125	14.2	0.484	0.0313	22.8
Car SUV	M3	1979	2	0.121	11.7	9.7	10.1	9.9	4000		304	122	14.5	0.401	0.0305	19.8
Car SUV	M3	1980	0	0.019	17.2	14.2	14.9	14.5	4000		196	77	20.7	0.393	0.0193	29.1
Car SUV	M3	1981														
Car SUV	M3	1982														
Car SUV	M3	1983														
Car SUV	M3	1984														
Car SUV	M3	1985														
Car SUV	M3	1986														
Car SUV	M3	1987														
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Car SUV	M3	2006														
Car SUV	M3	2007														
Car SUV	M3	2008														
Car SUV	M3	2009														
Car SUV	M3	2010														
Car SUV	M3	2011														
Car SUV	M3	2012														
Car SUV	M3	2013														

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car SUV	M3	1975											
Car SUV	M3	1976											
Car SUV	M3	1977											
Car SUV	M3	1978											
Car SUV	M3	1979											
Car SUV	M3	1980											
Car SUV	M3	1981											
Car SUV	M3	1982											
Car SUV	M3	1983											
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Car SUV	M3	2004											
Car SUV	M3	2005											
Car SUV	M3	2006											
Car SUV	M3	2007											
Car SUV	M3	2008											
Car SUV	M3	2009											
Car SUV	M3	2010											
Car SUV	M3	2011											
Car SUV	M3	2012											
Car SUV	M3	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car SUV	M4	1975														
Car SUV	M4	1976														
Car SUV	M4	1977														
Car SUV	M4	1978														
Car SUV	M4	1979	4	0.256	13.8	11.0	12.7	11.7	4000		259	125	14.2	0.484	0.0313	23.5
Car SUV	M4	1980	0	0.019	14.0	11.0	13.2	11.9	4000		289	116	15.3	0.400	0.0289	23.9
Car SUV	M4	1981														
Car SUV	M4	1982	1	0.046	26.7	20.8	25.7	22.8	3000		173	110	12.5	0.636	0.0367	34.2
Car SUV	M4	1983	3	0.085	25.0	19.1	25.0	21.4	3500		163	105	14.7	0.649	0.0301	37.5
Car SUV	M4	1984	4	0.067	24.2	18.6	23.8	20.6	3388		161	104	14.5	0.647	0.0306	35.0
Car SUV	M4	1985	7	0.077	24.1	18.5	23.8	20.6	3444		163	103	14.7	0.634	0.0300	35.6
Car SUV	M4	1986	4	0.070	25.0	19.5	23.7	21.2	3399		157	108	14.2	0.690	0.0321	36.3
Car SUV	M4	1987	4	0.041	25.5	19.8	24.0	21.5	3447		157	103	14.9	0.657	0.0301	37.2
Car SUV	M4	1988	0	0.004	28.1	22.0	25.6	23.6	3000		150	117	12.0	0.780	0.0390	35.3
Car SUV	M4	1989														
Car SUV	M4	1990														
Car SUV	M4	1991														
Car SUV	M4	1992	5	0.021	23.0	17.1	21.9	19.2	3450		233	184	9.4	0.793	0.0532	33.1
Car SUV	M4	1993														
Car SUV	M4	1994														
Car SUV	M4	1995														
Car SUV	M4	1996														
Car SUV	M4	1997														
Car SUV	M4	1998														
Car SUV	M4	1999														
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Car SUV	M4	2006														
Car SUV	M4	2007														
Car SUV	M4	2008														
Car SUV	M4	2009														
Car SUV	M4	2010														
Car SUV	M4	2011														
Car SUV	M4	2012														
Car SUV	M4	2013														

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car SUV	M4	1975											
Car SUV	M4	1976											
Car SUV	M4	1977											
Car SUV	M4	1978											
Car SUV	M4	1979											
Car SUV	M4	1980											
Car SUV	M4	1981											
Car SUV	M4	1982											
Car SUV	M4	1983											
Car SUV	M4	1984											
Car SUV	M4	1985							34.7%				
Car SUV	M4	1986							100.0%				
Car SUV	M4	1987							100.0%				
Car SUV	M4	1988							100.0%				
Car SUV	M4	1989											
Car SUV	M4	1990											
Car SUV	M4	1991											
Car SUV	M4	1992						100.0%					
Car SUV	M4	1993											
Car SUV	M4	1994											
Car SUV	M4	1995											
Car SUV	M4	1996											
Car SUV	M4	1997											
Car SUV	M4	1998											
Car SUV	M4	1999											
Car SUV	M4	2000											
Car SUV	M4	2001											
Car SUV	M4	2002											
Car SUV	M4	2003											
Car SUV	M4	2004											
Car SUV	M4	2005											
Car SUV	M4	2006											
Car SUV	M4	2007											
Car SUV	M4	2008											
Car SUV	M4	2009											
Car SUV	M4	2010											
Car SUV	M4	2011											
Car SUV	M4	2012											
Car SUV	M4	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car SUV	M5	1975														
Car SUV	M5	1976														
Car SUV	M5	1977														
Car SUV	M5	1978														
Car SUV	M5	1979														
Car SUV	M5	1980														
Car SUV	M5	1981														
Car SUV	M5	1982														
Car SUV	M5	1983	4	0.107	24.7	18.6	25.3	21.1	3500		170	108	14.3	0.640	0.0310	37.0
Car SUV	M5	1984	7	0.127	23.3	17.5	24.0	19.9	3488		172	109	14.2	0.637	0.0313	34.7
Car SUV	M5	1985	7	0.082	22.7	16.8	23.9	19.4	3406		170	109	13.9	0.645	0.0322	33.1
Car SUV	M5	1986	7	0.111	23.2	17.7	22.9	19.7	3447		167	121	13.0	0.724	0.0351	34.2
Car SUV	M5	1987	10	0.102	24.0	18.1	23.7	20.3	3451		183	135	12.0	0.742	0.0392	35.1
Car SUV	M5	1988	26	0.242	24.3	18.4	23.5	20.5	3489		181	136	12.0	0.755	0.0391	35.8
Car SUV	M5	1989	30	0.274	23.7	17.8	23.0	19.9	3491		177	134	12.2	0.759	0.0385	34.9
Car SUV	M5	1990	23	0.351	23.7	18.0	22.3	19.8	3420		175	130	12.4	0.752	0.0380	33.9
Car SUV	M5	1991	50	0.222	23.9	18.1	22.2	19.9	3500		182	131	12.7	0.738	0.0369	34.7
Car SUV	M5	1992	55	0.225	23.9	18.1	22.0	19.8	3436		168	124	13.0	0.759	0.0355	33.9
Car SUV	M5	1993	52	0.109	24.3	18.3	22.1	20.0	3451		173	134	12.4	0.789	0.0383	34.4
Car SUV	M5	1994	71	0.215	23.4	17.5	21.5	19.3	3497		172	136	12.3	0.803	0.0385	33.6
Car SUV	M5	1995	38	0.174	25.1	18.7	22.7	20.6	3382		148	116	13.7	0.804	0.0340	34.5
Car SUV	M5	1996	44	0.154	25.5	18.9	22.9	20.8	3361		156	132	12.2	0.877	0.0391	34.9
Car SUV	M5	1997	84	0.232	26.5	19.4	23.8	21.5	3254		148	134	11.6	0.928	0.0416	35.0
Car SUV	M5	1998	51	0.111	24.9	18.2	22.4	20.2	3528		168	140	11.9	0.884	0.0397	35.6
Car SUV	M5	1999	41	0.084	25.2	18.3	22.6	20.3	3560		167	143	11.8	0.904	0.0402	36.2
Car SUV	M5	2000	35	0.057	24.0	17.4	21.3	19.3	3717		168	145	12.1	0.908	0.0390	36.0
Car SUV	M5	2001	46	0.062	25.9	18.5	22.9	20.7	3521		147	143	11.7	1.008	0.0408	36.8
Car SUV	M5	2002	45	0.075	26.0	18.4	23.1	20.7	3625		148	146	11.7	1.013	0.0405	37.9
Car SUV	M5	2003	41	0.072	27.4	19.1	24.6	21.8	3606		144	145	11.7	1.024	0.0404	39.5
Car SUV	M5	2004	37	0.058	27.5	18.9	24.8	21.8	3646		145	147	11.7	1.020	0.0404	40.0
Car SUV	M5	2005	27	0.033	29.7	20.3	26.5	23.4	3476		135	145	11.4	1.075	0.0418	40.7
Car SUV	M5	2006	20	0.027	28.9	19.7	25.7	22.7	3533		134	146	11.5	1.093	0.0415	40.3
Car SUV	M5	2007	11	0.012	29.4	19.8	26.7	23.2	3534		132	147	11.4	1.120	0.0416	41.1
Car SUV	M5	2008	6	0.007	29.1	20.0	25.7	22.9	3533		135	151	11.2	1.119	0.0427	40.4
Car SUV	M5	2009	3	0.006	29.7	20.4	26.1	23.3	3572		140	160	10.8	1.142	0.0446	41.7
Car SUV	M5	2010	1	0.001	31.5	21.8	27.1	24.5	3500		147	169	10.2	1.144	0.0482	43.0
Car SUV	M5	2011	3	0.002	32.7	22.2	29.0	25.6	3500		136	161	10.6	1.193	0.0459	44.9
Car SUV	M5	2012	4	0.003	33.0	22.4	29.2	25.8	3500		131	161	10.6	1.237	0.0460	45.2
Car SUV	M5	2013	5	0.003	31.0	21.3	27.0	24.2	3500		130	162	10.6	1.245	0.0461	43.2

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car SUV	M5	1975											
Car SUV	M5	1976											
Car SUV	M5	1977											
Car SUV	M5	1978											
Car SUV	M5	1979											
Car SUV	M5	1980											
Car SUV	M5	1981											
Car SUV	M5	1982											
Car SUV	M5	1983											
Car SUV	M5	1984											
Car SUV	M5	1985											
Car SUV	M5	1986						0.2%	77.2%	0.2%			
Car SUV	M5	1987						50.4%	49.6%				
Car SUV	M5	1988						77.8%	22.2%				
Car SUV	M5	1989						74.1%	20.7%				
Car SUV	M5	1990						67.7%	17.8%				
Car SUV	M5	1991						53.0%	43.3%				
Car SUV	M5	1992						54.8%	39.7%				
Car SUV	M5	1993						66.8%	26.8%				
Car SUV	M5	1994			6.7%			78.2%	21.8%		17.2%		
Car SUV	M5	1995			0.8%			68.0%	32.0%		3.4%		
Car SUV	M5	1996			9.4%			100.0%			52.6%		
Car SUV	M5	1997			25.0%			100.0%			79.9%		
Car SUV	M5	1998			12.1%			100.0%			64.9%		
Car SUV	M5	1999			10.6%			100.0%			60.9%		
Car SUV	M5	2000			7.0%			100.0%			53.8%		
Car SUV	M5	2001			38.1%			100.0%			60.4%	8.4%	
Car SUV	M5	2002			53.1%			100.0%			85.9%	8.1%	
Car SUV	M5	2003			74.4%			100.0%			84.6%	7.0%	
Car SUV	M5	2004			74.3%			100.0%			91.3%	5.9%	
Car SUV	M5	2005			98.9%			100.0%			99.3%	8.0%	
Car SUV	M5	2006			93.0%			100.0%			100.0%	12.5%	
Car SUV	M5	2007			100.0%			100.0%			100.0%	20.2%	
Car SUV	M5	2008			100.0%			100.0%			100.0%	49.7%	
Car SUV	M5	2009			100.0%			100.0%			100.0%	85.6%	
Car SUV	M5	2010			100.0%			100.0%			100.0%	100.0%	
Car SUV	M5	2011			100.0%			100.0%			100.0%	100.0%	
Car SUV	M5	2012			96.5%			100.0%			100.0%	100.0%	
Car SUV	M5	2013			87.9%			100.0%			100.0%	100.0%	

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Car SUV	M6	1975														
Car SUV	M6	1976														
Car SUV	M6	1977														
Car SUV	M6	1978														
Car SUV	M6	1979														
Car SUV	M6	1980														
Car SUV	M6	1981														
Car SUV	M6	1982														
Car SUV	M6	1983														
Car SUV	M6	1984														
Car SUV	M6	1985														
Car SUV	M6	1986														
Car SUV	M6	1987														
Car SUV	M6	1988														
Car SUV	M6	1989														
Car SUV	M6	1990														
Car SUV	M6	1991														
Car SUV	M6	1992														
Car SUV	M6	1993														
Car SUV	M6	1994														
Car SUV	M6	1995														
Car SUV	M6	1996														
Car SUV	M6	1997														
Car SUV	M6	1998														
Car SUV	M6	1999														
Car SUV	M6	2000														
Car SUV	M6	2001														
Car SUV	M6	2002														
Car SUV	M6	2003														
Car SUV	M6	2004														
Car SUV	M6	2005	3	0.003	23.4	16.0	21.4	18.7	4277		210	222	9.9	1.050	0.0513	40.1
Car SUV	M6	2006	3	0.004	22.3	15.5	20.0	17.8	4345		236	248	8.9	1.047	0.0569	38.6
Car SUV	M6	2007	4	0.004	22.8	15.8	20.5	18.1	4127		233	212	9.7	0.906	0.0511	37.5
Car SUV	M6	2008	0	0.000	22.6	15.8	20.0	18.0	4500		241	261	8.8	1.083	0.0580	40.4
Car SUV	M6	2009	0	0.000	22.7	15.8	20.2	18.0	4500		241	261	8.8	1.083	0.0580	40.6
Car SUV	M6	2010	1	0.001	29.9	20.1	27.3	23.6	3761		155	183	10.1	1.191	0.0487	44.6
Car SUV	M6	2011	3	0.003	29.7	19.9	27.3	23.6	3823		146	175	10.5	1.201	0.0461	45.0
Car SUV	M6	2012	1	0.001	28.1	18.6	26.7	22.5	3744		134	193	9.7	1.466	0.0515	42.1
Car SUV	M6	2013	3	0.002	31.5	21.2	28.9	25.0	3561		137	172	10.2	1.262	0.0484	45.0

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Car SUV	M6	1975											
Car SUV	M6	1976											
Car SUV	M6	1977											
Car SUV	M6	1978											
Car SUV	M6	1979											
Car SUV	M6	1980											
Car SUV	M6	1981											
Car SUV	M6	1982											
Car SUV	M6	1983											
Car SUV	M6	1984											
Car SUV	M6	1985											
Car SUV	M6	1986											
Car SUV	M6	1987											
Car SUV	M6	1988											
Car SUV	M6	1989											
Car SUV	M6	1990											
Car SUV	M6	1991											
Car SUV	M6	1992											
Car SUV	M6	1993											
Car SUV	M6	1994											
Car SUV	M6	1995											
Car SUV	M6	1996											
Car SUV	M6	1997											
Car SUV	M6	1998											
Car SUV	M6	1999											
Car SUV	M6	2000											
Car SUV	M6	2001											
Car SUV	M6	2002											
Car SUV	M6	2003											
Car SUV	M6	2004											
Car SUV	M6	2005						100.0%			86.7%	55.3%	
Car SUV	M6	2006						100.0%			69.1%	69.1%	
Car SUV	M6	2007						100.0%			25.4%	25.4%	
Car SUV	M6	2008						100.0%			100.0%	100.0%	
Car SUV	M6	2009						100.0%			100.0%	100.0%	
Car SUV	M6	2010			91.1%			100.0%			100.0%	100.0%	
Car SUV	M6	2011			100.0%			100.0%			100.0%	100.0%	
Car SUV	M6	2012			100.0%		48.9%	51.1%			100.0%	100.0%	
Car SUV	M6	2013			100.0%		36.5%	63.5%			100.0%	100.0%	

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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	0.0334	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														
Van	A3	2009														
Van	A3	2010														
Van	A3	2011														
Van	A3	2012														
Van	A3	2013														

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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%					
Van	A3	1995						100.0%					
Van	A3	1996						100.0%					
Van	A3	1997						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											
Van	A3	2009											
Van	A3	2010											
Van	A3	2011											
Van	A3	2012											
Van	A3	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
Van	A4	2007														
Van	A4	2008														
Van	A4	2009														
Van	A4	2010														
Van	A4	2011														
Van	A4	2012														
Van	A4	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
Van	A4	2007											
Van	A4	2008											
Van	A4	2009											
Van	A4	2010											
Van	A4	2011											
Van	A4	2012											
Van	A4	2013											

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
Van	CVT	2005	76	0.051	25.4	17.3	23.2	20.2	4239		182	203	10.3	1.115	0.0481	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	21	0.032	27.4	18.7	24.6	21.7	4500		214	265	8.8	1.241	0.0589	48.8
Van	CVT	2013	33	0.057	29.7	20.5	24.9	22.8	4124		179	215	10.2	1.178	0.0508	46.9

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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	CVT	2013			100.0%			100.0%			100.0%	100.0%	

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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
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	L3	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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%				
Van	L3	1995			91.2%			69.3%	30.7%				
Van	L3	1996			90.2%			100.0%			12.9%		
Van	L3	1997			86.5%			100.0%			18.3%		
Van	L3	1998			88.4%			100.0%			43.6%		
Van	L3	1999			78.5%			100.0%			78.5%		
Van	L3	2000			81.2%			100.0%			81.2%		
Van	L3	2001			74.1%			100.0%			74.1%		
Van	L3	2002			58.1%			100.0%			58.1%		
Van	L3	2003						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	L3	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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
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	61	0.092	25.1	17.3	22.5	19.9	4238		187	175	11.9	0.994	0.0407	42.2
Van	L4	2013	26	0.045	19.7	13.6	18.0	15.8	5419		291	243	11.2	0.826	0.0446	42.9

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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%		4.3%		
Van	L4	1995			57.7%	10.7%		90.0%	10.0%		5.3%		
Van	L4	1996			71.8%	2.9%		100.0%			4.3%		
Van	L4	1997			61.9%	4.9%		100.0%			4.1%		
Van	L4	1998			77.5%	3.5%		100.0%			7.6%		
Van	L4	1999			75.9%	2.9%		100.0%			8.7%	8.7%	
Van	L4	2000			80.6%	2.8%		100.0%			18.8%	15.7%	
Van	L4	2001			69.1%	8.9%		100.0%			20.9%	17.5%	
Van	L4	2002			81.7%	3.7%		100.0%			14.1%	10.8%	
Van	L4	2003			79.8%	6.3%		100.0%			7.0%	4.4%	
Van	L4	2004			79.9%	4.1%		100.0%			10.0%	8.8%	
Van	L4	2005			89.5%	2.1%		100.0%			3.5%	1.3%	
Van	L4	2006			88.0%	1.9%		100.0%			5.4%	3.4%	
Van	L4	2007			92.2%	1.0%		100.0%			2.0%	17.4%	
Van	L4	2008			86.7%	1.9%		100.0%				36.3%	
Van	L4	2009			81.2%	3.1%		100.0%					
Van	L4	2010			88.0%	2.5%		100.0%			29.6%	5.2%	
Van	L4	2011			62.3%	6.7%		100.0%			63.1%	13.6%	
Van	L4	2012			59.9%	5.4%		100.0%			59.9%	10.8%	
Van	L4	2013				10.2%		100.0%				34.7%	

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
Van	L5	1984														
Van	L5	1985														
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	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														
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	0.0554	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	145	0.220	28.4	18.5	27.4	22.7	4285		201	228	9.6	1.132	0.0529	48.5
Van	L5	2013	100	0.175	28.1	18.3	27.4	22.6	4352		205	234	9.5	1.141	0.0536	49.0

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
Van	L5	1984											
Van	L5	1985											
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%					
Van	L5	1998											
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%			99.9%	99.9%	
Van	L5	2012			99.9%			100.0%			99.9%	99.9%	
Van	L5	2013			99.9%			100.0%			99.9%	99.9%	

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
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	432	0.654	26.3	17.5	25.1	21.1	4521		216	274	8.6	1.267	0.0606	47.8
Van	L6	2013	409	0.721	26.1	17.3	25.0	20.9	4685		216	276	8.8	1.275	0.0590	49.1

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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%			31.9%		
Van	L6	2009			98.8%	1.2%		100.0%			29.7%	5.1%	
Van	L6	2010			100.0%			100.0%			21.1%		
Van	L6	2011			92.8%	7.0%		100.0%			99.8%	100.0%	
Van	L6	2012			95.7%	4.0%		100.0%			99.7%	100.0%	
Van	L6	2013			95.9%	3.9%		100.0%			99.8%	100.0%	

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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	4178		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														
Van	M3	1995														
Van	M3	1996														
Van	M3	1997														
Van	M3	1998														
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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	M3	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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	M3	2013											

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
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	M4	2013														

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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	M4	2013											

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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
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	M5	2013														

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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%				
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%		16.8%		
Van	M5	1995			67.2%	32.8%		100.0%			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	M5	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Van	M6	1975														
Van	M6	1976														
Van	M6	1977														
Van	M6	1978														
Van	M6	1979														
Van	M6	1980														
Van	M6	1981														
Van	M6	1982														
Van	M6	1983														
Van	M6	1984														
Van	M6	1985														
Van	M6	1986														
Van	M6	1987														
Van	M6	1988														
Van	M6	1989														
Van	M6	1990														
Van	M6	1991														
Van	M6	1992														
Van	M6	1993														
Van	M6	1994														
Van	M6	1995														
Van	M6	1996														
Van	M6	1997														
Van	M6	1998														
Van	M6	1999														
Van	M6	2000														
Van	M6	2001														
Van	M6	2002														
Van	M6	2003														
Van	M6	2004														
Van	M6	2005														
Van	M6	2006														
Van	M6	2007														
Van	M6	2008														
Van	M6	2009														
Van	M6	2010														
Van	M6	2011														
Van	M6	2012	1	0.002	31.9	21.3	28.4	24.8	3500		153	157	10.8	1.029	0.0449	43.5
Van	M6	2013	1	0.002	31.9	21.3	28.4	24.8	3500		153	157	10.8	1.029	0.0449	43.5

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Van	M6	1975											
Van	M6	1976											
Van	M6	1977											
Van	M6	1978											
Van	M6	1979											
Van	M6	1980											
Van	M6	1981											
Van	M6	1982											
Van	M6	1983											
Van	M6	1984											
Van	M6	1985											
Van	M6	1986											
Van	M6	1987											
Van	M6	1988											
Van	M6	1989											
Van	M6	1990											
Van	M6	1991											
Van	M6	1992											
Van	M6	1993											
Van	M6	1994											
Van	M6	1995											
Van	M6	1996											
Van	M6	1997											
Van	M6	1998											
Van	M6	1999											
Van	M6	2000											
Van	M6	2001											
Van	M6	2002											
Van	M6	2003											
Van	M6	2004											
Van	M6	2005											
Van	M6	2006											
Van	M6	2007											
Van	M6	2008											
Van	M6	2009											
Van	M6	2010											
Van	M6	2011											
Van	M6	2012			100.0%			100.0%			100.0%	100.0%	
Van	M6	2013			100.0%			100.0%			100.0%	100.0%	

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
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														
Van	OT	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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											
Van	OT	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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
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	A3	2013														

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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%							
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	A3	2013											

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
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	A4	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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	A4	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
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	A6	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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	A6	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Truck SUV	A7	1975														
Truck SUV	A7	1976														
Truck SUV	A7	1977														
Truck SUV	A7	1978														
Truck SUV	A7	1979														
Truck SUV	A7	1980														
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	A7	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Truck SUV	A7	1975											
Truck SUV	A7	1976											
Truck SUV	A7	1977											
Truck SUV	A7	1978											
Truck SUV	A7	1979											
Truck SUV	A7	1980											
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	A7	2013											

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Truck SUV	CVT	1975														
Truck SUV	CVT	1976														
Truck SUV	CVT	1977														
Truck SUV	CVT	1978														
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	276	0.099	30.7	21.2	26.5	23.9	3946		162	188	10.4	1.154	0.0474	47.5
Truck SUV	CVT	2013	450	0.149	30.6	21.3	26.6	24.0	4153		182	211	9.9	1.165	0.0503	50.5

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Truck SUV	CVT	1975											
Truck SUV	CVT	1976											
Truck SUV	CVT	1977											
Truck SUV	CVT	1978											
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%			96.1%	88.8%	35.8%
Truck SUV	CVT	2009			13.6%	85.0%	0.1%	99.9%			96.6%	99.4%	13.7%
Truck SUV	CVT	2010			12.9%	86.8%		100.0%			99.5%	99.9%	13.8%
Truck SUV	CVT	2011			12.5%	87.3%		100.0%			99.4%	100.0%	4.8%
Truck SUV	CVT	2012			1.0%	98.8%		100.0%			99.5%	100.0%	5.7%
Truck SUV	CVT	2013			11.7%	86.8%		100.0%			96.2%	100.0%	9.4%

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
Truck SUV	L3	1975														
Truck SUV	L3	1976														
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														
Truck SUV	L3	2013														

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
Truck SUV	L3	1975											
Truck SUV	L3	1976											
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%		8.8%		
Truck SUV	L3	1995				100.0%		100.0%					
Truck SUV	L3	1996				100.0%		100.0%			100.0%		
Truck SUV	L3	1997				100.0%		100.0%			12.8%		
Truck SUV	L3	1998				100.0%		100.0%			15.3%		
Truck SUV	L3	1999				100.0%		100.0%					
Truck SUV	L3	2000				100.0%		100.0%					
Truck SUV	L3	2001				100.0%		100.0%					
Truck SUV	L3	2002				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											
Truck SUV	L3	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			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
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	250	0.090	27.0	18.4	24.3	21.4	4038		175	187	10.7	1.088	0.0463	43.6
Truck SUV	L4	2013	87	0.029	28.8	19.7	25.1	22.4	3629		151	166	10.9	1.109	0.0455	41.0

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

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					Front	4WD	GDI	Port	TBI	Diesel			
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%		11.5%		
Truck SUV	L4	1995				89.5%		82.5%	17.5%		14.2%		
Truck SUV	L4	1996				83.5%		100.0%		0.0%	10.3%		
Truck SUV	L4	1997				82.4%		100.0%		0.0%	20.0%		
Truck SUV	L4	1998				85.3%		100.0%		0.0%	20.9%		
Truck SUV	L4	1999				76.9%		100.0%			26.3%	3.6%	
Truck SUV	L4	2000				82.4%		100.0%			22.4%	2.8%	
Truck SUV	L4	2001			9.3%	73.3%		100.0%			41.1%	13.2%	
Truck SUV	L4	2002			2.4%	74.2%		100.0%			53.8%	31.2%	
Truck SUV	L4	2003			3.6%	70.6%		100.0%			52.2%	35.6%	
Truck SUV	L4	2004			2.4%	70.9%		100.0%			47.6%	32.1%	
Truck SUV	L4	2005			2.6%	74.7%		100.0%			57.2%	38.5%	
Truck SUV	L4	2006			3.1%	78.2%		100.0%			67.4%	50.4%	
Truck SUV	L4	2007			1.4%	68.6%		100.0%			34.6%	26.2%	
Truck SUV	L4	2008			1.0%	76.1%		100.0%			44.9%	28.7%	
Truck SUV	L4	2009			1.8%	88.5%	0.0%	100.0%			64.7%	29.6%	0.6%
Truck SUV	L4	2010			0.9%	92.3%		100.0%			58.6%	56.8%	
Truck SUV	L4	2011			1.8%	89.8%		100.0%			52.3%	49.5%	
Truck SUV	L4	2012			6.9%	93.1%		100.0%			68.3%	68.3%	
Truck SUV	L4	2013			34.9%	57.6%		100.0%			92.5%	57.6%	

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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	15.3	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
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	812	0.293	25.4	17.2	23.3	20.2	4476		210	257	9.0	1.234	0.0574	45.6
Truck SUV	L5	2013	697	0.231	26.0	17.6	23.8	20.7	4408		205	250	9.1	1.233	0.0567	45.8

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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%					
Truck SUV	L5	1998				83.1%		100.0%			15.1%		
Truck SUV	L5	1999				85.9%		100.0%			20.7%		
Truck SUV	L5	2000				83.4%		100.0%			21.5%	2.2%	
Truck SUV	L5	2001				86.5%		100.0%			31.9%	22.3%	
Truck SUV	L5	2002				71.7%		100.0%			17.1%	9.8%	
Truck SUV	L5	2003			0.0%	78.8%		100.0%			47.9%	26.7%	
Truck SUV	L5	2004			3.6%	78.6%		100.0%			60.0%	46.6%	
Truck SUV	L5	2005			3.5%	77.7%		99.5%		0.5%	68.9%	58.8%	
Truck SUV	L5	2006			6.5%	73.1%		99.5%		0.5%	65.9%	61.8%	
Truck SUV	L5	2007			6.5%	78.6%		99.8%		0.2%	72.2%	67.0%	
Truck SUV	L5	2008			8.9%	77.5%		99.8%		0.2%	76.8%	69.4%	
Truck SUV	L5	2009			9.8%	83.9%		100.0%			83.4%	83.8%	
Truck SUV	L5	2010			12.0%	75.8%		100.0%			79.8%	81.0%	
Truck SUV	L5	2011			11.1%	77.3%		100.0%			93.4%	98.8%	
Truck SUV	L5	2012			9.9%	80.5%		100.0%			99.6%	99.6%	
Truck SUV	L5	2013			12.9%	81.7%		100.0%			99.7%	99.7%	

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
Truck SUV	L6	1997														
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	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
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	1177	0.424	23.8	16.1	22.2	19.1	4972		238	289	8.9	1.244	0.0581	47.4
Truck SUV	L6	2013	1465	0.485	25.1	16.8	23.6	20.1	4886		224	280	9.1	1.332	0.0572	49.2

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
Truck SUV	L6	1997											
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%	98.7%	98.7%	
Truck SUV	L6	2005				83.4%		100.0%			98.1%	98.1%	
Truck SUV	L6	2006				85.6%		99.6%		0.4%	96.2%	96.2%	
Truck SUV	L6	2007			11.7%	77.8%		99.9%		0.1%	80.0%	79.2%	
Truck SUV	L6	2008			20.2%	70.0%	8.8%	91.2%		0.0%	90.2%	85.6%	
Truck SUV	L6	2009			33.8%	56.5%	20.3%	79.3%		0.4%	84.4%	67.1%	
Truck SUV	L6	2010			21.5%	70.2%	27.4%	71.7%		1.0%	88.8%	89.3%	
Truck SUV	L6	2011			21.2%	70.2%	28.2%	71.0%		0.8%	80.3%	99.2%	
Truck SUV	L6	2012			23.9%	68.4%	31.4%	67.6%		1.0%	81.6%	99.0%	
Truck SUV	L6	2013			18.0%	73.0%	32.1%	67.9%			80.3%	97.5%	

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
Truck SUV	L7	1989														
Truck SUV	L7	1990														
Truck SUV	L7	1991														
Truck SUV	L7	1992														
Truck SUV	L7	1993														
Truck SUV	L7	1994														
Truck SUV	L7	1995														
Truck SUV	L7	1996														
Truck SUV	L7	1997														
Truck SUV	L7	1998														
Truck SUV	L7	1999														
Truck SUV	L7	2000														
Truck SUV	L7	2001														
Truck SUV	L7	2002														
Truck SUV	L7	2003														
Truck SUV	L7	2004														
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	106	0.038	22.5	15.4	20.7	18.0	5365		247	313	8.5	1.282	0.0586	48.8
Truck SUV	L7	2013	107	0.036	23.8	16.2	21.6	18.9	5234		239	326	8.3	1.378	0.0624	49.9

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
Truck SUV	L7	1989											
Truck SUV	L7	1990											
Truck SUV	L7	1991											
Truck SUV	L7	1992											
Truck SUV	L7	1993											
Truck SUV	L7	1994											
Truck SUV	L7	1995											
Truck SUV	L7	1996											
Truck SUV	L7	1997											
Truck SUV	L7	1998											
Truck SUV	L7	1999											
Truck SUV	L7	2000											
Truck SUV	L7	2001											
Truck SUV	L7	2002											
Truck SUV	L7	2003											
Truck SUV	L7	2004											
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%	100.0%		
Truck SUV	L7	2008				100.0%		83.2%		16.8%	100.0%		
Truck SUV	L7	2009				95.6%		88.7%		11.3%	100.0%	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				93.7%	47.8%	39.1%		13.1%	100.0%	86.9%	
Truck SUV	L7	2013				84.0%	78.2%	14.2%		7.7%	100.0%	92.3%	

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
Truck SUV	L8	1984														
Truck SUV	L8	1985														
Truck SUV	L8	1986														
Truck SUV	L8	1987														
Truck SUV	L8	1988														
Truck SUV	L8	1989														
Truck SUV	L8	1990														
Truck SUV	L8	1991														
Truck SUV	L8	1992														
Truck SUV	L8	1993														
Truck SUV	L8	1994														
Truck SUV	L8	1995														
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														
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	107	0.038	25.5	17.1	24.1	20.5	4931		183	283	9.0	1.568	0.0573	50.6
Truck SUV	L8	2013	171	0.057	25.9	17.5	24.8	21.0	4813		179	285	8.8	1.626	0.0587	50.9

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
Truck SUV	L8	1984											
Truck SUV	L8	1985											
Truck SUV	L8	1986											
Truck SUV	L8	1987											
Truck SUV	L8	1988											
Truck SUV	L8	1989											
Truck SUV	L8	1990											
Truck SUV	L8	1991											
Truck SUV	L8	1992											
Truck SUV	L8	1993											
Truck SUV	L8	1994											
Truck SUV	L8	1995											
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											
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%	81.2%	10.4%		8.4%	100.0%	91.6%	1.6%
Truck SUV	L8	2013				100.0%	87.4%	5.1%		7.5%	100.0%	92.5%	1.6%

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
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	M3	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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	M3	2013											

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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	0.0314	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														
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	M4	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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	M4	2013											

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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
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	6	0.002	31.1	21.3	27.1	24.3	3500		151	171	10.1	1.134	0.0488	42.5
Truck SUV	M5	2013	10	0.003	31.7	21.7	27.6	24.7	3500		144	166	10.4	1.152	0.0474	43.4

## 2013 FE Trends Report

### Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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%		24.0%		
Truck SUV	M5	1995				91.9%		95.8%	4.2%		22.8%		
Truck SUV	M5	1996				85.8%		100.0%			52.9%		
Truck SUV	M5	1997				93.1%		100.0%			39.3%		
Truck SUV	M5	1998				97.9%		100.0%			45.7%		
Truck SUV	M5	1999				98.0%		100.0%			43.8%		
Truck SUV	M5	2000				98.6%		100.0%			37.1%		
Truck SUV	M5	2001				98.1%		100.0%			49.6%	11.7%	
Truck SUV	M5	2002				95.8%		100.0%			55.5%	14.3%	
Truck SUV	M5	2003			5.0%	94.6%		100.0%			47.5%	25.4%	
Truck SUV	M5	2004			2.2%	94.6%		100.0%			47.0%	21.6%	
Truck SUV	M5	2005			5.9%	83.4%		100.0%			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%			92.2%	64.4%	
Truck SUV	M5	2008			32.6%	65.9%		100.0%			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				100.0%		100.0%			100.0%	100.0%	
Truck SUV	M5	2013				100.0%		100.0%			100.0%	100.0%	

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
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	23.8	16.4	21.4	18.9	4153		215	272	8.1	1.263	0.0655	39.2
Truck SUV	M6	2013	33	0.011	23.9	16.4	21.5	19.0	4170		214	271	8.2	1.262	0.0650	39.6

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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%			19.2%	9.1%	
Truck SUV	M6	2006				100.0%		100.0%			21.8%	9.7%	
Truck SUV	M6	2007				98.2%		100.0%			33.1%	33.1%	
Truck SUV	M6	2008				95.5%	0.7%	99.3%			12.8%	12.8%	
Truck SUV	M6	2009			6.9%	93.1%	10.6%	89.4%			19.5%	19.5%	
Truck SUV	M6	2010			1.4%	98.6%	1.4%	98.6%			23.7%	23.7%	
Truck SUV	M6	2011			1.1%	98.9%	1.5%	98.5%			25.9%	25.9%	
Truck SUV	M6	2012				100.0%	0.4%	99.6%			100.0%	100.0%	
Truck SUV	M6	2013				100.0%	0.1%	99.9%			100.0%	100.0%	

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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														
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														
Truck SUV	OT	2013														

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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											
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											
Truck SUV	OT	2013											

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Adj	Adj Comb			CID	HP				
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

**2013 FE Trends Report**  
**Appendix G: Fuel Economy Data Stratified by Vehicle Type and Transmission**

Vehicle Type	Transmission Type	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	GDI	Port	TBI	Diesel			
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%				

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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	0.005	23.8	16.3	22.0	19.1	3500	96.3	160	224	8.2	1.397	0.0639	33.4
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
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
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
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
Car	2	2009	3	0.001	24.0	16.3	22.3	19.2	3500	96.3	79	224	8.2	2.838	0.0641	33.7
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
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
Car	2	2012														
Car	2	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
Car	2	1975					50.5%									
Car	2	1976					40.1%									
Car	2	1977	1747	2596			61.7%									
Car	2	1978	1683	2416			66.3%									
Car	2	1979	873	1201			90.1%									
Car	2	1980	850	1168			90.5%									
Car	2	1981	1012	1265			91.4%									
Car	2	1982	1011	1264			89.6%									
Car	2	1983	968	1216			92.2%									
Car	2	1984	940	1210			91.4%	8.6%				22.4%				
Car	2	1985	944	1212			87.2%	12.8%			14.6%					
Car	2	1986	1558	2278			82.4%	17.6%		100.0%						
Car	2	1987	971	1457			85.5%	14.5%		100.0%						
Car	2	1988	960	1493			86.2%	13.8%		100.0%						
Car	2	1989	969	1520			74.1%	25.9%		100.0%						
Car	2	1990	967	1529			72.8%	27.2%		100.0%						
Car	2	1991	962	1537			74.7%	25.3%		100.0%						
Car	2	1992	958	1676			100.0%			100.0%						
Car	2	1993	984	1476			84.8%	15.2%		100.0%						
Car	2	1994	981	1472			88.0%	12.0%		100.0%						
Car	2	1995	957	1435			87.6%	12.4%		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	1841	3221			64.9%	35.1%		100.0%						
Car	2	2005	1834	3210			56.5%	43.5%		100.0%						
Car	2	2006	1853	3242			56.7%	43.3%		100.0%						
Car	2	2007	1855	3246			51.3%	48.7%		100.0%						
Car	2	2008	1854	3244			55.0%	45.0%		100.0%						
Car	2	2009	1853	3242			61.1%	38.9%		100.0%						
Car	2	2010	1867	3266			59.5%	40.5%		100.0%						
Car	2	2011	1867	3268			57.8%	42.2%		100.0%						
Car	2	2012														
Car	2	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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
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
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
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
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
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
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
Car	3	1992	111	0.014	48.6	37.2	42.1	39.5	1984	87.6	61	55	15.8	0.902	0.0278	39.8
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
Car	3	1994	100	0.012	50.0	37.6	42.7	40.0	1981	91.7	61	55	15.7	0.904	0.0280	40.3
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
Car	3	1996	25	0.003	54.8	40.3	46.4	43.3	2000	100.0	61	55	15.7	0.902	0.0275	43.3
Car	3	1997	13	0.002	54.4	39.5	46.1	42.8	2000	90.5	61	55	15.7	0.902	0.0275	42.8
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
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
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
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
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
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
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
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
Car	3	2009	14	0.003	49.5	33.4	40.5	37.1	2000	50.0	61	70	13.3	1.148	0.0350	37.1
Car	3	2010	3	0.001	49.1	33.3	40.0	36.8	2000	50.0	61	70	13.3	1.148	0.0350	36.8
Car	3	2011	3	0.001	48.7	33.1	39.5	36.5	2000	50.0	61	70	13.3	1.148	0.0350	36.5
Car	3	2012	5	0.001	49.5	33.4	37.7	35.7	2000	50.0	61	70	13.3	1.148	0.0350	35.7
Car	3	2013	6	0.001	50.3	34.5	38.2	36.5	2000	50.0	61	70	13.3	1.148	0.0350	36.5

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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	4037	3533	100.0%		90.1%									
Car	3	1986	4053	3547	100.0%		64.7%									
Car	3	1987	3661	3414	100.0%		73.5%				8.6%			13.5%		
Car	3	1988	3473	3226	89.0%	11.0%	76.5%				13.2%	1.5%		31.4%		
Car	3	1989	3679	3584	100.0%		64.3%		14.9%		13.0%	57.5%		29.5%		
Car	3	1990	3647	3650	89.0%	11.0%	77.7%		6.4%		24.2%	70.1%		20.7%		
Car	3	1991	3462	3462	94.5%	5.5%	61.0%		3.3%		7.8%	89.7%		8.1%		
Car	3	1992	3532	3494	99.6%	0.4%	50.1%		0.2%		1.9%	97.4%		1.2%		
Car	3	1993	3739	3683	97.7%	2.3%	69.2%		0.9%		4.6%	95.4%		4.6%		
Car	3	1994	3741	3695	100.0%		53.9%				2.4%	97.6%		2.4%		
Car	3	1995	4336	4336	100.0%		100.0%					100.0%				
Car	3	1996	4327	4327	100.0%		100.0%					100.0%				
Car	3	1997	3871	3871	100.0%		100.0%					100.0%				
Car	3	1998	3765	3765	100.0%		100.0%					100.0%				
Car	3	1999														
Car	3	2000	3153	3153	52.4%		100.0%				52.4%	47.6%		52.4%	52.4%	52.4%
Car	3	2001	2661	2797	100.0%		55.8%		44.2%		100.0%			100.0%	100.0%	100.0%
Car	3	2002														
Car	3	2003	2530	2732	100.0%		33.2%		66.8%		100.0%			100.0%	100.0%	100.0%
Car	3	2004	2482	2692	100.0%		29.8%		70.2%		100.0%			100.0%	100.0%	100.0%
Car	3	2005	2504	2670	100.0%		44.0%		56.0%		100.0%			100.0%	100.0%	100.0%
Car	3	2006	2529	2661	100.0%		55.7%		44.3%		100.0%			100.0%	100.0%	100.0%
Car	3	2007														
Car	3	2008	1857	1857							100.0%			100.0%	100.0%	
Car	3	2009	1857	1857							100.0%			100.0%	100.0%	
Car	3	2010	1841	1841							100.0%			100.0%	100.0%	
Car	3	2011	1826	1826							100.0%			100.0%	100.0%	
Car	3	2012	1787	1787							100.0%			100.0%	100.0%	
Car	3	2013	1824	1824							100.0%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
Car	4	1975	1805	0.219	24.3	18.7	23.8	20.7	2651		112	79	15.1	0.716	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
Car	4	1978	2926	0.262	28.3	22.3	26.7	24.1	2511	88.9	108	77	14.7	0.727	0.0308	30.7
Car	4	1979	3157	0.292	27.1	21.2	25.7	23.1	2564	90.1	110	77	14.9	0.707	0.0300	29.8
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
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
Car	4	1982	4252	0.544	30.9	24.1	29.8	26.3	2595	97.8	115	78	14.9	0.686	0.0300	34.4
Car	4	1983	4158	0.520	31.2	24.4	29.8	26.6	2622	101.2	118	81	14.7	0.694	0.0307	35.2
Car	4	1984	5744	0.538	31.4	24.4	30.2	26.7	2655	100.3	119	85	14.3	0.718	0.0320	35.8
Car	4	1985	5865	0.543	31.5	24.6	30.3	26.9	2671	101.9	120	90	13.8	0.752	0.0336	36.1
Car	4	1986	6462	0.587	31.3	24.2	30.0	26.6	2719	102.5	122	91	13.9	0.753	0.0332	36.3
Car	4	1987	6679	0.622	31.1	24.0	29.7	26.3	2732	102.1	121	92	13.8	0.772	0.0336	36.2
Car	4	1988	6333	0.590	31.7	24.3	30.1	26.7	2739	101.8	118	95	13.6	0.805	0.0343	36.8
Car	4	1989	5671	0.566	31.1	23.6	29.6	26.1	2794	101.5	120	100	13.1	0.840	0.0357	36.6
Car	4	1990	4925	0.559	30.7	23.1	29.1	25.6	2857	100.8	122	108	12.6	0.901	0.0378	36.7
Car	4	1991	4843	0.568	30.8	23.0	29.3	25.7	2846	100.9	121	109	12.5	0.913	0.0380	36.7
Car	4	1992	3946	0.487	30.9	22.8	29.4	25.7	2885	100.7	120	112	12.3	0.947	0.0388	37.2
Car	4	1993	4268	0.505	31.6	23.1	30.1	26.1	2866	101.9	119	110	12.4	0.930	0.0383	37.6
Car	4	1994	4190	0.498	31.6	22.9	30.1	26.1	2899	102.0	120	113	12.3	0.955	0.0390	37.9
Car	4	1995	4620	0.492	32.2	23.1	30.7	26.4	2889	102.7	118	120	11.7	1.016	0.0413	38.3
Car	4	1996	3982	0.505	31.6	22.5	30.1	25.9	2937	102.8	121	123	11.6	1.023	0.0420	38.1
Car	4	1997	4481	0.538	31.8	22.4	30.2	25.9	2947	102.4	122	124	11.5	1.024	0.0420	38.3
Car	4	1998	4097	0.514	32.0	22.4	30.3	26.0	3015	103.4	122	127	11.5	1.044	0.0421	39.2
Car	4	1999	4055	0.484	31.4	21.9	29.7	25.5	3072	103.7	124	129	11.5	1.051	0.0421	39.1
Car	4	2000	4397	0.482	31.2	21.6	29.2	25.2	3072	104.4	123	130	11.4	1.064	0.0425	38.7
Car	4	2001	4177	0.497	31.7	21.8	29.5	25.5	3102	104.9	124	132	11.4	1.067	0.0425	39.6
Car	4	2002	4329	0.522	31.5	21.5	29.1	25.2	3135	106.8	126	138	11.1	1.099	0.0440	39.6
Car	4	2003	4135	0.522	32.2	21.8	29.6	25.6	3161	107.1	126	142	10.9	1.135	0.0449	40.6
Car	4	2004	3742	0.497	32.6	21.9	29.9	25.8	3153	107.4	126	145	10.7	1.153	0.0458	41.0
Car	4	2005	4363	0.544	33.2	22.2	30.1	26.1	3143	108.3	126	145	10.6	1.151	0.0459	41.5
Car	4	2006	4039	0.505	33.3	22.2	30.2	26.2	3185	108.1	127	150	10.5	1.183	0.0470	42.2
Car	4	2007	4675	0.579	34.4	23.0	31.0	26.9	3206	108.0	127	149	10.4	1.176	0.0464	43.8
Car	4	2008	4238	0.579	34.6	23.1	31.1	27.1	3216	108.3	127	151	10.4	1.186	0.0466	44.2
Car	4	2009	3925	0.696	35.2	23.5	31.7	27.5	3246	109.7	128	151	10.5	1.186	0.0464	45.1
Car	4	2010	4253	0.702	37.0	24.7	33.0	28.8	3254	110.0	128	152	10.3	1.186	0.0465	48.1
Car	4	2011	3808	0.665	36.5	24.1	33.3	28.6	3320	111.2	129	159	10.2	1.243	0.0478	48.2
Car	4	2012	5584	0.757	38.4	25.3	34.7	29.9	3277	110.5	126	157	10.2	1.263	0.0479	49.8
Car	4	2013	5694	0.737	39.2	25.8	35.2	30.4	3322	110.0	123	163	10.0	1.337	0.0488	51.7

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
Car	4	1975			25.2%		67.7%	1.2%			14.4%		0.8%			
Car	4	1976			22.0%		63.9%				6.7%		0.6%			
Car	4	1977	2178	2718	28.3%		69.5%				11.9%		1.8%			
Car	4	1978	2196	2731	31.8%		65.9%	1.5%			10.4%		1.7%			
Car	4	1979	2121	2695	33.5%	1.2%	61.8%	2.6%			7.0%		2.1%			
Car	4	1980	2267	2891	44.8%	1.0%	58.3%	0.7%			9.1%		3.6%			
Car	4	1981	2515	3192	60.6%	0.9%	54.1%	1.7%			7.5%		4.0%			
Car	4	1982	2609	3367	72.1%	0.9%	48.6%	21.4%			7.5%	11.2%	2.6%			
Car	4	1983	2737	3556	76.2%	5.1%	44.1%	26.2%			11.7%	21.0%	1.0%			
Car	4	1984	2720	3586	81.3%	1.4%	39.9%	30.4%			15.4%	28.3%	1.6%			
Car	4	1985	2774	3685	84.0%	3.7%	36.7%	31.8%			18.7%	33.6%	0.8%			
Car	4	1986	2753	3725	89.5%	1.5%	36.5%	37.0%			24.4%	38.9%	0.4%	7.6%		
Car	4	1987	2711	3690	92.0%	1.5%	34.4%	43.0%			24.9%	43.2%	0.1%	21.9%		
Car	4	1988	2749	3743	94.1%	1.0%	35.2%	50.3%			32.7%	45.9%		30.2%		
Car	4	1989	2679	3719	93.2%	1.5%	31.8%	53.5%			43.7%	41.3%	0.1%	38.8%		
Car	4	1990	2606	3708	93.2%	1.5%	30.6%	57.9%			62.9%	35.3%	0.0%	52.4%		
Car	4	1991	2622	3710	92.5%	2.1%	31.2%	60.9%			68.9%	31.0%	0.1%	52.9%	2.8%	
Car	4	1992	2615	3748	88.5%	1.2%	30.1%	61.4%			86.6%	13.4%	0.0%	58.2%	4.9%	
Car	4	1993	2690	3833	94.1%	2.0%	29.3%	62.9%			88.1%	11.9%		54.8%	5.4%	
Car	4	1994	2683	3870	97.1%	0.7%	27.5%	67.1%			92.1%	7.9%		60.6%	12.1%	
Car	4	1995	2738	3934	90.2%	2.2%	27.4%	70.7%			98.3%	1.7%		75.3%	12.3%	
Car	4	1996	2686	3921	95.9%	2.5%	24.0%	73.8%	0.0%		98.3%	1.5%	0.1%	78.4%	14.6%	
Car	4	1997	2672	3922	95.8%	2.8%	21.5%	77.3%	0.1%		98.7%	1.2%	0.1%	76.1%	11.6%	
Car	4	1998	2702	4059	95.6%	3.0%	19.3%	79.9%	0.1%		99.7%		0.3%	80.5%	22.0%	
Car	4	1999	2656	4066	96.0%	3.1%	17.6%	81.2%	0.1%		99.6%	0.2%	0.2%	80.3%	18.7%	
Car	4	2000	2646	4051	95.2%	3.0%	17.0%	80.7%	0.0%		99.5%		0.5%	79.2%	24.7%	
Car	4	2001	2700	4168	95.9%	3.1%	17.2%	80.8%	0.4%		99.5%		0.5%	82.1%	31.7%	
Car	4	2002	2715	4242	95.2%	3.7%	16.9%	82.0%	0.7%		99.2%		0.8%	83.2%	42.8%	0.6%
Car	4	2003	2767	4360	95.4%	3.5%	15.8%	82.6%	1.6%		99.3%		0.7%	92.4%	52.1%	1.1%
Car	4	2004	2805	4405	95.3%	3.6%	14.4%	82.5%	2.7%		99.4%		0.6%	96.0%	55.1%	1.9%
Car	4	2005	2877	4506	94.4%	4.3%	13.0%	83.0%	3.8%		99.3%		0.7%	94.4%	66.6%	3.4%
Car	4	2006	2878	4572	94.5%	4.4%	13.5%	82.8%	3.6%		98.9%		1.1%	95.5%	73.0%	2.9%
Car	4	2007	2971	4745	95.5%	3.3%	10.8%	73.5%	15.7%	0.5%	99.5%			97.2%	70.0%	5.7%
Car	4	2008	2999	4801	94.3%	4.6%	10.1%	72.0%	18.0%	3.2%	96.8%			99.0%	68.1%	5.8%
Car	4	2009	3059	4952	95.4%	4.2%	7.6%	78.5%	13.9%	2.9%	96.1%		1.0%	99.5%	82.1%	4.2%
Car	4	2010	3255	5310	96.8%	2.8%	5.6%	72.9%	19.1%	3.1%	95.5%		1.4%	98.8%	94.1%	8.7%
Car	4	2011	3234	5371	95.2%	4.5%	5.7%	76.7%	17.2%	14.7%	83.8%		1.5%	99.1%	95.3%	6.1%
Car	4	2012	3367	5517	94.8%	3.6%	5.8%	86.0%	18.7%	23.5%	75.0%		1.5%	99.2%	97.6%	7.0%
Car	4	2013	3435	5711	91.9%	4.7%	7.9%	81.8%	23.5%	35.8%	62.3%		2.0%	99.2%	97.7%	9.6%

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Car	5	1996	84	0.011	26.3	18.5	25.9	21.7	3500	115.6	148	180	9.8	1.221	0.0515	38.0
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
Car	5	1998	97	0.012	25.7	17.9	25.0	21.1	3609	120.1	148	185	9.8	1.251	0.0514	38.0
Car	5	1999	64	0.008	26.2	18.2	25.3	21.4	3663	121.2	149	180	10.1	1.213	0.0492	39.2
Car	5	2000	60	0.007	26.0	17.9	25.1	21.2	3667	121.3	148	182	10.0	1.233	0.0497	38.8
Car	5	2001	82	0.010	25.9	18.0	24.2	20.9	3745	121.3	148	195	9.7	1.322	0.0522	39.4
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
Car	5	2003	36	0.005	26.8	18.1	25.6	21.6	3778	118.7	150	191	9.9	1.270	0.0506	40.9
Car	5	2004	110	0.015	26.8	18.0	25.4	21.6	3804	119.2	152	199	9.7	1.312	0.0524	41.1
Car	5	2005	134	0.017	27.6	18.3	26.1	22.1	3656	113.9	152	183	10.1	1.202	0.0498	40.4
Car	5	2006	190	0.024	28.5	18.8	27.2	22.8	3562	107.4	152	171	10.3	1.130	0.0480	40.6
Car	5	2007	201	0.025	28.6	18.9	27.2	22.9	3541	107.1	151	166	10.5	1.096	0.0468	40.5
Car	5	2008	175	0.024	29.5	19.5	28.0	23.6	3473	104.5	151	174	10.0	1.148	0.0500	40.9
Car	5	2009	120	0.021	29.5	19.6	27.8	23.5	3463	104.1	151	173	10.0	1.140	0.0498	40.7
Car	5	2010	103	0.017	30.8	20.5	28.5	24.4	3430	105.5	151	169	10.1	1.123	0.0494	41.9
Car	5	2011	113	0.020	32.3	23.0	30.9	26.9	3531	108.4	151	179	9.9	1.182	0.0506	47.6
Car	5	2012	233	0.032	31.8	21.1	30.5	25.6	3575	110.2	152	180	10.0	1.183	0.0501	45.7
Car	5	2013	247	0.032	32.1	22.4	30.4	26.3	3544	110.5	152	177	10.1	1.170	0.0499	46.7

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
Car	5	1975											100.0%			
Car	5	1976											100.0%			
Car	5	1977	2214	4428									100.0%			
Car	5	1978	1873	3249	58.9%		8.1%				58.9%		41.1%			
Car	5	1979	2090	3818	40.4%		8.9%				38.0%		62.0%			
Car	5	1980	2208	3744	56.6%		18.5%				41.9%		58.1%			
Car	5	1981	2330	3971	51.0%		21.5%				40.8%		59.2%			
Car	5	1982	2460	4501	37.1%		11.0%				35.3%		64.7%			
Car	5	1983	2505	4638	32.2%	0.8%	11.7%				29.0%		71.0%			
Car	5	1984	2334	3929	65.8%	2.6%	18.2%				68.4%		31.6%			
Car	5	1985	2265	3837	63.1%	4.1%	15.6%				67.3%		32.7%			
Car	5	1986	2206	3357	84.9%	12.6%	28.4%				97.5%		2.5%			
Car	5	1987	2253	3499	70.4%	24.0%	36.5%				94.4%		5.6%			
Car	5	1988	2155	3289	60.5%	36.0%	56.1%				96.5%		3.5%			
Car	5	1989	2174	3726	86.8%	10.9%	29.2%				97.7%		2.3%			
Car	5	1990	2125	3630	74.5%	19.0%	30.8%				93.5%		6.5%	13.1%		
Car	5	1991	2230	3871	69.0%	16.4%	24.5%	55.2%			85.4%		14.6%	13.8%		
Car	5	1992	2211	3867	88.6%	1.1%	17.1%	72.5%			89.7%		10.3%	86.6%		
Car	5	1993	2446	4290	93.3%	1.8%	15.7%	79.4%			100.0%			95.1%	67.1%	
Car	5	1994	2491	4364	99.1%	0.9%	9.8%	90.2%			100.0%			100.0%	54.9%	
Car	5	1995	2610	4580	97.6%	2.4%	8.7%	91.3%			100.0%			100.0%	66.1%	
Car	5	1996	2514	4399	100.0%		4.8%	95.2%			100.0%			100.0%	53.2%	
Car	5	1997	2533	4433	100.0%		3.2%	96.8%			100.0%			100.0%	46.9%	
Car	5	1998	2530	4572	78.6%	21.4%	3.3%	96.7%			100.0%			100.0%	50.9%	
Car	5	1999	2599	4752	72.6%	27.4%	2.6%	97.4%			100.0%			100.0%	51.9%	
Car	5	2000	2572	4711	74.9%	25.1%	1.9%	98.1%			100.0%			100.0%	100.0%	
Car	5	2001	2546	4765	67.1%	32.9%	2.6%	97.4%			100.0%			100.0%	100.0%	
Car	5	2002	2584	4881	73.2%	26.8%	1.7%	98.3%			100.0%			100.0%	100.0%	
Car	5	2003	2572	4866	64.5%	25.1%	4.0%	96.0%			100.0%			100.0%	100.0%	
Car	5	2004	2571	4896	62.4%	37.6%	3.8%	96.2%			100.0%			100.0%	100.0%	
Car	5	2005	2513	4602	76.3%	23.7%	11.2%	88.8%			100.0%			100.0%	67.3%	
Car	5	2006	2445	4366	86.1%	13.9%	11.3%	88.7%			100.0%			100.0%	39.2%	
Car	5	2007	2447	4336	89.0%	11.0%	12.7%	87.3%			100.0%			100.0%	22.8%	
Car	5	2008	2463	4275	98.0%	2.0%	14.2%	85.8%			100.0%			100.0%	16.1%	
Car	5	2009	2449	4239	98.0%	2.0%	13.7%	86.3%			100.0%			100.0%	21.8%	
Car	5	2010	2577	4424	99.2%	0.8%	8.9%	91.1%			100.0%			100.0%	100.0%	
Car	5	2011	2927	5156	100.0%		9.0%	91.0%			100.0%			100.0%	93.3%	
Car	5	2012	2823	5035	99.8%	0.2%	6.9%	93.1%		0.2%	99.8%			100.0%	100.0%	
Car	5	2013	2919	5166	97.3%	2.7%	8.9%	91.1%		0.1%	99.9%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
Car	6	1975	1533	0.186	18.4	14.6	17.2	15.7	3625		225	105	15.7	0.485	0.0295	28.5
Car	6	1976	1935	0.199	19.3	15.4	17.9	16.4	3716		231	100	16.7	0.445	0.0273	30.6
Car	6	1977	1851	0.164	19.6	15.6	18.2	16.7	3753	106.6	229	105	16.1	0.471	0.0284	31.4
Car	6	1978	2325	0.208	20.2	15.9	19.2	17.2	3482	108.6	221	107	14.8	0.495	0.0311	30.0
Car	6	1979	2187	0.203	20.4	16.1	19.2	17.4	3421	108.8	218	109	14.4	0.508	0.0320	29.7
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
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
Car	6	1982	2080	0.266	23.0	17.7	22.5	19.6	3404	112.9	214	114	13.8	0.548	0.0338	33.5
Car	6	1983	1858	0.232	23.8	18.3	23.5	20.3	3373	111.0	211	116	13.6	0.565	0.0346	34.3
Car	6	1984	2455	0.230	24.1	18.5	23.8	20.5	3364	111.3	205	117	13.4	0.586	0.0350	34.6
Car	6	1985	2498	0.232	24.1	18.2	24.3	20.6	3387	111.8	206	124	12.9	0.617	0.0368	34.8
Car	6	1986	2694	0.245	24.9	18.7	25.5	21.2	3377	112.0	200	134	12.1	0.683	0.0398	35.9
Car	6	1987	2489	0.232	25.1	18.5	26.1	21.4	3414	112.9	198	143	11.6	0.733	0.0419	36.5
Car	6	1988	2985	0.278	25.9	18.9	26.8	21.9	3397	113.6	193	142	11.5	0.744	0.0418	37.4
Car	6	1989	3157	0.315	25.7	18.6	26.6	21.7	3424	114.8	194	146	11.4	0.762	0.0429	37.2
Car	6	1990	2989	0.339	25.4	18.3	26.4	21.5	3504	114.0	197	150	11.4	0.773	0.0431	37.7
Car	6	1991	2635	0.309	25.3	18.2	26.0	21.3	3490	113.6	197	156	11.0	0.796	0.0448	37.2
Car	6	1992	3067	0.378	25.4	18.0	26.2	21.3	3500	114.3	199	158	10.9	0.810	0.0454	37.3
Car	6	1993	3255	0.385	25.8	18.3	26.2	21.5	3488	113.9	199	158	10.9	0.805	0.0454	37.6
Car	6	1994	3127	0.372	25.6	18.0	26.0	21.3	3534	113.2	198	159	10.9	0.812	0.0451	37.7
Car	6	1995	3667	0.390	26.0	18.2	26.6	21.7	3532	113.1	195	172	10.3	0.888	0.0487	38.3
Car	6	1996	3020	0.383	26.1	18.1	26.5	21.6	3552	113.6	194	172	10.3	0.894	0.0485	38.4
Car	6	1997	3006	0.361	25.9	17.8	26.3	21.4	3574	114.5	197	179	10.1	0.918	0.0502	38.3
Car	6	1998	3090	0.388	26.2	17.9	26.5	21.6	3542	113.3	194	180	10.0	0.934	0.0507	38.3
Car	6	1999	3589	0.428	26.2	17.8	26.2	21.5	3577	113.2	192	187	9.8	0.980	0.0521	38.5
Car	6	2000	3910	0.428	26.3	17.8	26.2	21.5	3585	113.9	191	189	9.7	1.001	0.0528	38.6
Car	6	2001	3464	0.412	26.3	17.8	26.0	21.5	3587	112.9	191	194	9.5	1.025	0.0540	38.6
Car	6	2002	3273	0.394	26.6	17.9	25.9	21.6	3606	114.0	195	200	9.3	1.036	0.0555	39.0
Car	6	2003	3118	0.394	26.8	17.9	26.2	21.7	3602	112.3	194	201	9.3	1.040	0.0558	39.2
Car	6	2004	3087	0.410	26.6	17.6	25.8	21.5	3692	113.5	199	209	9.1	1.061	0.0567	39.7
Car	6	2005	2927	0.365	26.7	17.6	25.8	21.5	3777	115.9	202	214	9.1	1.066	0.0566	40.7
Car	6	2006	3068	0.384	26.8	17.7	25.7	21.5	3837	115.5	203	225	8.8	1.119	0.0588	41.4
Car	6	2007	2669	0.330	26.8	17.7	25.9	21.6	3885	114.1	206	233	8.7	1.140	0.0601	42.1
Car	6	2008	2402	0.328	27.0	17.7	26.2	21.7	3943	113.5	206	242	8.5	1.184	0.0615	43.0
Car	6	2009	1332	0.236	27.2	17.9	26.4	21.9	3972	112.4	208	252	8.3	1.214	0.0634	43.7
Car	6	2010	1406	0.232	27.3	17.9	26.3	21.9	3979	112.5	208	257	8.2	1.246	0.0648	43.7
Car	6	2011	1510	0.264	28.0	18.4	27.2	22.6	4013	111.4	207	266	8.0	1.288	0.0663	45.4
Car	6	2012	1338	0.181	28.4	18.5	27.9	22.9	3993	112.6	211	284	7.6	1.350	0.0712	45.9
Car	6	2013	1509	0.195	29.0	18.8	28.4	23.3	4032		213	295	7.4	1.386	0.0733	47.1

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
Car	6	1975					19.3%	0.1%			8.3%					
Car	6	1976					15.2%				4.7%					
Car	6	1977	1782	3364			11.9%				6.7%					
Car	6	1978	1878	3273			9.1%	8.3%			5.3%					
Car	6	1979	1893	3245	0.5%		9.1%	8.2%			6.9%					
Car	6	1980	2050	3411	22.0%	1.5%	8.2%	25.7%			4.3%		0.2%			
Car	6	1981	2153	3650	14.2%	0.8%	5.4%	58.8%			6.8%		0.3%			
Car	6	1982	2230	3802	19.5%	1.1%	5.3%	89.3%			9.8%	8.0%	2.6%			
Car	6	1983	2265	3824	22.4%	1.7%	6.6%	90.1%			12.3%		2.0%			
Car	6	1984	2291	3854	31.5%	0.9%	6.1%	91.9%			21.0%	8.8%	1.4%			
Car	6	1985	2304	3902	48.6%	0.0%	6.3%	92.7%			41.1%	21.6%	0.6%			
Car	6	1986	2392	4046	63.4%	0.3%	6.9%	91.1%			64.7%	15.4%	0.3%	1.1%		
Car	6	1987	2423	4139	73.0%	0.2%	7.9%	89.2%			88.8%	7.9%	0.8%	4.1%		
Car	6	1988	2505	4258	83.8%	0.2%	5.8%	92.5%			97.6%	2.3%		6.3%		
Car	6	1989	2502	4282	84.1%	0.3%	5.0%	93.0%			99.8%	0.2%		6.8%		
Car	6	1990	2458	4306	86.3%	0.1%	3.9%	94.3%			99.8%	0.1%	0.0%	8.5%		
Car	6	1991	2430	4241	87.8%	0.4%	4.3%	93.7%			99.9%		0.1%	10.0%	0.6%	
Car	6	1992	2442	4275	88.6%	1.3%	4.2%	93.1%			99.9%	0.1%	0.0%	14.2%	3.1%	
Car	6	1993	2462	4295	88.2%	0.3%	4.3%	93.8%			100.0%	0.0%		18.1%	2.6%	
Car	6	1994	2419	4275	86.4%	0.2%	4.3%	94.2%			100.0%		0.0%	20.7%	2.2%	
Car	6	1995	2457	4337	87.4%	0.2%	4.4%	93.9%			99.8%		0.2%	29.8%	6.7%	
Car	6	1996	2461	4373	88.9%	0.7%	4.4%	94.3%			99.9%		0.1%	34.1%	8.3%	
Car	6	1997	2458	4396	87.8%	0.6%	3.5%	96.5%			99.9%		0.1%	35.7%	9.8%	
Car	6	1998	2451	4345	87.8%	1.1%	4.0%	96.0%			99.9%		0.1%	36.9%	13.3%	
Car	6	1999	2439	4367	87.9%	1.1%	4.0%	95.8%			99.9%		0.1%	50.1%	16.2%	
Car	6	2000	2460	4413	85.7%	1.0%	5.0%	94.9%			100.0%			51.9%	22.8%	
Car	6	2001	2434	4366	82.1%	3.1%	4.9%	94.9%			100.0%			51.3%	25.0%	
Car	6	2002	2472	4456	83.3%	4.0%	3.8%	96.0%	0.1%		100.0%			53.5%	23.6%	
Car	6	2003	2449	4411	77.7%	3.7%	5.3%	94.5%	0.2%		100.0%			52.8%	31.8%	
Car	6	2004	2448	4525	76.9%	6.6%	4.5%	95.3%	0.1%		100.0%			58.9%	33.6%	
Car	6	2005	2503	4736	72.4%	7.1%	3.1%	95.4%	1.4%		99.8%		0.2%	58.5%	33.0%	0.7%
Car	6	2006	2494	4798	63.8%	7.2%	3.7%	94.6%	1.6%		99.8%		0.2%	67.2%	52.5%	0.1%
Car	6	2007	2474	4817	66.7%	9.4%	3.1%	93.1%	3.9%		99.9%		0.1%	67.0%	66.5%	0.3%
Car	6	2008	2475	4889	60.4%	12.6%	2.8%	93.9%	3.3%	3.0%	96.8%		0.2%	73.0%	64.3%	0.0%
Car	6	2009	2475	4922	57.8%	14.2%	2.2%	92.5%	5.0%	9.3%	90.5%		0.2%	76.2%	83.1%	0.0%
Car	6	2010	2475	4929	50.0%	14.9%	2.4%	91.7%	5.7%	17.1%	82.8%		0.1%	84.1%	84.9%	0.1%
Car	6	2011	2525	5073	48.1%	18.0%	2.6%	91.9%	4.9%	20.8%	78.5%		0.7%	86.5%	97.4%	0.0%
Car	6	2012	2589	5169	51.2%	16.4%	2.4%	96.7%	6.2%	38.6%	61.2%		0.2%	100.0%	99.8%	0.1%
Car	6	2013			45.6%	18.9%	4.0%	95.1%	5.3%	42.5%	57.4%		0.1%	100.0%	99.9%	0.4%

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
Car	8	1975	4840	0.588	13.4	10.5	12.9	11.5	4732		376	167	13.4	0.446	0.0354	27.3
Car	8	1976	5729	0.589	15.1	11.9	14.4	12.9	4689		368	165	13.4	0.448	0.0352	30.3
Car	8	1977	7132	0.631	16.2	12.7	15.3	13.8	4450	119.0	348	158	13.2	0.455	0.0356	30.8
Car	8	1978	5882	0.526	17.2	13.4	16.7	14.7	4166	119.2	336	154	12.8	0.460	0.0371	30.8
Car	8	1979	5354	0.496	17.6	13.8	16.7	15.0	4060	120.6	324	149	12.9	0.460	0.0368	30.6
Car	8	1980	2169	0.230	19.1	14.7	18.7	16.3	3920	120.6	309	135	13.6	0.439	0.0346	32.4
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
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
Car	8	1983	1859	0.232	20.1	15.1	20.6	17.2	3946	125.0	298	143	12.9	0.482	0.0364	34.0
Car	8	1984	2316	0.217	20.3	15.3	20.9	17.4	3914	122.3	300	144	12.8	0.483	0.0371	34.1
Car	8	1985	2229	0.207	21.7	16.3	22.4	18.6	3895	122.8	296	151	12.4	0.509	0.0389	36.2
Car	8	1986	1651	0.150	22.5	16.7	23.4	19.2	3813	120.2	299	153	12.0	0.511	0.0403	36.6
Car	8	1987	1387	0.129	22.2	16.4	22.9	18.9	3846	120.2	299	156	12.0	0.520	0.0407	36.3
Car	8	1988	1247	0.116	22.6	16.5	23.4	19.2	3854	121.5	301	164	11.6	0.544	0.0430	37.0
Car	8	1989	1071	0.107	22.7	16.5	23.6	19.2	3831	121.5	300	160	11.6	0.535	0.0423	36.9
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
Car	8	1991	905	0.106	22.8	16.3	23.7	19.2	3947	122.0	298	198	10.0	0.669	0.0504	37.9
Car	8	1992	951	0.117	22.9	16.3	23.8	19.3	4006	124.1	295	208	9.8	0.714	0.0523	38.7
Car	8	1993	791	0.094	22.8	16.0	23.8	19.1	4010	123.8	296	215	9.6	0.736	0.0542	38.5
Car	8	1994	933	0.111	22.9	16.1	23.7	19.2	3989	121.2	292	225	9.2	0.776	0.0566	38.3
Car	8	1995	1014	0.108	22.9	15.9	23.8	19.1	4005	120.3	289	230	9.0	0.803	0.0575	38.3
Car	8	1996	775	0.098	23.3	16.1	24.1	19.4	4018	122.9	289	241	8.7	0.841	0.0602	39.0
Car	8	1997	780	0.094	23.2	16.0	23.7	19.3	4001	122.2	279	248	8.5	0.891	0.0620	38.6
Car	8	1998	672	0.084	23.1	15.9	23.3	19.1	3971	117.5	281	256	8.2	0.918	0.0648	38.0
Car	8	1999	666	0.079	23.2	15.8	23.5	19.2	3968	119.0	283	251	8.4	0.890	0.0635	38.1
Car	8	2000	743	0.081	23.3	15.8	23.4	19.2	3986	117.5	281	277	7.7	0.989	0.0697	38.3
Car	8	2001	673	0.080	23.4	15.8	23.5	19.2	3994	116.5	279	261	8.2	0.939	0.0657	38.4
Car	8	2002	617	0.074	23.5	15.8	23.1	19.2	4002	109.8	281	270	8.0	0.965	0.0680	38.4
Car	8	2003	625	0.079	23.3	15.6	23.0	19.0	4163	112.7	281	276	8.1	0.987	0.0672	39.6
Car	8	2004	555	0.074	23.2	15.3	23.0	18.9	4181	113.3	282	277	8.2	0.984	0.0671	39.6
Car	8	2005	574	0.072	23.2	15.4	22.7	18.8	4226	112.7	294	297	7.8	1.011	0.0713	39.9
Car	8	2006	673	0.084	22.8	15.1	22.5	18.6	4214	115.1	304	312	7.4	1.025	0.0747	39.2
Car	8	2007	514	0.064	22.7	14.9	22.5	18.5	4232	111.3	305	324	7.3	1.063	0.0775	39.2
Car	8	2008	466	0.064	22.4	14.8	22.2	18.3	4264	112.1	305	324	7.4	1.066	0.0770	39.1
Car	8	2009	237	0.042	22.3	14.7	22.0	18.1	4288	109.7	312	348	7.0	1.118	0.0820	39.1
Car	8	2010	283	0.047	23.3	15.3	23.2	19.0	4274	109.8	324	365	6.7	1.129	0.0864	40.7
Car	8	2011	288	0.050	23.3	15.3	23.3	19.0	4343	111.3	316	374	6.7	1.189	0.0872	41.4
Car	8	2012	213	0.029	23.4	15.3	23.4	19.0	4360	106.9	323	423	6.0	1.334	0.0977	41.7
Car	8	2013	270	0.035	23.6	15.4	23.9	19.3	4365	105.3	321	433	5.9	1.379	0.1000	42.2

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
Car	8	1975			1.7%		1.6%				0.7%					
Car	8	1976			2.0%		1.2%				1.4%					
Car	8	1977	1651	3665	1.8%		1.0%				1.1%					
Car	8	1978	1777	3680	2.1%		1.2%	9.5%			1.9%		0.6%			
Car	8	1979	1826	3698	3.7%		1.4%	12.9%			2.2%		2.6%			
Car	8	1980	1999	3939	7.6%		0.8%	40.5%			1.4%	3.0%	9.8%			
Car	8	1981	2168	4331	8.8%		1.1%	80.4%			0.8%	13.0%	16.8%			
Car	8	1982	2169	4320	5.5%		3.9%	90.8%			1.3%	9.1%	11.7%			
Car	8	1983	2154	4274	9.6%		3.5%	95.5%			1.0%	34.4%	2.2%			
Car	8	1984	2130	4202	9.3%		3.2%	95.8%			5.2%	32.5%	0.7%			
Car	8	1985	2284	4471	18.2%		2.5%	96.0%			5.1%	42.4%	0.1%			
Car	8	1986	2315	4440	12.2%		4.3%	93.2%			36.2%	12.2%		0.2%		
Car	8	1987	2278	4406	14.2%		4.4%	92.4%			42.0%	13.9%		0.2%		
Car	8	1988	2338	4540	16.4%		6.2%	91.5%			56.4%	19.8%		0.2%		
Car	8	1989	2343	4523	21.2%		7.2%	90.3%			54.0%	36.9%		0.2%		
Car	8	1990	2300	4568	28.4%		6.7%	91.4%			85.9%	10.1%		7.8%	6.6%	
Car	8	1991	2351	4673	20.5%	0.1%	5.1%	92.7%			70.9%	29.1%		7.4%	6.4%	
Car	8	1992	2407	4848	21.9%	0.0%	3.7%	94.3%			78.6%	21.4%		8.4%	8.9%	
Car	8	1993	2382	4806	23.2%	0.0%	5.3%	92.8%			84.7%	15.3%		16.6%	7.3%	
Car	8	1994	2331	4679	19.3%	0.0%	6.1%	92.3%			100.0%			21.9%	7.2%	
Car	8	1995	2307	4643	24.1%		6.5%	91.4%			100.0%			26.5%	6.8%	
Car	8	1996	2385	4817	27.9%		6.7%	93.3%			100.0%			36.2%	5.4%	
Car	8	1997	2357	4720	28.3%	0.3%	5.2%	94.8%			100.0%			44.7%	12.8%	
Car	8	1998	2251	4487	32.5%	0.3%	7.2%	92.8%			100.0%			52.6%	15.5%	
Car	8	1999	2285	4551	31.4%	0.3%	7.8%	92.1%			100.0%			44.8%	8.5%	
Car	8	2000	2264	4532	22.0%	0.8%	8.2%	91.8%			100.0%			48.7%	11.3%	
Car	8	2001	2246	4507	24.1%	1.4%	9.3%	90.7%			100.0%			53.5%	15.4%	
Car	8	2002	2112	4254	23.7%	1.0%	11.0%	89.0%			100.0%			60.2%	17.3%	
Car	8	2003	2153	4535	16.2%	1.5%	10.2%	89.8%			100.0%			53.9%	14.4%	
Car	8	2004	2151	4553	15.0%	4.8%	10.2%	89.8%			100.0%			53.2%	21.1%	
Car	8	2005	2132	4558	11.2%	5.7%	10.5%	89.3%			100.0%			52.7%	30.4%	
Car	8	2006	2146	4559	17.4%	4.8%	8.9%	90.8%			100.0%			50.2%	28.6%	
Car	8	2007	2064	4413	15.5%	5.7%	13.4%	86.4%			100.0%			59.3%	31.8%	
Car	8	2008	2058	4429	14.7%	6.0%	13.4%	86.0%		4.6%	95.4%			57.2%	33.7%	0.5%
Car	8	2009	2005	4341	9.5%	7.7%	14.0%	84.9%		6.0%	94.0%			53.2%	50.3%	0.1%
Car	8	2010	2097	4513	6.0%	10.1%	22.2%	76.7%	0.0%	9.0%	91.0%			44.7%	61.2%	0.0%
Car	8	2011	2126	4649	6.5%	12.1%	15.4%	82.1%	0.0%	22.0%	78.0%			53.4%	58.1%	0.2%
Car	8	2012	2047	4505		16.2%	20.1%	77.1%	0.0%	35.8%	64.2%			59.3%	83.7%	0.1%
Car	8	2013	2036	4495		21.3%	24.6%	72.7%	0.0%	36.0%	64.0%			57.8%	82.4%	0.0%

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Car	Other	1997	4	0.001	17.1	11.5	18.8	14.5	4218	75.6	403	405	6.0	1.018	0.0992	30.8
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
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
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
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
Car	Other	2002	4	0.000	17.6	11.5	19.0	14.7	4126	80.7	399	410	5.9	1.042	0.1021	31.0
Car	Other	2003	5	0.001	17.0	11.2	18.2	14.2	4101	82.0	408	483	5.1	1.216	0.1206	29.7
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
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
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
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
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
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
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
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
Car	Other	2012	6	0.001	17.8	11.8	18.7	14.9	5018	90.7	360	549	5.4	1.531	0.1128	37.6
Car	Other	2013	5	0.001	18.0	12.0	19.2	15.2	5125	93.7	398	596	5.2	1.512	0.1225	39.3

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
Car	Other	1975									100.0%					
Car	Other	1976									100.0%					
Car	Other	1977	878	1948			10.9%				100.0%					
Car	Other	1978	906	2038							100.0%					
Car	Other	1979	866	1949							100.0%					
Car	Other	1980	1027	2157			11.5%				64.5%					
Car	Other	1981														
Car	Other	1982	1234	2468							100.0%					
Car	Other	1983	1226	2448			2.2%				100.0%					
Car	Other	1984	1204	2408			0.6%				100.0%					
Car	Other	1985	1189	2377			2.8%				100.0%					
Car	Other	1986	1157	2313			6.4%				100.0%			6.4%		
Car	Other	1987	1094	2186			11.0%				100.0%			11.0%		
Car	Other	1988	1302	2731			5.4%	32.7%			100.0%			5.4%		
Car	Other	1989	1204	2599			3.9%	33.8%			98.4%	1.6%		3.9%		
Car	Other	1990	1182	2589			4.8%	37.0%			100.0%			4.8%		
Car	Other	1991	1234	2727	1.6%		12.2%	53.4%			100.0%			5.3%		
Car	Other	1992	1191	2691		1.1%	14.4%	24.4%			100.0%			26.4%	20.6%	
Car	Other	1993	1131	2593		0.4%	30.9%	25.9%			100.0%			43.4%	40.5%	
Car	Other	1994	1009	2150		1.5%	40.5%	36.8%			100.0%			25.0%	24.9%	
Car	Other	1995	1160	2630		0.8%	33.1%	30.4%			100.0%			42.4%	53.5%	
Car	Other	1996	1233	2669		0.6%	44.5%	55.5%			100.0%			26.9%	55.5%	
Car	Other	1997	1112	2459		1.8%	40.8%	59.2%			100.0%			47.2%	61.6%	
Car	Other	1998	1198	2626		2.9%	37.0%	63.0%			100.0%			39.7%	67.2%	
Car	Other	1999	1044	2364		5.2%	47.1%	52.9%			100.0%			45.8%	58.9%	
Car	Other	2000	1001	2188			56.6%	43.4%			100.0%			53.9%	33.8%	
Car	Other	2001	1347	2983		2.7%	39.7%	60.3%			100.0%			56.7%	21.8%	
Car	Other	2002	1247	2683		2.4%	41.0%	59.0%			100.0%			65.1%	11.1%	
Car	Other	2003	1199	2594		1.6%	49.4%	50.6%			100.0%			63.2%	22.4%	
Car	Other	2004	1034	2398		32.5%	37.6%	62.4%			100.0%			100.0%	49.5%	
Car	Other	2005	1124	2717		37.1%	24.9%	75.1%			100.0%			83.5%	80.0%	
Car	Other	2006	1347	3182		31.2%	12.1%	87.9%			100.0%			88.7%	89.4%	
Car	Other	2007	1419	3511		41.6%	5.1%	94.9%			100.0%			100.0%	68.3%	
Car	Other	2008	1324	3129		39.7%	18.5%	81.5%		12.9%	87.1%			90.1%	78.5%	
Car	Other	2009	1223	2957		33.8%	19.0%	78.2%		15.2%	84.8%			88.6%	58.4%	
Car	Other	2010	1294	3195		39.3%	13.0%	74.3%		33.1%	66.9%			92.8%	93.1%	
Car	Other	2011	1326	3446		51.1%	12.9%	61.4%		56.6%	43.4%			100.0%	85.3%	
Car	Other	2012	1364	3578		65.3%	6.6%	84.9%		41.7%	58.3%			100.0%	85.5%	
Car	Other	2013	1445	3894		44.6%	14.2%	78.8%		41.6%	58.4%			86.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
Car SUV	4	1975	6	0.614	12.0	9.0	12.2	10.2	4000		257	110	15.7	0.428	0.0275	20.5
Car SUV	4	1976														
Car SUV	4	1977														
Car SUV	4	1978														
Car SUV	4	1979	9	0.583	20.8	17.5	17.7	17.6	2750		121	80	15.4	0.661	0.0291	24.2
Car SUV	4	1980	0	0.022	17.0	14.1	14.8	14.4	4000		196	77	20.7	0.393	0.0193	28.8
Car SUV	4	1981														
Car SUV	4	1982	11	0.865	23.6	20.7	19.1	19.9	2500		151	84	13.7	0.556	0.0336	24.9
Car SUV	4	1983	14	0.407	23.4	20.3	19.1	19.7	2577		148	87	13.6	0.590	0.0341	25.6
Car SUV	4	1984	4	0.074	23.8	20.2	20.0	20.1	2622		143	91	13.3	0.636	0.0349	26.9
Car SUV	4	1985	8	0.094	25.0	20.0	22.9	21.2	3284		151	98	15.0	0.648	0.0301	35.0
Car SUV	4	1986	8	0.143	26.0	20.4	24.3	22.0	3364		150	107	14.3	0.710	0.0320	37.1
Car SUV	4	1987	7	0.069	25.6	19.8	24.3	21.7	3381		151	100	15.1	0.665	0.0299	36.7
Car SUV	4	1988	4	0.038	26.2	20.1	24.8	22.0	3363		151	102	14.9	0.677	0.0306	37.2
Car SUV	4	1989	5	0.050	22.7	17.6	21.1	19.1	3445		150	113	13.8	0.750	0.0328	32.9
Car SUV	4	1990	10	0.160	23.9	18.6	21.5	19.9	3377		140	106	14.3	0.759	0.0315	33.6
Car SUV	4	1991	51	0.230	22.8	18.4	19.3	18.8	3263		138	92	15.7	0.685	0.0285	30.9
Car SUV	4	1992	56	0.229	23.3	18.5	19.8	19.1	3128		130	99	14.3	0.772	0.0317	30.2
Car SUV	4	1993	56	0.119	23.0	18.3	19.4	18.8	3159		131	99	14.3	0.767	0.0316	29.9
Car SUV	4	1994	77	0.232	24.3	18.7	21.1	19.9	3149		124	105	13.7	0.846	0.0333	31.1
Car SUV	4	1995	38	0.175	26.7	20.1	23.5	21.7	3083		116	95	14.5	0.828	0.0309	33.1
Car SUV	4	1996	61	0.211	27.7	20.6	24.5	22.5	3076		122	114	12.6	0.945	0.0373	34.6
Car SUV	4	1997	164	0.456	27.5	20.2	24.4	22.2	3083		130	125	11.7	0.973	0.0409	34.3
Car SUV	4	1998	88	0.193	27.6	20.3	24.4	22.3	3238		122	123	12.3	1.013	0.0382	36.1
Car SUV	4	1999	92	0.189	27.7	20.3	24.2	22.2	3286		124	132	11.8	1.073	0.0403	36.5
Car SUV	4	2000	103	0.168	26.5	19.3	23.0	21.2	3359		123	133	12.0	1.086	0.0397	35.7
Car SUV	4	2001	200	0.269	27.0	19.5	23.4	21.5	3390		126	137	11.8	1.096	0.0409	36.6
Car SUV	4	2002	167	0.276	27.7	19.6	24.6	22.1	3387		130	143	11.4	1.109	0.0429	37.6
Car SUV	4	2003	185	0.322	28.3	19.6	25.4	22.5	3422		135	144	11.4	1.072	0.0424	38.5
Car SUV	4	2004	159	0.250	28.6	19.6	25.7	22.6	3483		143	151	11.2	1.060	0.0441	39.4
Car SUV	4	2005	193	0.237	29.2	20.2	25.3	22.8	3410		139	153	10.8	1.100	0.0451	39.0
Car SUV	4	2006	213	0.284	29.5	20.3	25.8	23.1	3522		138	152	11.1	1.101	0.0433	40.9
Car SUV	4	2007	293	0.319	29.1	19.9	25.8	22.9	3569		139	163	10.8	1.173	0.0454	41.0
Car SUV	4	2008	379	0.411	29.8	20.4	26.3	23.4	3624		141	163	10.7	1.156	0.0452	42.7
Car SUV	4	2009	296	0.487	30.4	20.7	27.1	23.9	3632		147	170	10.4	1.158	0.0469	43.8
Car SUV	4	2010	528	0.577	31.6	21.2	28.6	24.9	3708		149	178	10.3	1.198	0.0482	46.3
Car SUV	4	2011	796	0.659	31.6	21.1	28.9	25.0	3722		147	175	10.4	1.196	0.0472	46.7
Car SUV	4	2012	820	0.646	32.0	21.4	29.0	25.1	3757		146	180	10.4	1.240	0.0481	47.4
Car SUV	4	2013	1112	0.729	32.9	21.9	29.9	25.8	3799		139	183	10.4	1.340	0.0481	49.2

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
Car SUV	4	1975					100.0%									
Car SUV	4	1976														
Car SUV	4	1977														
Car SUV	4	1978														
Car SUV	4	1979														
Car SUV	4	1980					100.0%									
Car SUV	4	1981														
Car SUV	4	1982														
Car SUV	4	1983					5.5%	2.2%								
Car SUV	4	1984					24.5%									
Car SUV	4	1985					50.3%	49.7%				56.8%				
Car SUV	4	1986					54.4%	45.6%				99.8%	0.2%			
Car SUV	4	1987					61.2%	38.8%				100.0%				
Car SUV	4	1988					60.8%	39.2%				100.0%				
Car SUV	4	1989					96.8%	3.2%			56.6%	15.1%				
Car SUV	4	1990					86.9%	1.7%			45.8%	22.3%				
Car SUV	4	1991					39.4%	59.9%			12.9%	83.5%				
Car SUV	4	1992					52.2%	47.8%			28.5%	66.1%				
Car SUV	4	1993					47.3%	52.7%			24.5%	69.6%				
Car SUV	4	1994			2.9%		49.6%	17.7%			68.4%	31.6%		7.4%		
Car SUV	4	1995			0.8%		76.7%	23.3%			47.6%	52.4%				
Car SUV	4	1996			29.6%		52.5%	47.5%			100.0%			81.4%		
Car SUV	4	1997			44.6%		43.2%	43.5%			100.0%			94.7%		
Car SUV	4	1998			53.5%		35.9%	64.1%			100.0%			98.1%		
Car SUV	4	1999			57.1%		27.1%	72.9%			100.0%			87.6%		
Car SUV	4	2000			46.1%		19.1%	80.9%			100.0%			84.8%		
Car SUV	4	2001			47.2%		18.1%	81.9%			100.0%			66.2%	20.4%	
Car SUV	4	2002			77.4%		21.7%	77.9%	0.4%		100.0%			88.5%	48.6%	
Car SUV	4	2003			94.0%		19.7%	66.6%	13.6%		100.0%			91.1%	37.4%	
Car SUV	4	2004			93.6%		20.6%	71.9%	7.5%		100.0%			100.0%	54.3%	
Car SUV	4	2005			99.5%		14.3%	83.5%	2.2%		100.0%			100.0%	36.9%	2.2%
Car SUV	4	2006			100.0%		8.8%	87.4%	3.8%		100.0%			100.0%	47.2%	3.8%
Car SUV	4	2007			100.0%		3.6%	94.0%	2.4%		100.0%			100.0%	71.3%	5.0%
Car SUV	4	2008			100.0%		1.6%	84.6%	13.9%	5.3%	94.7%			100.0%	78.1%	5.7%
Car SUV	4	2009			100.0%		1.0%	84.2%	14.8%	2.7%	97.3%			100.0%	96.8%	5.5%
Car SUV	4	2010			92.6%	7.4%	0.4%	90.4%	9.2%	27.8%	72.2%			100.0%	100.0%	1.2%
Car SUV	4	2011			91.9%	8.1%	0.8%	89.9%	9.3%	28.5%	71.5%			100.0%	100.0%	0.6%
Car SUV	4	2012			89.2%	10.4%	0.7%	97.9%	14.3%	41.9%	58.1%			100.0%	100.0%	0.4%
Car SUV	4	2013			88.9%	10.7%	0.7%	99.3%	8.8%	54.2%	45.8%			100.0%	99.3%	

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
Car SUV	6	1975	2	0.224	15.8	13.4	13.3	13.4	4000		248	105	16.8	0.422	0.0261	26.7
Car SUV	6	1976	10	0.882	12.1	9.1	12.2	10.3	4000		255	119	14.9	0.467	0.0298	21.6
Car SUV	6	1977	17	0.909	14.1	11.1	13.4	12.0	4000		256	122	14.5	0.478	0.0306	24.8
Car SUV	6	1978	15	0.901	13.3	10.1	13.4	11.4	4000		257	124	14.3	0.483	0.0310	23.3
Car SUV	6	1979	4	0.264	13.9	11.1	12.8	11.8	4000		256	124	14.3	0.483	0.0310	23.7
Car SUV	6	1980	0	0.361	19.0	15.8	16.4	16.1	4000		225	100	17.4	0.444	0.0250	32.1
Car SUV	6	1981														
Car SUV	6	1982	2	0.135	22.0	17.3	20.9	18.8	3461		207	112	14.0	0.558	0.0330	32.6
Car SUV	6	1983	20	0.593	25.0	19.0	25.4	21.4	3500		173	110	14.4	0.636	0.0314	37.5
Car SUV	6	1984	51	0.926	22.5	17.3	22.3	19.2	3555		182	110	14.6	0.614	0.0311	34.5
Car SUV	6	1985	80	0.906	23.3	17.4	24.3	20.0	3488		173	110	14.4	0.636	0.0315	34.9
Car SUV	6	1986	51	0.857	21.7	16.7	21.3	18.5	3499		173	123	13.1	0.714	0.0353	32.4
Car SUV	6	1987	88	0.931	22.7	16.9	23.0	19.3	3500		181	133	12.5	0.735	0.0379	33.8
Car SUV	6	1988	105	0.962	22.6	17.0	22.4	19.2	3500		201	143	11.8	0.720	0.0409	33.6
Car SUV	6	1989	102	0.950	22.7	17.0	22.1	19.1	3500		230	149	11.3	0.664	0.0427	33.5
Car SUV	6	1990	55	0.840	22.2	16.6	21.5	18.7	3545		222	153	11.2	0.706	0.0434	33.1
Car SUV	6	1991	172	0.770	21.5	15.9	20.9	18.0	3873		238	160	11.6	0.678	0.0415	35.0
Car SUV	6	1992	187	0.771	20.9	15.5	20.2	17.5	3886		234	169	11.3	0.722	0.0436	34.1
Car SUV	6	1993	338	0.715	20.7	15.1	20.1	17.3	3927		238	184	10.5	0.774	0.0469	34.1
Car SUV	6	1994	255	0.768	21.1	15.4	20.3	17.6	3913		234	181	10.6	0.774	0.0464	34.4
Car SUV	6	1995	182	0.825	20.7	15.0	20.0	17.2	3907		235	180	10.7	0.773	0.0463	33.7
Car SUV	6	1996	226	0.789	21.3	15.3	20.4	17.6	3879		240	181	10.6	0.763	0.0468	34.2
Car SUV	6	1997	189	0.525	21.1	15.2	20.0	17.4	3938		237	187	10.4	0.797	0.0475	34.3
Car SUV	6	1998	362	0.796	21.4	15.3	20.2	17.5	3964		240	179	10.9	0.752	0.0452	34.8
Car SUV	6	1999	396	0.811	21.8	15.6	20.4	17.8	3958		231	178	10.9	0.793	0.0451	35.3
Car SUV	6	2000	499	0.809	21.4	15.2	19.9	17.4	3972		228	180	10.8	0.810	0.0454	34.6
Car SUV	6	2001	535	0.719	22.2	15.6	20.8	18.1	3901		217	194	10.0	0.913	0.0500	35.4
Car SUV	6	2002	434	0.721	22.8	15.9	21.2	18.4	3885		203	192	10.1	0.963	0.0497	36.0
Car SUV	6	2003	385	0.670	23.5	16.3	21.7	18.9	3855		203	197	9.8	0.985	0.0513	36.6
Car SUV	6	2004	466	0.729	24.0	16.4	22.5	19.3	3962		205	210	9.6	1.029	0.0530	38.4
Car SUV	6	2005	614	0.756	24.4	16.6	22.6	19.6	3976		200	203	9.9	1.020	0.0512	38.9
Car SUV	6	2006	534	0.711	24.5	16.6	22.7	19.6	4009		201	207	9.8	1.031	0.0516	39.3
Car SUV	6	2007	623	0.678	24.7	16.7	22.9	19.8	4103		207	229	9.2	1.105	0.0557	40.6
Car SUV	6	2008	542	0.587	24.9	16.7	23.2	19.9	4093		204	231	9.1	1.131	0.0565	40.8
Car SUV	6	2009	311	0.511	25.7	17.4	23.8	20.5	4047		202	240	8.8	1.190	0.0596	41.5
Car SUV	6	2010	387	0.423	26.3	17.8	24.1	20.9	4278		202	261	8.4	1.298	0.0614	44.9
Car SUV	6	2011	411	0.341	27.0	18.1	24.9	21.4	4214		203	269	8.1	1.334	0.0642	45.3
Car SUV	6	2012	449	0.354	26.1	17.5	24.2	20.8	4200		206	266	8.3	1.294	0.0635	43.9
Car SUV	6	2013	414	0.271	27.3	18.1	25.2	21.6	4360		215	284	8.1	1.323	0.0653	47.3

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
Car SUV	6	1975														
Car SUV	6	1976					76.1%									
Car SUV	6	1977					89.3%									
Car SUV	6	1978					91.9%									
Car SUV	6	1979					95.3%	4.7%								
Car SUV	6	1980						100.0%								
Car SUV	6	1981														
Car SUV	6	1982					33.9%	66.1%								
Car SUV	6	1983					28.7%	71.3%								
Car SUV	6	1984					19.0%	69.9%								
Car SUV	6	1985					12.3%	87.7%								
Car SUV	6	1986					12.0%	88.0%			0.0%	84.6%				
Car SUV	6	1987					10.8%	89.2%			35.2%	64.8%				
Car SUV	6	1988					23.1%	76.9%			50.2%	49.8%				
Car SUV	6	1989					23.8%	76.2%			44.1%	55.9%				
Car SUV	6	1990					25.2%	74.8%			66.6%	33.4%				
Car SUV	6	1991					17.0%	83.0%			60.1%	39.9%				
Car SUV	6	1992					16.3%	83.7%			80.3%	19.7%				
Car SUV	6	1993					7.4%	92.6%			99.4%	0.6%				
Car SUV	6	1994			2.5%		13.0%	87.0%			99.3%	0.7%		12.7%		
Car SUV	6	1995					4.9%	95.1%			100.0%			23.1%		
Car SUV	6	1996					5.5%	94.5%			100.0%			19.3%		
Car SUV	6	1997					6.7%	93.3%			100.0%			21.7%		
Car SUV	6	1998					5.3%	94.7%			100.0%			12.8%		
Car SUV	6	1999			5.6%		4.1%	95.9%			100.0%			27.0%	5.6%	
Car SUV	6	2000			6.2%		3.1%	96.9%			100.0%			24.5%	6.2%	
Car SUV	6	2001			34.0%		1.8%	98.2%			100.0%			35.2%	6.3%	
Car SUV	6	2002			47.2%		2.0%	98.0%			100.0%			63.6%	6.7%	
Car SUV	6	2003			53.2%		1.2%	92.7%	6.1%		100.0%			57.1%	10.4%	
Car SUV	6	2004			68.0%	2.2%	0.9%	93.1%	6.1%		100.0%			66.4%	30.4%	
Car SUV	6	2005			66.7%	18.6%	0.4%	94.4%	5.2%		100.0%			57.0%	23.6%	
Car SUV	6	2006			69.4%	11.6%	0.9%	93.4%	5.8%		100.0%			81.4%	27.4%	
Car SUV	6	2007			78.8%	6.6%	0.7%	94.7%	4.6%		100.0%			74.4%	35.1%	
Car SUV	6	2008			78.3%	8.7%	0.1%	99.9%			100.0%			82.3%	41.0%	
Car SUV	6	2009			85.1%	5.3%	0.2%	87.5%	12.3%		100.0%			88.5%	51.7%	
Car SUV	6	2010			82.7%	10.8%	0.0%	92.9%	7.1%	23.9%	76.1%			100.0%	99.9%	1.5%
Car SUV	6	2011			82.8%	12.7%		94.6%	5.4%	26.0%	74.0%			100.0%	99.5%	0.6%
Car SUV	6	2012			67.8%	22.0%		99.6%	5.4%	34.7%	65.3%			94.4%	94.4%	0.4%
Car SUV	6	2013			78.4%	16.5%		98.8%	8.1%	29.6%	70.4%			100.0%	100.0%	1.2%

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
Car SUV	8	1975	2	0.162	14.5	11.6	13.5	12.4	4000		298	135	13.8	0.450	0.0336	24.9
Car SUV	8	1976	1	0.118	15.5	11.8	15.5	13.2	3883		326	153	12.1	0.469	0.0395	25.8
Car SUV	8	1977	2	0.091	16.6	13.0	16.0	14.2	4000		314	147	12.8	0.467	0.0367	28.4
Car SUV	8	1978	2	0.099	16.3	13.1	14.8	13.8	4000		313	145	12.8	0.464	0.0363	27.7
Car SUV	8	1979	2	0.152	12.4	10.2	10.8	10.5	4000		307	127	14.1	0.413	0.0317	21.3
Car SUV	8	1980	0	0.617	16.3	13.0	15.0	13.8	4000		316	137	13.5	0.433	0.0342	27.8
Car SUV	8	1981	0	1.000	17.3	13.7	16.1	14.7	4000		318	140	13.3	0.440	0.0350	29.4
Car SUV	8	1982														
Car SUV	8	1983														
Car SUV	8	1984														
Car SUV	8	1985														
Car SUV	8	1986														
Car SUV	8	1987														
Car SUV	8	1988														
Car SUV	8	1989														
Car SUV	8	1990														
Car SUV	8	1991														
Car SUV	8	1992														
Car SUV	8	1993	79	0.167	18.0	13.1	17.8	15.1	4000		318	215	9.4	0.676	0.0538	30.1
Car SUV	8	1994														
Car SUV	8	1995														
Car SUV	8	1996														
Car SUV	8	1997	7	0.019	18.3	13.2	17.5	15.1	4000		318	215	9.4	0.676	0.0538	30.3
Car SUV	8	1998	5	0.010	18.3	13.1	17.6	15.1	4000		318	220	9.2	0.692	0.0550	30.3
Car SUV	8	1999														
Car SUV	8	2000	14	0.023	19.6	13.8	18.5	16.0	4000		287	235	8.7	0.819	0.0588	32.0
Car SUV	8	2001	9	0.012	19.8	13.7	19.3	16.3	4000		287	230	8.9	0.801	0.0575	32.5
Car SUV	8	2002	1	0.002	19.0	13.0	18.4	15.5	4000		287	270	7.8	0.941	0.0675	31.1
Car SUV	8	2003	4	0.008	22.2	15.2	21.1	18.0	4000		278	318	6.9	1.146	0.0795	36.1
Car SUV	8	2004	13	0.021	19.8	13.4	19.1	16.1	4500		279	316	7.6	1.132	0.0702	36.3
Car SUV	8	2005	6	0.007	20.3	13.3	20.7	16.7	4848		279	315	8.0	1.129	0.0651	40.4
Car SUV	8	2006	4	0.005	20.2	13.2	20.5	16.6	5000		279	317	8.2	1.136	0.0634	41.5
Car SUV	8	2007	2	0.003	19.3	12.8	19.1	15.8	5000		279	315	8.2	1.129	0.0630	39.5
Car SUV	8	2008	2	0.002	19.5	12.9	19.5	16.0	5000		279	319	8.2	1.143	0.0638	40.0
Car SUV	8	2009	1	0.002	21.0	14.0	20.5	17.1	4765		280	327	7.7	1.167	0.0690	40.8
Car SUV	8	2010	0	0.000	22.7	15.3	21.5	18.3	4500		281	337	7.2	1.199	0.0749	41.2
Car SUV	8	2011	0	0.000	22.8	15.4	21.6	18.4	4500		281	337	7.2	1.199	0.0749	41.4
Car SUV	8	2012														
Car SUV	8	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
Car SUV	8	1975					42.8%									
Car SUV	8	1976					17.0%									
Car SUV	8	1977					14.6%									
Car SUV	8	1978					14.3%									
Car SUV	8	1979					82.3%	17.7%								
Car SUV	8	1980					2.7%	82.1%								
Car SUV	8	1981						100.0%								
Car SUV	8	1982														
Car SUV	8	1983														
Car SUV	8	1984														
Car SUV	8	1985														
Car SUV	8	1986														
Car SUV	8	1987														
Car SUV	8	1988														
Car SUV	8	1989														
Car SUV	8	1990														
Car SUV	8	1991														
Car SUV	8	1992														
Car SUV	8	1993						100.0%			100.0%					
Car SUV	8	1994														
Car SUV	8	1995														
Car SUV	8	1996														
Car SUV	8	1997						100.0%			100.0%					
Car SUV	8	1998						100.0%			100.0%					
Car SUV	8	1999														
Car SUV	8	2000						100.0%			100.0%					
Car SUV	8	2001						100.0%			100.0%					
Car SUV	8	2002						100.0%			100.0%					
Car SUV	8	2003						100.0%			100.0%			68.5%	68.5%	
Car SUV	8	2004				83.6%		100.0%			100.0%			100.0%	100.0%	
Car SUV	8	2005				69.5%		100.0%			100.0%			100.0%	100.0%	
Car SUV	8	2006				63.2%		100.0%			100.0%			100.0%	100.0%	
Car SUV	8	2007				75.3%		100.0%			100.0%			100.0%	100.0%	
Car SUV	8	2008				80.3%		100.0%			100.0%			100.0%	100.0%	
Car SUV	8	2009				40.3%		100.0%			100.0%			100.0%	100.0%	
Car SUV	8	2010						100.0%			100.0%			100.0%	100.0%	
Car SUV	8	2011						100.0%			100.0%			100.0%	100.0%	
Car SUV	8	2012														
Car SUV	8	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
Car SUV	Other	1975														
Car SUV	Other	1976														
Car SUV	Other	1977														
Car SUV	Other	1978														
Car SUV	Other	1979														
Car SUV	Other	1980														
Car SUV	Other	1981														
Car SUV	Other	1982														
Car SUV	Other	1983														
Car SUV	Other	1984														
Car SUV	Other	1985														
Car SUV	Other	1986														
Car SUV	Other	1987														
Car SUV	Other	1988														
Car SUV	Other	1989														
Car SUV	Other	1990														
Car SUV	Other	1991														
Car SUV	Other	1992														
Car SUV	Other	1993														
Car SUV	Other	1994														
Car SUV	Other	1995														
Car SUV	Other	1996														
Car SUV	Other	1997														
Car SUV	Other	1998														
Car SUV	Other	1999														
Car SUV	Other	2000														
Car SUV	Other	2001														
Car SUV	Other	2002	0	0.001	34.1	35.1	25.0	28.8	3500		122	148	11.4	1.213	0.0423	50.4
Car SUV	Other	2003	0	0.000	40.9	34.8	26.3	29.6	3500		122	148	11.4	1.213	0.0423	51.7
Car SUV	Other	2004														
Car SUV	Other	2005														
Car SUV	Other	2006														
Car SUV	Other	2007														
Car SUV	Other	2008														
Car SUV	Other	2009														
Car SUV	Other	2010														
Car SUV	Other	2011														
Car SUV	Other	2012														
Car SUV	Other	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
Car SUV	Other	1975														
Car SUV	Other	1976														
Car SUV	Other	1977														
Car SUV	Other	1978														
Car SUV	Other	1979														
Car SUV	Other	1980														
Car SUV	Other	1981														
Car SUV	Other	1982														
Car SUV	Other	1983														
Car SUV	Other	1984														
Car SUV	Other	1985														
Car SUV	Other	1986														
Car SUV	Other	1987														
Car SUV	Other	1988														
Car SUV	Other	1989														
Car SUV	Other	1990														
Car SUV	Other	1991														
Car SUV	Other	1992														
Car SUV	Other	1993														
Car SUV	Other	1994														
Car SUV	Other	1995														
Car SUV	Other	1996														
Car SUV	Other	1997														
Car SUV	Other	1998														
Car SUV	Other	1999														
Car SUV	Other	2000														
Car SUV	Other	2001														
Car SUV	Other	2002			100.0%				100.0%		100.0%					
Car SUV	Other	2003			100.0%				100.0%		100.0%					
Car SUV	Other	2004														
Car SUV	Other	2005														
Car SUV	Other	2006														
Car SUV	Other	2007														
Car SUV	Other	2008														
Car SUV	Other	2009														
Car SUV	Other	2010														
Car SUV	Other	2011														
Car SUV	Other	2012														
Car SUV	Other	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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
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	76	0.115	31.1	21.1	26.9	24.0	3593		139	150	11.6	1.081	0.0417	43.1
Van	4	2013	35	0.061	32.1	21.7	26.1	24.0	3693		144	154	11.7	1.067	0.0416	44.2

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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%		37.1%		
Van	4	1995			71.1%	10.6%	1.3%	98.7%			67.4%	32.6%		67.4%		
Van	4	1996			87.7%	1.8%	0.1%	99.9%			100.0%			100.0%		
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%		1.6%	98.4%			100.0%			100.0%	52.0%	
Van	4	2013			100.0%		2.5%	97.5%	35.1%		100.0%			100.0%	100.0%	

# 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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	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
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	5	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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%					
Van	5	1995			100.0%		43.8%	56.2%			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	5	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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
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	573	0.866	26.5	17.5	25.4	21.3	4522		217	267	8.8	1.235	0.0592	48.1
Van	6	2013	518	0.913	26.2	17.4	25.2	21.1	4654		217	270	8.9	1.246	0.0582	49.1

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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%				
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%		2.2%		
Van	6	1995			69.4%	10.3%		98.6%			94.6%	5.4%		1.2%		
Van	6	1996			79.8%	2.6%		98.7%			100.0%			1.2%		
Van	6	1997			70.9%	5.4%		100.0%			100.0%			1.2%		
Van	6	1998			82.2%	3.9%		100.0%			100.0%			1.2%		
Van	6	1999			81.7%	3.3%		100.0%			100.0%			4.2%	4.2%	
Van	6	2000			85.5%	3.0%		100.0%			100.0%			20.0%	16.7%	
Van	6	2001			85.9%	3.2%		100.0%			100.0%			25.9%	21.8%	
Van	6	2002			88.6%	3.3%		100.0%			100.0%			27.6%	22.7%	
Van	6	2003			87.9%	4.8%		100.0%			100.0%			25.9%	21.0%	
Van	6	2004			90.4%	4.7%		100.0%			100.0%			54.3%	48.5%	
Van	6	2005			91.2%	5.4%		94.7%	5.3%		100.0%			38.0%	26.0%	
Van	6	2006			93.3%	4.4%		95.0%	5.0%		100.0%			47.8%	38.5%	
Van	6	2007			94.9%	2.5%		95.4%	4.6%		100.0%			53.8%	50.4%	
Van	6	2008			93.9%	3.7%		100.0%			100.0%			52.5%	47.6%	
Van	6	2009			95.2%	2.0%		100.0%			100.0%			57.1%	44.4%	
Van	6	2010			97.1%	1.2%		100.0%			100.0%			46.9%	37.1%	
Van	6	2011			92.9%	5.6%		96.6%	3.4%		100.0%			98.5%	98.5%	
Van	6	2012			94.6%	3.0%		100.0%	3.7%		100.0%			97.6%	97.6%	
Van	6	2013			94.6%	3.1%		100.0%	3.9%		100.0%			97.7%	97.7%	

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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
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	12	0.019	17.8	12.3	16.4	14.4	5871		315	285	10.4	0.903	0.0488	42.2
Van	8	2013	15	0.026	18.0	12.5	16.6	14.5	5849		318	287	10.3	0.899	0.0493	42.5

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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%			
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%				
Van	8	1995						96.1%			45.7%	54.3%				
Van	8	1996						94.2%			100.0%					
Van	8	1997						95.8%			100.0%					
Van	8	1998						100.0%			100.0%					
Van	8	1999						100.0%			100.0%					
Van	8	2000						100.0%			100.0%					
Van	8	2001				31.2%		100.0%			100.0%					
Van	8	2002						100.0%			100.0%					
Van	8	2003				11.3%		100.0%			100.0%					
Van	8	2004				10.8%		100.0%			100.0%					
Van	8	2005				11.0%		100.0%			100.0%					
Van	8	2006				8.8%		100.0%			100.0%					
Van	8	2007			44.5%	20.3%		100.0%			100.0%					
Van	8	2008				40.7%		100.0%			100.0%					
Van	8	2009				45.9%		100.0%			100.0%					
Van	8	2010				46.9%		100.0%			100.0%				100.0%	
Van	8	2011				28.6%		100.0%			100.0%			3.5%	66.0%	
Van	8	2012				26.8%		100.0%			100.0%				64.6%	
Van	8	2013				17.8%		100.0%			100.0%				67.3%	

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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														
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	0	0.000	13.6	9.5	12.5	11.0	6500		415	305	10.5	0.735	0.0472	35.7
Van	Other	2013	0	0.000	14.3	9.9	13.3	11.6	6568		415	305	10.6	0.735	0.0465	38.1

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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														
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%					
Van	Other	2012						100.0%			100.0%					
Van	Other	2013						100.0%			100.0%					

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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
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	713	0.257	30.8	21.0	27.2	24.1	3809		148	180	10.5	1.227	0.0474	46.1
Truck SUV	4	2013	974	0.323	31.7	21.5	28.0	24.8	3850		137	188	10.3	1.396	0.0487	47.9

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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%			
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%		12.2%		
Truck SUV	4	1995				100.0%	71.4%	28.6%			87.3%	12.7%		3.4%		
Truck SUV	4	1996				100.0%	40.6%	59.4%			100.0%			97.8%		
Truck SUV	4	1997				94.3%	43.0%	57.0%			100.0%			72.4%		
Truck SUV	4	1998				93.6%	32.3%	67.7%			100.0%			86.7%		
Truck SUV	4	1999				94.5%	27.2%	72.8%			100.0%			81.5%		
Truck SUV	4	2000				93.5%	22.7%	77.3%			100.0%			76.4%		
Truck SUV	4	2001			3.2%	96.8%	16.7%	83.3%			100.0%			80.3%	19.4%	
Truck SUV	4	2002			5.9%	93.9%	14.7%	84.8%	0.5%		100.0%			85.5%	57.7%	
Truck SUV	4	2003			11.4%	88.6%	10.0%	86.1%	3.9%		100.0%			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			5.8%	94.2%	1.3%	89.3%	31.8%	7.2%	92.8%			100.0%	100.0%	0.3%
Truck SUV	4	2013			7.5%	92.5%	1.3%	98.7%	26.6%	34.1%	65.6%		0.3%	100.0%	96.6%	0.1%

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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														
Truck SUV	5	1985														
Truck SUV	5	1986														
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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	5	2013														

# 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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														
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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%	
Truck SUV	5	2008				100.0%	3.5%	96.5%			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	5	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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
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	1666	0.601	24.7	16.7	22.8	19.7	4676		216	273	8.8	1.273	0.0587	46.3
Truck SUV	6	2013	1556	0.515	25.4	17.2	23.4	20.2	4693		215	279	8.7	1.304	0.0597	47.8

## 2013 FE Trends Report

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Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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%								
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%		17.9%		
Truck SUV	6	1995				91.3%	11.6%	88.4%			100.0%			22.3%		
Truck SUV	6	1996				84.6%	5.4%	94.6%			100.0%			12.2%		
Truck SUV	6	1997				83.0%	9.2%	90.8%			100.0%			20.6%		
Truck SUV	6	1998				91.4%	6.8%	93.2%			100.0%			21.6%		
Truck SUV	6	1999				91.2%	5.6%	94.4%			100.0%			30.2%	5.7%	
Truck SUV	6	2000				92.2%	5.4%	94.6%			100.0%			26.1%	4.7%	
Truck SUV	6	2001			12.4%	77.3%	3.3%	96.7%			100.0%			45.0%	20.3%	
Truck SUV	6	2002			2.0%	76.8%	3.3%	96.7%			100.0%			54.8%	32.8%	
Truck SUV	6	2003			2.7%	78.9%	2.2%	96.1%	1.7%		100.0%			66.9%	49.1%	
Truck SUV	6	2004			2.9%	79.0%	2.6%	95.8%	1.6%		100.0%			61.9%	49.2%	
Truck SUV	6	2005			2.6%	80.8%	2.4%	95.4%	2.2%		100.0%			74.0%	57.1%	
Truck SUV	6	2006			6.0%	77.2%	2.5%	90.4%	7.1%		100.0%			71.0%	60.5%	4.4%
Truck SUV	6	2007			7.7%	79.1%	2.7%	91.7%	5.7%		99.5%		0.5%	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%	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%	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%	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%	89.0%	86.8%	0.7%
Truck SUV	6	2012			20.4%	75.6%	2.2%	97.1%	2.9%	23.8%	74.1%		2.1%	95.2%	93.2%	0.8%
Truck SUV	6	2013			23.3%	74.1%	1.9%	96.4%	11.2%	19.1%	79.7%		1.2%	100.0%	96.5%	1.8%

## 2013 FE Trends Report

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Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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
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	394	0.142	20.1	13.5	19.0	16.2	5983		330	352	8.9	1.068	0.0591	48.6
Truck SUV	8	2013	490	0.162	20.7	13.9	20.3	17.0	5958		330	350	8.9	1.065	0.0591	51.3

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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%								
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%				
Truck SUV	8	1995				82.9%	1.2%	98.8%			41.7%	58.3%				
Truck SUV	8	1996				78.6%	0.8%	99.2%			99.9%		0.1%			
Truck SUV	8	1997				76.2%	0.1%	99.9%			100.0%		0.0%			
Truck SUV	8	1998				75.6%		100.0%			100.0%		0.0%			
Truck SUV	8	1999				58.7%		100.0%			100.0%			4.8%		
Truck SUV	8	2000				70.5%		100.0%			100.0%			5.3%	0.5%	
Truck SUV	8	2001				67.9%		100.0%			100.0%			15.5%	2.2%	
Truck SUV	8	2002				64.5%		100.0%			100.0%			12.2%	0.9%	
Truck SUV	8	2003				62.0%		100.0%			100.0%			18.4%	2.6%	
Truck SUV	8	2004				65.4%		100.0%			100.0%			28.1%	14.1%	
Truck SUV	8	2005				67.3%		100.0%			100.0%			34.8%	29.3%	
Truck SUV	8	2006				70.7%		100.0%			100.0%			51.1%	49.7%	
Truck SUV	8	2007				63.4%		100.0%			100.0%			25.0%	28.1%	
Truck SUV	8	2008				67.1%	0.0%	98.8%	1.2%	2.1%	97.9%			41.9%	42.9%	1.2%
Truck SUV	8	2009				60.7%	0.1%	97.0%	3.0%	3.6%	96.4%			35.8%	47.4%	3.8%
Truck SUV	8	2010				66.2%	0.0%	99.5%	0.4%	10.5%	89.5%			57.7%	86.0%	0.5%
Truck SUV	8	2011				72.5%		99.6%	0.4%	13.3%	86.7%			39.1%	99.8%	0.4%
Truck SUV	8	2012				72.4%		100.0%	0.4%	14.9%	85.1%			43.9%	99.2%	0.4%
Truck SUV	8	2013				67.4%		100.0%	3.5%	15.0%	85.0%			35.7%	98.2%	3.5%

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
Truck SUV	Other	1975														
Truck SUV	Other	1976														
Truck SUV	Other	1977														
Truck SUV	Other	1978														
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														
Truck SUV	Other	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
Truck SUV	Other	1975														
Truck SUV	Other	1976														
Truck SUV	Other	1977														
Truck SUV	Other	1978														
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%			
Truck SUV	Other	2005														
Truck SUV	Other	2006				100.0%		100.0%					100.0%			
Truck SUV	Other	2007				100.0%		100.0%					100.0%			
Truck SUV	Other	2008				100.0%		100.0%					100.0%			
Truck SUV	Other	2009														
Truck SUV	Other	2010														
Truck SUV	Other	2011														
Truck SUV	Other	2012														
Truck SUV	Other	2013														

# 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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
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														
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Pickup	2	2006														
Pickup	2	2007														
Pickup	2	2008														
Pickup	2	2009														
Pickup	2	2010														
Pickup	2	2011														
Pickup	2	2012														
Pickup	2	2013														

# 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
Pickup	2	1975					68.2%									
Pickup	2	1976					81.1%									
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														
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Pickup	2	2006														
Pickup	2	2007														
Pickup	2	2008														
Pickup	2	2009														
Pickup	2	2010														
Pickup	2	2011														
Pickup	2	2012														
Pickup	2	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			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
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	70	0.052	27.1	18.5	23.5	21.0	3864		168	167	11.3	0.996	0.0435	40.7
Pickup	4	2013	45	0.030	27.2	18.8	22.8	20.9	3911		162	158	11.9	0.973	0.0404	40.9

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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%		0.2%		
Pickup	4	1995				15.3%	79.9%	17.0%			97.3%	2.7%		17.7%		
Pickup	4	1996				9.8%	76.6%	18.6%			100.0%			35.2%		
Pickup	4	1997				5.9%	78.0%	22.0%			100.0%			28.6%		
Pickup	4	1998				11.1%	66.9%	27.1%			100.0%			35.6%		
Pickup	4	1999				10.5%	57.4%	36.5%			100.0%			34.6%		
Pickup	4	2000				7.9%	48.0%	47.2%			100.0%			35.0%		
Pickup	4	2001				8.7%	48.5%	43.8%			100.0%			54.0%		
Pickup	4	2002				12.5%	47.9%	39.6%			100.0%			99.9%		
Pickup	4	2003				10.6%	38.8%	53.6%			100.0%			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%	
Pickup	4	2011				14.7%	18.8%	81.2%			100.0%			100.0%	52.7%	
Pickup	4	2012				23.6%	17.6%	82.4%			100.0%			100.0%	100.0%	
Pickup	4	2013				31.7%	26.7%	73.3%			100.0%			100.0%	100.0%	

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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														
Pickup	5	1985														
Pickup	5	1986														
Pickup	5	1987														
Pickup	5	1988														
Pickup	5	1989														
Pickup	5	1990														
Pickup	5	1991														
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Pickup	5	1993														
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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
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	38	0.028	23.8	16.2	22.0	19.1	4248		226	242	9.0	1.072	0.0573	40.4
Pickup	5	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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														
Pickup	5	1985														
Pickup	5	1986														
Pickup	5	1987														
Pickup	5	1988														
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Pickup	5	1990														
Pickup	5	1991														
Pickup	5	1992														
Pickup	5	1993														
Pickup	5	1994														
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%	
Pickup	5	2008				49.6%		100.0%			100.0%				100.0%	
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				57.2%		100.0%			100.0%			100.0%	100.0%	
Pickup	5	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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
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	395	0.292	22.4	15.3	20.5	17.9	5125		231	287	9.3	1.266	0.0558	45.9
Pickup	6	2013	495	0.325	23.0	15.7	21.2	18.4	5292		226	302	9.2	1.359	0.0568	48.8

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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%		5.4%		
Pickup	6	1995				28.1%	42.7%	57.3%			69.6%	30.4%		1.4%		
Pickup	6	1996				27.2%	33.5%	66.5%			100.0%			10.1%		
Pickup	6	1997				21.5%	27.8%	72.2%			100.0%			4.2%		
Pickup	6	1998				28.7%	28.0%	72.0%			100.0%			7.1%		
Pickup	6	1999				33.0%	23.9%	76.1%			100.0%			7.6%		
Pickup	6	2000				31.4%	21.7%	78.3%			100.0%			7.0%		
Pickup	6	2001				28.2%	16.4%	83.6%			100.0%			11.6%		
Pickup	6	2002				32.5%	15.1%	84.9%			100.0%			19.8%		
Pickup	6	2003				30.5%	15.0%	85.0%			100.0%			13.9%		
Pickup	6	2004				34.0%	15.6%	84.4%			100.0%			17.9%		
Pickup	6	2005				30.2%	12.4%	87.6%			100.0%			34.1%	34.1%	
Pickup	6	2006				36.5%	10.8%	89.2%			100.0%			50.4%	50.4%	
Pickup	6	2007				34.9%	8.8%	91.2%			100.0%			45.5%	38.7%	
Pickup	6	2008				34.9%	7.3%	92.7%			100.0%			45.6%	19.5%	
Pickup	6	2009				48.1%	4.7%	95.3%			100.0%			61.5%	18.2%	
Pickup	6	2010				50.9%	4.1%	95.9%			100.0%			64.7%	64.7%	
Pickup	6	2011				53.0%	2.7%	97.3%		25.8%	74.2%			74.4%	74.4%	
Pickup	6	2012				59.0%	1.9%	98.1%		35.4%	64.6%			91.2%	91.2%	
Pickup	6	2013				55.8%	1.5%	98.5%		44.2%	55.8%			93.6%	93.6%	

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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
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	853	0.628	20.4	13.9	19.3	16.5	5602		324	346	8.5	1.068	0.0619	46.4
Pickup	8	2013	985	0.646	20.6	14.0	19.7	16.7	5632		323	352	8.4	1.092	0.0625	47.3

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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%				
Pickup	8	1995				48.9%	9.4%	90.6%			50.1%	49.9%				
Pickup	8	1996				45.0%	5.3%	94.7%			99.5%		0.5%			
Pickup	8	1997				52.2%	4.6%	95.4%			99.9%		0.1%			
Pickup	8	1998				52.6%	4.1%	95.9%			99.9%		0.1%			
Pickup	8	1999				62.5%	2.4%	97.6%			100.0%		0.0%			
Pickup	8	2000				54.1%	2.0%	98.0%			100.0%			9.2%		
Pickup	8	2001				51.2%	2.0%	98.0%			100.0%			5.3%		
Pickup	8	2002				52.0%	1.5%	98.5%			100.0%			6.6%		
Pickup	8	2003				51.5%	1.2%	98.8%			100.0%			6.4%		
Pickup	8	2004				54.2%	0.6%	99.4%			100.0%			27.3%	21.6%	0.0%
Pickup	8	2005				54.7%	0.4%	99.6%			100.0%			33.3%	33.3%	0.1%
Pickup	8	2006				53.4%	0.4%	99.6%			100.0%			39.4%	39.4%	0.2%
Pickup	8	2007				52.7%	0.2%	99.8%			100.0%			33.6%	32.5%	0.0%
Pickup	8	2008				56.0%	0.2%	99.8%			100.0%			35.1%	35.0%	
Pickup	8	2009				56.0%		99.7%	0.3%		100.0%			27.9%	31.3%	0.3%
Pickup	8	2010				62.3%		99.9%	0.1%		100.0%			54.4%	61.2%	0.1%
Pickup	8	2011				68.6%		99.8%	0.2%		100.0%			32.2%	95.0%	0.2%
Pickup	8	2012				67.5%		100.0%	0.1%		100.0%			33.6%	95.6%	0.1%
Pickup	8	2013				64.5%		100.0%	0.5%		100.0%			39.5%	98.3%	0.5%

# 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Prod (000)	Frac	Fuel Economy (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID	HP/WT	Ton-MPG
					Lab 55/45	Adj City	Hwy	Comb			CID	HP				
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														
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														
Pickup	Other	2013														

## 2013 FE Trends Report

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

Vehicle Type	Cylinders	Model Year	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid
					Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel			
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														
Pickup	Other	2003														
Pickup	Other	2004					100.0%				100.0%			100.0%		
Pickup	Other	2005					35.0%	65.0%			100.0%					
Pickup	Other	2006					33.4%	66.6%			100.0%					
Pickup	Other	2007														
Pickup	Other	2008														
Pickup	Other	2009														
Pickup	Other	2010														
Pickup	Other	2011														
Pickup	Other	2012														
Pickup	Other	2013														

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Car	Carb, Fixed Valve Timing, Two-Valve	1986	3625	0.402	29.7	22.8	29.0	25.2	2879	105.9	163	96	14.0	0.650
Car	Carb, Fixed Valve Timing, Two-Valve	1987	2039	0.229	29.1	22.2	28.2	24.7	2929	106.8	168	99	14.1	0.656
Car	Carb, Fixed Valve Timing, Two-Valve	1988	861	0.092	31.0	23.6	29.7	26.1	2907	107.6	163	92	14.6	0.655
Car	Carb, Fixed Valve Timing, Two-Valve	1989	422	0.049	32.2	24.4	30.5	27.0	2840	106.0	139	84	15.2	0.686
Car	Carb, Fixed Valve Timing, Two-Valve	1990	33	0.014	22.8	16.5	23.2	19.2	4500	149.1	305	140	14.6	0.459
Car	Carb, Fixed Valve Timing, Two-Valve	1991	1	0.005	33.9	26.3	30.0	28.0	2045	86.4	72	57	15.6	0.786
Car	Carb, Fixed Valve Timing, Two-Valve	1992												
Car	Carb, Fixed Valve Timing, Two-Valve	1993												
Car	Carb, Fixed Valve Timing, Two-Valve	1994												
Car	Carb, Fixed Valve Timing, Two-Valve	1995												
Car	Carb, Fixed Valve Timing, Two-Valve	1996												
Car	Carb, Fixed Valve Timing, Two-Valve	1997												
Car	Carb, Fixed Valve Timing, Two-Valve	1998												
Car	Carb, Fixed Valve Timing, Two-Valve	1999												
Car	Carb, Fixed Valve Timing, Two-Valve	2000												
Car	Carb, Fixed Valve Timing, Two-Valve	2001												
Car	Carb, Fixed Valve Timing, Two-Valve	2002												
Car	Carb, Fixed Valve Timing, Two-Valve	2003												
Car	Carb, Fixed Valve Timing, Two-Valve	2004												
Car	Carb, Fixed Valve Timing, Two-Valve	2005												
Car	Carb, Fixed Valve Timing, Two-Valve	2006												
Car	Carb, Fixed Valve Timing, Two-Valve	2007												
Car	Carb, Fixed Valve Timing, Two-Valve	2008												
Car	Carb, Fixed Valve Timing, Two-Valve	2009												
Car	Carb, Fixed Valve Timing, Two-Valve	2010												
Car	Carb, Fixed Valve Timing, Two-Valve	2011												
Car	Carb, Fixed Valve Timing, Two-Valve	2012												
Car	Carb, Fixed Valve Timing, Two-Valve	2013												
Car	Carb, Fixed Valve Timing, Multi-Valve	1986	180	0.012	32.3	24.8	31.3	27.4	2707	100.9	118	98	12.7	0.835
Car	Carb, Fixed Valve Timing, Multi-Valve	1987	832	0.056	34.9	27.4	32.3	29.4	2491	93.5	98	76	15.0	0.766
Car	Carb, Fixed Valve Timing, Multi-Valve	1988	885	0.058	34.0	26.5	31.4	28.6	2549	96.0	100	84	14.0	0.834
Car	Carb, Fixed Valve Timing, Multi-Valve	1989	552	0.038	34.0	26.2	31.4	28.4	2598	95.5	102	90	13.3	0.885
Car	Carb, Fixed Valve Timing, Multi-Valve	1990	89	0.007	36.2	28.0	32.6	30.1	2399	90.0	90	79	13.7	0.878
Car	Carb, Fixed Valve Timing, Multi-Valve	1991	3	0.000	41.0	31.9	35.8	33.7	2088	88.6	73	66	14.1	0.904
Car	Carb, Fixed Valve Timing, Multi-Valve	1992	1	0.000	41.0	31.6	35.7	33.5	2087	88.6	73	66	14.1	0.904
Car	Carb, Fixed Valve Timing, Multi-Valve	1993												
Car	Carb, Fixed Valve Timing, Multi-Valve	1994												
Car	Carb, Fixed Valve Timing, Multi-Valve	1995												
Car	Carb, Fixed Valve Timing, Multi-Valve	1996												
Car	Carb, Fixed Valve Timing, Multi-Valve	1997												
Car	Carb, Fixed Valve Timing, Multi-Valve	1998												

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Car	Carb, Fixed Valve Timing, Two-Valve	1986	0.0328	36.5	2754	3877	65.1%	2.1%	33.0%	50.3%
Car	Carb, Fixed Valve Timing, Two-Valve	1987	0.0330	36.2	2718	3885	61.7%	3.5%	30.9%	53.6%
Car	Carb, Fixed Valve Timing, Two-Valve	1988	0.0310	37.8	2935	4103	64.9%	0.6%	37.9%	53.4%
Car	Carb, Fixed Valve Timing, Two-Valve	1989	0.0292	38.0	2932	4074	76.6%	0.2%	45.7%	44.9%
Car	Carb, Fixed Valve Timing, Two-Valve	1990	0.0311	43.2	2863	6442				100.0%
Car	Carb, Fixed Valve Timing, Two-Valve	1991	0.0277	28.6	2422	2474	100.0%		100.0%	
Car	Carb, Fixed Valve Timing, Two-Valve	1992								
Car	Carb, Fixed Valve Timing, Two-Valve	1993								
Car	Carb, Fixed Valve Timing, Two-Valve	1994								
Car	Carb, Fixed Valve Timing, Two-Valve	1995								
Car	Carb, Fixed Valve Timing, Two-Valve	1996								
Car	Carb, Fixed Valve Timing, Two-Valve	1997								
Car	Carb, Fixed Valve Timing, Two-Valve	1998								
Car	Carb, Fixed Valve Timing, Two-Valve	1999								
Car	Carb, Fixed Valve Timing, Two-Valve	2000								
Car	Carb, Fixed Valve Timing, Two-Valve	2001								
Car	Carb, Fixed Valve Timing, Two-Valve	2002								
Car	Carb, Fixed Valve Timing, Two-Valve	2003								
Car	Carb, Fixed Valve Timing, Two-Valve	2004								
Car	Carb, Fixed Valve Timing, Two-Valve	2005								
Car	Carb, Fixed Valve Timing, Two-Valve	2006								
Car	Carb, Fixed Valve Timing, Two-Valve	2007								
Car	Carb, Fixed Valve Timing, Two-Valve	2008								
Car	Carb, Fixed Valve Timing, Two-Valve	2009								
Car	Carb, Fixed Valve Timing, Two-Valve	2010								
Car	Carb, Fixed Valve Timing, Two-Valve	2011								
Car	Carb, Fixed Valve Timing, Two-Valve	2012								
Car	Carb, Fixed Valve Timing, Two-Valve	2013								
Car	Carb, Fixed Valve Timing, Multi-Valve	1986	0.0364	37.3	2782	3776	100.0%		55.4%	44.6%
Car	Carb, Fixed Valve Timing, Multi-Valve	1987	0.0302	36.9	2766	3445	99.3%	0.7%	52.9%	47.1%
Car	Carb, Fixed Valve Timing, Multi-Valve	1988	0.0327	36.6	2762	3514	98.5%	1.5%	49.6%	50.3%
Car	Carb, Fixed Valve Timing, Multi-Valve	1989	0.0346	37.0	2732	3538	100.0%		37.9%	59.8%
Car	Carb, Fixed Valve Timing, Multi-Valve	1990	0.0331	36.1	2727	3253	100.0%		55.6%	44.4%
Car	Carb, Fixed Valve Timing, Multi-Valve	1991	0.0317	35.2	2990	3116	100.0%		100.0%	
Car	Carb, Fixed Valve Timing, Multi-Valve	1992	0.0317	35.0	2973	3098	100.0%		100.0%	
Car	Carb, Fixed Valve Timing, Multi-Valve	1993								
Car	Carb, Fixed Valve Timing, Multi-Valve	1994								
Car	Carb, Fixed Valve Timing, Multi-Valve	1995								
Car	Carb, Fixed Valve Timing, Multi-Valve	1996								
Car	Carb, Fixed Valve Timing, Multi-Valve	1997								
Car	Carb, Fixed Valve Timing, Multi-Valve	1998								

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Car	Carb, Fixed Valve Timing, Multi-Valve	1999												
Car	Carb, Fixed Valve Timing, Multi-Valve	2000												
Car	Carb, Fixed Valve Timing, Multi-Valve	2001												
Car	Carb, Fixed Valve Timing, Multi-Valve	2002												
Car	Carb, Fixed Valve Timing, Multi-Valve	2003												
Car	Carb, Fixed Valve Timing, Multi-Valve	2004												
Car	Carb, Fixed Valve Timing, Multi-Valve	2005												
Car	Carb, Fixed Valve Timing, Multi-Valve	2006												
Car	Carb, Fixed Valve Timing, Multi-Valve	2007												
Car	Carb, Fixed Valve Timing, Multi-Valve	2008												
Car	Carb, Fixed Valve Timing, Multi-Valve	2009												
Car	Carb, Fixed Valve Timing, Multi-Valve	2010												
Car	Carb, Fixed Valve Timing, Multi-Valve	2011												
Car	Carb, Fixed Valve Timing, Multi-Valve	2012												
Car	Carb, Fixed Valve Timing, Multi-Valve	2013												
Car	TBI, Fixed Valve Timing, Two-Valve	1986	3132	0.257	28.5	21.7	27.9	24.2	2999	108.8	158	98	14.1	0.637
Car	TBI, Fixed Valve Timing, Two-Valve	1987	3274	0.314	29.3	22.2	28.7	24.8	2920	107.4	148	97	13.9	0.671
Car	TBI, Fixed Valve Timing, Two-Valve	1988	3027	0.330	30.7	23.2	29.7	25.9	2840	107.0	141	97	13.7	0.709
Car	TBI, Fixed Valve Timing, Two-Valve	1989	2345	0.308	29.7	22.1	29.2	25.0	2954	107.9	157	105	13.4	0.699
Car	TBI, Fixed Valve Timing, Two-Valve	1990	1477	0.240	30.5	22.6	29.8	25.5	2925	105.5	145	101	13.5	0.717
Car	TBI, Fixed Valve Timing, Two-Valve	1991	1446	0.254	29.5	21.5	29.2	24.7	3032	106.8	164	109	13.3	0.698
Car	TBI, Fixed Valve Timing, Two-Valve	1992	688	0.165	29.5	21.6	28.6	24.6	3099	109.6	180	112	13.5	0.682
Car	TBI, Fixed Valve Timing, Two-Valve	1993	579	0.136	30.6	22.3	29.4	25.4	3037	110.0	166	105	13.7	0.690
Car	TBI, Fixed Valve Timing, Two-Valve	1994	431	0.121	34.2	25.1	31.6	28.0	2622	100.4	118	84	14.3	0.741
Car	TBI, Fixed Valve Timing, Two-Valve	1995	109	0.084	38.9	28.8	34.4	31.4	2365	102.6	93	74	14.6	0.831
Car	TBI, Fixed Valve Timing, Two-Valve	1996	86	0.007	42.5	31.4	36.7	34.0	2144	100.0	86	66	14.7	0.778
Car	TBI, Fixed Valve Timing, Two-Valve	1997	67	0.005	40.3	29.6	34.8	32.1	2202	90.5	76	67	14.8	0.889
Car	TBI, Fixed Valve Timing, Two-Valve	1998	12	0.001	53.6	38.1	46.1	42.0	2000	89.7	60	55	15.7	0.917
Car	TBI, Fixed Valve Timing, Two-Valve	1999	8	0.001	50.3	35.4	43.5	39.3	2000	88.0	61	55	15.7	0.902
Car	TBI, Fixed Valve Timing, Two-Valve	2000	5	0.000	50.8	35.8	43.0	39.4	2000	88.0	61	55	15.7	0.902
Car	TBI, Fixed Valve Timing, Two-Valve	2001												
Car	TBI, Fixed Valve Timing, Two-Valve	2002												
Car	TBI, Fixed Valve Timing, Two-Valve	2003												
Car	TBI, Fixed Valve Timing, Two-Valve	2004												
Car	TBI, Fixed Valve Timing, Two-Valve	2005												
Car	TBI, Fixed Valve Timing, Two-Valve	2006												
Car	TBI, Fixed Valve Timing, Two-Valve	2007												
Car	TBI, Fixed Valve Timing, Two-Valve	2008												
Car	TBI, Fixed Valve Timing, Two-Valve	2009												
Car	TBI, Fixed Valve Timing, Two-Valve	2010												
Car	TBI, Fixed Valve Timing, Two-Valve	2011												

## 2013 FE Trends Report

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Car	Carb, Fixed Valve Timing, Multi-Valve	1999								
Car	Carb, Fixed Valve Timing, Multi-Valve	2000								
Car	Carb, Fixed Valve Timing, Multi-Valve	2001								
Car	Carb, Fixed Valve Timing, Multi-Valve	2002								
Car	Carb, Fixed Valve Timing, Multi-Valve	2003								
Car	Carb, Fixed Valve Timing, Multi-Valve	2004								
Car	Carb, Fixed Valve Timing, Multi-Valve	2005								
Car	Carb, Fixed Valve Timing, Multi-Valve	2006								
Car	Carb, Fixed Valve Timing, Multi-Valve	2007								
Car	Carb, Fixed Valve Timing, Multi-Valve	2008								
Car	Carb, Fixed Valve Timing, Multi-Valve	2009								
Car	Carb, Fixed Valve Timing, Multi-Valve	2010								
Car	Carb, Fixed Valve Timing, Multi-Valve	2011								
Car	Carb, Fixed Valve Timing, Multi-Valve	2012								
Car	Carb, Fixed Valve Timing, Multi-Valve	2013								
Car	TBI, Fixed Valve Timing, Two-Valve	1986	0.0326	36.3	2650	3955	85.4%		10.0%	66.2%
Car	TBI, Fixed Valve Timing, Two-Valve	1987	0.0330	36.3	2683	3901	92.7%	0.2%	14.9%	59.1%
Car	TBI, Fixed Valve Timing, Two-Valve	1988	0.0339	36.9	2796	3946	95.4%	1.3%	19.9%	69.1%
Car	TBI, Fixed Valve Timing, Two-Valve	1989	0.0351	37.1	2738	4000	91.6%	0.8%	14.3%	75.2%
Car	TBI, Fixed Valve Timing, Two-Valve	1990	0.0344	37.4	2726	3951	93.1%	1.0%	14.0%	76.4%
Car	TBI, Fixed Valve Timing, Two-Valve	1991	0.0352	37.4	2671	4012	80.8%	1.0%	15.3%	81.5%
Car	TBI, Fixed Valve Timing, Two-Valve	1992	0.0349	38.0	2772	4202	70.1%		19.5%	72.1%
Car	TBI, Fixed Valve Timing, Two-Valve	1993	0.0336	38.5	2866	4259	77.7%	1.1%	24.8%	69.7%
Car	TBI, Fixed Valve Timing, Two-Valve	1994	0.0318	37.2	2918	3725	100.0%		30.3%	58.0%
Car	TBI, Fixed Valve Timing, Two-Valve	1995	0.0308	37.9	3378	3885	100.0%		39.9%	25.4%
Car	TBI, Fixed Valve Timing, Two-Valve	1996	0.0306	37.1	3490	3705	100.0%		42.9%	
Car	TBI, Fixed Valve Timing, Two-Valve	1997	0.0304	35.9	2973	3250	100.0%		26.3%	
Car	TBI, Fixed Valve Timing, Two-Valve	1998	0.0275	42.0	3765	3765	100.0%		100.0%	
Car	TBI, Fixed Valve Timing, Two-Valve	1999	0.0275	39.3	3461	3461	100.0%		100.0%	
Car	TBI, Fixed Valve Timing, Two-Valve	2000	0.0275	39.4	3464	3464			100.0%	
Car	TBI, Fixed Valve Timing, Two-Valve	2001								
Car	TBI, Fixed Valve Timing, Two-Valve	2002								
Car	TBI, Fixed Valve Timing, Two-Valve	2003								
Car	TBI, Fixed Valve Timing, Two-Valve	2004								
Car	TBI, Fixed Valve Timing, Two-Valve	2005								
Car	TBI, Fixed Valve Timing, Two-Valve	2006								
Car	TBI, Fixed Valve Timing, Two-Valve	2007								
Car	TBI, Fixed Valve Timing, Two-Valve	2008								
Car	TBI, Fixed Valve Timing, Two-Valve	2009								
Car	TBI, Fixed Valve Timing, Two-Valve	2010								
Car	TBI, Fixed Valve Timing, Two-Valve	2011								

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Car	TBI, Fixed Valve Timing, Two-Valve	2012												
Car	TBI, Fixed Valve Timing, Two-Valve	2013												
Car	TBI, Fixed Valve Timing, Multi-Valve	1986												
Car	TBI, Fixed Valve Timing, Multi-Valve	1987												
Car	TBI, Fixed Valve Timing, Multi-Valve	1988	195	0.013	38.1	29.9	34.6	31.9	2379	94.5	91	71	15.0	0.775
Car	TBI, Fixed Valve Timing, Multi-Valve	1989	445	0.031	35.2	27.2	32.4	29.4	2475	98.7	95	91	12.6	0.961
Car	TBI, Fixed Valve Timing, Multi-Valve	1990	382	0.030	36.5	28.0	33.1	30.3	2513	97.7	94	91	12.7	0.971
Car	TBI, Fixed Valve Timing, Multi-Valve	1991	416	0.033	35.4	27.1	32.0	29.3	2591	95.1	94	97	12.5	1.031
Car	TBI, Fixed Valve Timing, Multi-Valve	1992	155	0.013	32.6	24.5	30.0	26.9	2746	93.1	98	102	12.7	1.039
Car	TBI, Fixed Valve Timing, Multi-Valve	1993	135	0.010	32.3	24.0	29.7	26.6	2776	99.3	103	111	12.1	1.062
Car	TBI, Fixed Valve Timing, Multi-Valve	1994												
Car	TBI, Fixed Valve Timing, Multi-Valve	1995												
Car	TBI, Fixed Valve Timing, Multi-Valve	1996												
Car	TBI, Fixed Valve Timing, Multi-Valve	1997												
Car	TBI, Fixed Valve Timing, Multi-Valve	1998												
Car	TBI, Fixed Valve Timing, Multi-Valve	1999												
Car	TBI, Fixed Valve Timing, Multi-Valve	2000												
Car	TBI, Fixed Valve Timing, Multi-Valve	2001												
Car	TBI, Fixed Valve Timing, Multi-Valve	2002												
Car	TBI, Fixed Valve Timing, Multi-Valve	2003												
Car	TBI, Fixed Valve Timing, Multi-Valve	2004												
Car	TBI, Fixed Valve Timing, Multi-Valve	2005												
Car	TBI, Fixed Valve Timing, Multi-Valve	2006												
Car	TBI, Fixed Valve Timing, Multi-Valve	2007												
Car	TBI, Fixed Valve Timing, Multi-Valve	2008												
Car	TBI, Fixed Valve Timing, Multi-Valve	2009												
Car	TBI, Fixed Valve Timing, Multi-Valve	2010												
Car	TBI, Fixed Valve Timing, Multi-Valve	2011												
Car	TBI, Fixed Valve Timing, Multi-Valve	2012												
Car	TBI, Fixed Valve Timing, Multi-Valve	2013												
Car	Port, Fixed Valve Timing, Two-Valve	1986	3698	0.303	25.6	19.2	25.9	21.8	3271	109.2	187	136	11.7	0.768
Car	Port, Fixed Valve Timing, Two-Valve	1987	3815	0.349	25.2	18.8	25.7	21.5	3307	110.4	192	139	11.6	0.762
Car	Port, Fixed Valve Timing, Two-Valve	1988	4713	0.437	26.0	19.2	26.4	22.0	3319	111.0	193	137	11.9	0.736
Car	Port, Fixed Valve Timing, Two-Valve	1989	4804	0.473	26.1	19.1	26.4	22.0	3321	112.2	190	135	12.0	0.739
Car	Port, Fixed Valve Timing, Two-Valve	1990	4388	0.514	25.9	18.8	26.4	21.8	3407	112.9	194	139	12.0	0.739
Car	Port, Fixed Valve Timing, Two-Valve	1991	4162	0.508	26.3	19.0	26.6	22.1	3351	112.7	190	143	11.6	0.768
Car	Port, Fixed Valve Timing, Two-Valve	1992	4574	0.596	26.4	18.8	26.9	22.1	3373	113.0	193	147	11.4	0.777
Car	Port, Fixed Valve Timing, Two-Valve	1993	4773	0.625	27.2	19.3	27.4	22.7	3306	112.3	188	141	11.6	0.766
Car	Port, Fixed Valve Timing, Two-Valve	1994	4533	0.610	26.8	18.9	27.1	22.3	3389	112.8	195	147	11.5	0.766
Car	Port, Fixed Valve Timing, Two-Valve	1995	4377	0.560	27.0	18.8	27.5	22.5	3402	113.8	199	158	11.0	0.804
Car	Port, Fixed Valve Timing, Two-Valve	1996	3273	0.599	27.0	18.8	27.3	22.4	3426	112.7	196	159	10.9	0.822

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Car	TBI, Fixed Valve Timing, Two-Valve	2012								
Car	TBI, Fixed Valve Timing, Two-Valve	2013								
Car	TBI, Fixed Valve Timing, Multi-Valve	1986								
Car	TBI, Fixed Valve Timing, Multi-Valve	1987								
Car	TBI, Fixed Valve Timing, Multi-Valve	1988	0.0298	38.1	3030	3606	100.0%		57.1%	42.9%
Car	TBI, Fixed Valve Timing, Multi-Valve	1989	0.0369	36.6	2919	3611	99.7%	0.2%	53.6%	46.4%
Car	TBI, Fixed Valve Timing, Multi-Valve	1990	0.0363	38.2	2966	3726	100.0%		59.2%	40.8%
Car	TBI, Fixed Valve Timing, Multi-Valve	1991	0.0373	38.1	2804	3621	100.0%		47.9%	45.1%
Car	TBI, Fixed Valve Timing, Multi-Valve	1992	0.0371	37.2	2522	3463	100.0%		28.3%	51.4%
Car	TBI, Fixed Valve Timing, Multi-Valve	1993	0.0396	37.1	2664	3682	99.9%		40.1%	45.5%
Car	TBI, Fixed Valve Timing, Multi-Valve	1994								
Car	TBI, Fixed Valve Timing, Multi-Valve	1995								
Car	TBI, Fixed Valve Timing, Multi-Valve	1996								
Car	TBI, Fixed Valve Timing, Multi-Valve	1997								
Car	TBI, Fixed Valve Timing, Multi-Valve	1998								
Car	TBI, Fixed Valve Timing, Multi-Valve	1999								
Car	TBI, Fixed Valve Timing, Multi-Valve	2000								
Car	TBI, Fixed Valve Timing, Multi-Valve	2001								
Car	TBI, Fixed Valve Timing, Multi-Valve	2002								
Car	TBI, Fixed Valve Timing, Multi-Valve	2003								
Car	TBI, Fixed Valve Timing, Multi-Valve	2004								
Car	TBI, Fixed Valve Timing, Multi-Valve	2005								
Car	TBI, Fixed Valve Timing, Multi-Valve	2006								
Car	TBI, Fixed Valve Timing, Multi-Valve	2007								
Car	TBI, Fixed Valve Timing, Multi-Valve	2008								
Car	TBI, Fixed Valve Timing, Multi-Valve	2009								
Car	TBI, Fixed Valve Timing, Multi-Valve	2010								
Car	TBI, Fixed Valve Timing, Multi-Valve	2011								
Car	TBI, Fixed Valve Timing, Multi-Valve	2012								
Car	TBI, Fixed Valve Timing, Multi-Valve	2013								
Car	Port, Fixed Valve Timing, Two-Valve	1986	0.0414	35.7	2412	3928	62.8%	1.1%	23.1%	62.5%
Car	Port, Fixed Valve Timing, Two-Valve	1987	0.0418	35.6	2397	3953	65.3%	0.9%	20.0%	67.4%
Car	Port, Fixed Valve Timing, Two-Valve	1988	0.0409	36.6	2463	4085	69.9%	0.5%	15.8%	71.2%
Car	Port, Fixed Valve Timing, Two-Valve	1989	0.0406	36.6	2491	4124	74.3%	0.8%	13.0%	73.5%
Car	Port, Fixed Valve Timing, Two-Valve	1990	0.0405	37.2	2487	4219	80.0%	0.2%	10.1%	79.2%
Car	Port, Fixed Valve Timing, Two-Valve	1991	0.0423	37.1	2522	4194	82.0%	0.1%	10.3%	80.3%
Car	Port, Fixed Valve Timing, Two-Valve	1992	0.0432	37.3	2519	4236	83.3%	0.7%	8.1%	83.7%
Car	Port, Fixed Valve Timing, Two-Valve	1993	0.0423	37.5	2573	4235	84.1%	0.2%	9.8%	83.5%
Car	Port, Fixed Valve Timing, Two-Valve	1994	0.0428	37.8	2541	4284	78.6%	0.7%	8.9%	86.9%
Car	Port, Fixed Valve Timing, Two-Valve	1995	0.0457	38.3	2588	4364	78.9%	0.1%	10.0%	89.9%
Car	Port, Fixed Valve Timing, Two-Valve	1996	0.0460	38.4	2543	4338	78.4%	0.5%	9.9%	90.1%

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Car	Port, Fixed Valve Timing, Two-Valve	1997	3374	0.599	27.4	19.0	27.5	22.6	3383	113.2	191	159	10.8	0.840
Car	Port, Fixed Valve Timing, Two-Valve	1998	3051	0.589	27.1	18.6	27.2	22.3	3391	111.9	194	164	10.6	0.848
Car	Port, Fixed Valve Timing, Two-Valve	1999	2941	0.565	27.1	18.5	26.9	22.2	3412	111.6	195	163	10.7	0.843
Car	Port, Fixed Valve Timing, Two-Valve	2000	3155	0.550	27.3	18.6	27.0	22.3	3449	112.2	194	169	10.6	0.868
Car	Port, Fixed Valve Timing, Two-Valve	2001	2691	0.506	27.6	18.6	27.1	22.4	3452	112.3	195	170	10.4	0.875
Car	Port, Fixed Valve Timing, Two-Valve	2002	2464	0.465	28.2	18.9	27.3	22.8	3428	111.9	196	171	10.2	0.883
Car	Port, Fixed Valve Timing, Two-Valve	2003	2015	0.441	27.3	18.1	26.7	22.1	3612	115.3	207	183	10.1	0.892
Car	Port, Fixed Valve Timing, Two-Valve	2004	1669	0.374	26.9	17.7	26.4	21.8	3648	114.3	219	194	9.7	0.891
Car	Port, Fixed Valve Timing, Two-Valve	2005	1621	0.336	27.1	17.8	26.3	21.8	3712	116.3	222	201	9.7	0.918
Car	Port, Fixed Valve Timing, Two-Valve	2006	1298	0.264	26.4	17.3	25.9	21.3	3806	116.6	238	221	9.2	0.931
Car	Port, Fixed Valve Timing, Two-Valve	2007	681	0.225	25.5	16.7	25.0	20.6	3794	112.5	237	216	9.5	0.922
Car	Port, Fixed Valve Timing, Two-Valve	2008	455	0.188	24.6	16.0	24.5	20.0	3987	113.7	266	246	8.8	0.919
Car	Port, Fixed Valve Timing, Two-Valve	2009	123	0.115	24.0	15.7	23.7	19.5	4011	108.5	292	276	8.2	0.960
Car	Port, Fixed Valve Timing, Two-Valve	2010	138	0.077	24.2	15.9	23.9	19.6	4025	103.4	302	296	7.9	0.966
Car	Port, Fixed Valve Timing, Two-Valve	2011	117	0.039	24.5	16.2	24.3	20.0	4059	108.8	300	308	8.2	1.008
Car	Port, Fixed Valve Timing, Two-Valve	2012	62	0.019	25.9	17.0	25.4	21.0	3611	99.6	266	312	8.4	1.103
Car	Port, Fixed Valve Timing, Two-Valve	2013	59	0.009	24.8	16.4	24.5	20.2	3768	97.3	308	367	7.3	1.144
Car	Port, Fixed Valve Timing, Multi-Valve	1986	345	0.022	29.8	23.1	28.5	25.3	2833	90.5	119	125	11.2	1.048
Car	Port, Fixed Valve Timing, Multi-Valve	1987	744	0.050	30.3	23.2	29.1	25.6	2965	97.4	122	125	11.5	1.020
Car	Port, Fixed Valve Timing, Multi-Valve	1988	1055	0.069	28.9	21.9	28.0	24.4	3076	100.7	131	133	11.3	1.018
Car	Port, Fixed Valve Timing, Multi-Valve	1989	1446	0.100	28.5	21.4	27.7	24.0	3057	100.5	132	132	11.3	1.001
Car	Port, Fixed Valve Timing, Multi-Valve	1990	2384	0.189	28.9	21.7	27.6	24.2	3004	98.7	126	132	11.3	1.043
Car	Port, Fixed Valve Timing, Multi-Valve	1991	2277	0.181	29.2	21.8	27.6	24.3	2975	98.9	126	131	11.2	1.045
Car	Port, Fixed Valve Timing, Multi-Valve	1992	2315	0.190	29.3	21.6	28.1	24.4	3047	101.4	128	134	11.3	1.050
Car	Port, Fixed Valve Timing, Multi-Valve	1993	2567	0.194	29.3	21.4	28.2	24.3	3084	103.1	134	138	11.2	1.031
Car	Port, Fixed Valve Timing, Multi-Valve	1994	2775	0.219	29.0	20.9	27.9	24.0	3127	104.2	140	144	11.1	1.032
Car	Port, Fixed Valve Timing, Multi-Valve	1995	3981	0.295	29.4	20.9	28.5	24.2	3129	104.9	140	147	10.8	1.058
Car	Port, Fixed Valve Timing, Multi-Valve	1996	3602	0.324	28.9	20.4	28.2	23.8	3191	107.4	145	151	10.7	1.046
Car	Port, Fixed Valve Timing, Multi-Valve	1997	3947	0.331	29.0	20.3	28.3	23.8	3193	107.0	145	152	10.7	1.052
Car	Port, Fixed Valve Timing, Multi-Valve	1998	3428	0.308	29.5	20.5	28.5	24.1	3239	107.9	144	153	10.7	1.068
Car	Port, Fixed Valve Timing, Multi-Valve	1999	3983	0.326	28.8	19.9	27.9	23.5	3342	108.9	150	162	10.5	1.087
Car	Port, Fixed Valve Timing, Multi-Valve	2000	3812	0.298	28.3	19.4	27.2	23.0	3367	109.7	152	165	10.5	1.091
Car	Port, Fixed Valve Timing, Multi-Valve	2001	3309	0.296	27.9	19.0	26.8	22.6	3435	109.8	155	168	10.5	1.090
Car	Port, Fixed Valve Timing, Multi-Valve	2002	2993	0.280	27.5	18.7	26.1	22.2	3438	110.3	158	176	10.1	1.131
Car	Port, Fixed Valve Timing, Multi-Valve	2003	2604	0.251	28.2	19.1	26.5	22.6	3416	107.5	156	173	10.2	1.126
Car	Port, Fixed Valve Timing, Multi-Valve	2004	2515	0.239	28.2	18.9	26.7	22.6	3458	110.7	158	179	10.0	1.146
Car	Port, Fixed Valve Timing, Multi-Valve	2005	2231	0.204	28.2	18.8	26.5	22.5	3507	112.2	160	182	9.9	1.151
Car	Port, Fixed Valve Timing, Multi-Valve	2006	1803	0.179	27.9	18.6	26.1	22.2	3574	115.5	166	191	9.7	1.165
Car	Port, Fixed Valve Timing, Multi-Valve	2007	2123	0.200	29.2	19.4	27.4	23.3	3484	112.1	161	187	9.8	1.171
Car	Port, Fixed Valve Timing, Multi-Valve	2008	2100	0.221	29.8	19.8	27.9	23.7	3471	111.7	159	185	9.8	1.164
Car	Port, Fixed Valve Timing, Multi-Valve	2009	887	0.156	30.7	20.3	28.3	24.1	3402	110.2	154	179	9.8	1.161

## 2013 FE Trends Report

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Car	Port, Fixed Valve Timing, Two-Valve	1997	0.0463	38.3	2578	4336	81.8%	0.4%	9.8%	90.2%
Car	Port, Fixed Valve Timing, Two-Valve	1998	0.0478	37.9	2514	4244	84.0%	0.1%	9.0%	90.8%
Car	Port, Fixed Valve Timing, Two-Valve	1999	0.0472	37.9	2491	4235	83.1%		8.8%	91.2%
Car	Port, Fixed Valve Timing, Two-Valve	2000	0.0481	38.5	2520	4335	81.7%		9.8%	90.2%
Car	Port, Fixed Valve Timing, Two-Valve	2001	0.0487	38.8	2535	4366	83.6%		8.2%	91.2%
Car	Port, Fixed Valve Timing, Two-Valve	2002	0.0495	39.1	2568	4388	85.4%		8.4%	91.6%
Car	Port, Fixed Valve Timing, Two-Valve	2003	0.0504	39.9	2561	4624	81.5%		5.4%	94.6%
Car	Port, Fixed Valve Timing, Two-Valve	2004	0.0531	39.8	2506	4572	77.0%		5.9%	94.1%
Car	Port, Fixed Valve Timing, Two-Valve	2005	0.0537	40.5	2553	4733	76.4%	0.4%	4.4%	95.6%
Car	Port, Fixed Valve Timing, Two-Valve	2006	0.0576	40.7	2509	4771	70.2%	0.9%	3.9%	96.1%
Car	Port, Fixed Valve Timing, Two-Valve	2007	0.0566	39.0	2339	4426	58.5%	0.7%	7.2%	92.8%
Car	Port, Fixed Valve Timing, Two-Valve	2008	0.0620	39.9	2293	4591	50.6%	0.2%	7.1%	92.9%
Car	Port, Fixed Valve Timing, Two-Valve	2009	0.0701	39.2	2129	4345	18.4%	0.8%	10.6%	89.4%
Car	Port, Fixed Valve Timing, Two-Valve	2010	0.0742	39.6	2041	4169			30.9%	69.1%
Car	Port, Fixed Valve Timing, Two-Valve	2011	0.0761	40.7	2217	4493	15.8%		19.2%	80.8%
Car	Port, Fixed Valve Timing, Two-Valve	2012	0.0809	38.1	2189	3837	44.4%		35.6%	64.4%
Car	Port, Fixed Valve Timing, Two-Valve	2013	0.0934	38.4	2056	3788	28.8%		50.0%	50.0%
Car	Port, Fixed Valve Timing, Multi-Valve	1986	0.0436	36.0	2303	3246	77.9%		69.1%	28.5%
Car	Port, Fixed Valve Timing, Multi-Valve	1987	0.0417	38.2	2532	3730	87.5%		46.2%	52.3%
Car	Port, Fixed Valve Timing, Multi-Valve	1988	0.0430	37.7	2485	3804	91.1%	0.8%	36.2%	62.8%
Car	Port, Fixed Valve Timing, Multi-Valve	1989	0.0430	36.8	2435	3706	84.9%	2.7%	34.6%	63.8%
Car	Port, Fixed Valve Timing, Multi-Valve	1990	0.0435	36.4	2409	3603	87.9%	2.6%	33.7%	64.5%
Car	Port, Fixed Valve Timing, Multi-Valve	1991	0.0437	36.2	2436	3595	85.9%	4.4%	36.4%	62.0%
Car	Port, Fixed Valve Timing, Multi-Valve	1992	0.0436	37.2	2511	3785	81.4%	2.4%	32.3%	67.1%
Car	Port, Fixed Valve Timing, Multi-Valve	1993	0.0442	37.6	2553	3884	90.6%	3.3%	28.2%	69.8%
Car	Port, Fixed Valve Timing, Multi-Valve	1994	0.0451	37.5	2534	3913	92.5%	0.2%	24.6%	72.6%
Car	Port, Fixed Valve Timing, Multi-Valve	1995	0.0463	38.0	2574	3986	84.8%	2.6%	20.9%	76.6%
Car	Port, Fixed Valve Timing, Multi-Valve	1996	0.0467	38.0	2581	4084	93.8%	2.8%	16.2%	81.9%
Car	Port, Fixed Valve Timing, Multi-Valve	1997	0.0469	38.1	2571	4080	93.3%	3.2%	14.4%	85.6%
Car	Port, Fixed Valve Timing, Multi-Valve	1998	0.0466	39.0	2623	4216	91.9%	4.2%	12.3%	87.0%
Car	Port, Fixed Valve Timing, Multi-Valve	1999	0.0479	39.3	2579	4286	92.5%	3.6%	9.9%	89.0%
Car	Port, Fixed Valve Timing, Multi-Valve	2000	0.0484	38.6	2535	4247	89.4%	3.8%	8.9%	88.6%
Car	Port, Fixed Valve Timing, Multi-Valve	2001	0.0483	38.9	2499	4279	88.1%	5.5%	11.3%	87.2%
Car	Port, Fixed Valve Timing, Multi-Valve	2002	0.0506	38.1	2463	4211	84.9%	7.4%	11.8%	87.3%
Car	Port, Fixed Valve Timing, Multi-Valve	2003	0.0500	38.7	2457	4168	80.6%	6.7%	14.1%	84.7%
Car	Port, Fixed Valve Timing, Multi-Valve	2004	0.0512	39.1	2523	4343	83.8%	9.6%	10.8%	87.1%
Car	Port, Fixed Valve Timing, Multi-Valve	2005	0.0514	39.5	2542	4452	75.2%	12.3%	9.2%	87.6%
Car	Port, Fixed Valve Timing, Multi-Valve	2006	0.0529	39.8	2580	4614	73.6%	9.7%	8.9%	87.4%
Car	Port, Fixed Valve Timing, Multi-Valve	2007	0.0527	40.7	2647	4572	79.9%	9.9%	9.3%	89.4%
Car	Port, Fixed Valve Timing, Multi-Valve	2008	0.0524	41.3	2688	4622	74.9%	12.2%	6.8%	91.5%
Car	Port, Fixed Valve Timing, Multi-Valve	2009	0.0519	41.3	2708	4550	76.2%	11.9%	5.9%	94.1%

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Car	Port, Fixed Valve Timing, Multi-Valve	2010	377	0.078	30.1	20.0	28.1	23.9	3518	112.6	169	194	9.5	1.152
Car	Port, Fixed Valve Timing, Multi-Valve	2011	170	0.022	31.8	21.1	29.9	25.3	3391	111.5	166	200	9.4	1.196
Car	Port, Fixed Valve Timing, Multi-Valve	2012	23	0.004	32.5	22.1	28.6	25.4	3340	109.2	131	160	10.8	1.203
Car	Port, Fixed Valve Timing, Multi-Valve	2013	5	0.005	23.3	15.1	23.9	19.1	4000	96.0	354	650	4.0	1.836
Car	Port, Variable Valve Timing, Two-Valve	1986												
Car	Port, Variable Valve Timing, Two-Valve	1987												
Car	Port, Variable Valve Timing, Two-Valve	1988												
Car	Port, Variable Valve Timing, Two-Valve	1989												
Car	Port, Variable Valve Timing, Two-Valve	1990												
Car	Port, Variable Valve Timing, Two-Valve	1991												
Car	Port, Variable Valve Timing, Two-Valve	1992	5	0.000	18.2	13.3	18.0	15.3	4500	50.0	303	322	7.5	1.063
Car	Port, Variable Valve Timing, Two-Valve	1993	0	0.000	17.9	12.9	18.1	15.1	4000	82.3	329	345	6.4	1.049
Car	Port, Variable Valve Timing, Two-Valve	1994	0	0.000	16.6	11.0	19.8	14.2	4500	90.8	340	377	6.6	1.109
Car	Port, Variable Valve Timing, Two-Valve	1995	8	0.001	22.2	15.5	23.0	18.6	3581	57.7	229	275	7.1	1.209
Car	Port, Variable Valve Timing, Two-Valve	1996	8	0.001	21.0	14.6	21.5	17.5	3646	68.2	236	296	6.8	1.276
Car	Port, Variable Valve Timing, Two-Valve	1997	7	0.000	21.3	14.7	21.8	17.7	3597	65.1	231	292	6.8	1.282
Car	Port, Variable Valve Timing, Two-Valve	1998	4	0.000	21.4	14.8	21.6	17.7	3806	78.3	253	286	7.2	1.152
Car	Port, Variable Valve Timing, Two-Valve	1999	3	0.000	22.0	15.0	22.7	18.3	4153	118.0	266	304	7.3	1.149
Car	Port, Variable Valve Timing, Two-Valve	2000												
Car	Port, Variable Valve Timing, Two-Valve	2001	38	0.002	25.6	17.4	24.9	20.8	3455	101.8	173	177	9.7	1.023
Car	Port, Variable Valve Timing, Two-Valve	2002												
Car	Port, Variable Valve Timing, Two-Valve	2003	33	0.002	56.3	39.8	43.4	41.8	3000	101.5	82	85	12.3	1.037
Car	Port, Variable Valve Timing, Two-Valve	2004	23	0.001	56.2	39.3	43.2	41.4	3000	101.5	82	85	11.9	1.037
Car	Port, Variable Valve Timing, Two-Valve	2005	98	0.006	40.2	27.5	33.7	30.7	3000	112.5	102	118	10.7	1.146
Car	Port, Variable Valve Timing, Two-Valve	2006	190	0.017	30.8	20.5	28.4	24.4	3506	113.4	183	197	9.4	1.113
Car	Port, Variable Valve Timing, Two-Valve	2007	545	0.057	29.4	19.2	28.3	23.5	3786	116.2	205	200	9.5	0.995
Car	Port, Variable Valve Timing, Two-Valve	2008	438	0.048	29.0	18.8	28.6	23.3	3908	116.7	207	207	9.4	1.017
Car	Port, Variable Valve Timing, Two-Valve	2009	327	0.048	28.1	18.2	27.7	22.6	3988	117.5	225	227	9.1	1.019
Car	Port, Variable Valve Timing, Two-Valve	2010	296	0.068	30.0	19.5	29.2	24.1	3880	115.9	227	233	8.8	1.044
Car	Port, Variable Valve Timing, Two-Valve	2011	255	0.096	28.4	18.6	28.5	23.2	4016	121.2	230	228	9.2	0.994
Car	Port, Variable Valve Timing, Two-Valve	2012	70	0.061	27.9	18.2	27.3	22.4	4047	110.9	287	304	7.6	1.088
Car	Port, Variable Valve Timing, Two-Valve	2013	100	0.069	28.3	18.5	27.4	22.7	4028	111.7	284	304	7.6	1.099
Car	Port, Variable Valve Timing, Multi-Valve	1986												
Car	Port, Variable Valve Timing, Multi-Valve	1987												
Car	Port, Variable Valve Timing, Multi-Valve	1988												
Car	Port, Variable Valve Timing, Multi-Valve	1989												
Car	Port, Variable Valve Timing, Multi-Valve	1990	54	0.004	23.0	17.1	22.6	19.3	4000	111.9	249	252	8.3	1.013
Car	Port, Variable Valve Timing, Multi-Valve	1991	208	0.017	30.2	22.2	29.4	25.2	3142	99.7	145	157	10.5	1.104
Car	Port, Variable Valve Timing, Multi-Valve	1992	366	0.030	28.5	20.8	27.7	23.8	3256	99.7	150	167	10.2	1.133
Car	Port, Variable Valve Timing, Multi-Valve	1993	402	0.030	29.2	21.2	28.1	24.2	3213	96.8	140	161	10.3	1.168
Car	Port, Variable Valve Timing, Multi-Valve	1994	675	0.048	30.2	21.8	29.0	24.9	3216	98.8	132	150	10.8	1.154

## 2013 FE Trends Report

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Car	Port, Fixed Valve Timing, Multi-Valve	2010	0.0542	42.3	2754	4763	58.5%	1.5%	3.9%	96.1%
Car	Port, Fixed Valve Timing, Multi-Valve	2011	0.0572	43.2	2881	4811	74.6%	3.5%	7.5%	85.9%
Car	Port, Fixed Valve Timing, Multi-Valve	2012	0.0472	42.6	2809	4658	62.2%	34.0%	11.3%	88.7%
Car	Port, Fixed Valve Timing, Multi-Valve	2013	0.1625	38.2	1835	3670			100.0%	
Car	Port, Variable Valve Timing, Two-Valve	1986								
Car	Port, Variable Valve Timing, Two-Valve	1987								
Car	Port, Variable Valve Timing, Two-Valve	1988								
Car	Port, Variable Valve Timing, Two-Valve	1989								
Car	Port, Variable Valve Timing, Two-Valve	1990								
Car	Port, Variable Valve Timing, Two-Valve	1991								
Car	Port, Variable Valve Timing, Two-Valve	1992	0.0716	34.4	765	1721				
Car	Port, Variable Valve Timing, Two-Valve	1993	0.0863	30.2	1242	2485			51.5%	48.5%
Car	Port, Variable Valve Timing, Two-Valve	1994	0.0838	32.0	1290	2903			100.0%	
Car	Port, Variable Valve Timing, Two-Valve	1995	0.0768	33.2	1061	1931			79.7%	7.2%
Car	Port, Variable Valve Timing, Two-Valve	1996	0.0816	32.2	1194	2226		34.9%	75.8%	14.6%
Car	Port, Variable Valve Timing, Two-Valve	1997	0.0816	32.0	1152	2105		29.3%	78.1%	9.7%
Car	Port, Variable Valve Timing, Two-Valve	1998	0.0754	33.7	1362	2677		11.7%	59.3%	30.6%
Car	Port, Variable Valve Timing, Two-Valve	1999	0.0735	38.0	2169	4477		84.7%		100.0%
Car	Port, Variable Valve Timing, Two-Valve	2000								
Car	Port, Variable Valve Timing, Two-Valve	2001	0.0512	36.0	2124	3660	98.1%		46.2%	53.8%
Car	Port, Variable Valve Timing, Two-Valve	2002								
Car	Port, Variable Valve Timing, Two-Valve	2003	0.0283	62.6	4240	6360	100.0%		19.1%	
Car	Port, Variable Valve Timing, Two-Valve	2004	0.0283	62.1	4203	6305	100.0%		20.0%	
Car	Port, Variable Valve Timing, Two-Valve	2005	0.0394	47.5	3519	5279	100.0%		11.1%	66.4%
Car	Port, Variable Valve Timing, Two-Valve	2006	0.0551	44.6	2949	5041	93.8%	2.7%	6.1%	77.5%
Car	Port, Variable Valve Timing, Two-Valve	2007	0.0525	45.1	2790	5232	100.0%		0.6%	93.4%
Car	Port, Variable Valve Timing, Two-Valve	2008	0.0527	46.3	2789	5396	98.6%			92.7%
Car	Port, Variable Valve Timing, Two-Valve	2009	0.0564	45.9	2731	5383	89.5%	0.2%	2.7%	91.4%
Car	Port, Variable Valve Timing, Two-Valve	2010	0.0587	48.2	2933	5556	77.2%	0.7%	2.5%	80.1%
Car	Port, Variable Valve Timing, Two-Valve	2011	0.0559	47.1	2871	5703	85.7%	1.9%	1.7%	92.6%
Car	Port, Variable Valve Timing, Two-Valve	2012	0.0719	48.4	2790	5328	25.9%	5.9%	6.6%	93.4%
Car	Port, Variable Valve Timing, Two-Valve	2013	0.0723	48.3	2807	5364	27.5%	8.8%	7.2%	92.8%
Car	Port, Variable Valve Timing, Multi-Valve	1986								
Car	Port, Variable Valve Timing, Multi-Valve	1987								
Car	Port, Variable Valve Timing, Multi-Valve	1988								
Car	Port, Variable Valve Timing, Multi-Valve	1989								
Car	Port, Variable Valve Timing, Multi-Valve	1990	0.0630	38.7	2166	4331				100.0%
Car	Port, Variable Valve Timing, Multi-Valve	1991	0.0482	40.0	2615	3980	64.9%		29.0%	71.0%
Car	Port, Variable Valve Timing, Multi-Valve	1992	0.0498	39.1	2472	3889	60.4%		31.0%	64.9%
Car	Port, Variable Valve Timing, Multi-Valve	1993	0.0487	39.0	2403	3773	67.3%		30.0%	65.9%
Car	Port, Variable Valve Timing, Multi-Valve	1994	0.0459	40.2	2510	3982	80.6%		28.4%	69.1%

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Car	Port, Variable Valve Timing, Multi-Valve	1995	914	0.060	29.7	21.2	28.5	24.4	3276	102.3	142	159	10.4	1.136
Car	Port, Variable Valve Timing, Multi-Valve	1996	913	0.069	29.8	21.1	28.7	24.5	3222	103.3	141	155	10.5	1.114
Car	Port, Variable Valve Timing, Multi-Valve	1997	934	0.065	29.2	20.6	28.1	23.9	3295	101.1	149	167	10.2	1.137
Car	Port, Variable Valve Timing, Multi-Valve	1998	1461	0.101	29.3	20.5	28.2	24.0	3294	103.8	147	164	10.2	1.123
Car	Port, Variable Valve Timing, Multi-Valve	1999	1428	0.108	28.6	19.8	27.5	23.3	3336	104.8	151	172	10.0	1.136
Car	Port, Variable Valve Timing, Multi-Valve	2000	2132	0.150	29.1	20.1	27.8	23.6	3262	105.8	148	173	9.8	1.171
Car	Port, Variable Valve Timing, Multi-Valve	2001	2344	0.193	30.3	20.8	28.4	24.4	3220	105.2	143	168	10.0	1.168
Car	Port, Variable Valve Timing, Multi-Valve	2002	2811	0.253	30.3	20.7	28.3	24.3	3312	108.1	148	172	10.0	1.159
Car	Port, Variable Valve Timing, Multi-Valve	2003	3240	0.304	30.6	20.6	28.7	24.4	3303	107.9	149	176	9.8	1.179
Car	Port, Variable Valve Timing, Multi-Valve	2004	3307	0.384	30.4	20.3	28.4	24.2	3374	108.3	151	181	9.8	1.187
Car	Port, Variable Valve Timing, Multi-Valve	2005	4040	0.451	31.1	20.7	28.7	24.6	3349	108.9	149	177	9.8	1.174
Car	Port, Variable Valve Timing, Multi-Valve	2006	4651	0.537	30.5	20.3	28.4	24.2	3444	108.5	156	188	9.6	1.203
Car	Port, Variable Valve Timing, Multi-Valve	2007	4703	0.515	31.9	21.2	29.3	25.2	3445	108.4	153	185	9.6	1.200
Car	Port, Variable Valve Timing, Multi-Valve	2008	4089	0.519	32.2	21.4	29.6	25.4	3446	108.1	152	187	9.6	1.211
Car	Port, Variable Valve Timing, Multi-Valve	2009	4004	0.635	33.4	22.2	30.5	26.3	3391	109.9	145	174	10.0	1.192
Car	Port, Variable Valve Timing, Multi-Valve	2010	4783	0.687	34.4	22.9	31.2	27.0	3390	110.4	145	174	9.8	1.190
Car	Port, Variable Valve Timing, Multi-Valve	2011	4178	0.680	33.9	22.4	31.3	26.7	3462	110.5	150	183	9.7	1.219
Car	Port, Variable Valve Timing, Multi-Valve	2012	5229	0.679	36.1	23.8	33.0	28.3	3396	110.8	143	175	10.0	1.219
Car	Port, Variable Valve Timing, Multi-Valve	2013	4675	0.599	37.1	24.5	33.6	29.0	3411	110.1	141	178	9.8	1.255
Car	GDI, Fixed Valve Timing, Multi-Valve	1986												
Car	GDI, Fixed Valve Timing, Multi-Valve	1987												
Car	GDI, Fixed Valve Timing, Multi-Valve	1988												
Car	GDI, Fixed Valve Timing, Multi-Valve	1989												
Car	GDI, Fixed Valve Timing, Multi-Valve	1990												
Car	GDI, Fixed Valve Timing, Multi-Valve	1991												
Car	GDI, Fixed Valve Timing, Multi-Valve	1992												
Car	GDI, Fixed Valve Timing, Multi-Valve	1993												
Car	GDI, Fixed Valve Timing, Multi-Valve	1994												
Car	GDI, Fixed Valve Timing, Multi-Valve	1995												
Car	GDI, Fixed Valve Timing, Multi-Valve	1996												
Car	GDI, Fixed Valve Timing, Multi-Valve	1997												
Car	GDI, Fixed Valve Timing, Multi-Valve	1998												
Car	GDI, Fixed Valve Timing, Multi-Valve	1999												
Car	GDI, Fixed Valve Timing, Multi-Valve	2000												
Car	GDI, Fixed Valve Timing, Multi-Valve	2001												
Car	GDI, Fixed Valve Timing, Multi-Valve	2002												
Car	GDI, Fixed Valve Timing, Multi-Valve	2003												
Car	GDI, Fixed Valve Timing, Multi-Valve	2004												
Car	GDI, Fixed Valve Timing, Multi-Valve	2005												
Car	GDI, Fixed Valve Timing, Multi-Valve	2006												
Car	GDI, Fixed Valve Timing, Multi-Valve	2007	4	0.000	30.6	20.2	28.8	24.3	3000	77.2	98	168	9.0	1.714

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Car	Port, Variable Valve Timing, Multi-Valve	1995	0.0480	40.1	2535	4105	83.2%		23.0%	74.4%
Car	Port, Variable Valve Timing, Multi-Valve	1996	0.0474	39.6	2562	4090	87.0%		23.7%	76.1%
Car	Port, Variable Valve Timing, Multi-Valve	1997	0.0499	39.6	2468	4012	74.7%		21.4%	77.8%
Car	Port, Variable Valve Timing, Multi-Valve	1998	0.0492	39.5	2521	4119	82.0%	2.2%	17.5%	82.0%
Car	Port, Variable Valve Timing, Multi-Valve	1999	0.0509	38.9	2470	4095	81.2%	2.8%	17.1%	82.3%
Car	Port, Variable Valve Timing, Multi-Valve	2000	0.0523	38.7	2539	4106	81.8%	2.1%	16.5%	83.2%
Car	Port, Variable Valve Timing, Multi-Valve	2001	0.0513	39.7	2639	4181	78.7%	3.8%	14.1%	84.9%
Car	Port, Variable Valve Timing, Multi-Valve	2002	0.0512	40.5	2678	4391	84.5%	3.4%	12.5%	86.5%
Car	Port, Variable Valve Timing, Multi-Valve	2003	0.0526	40.6	2689	4396	83.0%	3.1%	11.8%	87.7%
Car	Port, Variable Valve Timing, Multi-Valve	2004	0.0526	41.2	2690	4479	80.3%	5.1%	11.5%	87.0%
Car	Port, Variable Valve Timing, Multi-Valve	2005	0.0517	41.8	2773	4576	83.1%	4.5%	11.1%	85.8%
Car	Port, Variable Valve Timing, Multi-Valve	2006	0.0537	42.2	2704	4596	77.3%	5.8%	11.0%	86.8%
Car	Port, Variable Valve Timing, Multi-Valve	2007	0.0528	44.1	2824	4800	81.8%	5.3%	9.0%	74.5%
Car	Port, Variable Valve Timing, Multi-Valve	2008	0.0529	44.5	2845	4830	81.7%	5.4%	9.0%	71.8%
Car	Port, Variable Valve Timing, Multi-Valve	2009	0.0504	45.0	2951	4956	88.5%	4.4%	6.5%	78.5%
Car	Port, Variable Valve Timing, Multi-Valve	2010	0.0506	47.0	3093	5211	89.4%	5.1%	4.6%	77.9%
Car	Port, Variable Valve Timing, Multi-Valve	2011	0.0520	47.2	3044	5223	84.1%	6.9%	4.9%	78.9%
Car	Port, Variable Valve Timing, Multi-Valve	2012	0.0506	49.0	3229	5448	89.7%	4.5%	4.8%	88.1%
Car	Port, Variable Valve Timing, Multi-Valve	2013	0.0512	50.9	3322	5637	86.7%	5.5%	7.5%	82.0%
Car	GDI, Fixed Valve Timing, Multi-Valve	1986								
Car	GDI, Fixed Valve Timing, Multi-Valve	1987								
Car	GDI, Fixed Valve Timing, Multi-Valve	1988								
Car	GDI, Fixed Valve Timing, Multi-Valve	1989								
Car	GDI, Fixed Valve Timing, Multi-Valve	1990								
Car	GDI, Fixed Valve Timing, Multi-Valve	1991								
Car	GDI, Fixed Valve Timing, Multi-Valve	1992								
Car	GDI, Fixed Valve Timing, Multi-Valve	1993								
Car	GDI, Fixed Valve Timing, Multi-Valve	1994								
Car	GDI, Fixed Valve Timing, Multi-Valve	1995								
Car	GDI, Fixed Valve Timing, Multi-Valve	1996								
Car	GDI, Fixed Valve Timing, Multi-Valve	1997								
Car	GDI, Fixed Valve Timing, Multi-Valve	1998								
Car	GDI, Fixed Valve Timing, Multi-Valve	1999								
Car	GDI, Fixed Valve Timing, Multi-Valve	2000								
Car	GDI, Fixed Valve Timing, Multi-Valve	2001								
Car	GDI, Fixed Valve Timing, Multi-Valve	2002								
Car	GDI, Fixed Valve Timing, Multi-Valve	2003								
Car	GDI, Fixed Valve Timing, Multi-Valve	2004								
Car	GDI, Fixed Valve Timing, Multi-Valve	2005								
Car	GDI, Fixed Valve Timing, Multi-Valve	2006								
Car	GDI, Fixed Valve Timing, Multi-Valve	2007	0.0560	36.5	1879	2819	100.0%		47.9%	52.1%

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Car	GDI, Fixed Valve Timing, Multi-Valve	2008	110	0.008	30.3	20.1	28.4	24.1	3756	104.3	122	202	9.4	1.650
Car	GDI, Fixed Valve Timing, Multi-Valve	2009	95	0.010	30.7	20.6	28.1	24.3	3749	103.6	121	204	9.3	1.687
Car	GDI, Fixed Valve Timing, Multi-Valve	2010												
Car	GDI, Fixed Valve Timing, Multi-Valve	2011												
Car	GDI, Fixed Valve Timing, Multi-Valve	2012												
Car	GDI, Fixed Valve Timing, Multi-Valve	2013												
Car	GDI, Variable Valve Timing, Multi-Valve	1986												
Car	GDI, Variable Valve Timing, Multi-Valve	1987												
Car	GDI, Variable Valve Timing, Multi-Valve	1988												
Car	GDI, Variable Valve Timing, Multi-Valve	1989												
Car	GDI, Variable Valve Timing, Multi-Valve	1990												
Car	GDI, Variable Valve Timing, Multi-Valve	1991												
Car	GDI, Variable Valve Timing, Multi-Valve	1992												
Car	GDI, Variable Valve Timing, Multi-Valve	1993												
Car	GDI, Variable Valve Timing, Multi-Valve	1994												
Car	GDI, Variable Valve Timing, Multi-Valve	1995												
Car	GDI, Variable Valve Timing, Multi-Valve	1996												
Car	GDI, Variable Valve Timing, Multi-Valve	1997												
Car	GDI, Variable Valve Timing, Multi-Valve	1998												
Car	GDI, Variable Valve Timing, Multi-Valve	1999												
Car	GDI, Variable Valve Timing, Multi-Valve	2000												
Car	GDI, Variable Valve Timing, Multi-Valve	2001												
Car	GDI, Variable Valve Timing, Multi-Valve	2002												
Car	GDI, Variable Valve Timing, Multi-Valve	2003												
Car	GDI, Variable Valve Timing, Multi-Valve	2004												
Car	GDI, Variable Valve Timing, Multi-Valve	2005												
Car	GDI, Variable Valve Timing, Multi-Valve	2006												
Car	GDI, Variable Valve Timing, Multi-Valve	2007	22	0.001	34.4	23.1	30.7	26.9	3108	75.0	103	193	8.4	1.860
Car	GDI, Variable Valve Timing, Multi-Valve	2008	123	0.015	26.4	17.5	25.3	21.2	3872	105.9	201	275	7.7	1.420
Car	GDI, Variable Valve Timing, Multi-Valve	2009	159	0.032	26.8	17.7	25.7	21.5	3970	101.0	187	284	7.6	1.549
Car	GDI, Variable Valve Timing, Multi-Valve	2010	400	0.083	28.1	18.5	27.2	22.6	3945	106.8	175	261	8.2	1.523
Car	GDI, Variable Valve Timing, Multi-Valve	2011	942	0.154	30.7	20.1	29.8	24.6	3830	111.7	167	248	8.3	1.512
Car	GDI, Variable Valve Timing, Multi-Valve	2012	1906	0.227	33.6	21.9	31.9	26.7	3559	110.8	154	222	8.7	1.462
Car	GDI, Variable Valve Timing, Multi-Valve	2013	2778	0.307	33.8	22.0	32.1	26.8	3635		152	227	8.7	1.510
Car	Diesel	1986	35	0.004	40.5	32.0	37.5	34.3	2906	106.2	123	74	17.8	0.584
Car	Diesel	1987	27	0.003	30.5	24.3	27.5	25.7	3584	110.8	172	129	13.4	0.737
Car	Diesel	1988	1	0.001	37.4	29.5	33.6	31.3	3000	95.9	152	93	14.6	0.612
Car	Diesel	1989	4	0.001	45.5	35.0	41.6	37.9	2813	103.0	102	55	20.6	0.541
Car	Diesel	1990	4	0.001	36.7	28.1	33.4	30.5	3280	107.5	141	93	16.9	0.643
Car	Diesel	1991	11	0.001	35.3	26.9	32.0	29.2	3346	107.4	148	96	16.6	0.635
Car	Diesel	1992	5	0.001	32.3	24.5	29.4	26.7	3691	110.2	154	115	14.9	0.737

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Car	GDI, Fixed Valve Timing, Multi-Valve	2008	0.0539	45.3	2515	4716	74.7%	25.3%	14.0%	74.3%
Car	GDI, Fixed Valve Timing, Multi-Valve	2009	0.0547	45.6	2518	4713	66.1%	33.9%	10.2%	83.3%
Car	GDI, Fixed Valve Timing, Multi-Valve	2010								
Car	GDI, Fixed Valve Timing, Multi-Valve	2011								
Car	GDI, Fixed Valve Timing, Multi-Valve	2012								
Car	GDI, Fixed Valve Timing, Multi-Valve	2013								
Car	GDI, Variable Valve Timing, Multi-Valve	1986								
Car	GDI, Variable Valve Timing, Multi-Valve	1987								
Car	GDI, Variable Valve Timing, Multi-Valve	1988								
Car	GDI, Variable Valve Timing, Multi-Valve	1989								
Car	GDI, Variable Valve Timing, Multi-Valve	1990								
Car	GDI, Variable Valve Timing, Multi-Valve	1991								
Car	GDI, Variable Valve Timing, Multi-Valve	1992								
Car	GDI, Variable Valve Timing, Multi-Valve	1993								
Car	GDI, Variable Valve Timing, Multi-Valve	1994								
Car	GDI, Variable Valve Timing, Multi-Valve	1995								
Car	GDI, Variable Valve Timing, Multi-Valve	1996								
Car	GDI, Variable Valve Timing, Multi-Valve	1997								
Car	GDI, Variable Valve Timing, Multi-Valve	1998								
Car	GDI, Variable Valve Timing, Multi-Valve	1999								
Car	GDI, Variable Valve Timing, Multi-Valve	2000								
Car	GDI, Variable Valve Timing, Multi-Valve	2001								
Car	GDI, Variable Valve Timing, Multi-Valve	2002								
Car	GDI, Variable Valve Timing, Multi-Valve	2003								
Car	GDI, Variable Valve Timing, Multi-Valve	2004								
Car	GDI, Variable Valve Timing, Multi-Valve	2005								
Car	GDI, Variable Valve Timing, Multi-Valve	2006								
Car	GDI, Variable Valve Timing, Multi-Valve	2007	0.0618	42.0	2068	3164	78.4%		59.3%	40.7%
Car	GDI, Variable Valve Timing, Multi-Valve	2008	0.0704	41.3	2268	4374	25.5%	23.8%	18.9%	79.0%
Car	GDI, Variable Valve Timing, Multi-Valve	2009	0.0718	42.9	2192	4348	12.8%	39.0%	18.7%	78.6%
Car	GDI, Variable Valve Timing, Multi-Valve	2010	0.0659	44.8	2430	4780	38.4%	26.6%	11.0%	71.2%
Car	GDI, Variable Valve Timing, Multi-Valve	2011	0.0643	47.5	2807	5315	58.3%	19.0%	5.8%	87.9%
Car	GDI, Variable Valve Timing, Multi-Valve	2012	0.0613	47.7	3019	5284	72.2%	10.9%	6.0%	89.1%
Car	GDI, Variable Valve Timing, Multi-Valve	2013	0.0616	49.1			70.4%	12.5%	6.4%	89.1%
Car	Diesel	1986	0.0246	50.2	3759	5330	72.5%		70.5%	10.9%
Car	Diesel	1987	0.0355	46.5	2910	5137	13.4%		13.8%	
Car	Diesel	1988	0.0310	47.0	3005	4507				
Car	Diesel	1989	0.0195	53.3	3930	5494	91.6%		91.6%	
Car	Diesel	1990	0.0273	50.6	3400	5428	44.8%		44.8%	
Car	Diesel	1991	0.0276	49.4	3269	5297	44.4%		44.4%	
Car	Diesel	1992	0.0308	49.1	3013	5419	20.1%		20.1%	

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Car	Diesel	1993												
Car	Diesel	1994	1	0.000	27.8	20.0	26.9	23.0	5000	123.7	210	148	15.2	0.705
Car	Diesel	1995	6	0.000	33.9	24.6	31.5	27.7	4076	107.7	185	135	13.8	0.730
Car	Diesel	1996	8	0.001	42.5	30.4	39.0	34.3	3674	116.3	139	105	15.5	0.761
Car	Diesel	1997	6	0.001	41.4	29.3	37.9	33.3	3610	110.1	144	109	14.9	0.759
Car	Diesel	1998	15	0.001	46.3	32.3	42.2	36.9	3222	102.8	131	109	13.9	0.816
Car	Diesel	1999	14	0.001	44.4	30.9	40.2	35.2	3348	103.5	139	119	13.4	0.839
Car	Diesel	2000	21	0.001	49.8	34.3	43.8	38.9	3000	100.0	116	90	14.8	0.776
Car	Diesel	2001	23	0.001	49.1	33.5	43.1	38.2	3103	100.1	116	90	15.2	0.776
Car	Diesel	2002	33	0.002	47.8	32.3	42.2	37.1	3226	101.7	116	90	15.7	0.776
Car	Diesel	2003	30	0.002	49.9	33.5	43.1	38.3	3207	105.7	116	90	15.6	0.776
Car	Diesel	2004	22	0.001	44.3	29.1	39.8	34.3	3319	106.7	117	105	14.3	0.897
Car	Diesel	2005	36	0.003	40.3	26.4	36.7	31.4	3571	111.1	132	128	13.5	0.958
Car	Diesel	2006	51	0.004	43.3	29.0	37.1	33.1	3531	105.8	125	111	14.8	0.879
Car	Diesel	2007	4	0.001	31.8	20.9	30.0	25.3	4572	130.7	182	212	9.4	1.164
Car	Diesel	2008	5	0.001	32.5	21.6	29.8	25.6	4358	123.6	182	211	7.4	1.160
Car	Diesel	2009	41	0.005	44.1	28.8	39.4	34.0	3546	107.0	124	146	8.3	1.174
Car	Diesel	2010	62	0.007	45.2	29.2	40.9	34.9	3514	113.6	122	143	8.7	1.175
Car	Diesel	2011	66	0.008	43.6	28.1	40.0	33.8	3605	108.1	130	157	8.5	1.196
Car	Diesel	2012	89	0.009	44.8	29.0	40.6	34.7	3543	110.9	122	143	8.7	1.167
Car	Diesel	2013	114	0.009	44.8	29.6	40.4	34.9	3517	110.9	121	141	9.0	1.166
Car SUV	Carb, Fixed Valve Timing, Two-Valve	1999												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2000												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2001												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2002												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2003												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2004												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2005												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2006												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2007												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2008												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2009												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2010												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2011												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2012												
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2013												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	1999												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2000												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2001												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2002												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2003												

## 2013 FE Trends Report

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Car	Diesel	1993								
Car	Diesel	1994	0.0296	57.5	2844	7111				
Car	Diesel	1995	0.0332	56.4	2985	6079				
Car	Diesel	1996	0.0284	63.5	4071	7404	65.2%		65.2%	
Car	Diesel	1997	0.0299	61.0	3784	6730	57.6%		57.6%	42.4%
Car	Diesel	1998	0.0330	59.7	3855	6128	77.8%		77.8%	22.2%
Car	Diesel	1999	0.0347	59.5	3733	6138	65.2%		62.8%	37.2%
Car	Diesel	2000	0.0300	58.6	3905	5858	100.0%		68.6%	31.4%
Car	Diesel	2001	0.0291	59.4	3841	5945	100.0%		60.1%	39.9%
Car	Diesel	2002	0.0281	59.9	3794	6109	100.0%		43.1%	56.9%
Car	Diesel	2003	0.0282	61.5	4065	6531	100.0%		68.5%	31.5%
Car	Diesel	2004	0.0317	57.1	3681	6103	100.0%		50.0%	50.0%
Car	Diesel	2005	0.0354	56.2	3507	6247	81.8%		24.9%	75.1%
Car	Diesel	2006	0.0311	58.5	3513	6192	89.2%		32.7%	67.3%
Car	Diesel	2007	0.0474	57.6	3281	7584		38.2%		100.0%
Car	Diesel	2008	0.0493	55.6	3146	6911		23.9%		100.0%
Car	Diesel	2009	0.0411	60.4	3649	6458	93.4%	0.9%	22.1%	77.9%
Car	Diesel	2010	0.0407	61.4	3972	6972	97.2%		25.5%	2.8%
Car	Diesel	2011	0.0432	61.1	3684	6607	84.1%		20.7%	79.3%
Car	Diesel	2012	0.0403	61.5	3857	6815	96.3%	1.2%	22.0%	58.5%
Car	Diesel	2013	0.0401	61.4	3881	6817	98.4%	0.3%	21.6%	78.4%
Car SUV	Carb, Fixed Valve Timing, Two-Valve	1999								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2000								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2001								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2002								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2003								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2004								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2005								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2006								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2007								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2008								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2009								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2010								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2011								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2012								
Car SUV	Carb, Fixed Valve Timing, Two-Valve	2013								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	1999								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2000								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2001								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2002								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2003								

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2004												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2005												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2006												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2007												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2008												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2009												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2010												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2011												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2012												
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2013												
Car SUV	Port, Fixed Valve Timing, Two-Valve	1999	301	0.565	21.9	15.5	20.6	17.9	3921		243	169	11.3	0.703
Car SUV	Port, Fixed Valve Timing, Two-Valve	2000	407	0.550	21.3	15.0	19.9	17.3	3939		239	176	11.0	0.745
Car SUV	Port, Fixed Valve Timing, Two-Valve	2001	423	0.506	22.3	15.8	20.6	18.1	3860		220	183	10.5	0.852
Car SUV	Port, Fixed Valve Timing, Two-Valve	2002	179	0.465	22.9	15.8	21.6	18.5	3916		223	188	10.3	0.862
Car SUV	Port, Fixed Valve Timing, Two-Valve	2003	183	0.441	22.5	15.7	20.6	18.1	3919		217	190	10.3	0.883
Car SUV	Port, Fixed Valve Timing, Two-Valve	2004	156	0.374	23.3	15.8	22.0	18.8	4000		214	191	10.4	0.895
Car SUV	Port, Fixed Valve Timing, Two-Valve	2005	264	0.336	24.4	16.4	22.9	19.6	4000		207	188	10.5	0.908
Car SUV	Port, Fixed Valve Timing, Two-Valve	2006	68	0.264	23.8	16.0	22.5	19.2	4000		219	205	9.8	0.934
Car SUV	Port, Fixed Valve Timing, Two-Valve	2007	159	0.225	24.6	16.5	23.1	19.7	4000		209	191	10.3	0.915
Car SUV	Port, Fixed Valve Timing, Two-Valve	2008	96	0.188	25.4	17.0	24.0	20.4	4000		204	185	10.6	0.907
Car SUV	Port, Fixed Valve Timing, Two-Valve	2009	36	0.115	25.4	17.0	23.9	20.4	4000		204	185	10.6	0.907
Car SUV	Port, Fixed Valve Timing, Two-Valve	2010												
Car SUV	Port, Fixed Valve Timing, Two-Valve	2011												
Car SUV	Port, Fixed Valve Timing, Two-Valve	2012	25	0.019	23.5	15.9	21.9	18.8	4000		226	210	9.6	0.930
Car SUV	Port, Fixed Valve Timing, Two-Valve	2013												
Car SUV	Port, Fixed Valve Timing, Multi-Valve	1999	165	0.326	24.3	17.7	21.6	19.6	3645		156	164	11.0	1.056
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2000	179	0.298	23.7	17.2	21.0	19.1	3691		154	161	11.2	1.052
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2001	246	0.296	24.1	17.0	22.1	19.5	3697		161	173	10.7	1.074
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2002	314	0.280	23.4	16.4	21.4	18.8	3774		174	177	10.6	1.021
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2003	279	0.251	25.5	17.5	23.5	20.4	3666		166	172	10.6	1.036
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2004	240	0.239	25.0	17.1	23.1	20.0	3793		177	181	10.5	1.026
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2005	327	0.204	26.2	18.0	23.4	20.7	3680		163	174	10.5	1.076
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2006	432	0.179	25.8	17.6	23.4	20.5	3813		175	176	10.6	1.015
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2007	329	0.200	25.7	17.5	23.4	20.4	4035		184	210	10.0	1.128
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2008	306	0.221	26.7	18.1	24.3	21.2	3941		181	208	9.5	1.137
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2009	124	0.156	26.5	17.9	24.4	21.1	3949		185	226	9.0	1.221
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2010	1	0.078	26.6	18.4	23.5	21.0	4000		165	173	11.2	1.048
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2011	2	0.022	22.8	15.4	21.5	18.3	4014		234	225	9.1	0.962
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2012												
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2013	8	0.005	31.1	21.6	26.7	24.2	3500		122	136	12.3	1.114
Car SUV	Port, Variable Valve Timing, Two-Valve	1999												

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2004								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2005								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2006								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2007								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2008								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2009								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2010								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2011								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2012								
Car SUV	TBI, Fixed Valve Timing, Two-Valve	2013								
Car SUV	Port, Fixed Valve Timing, Two-Valve	1999	0.0432	35.1					5.4%	94.6%
Car SUV	Port, Fixed Valve Timing, Two-Valve	2000	0.0446	34.1					4.0%	96.0%
Car SUV	Port, Fixed Valve Timing, Two-Valve	2001	0.0474	35.1			12.2%		4.3%	95.7%
Car SUV	Port, Fixed Valve Timing, Two-Valve	2002	0.0479	36.7			39.8%		3.5%	96.3%
Car SUV	Port, Fixed Valve Timing, Two-Valve	2003	0.0483	35.6			19.7%		3.5%	96.5%
Car SUV	Port, Fixed Valve Timing, Two-Valve	2004	0.0477	37.8			38.0%		2.1%	97.9%
Car SUV	Port, Fixed Valve Timing, Two-Valve	2005	0.0471	39.3			46.1%	39.6%	0.2%	99.8%
Car SUV	Port, Fixed Valve Timing, Two-Valve	2006	0.0512	38.5			52.4%		1.5%	98.5%
Car SUV	Port, Fixed Valve Timing, Two-Valve	2007	0.0478	39.5			64.8%	20.9%	1.7%	98.3%
Car SUV	Port, Fixed Valve Timing, Two-Valve	2008	0.0463	40.8			67.5%	32.5%		100.0%
Car SUV	Port, Fixed Valve Timing, Two-Valve	2009	0.0463	40.8			68.3%	31.7%		100.0%
Car SUV	Port, Fixed Valve Timing, Two-Valve	2010								
Car SUV	Port, Fixed Valve Timing, Two-Valve	2011								
Car SUV	Port, Fixed Valve Timing, Two-Valve	2012	0.0525	37.7						100.0%
Car SUV	Port, Fixed Valve Timing, Two-Valve	2013								
Car SUV	Port, Fixed Valve Timing, Multi-Valve	1999	0.0446	35.9			31.9%		15.2%	84.8%
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2000	0.0434	35.3			26.6%		10.6%	89.4%
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2001	0.0469	36.2			60.9%		9.7%	90.3%
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2002	0.0471	35.8			48.9%		11.2%	88.6%
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2003	0.0472	37.6			84.5%		11.4%	79.5%
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2004	0.0479	38.1			84.7%		13.1%	81.9%
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2005	0.0475	38.2			97.3%		7.8%	90.9%
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2006	0.0462	39.2			82.8%	11.8%	4.1%	94.0%
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2007	0.0513	41.3			94.3%		2.7%	95.1%
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2008	0.0523	42.1			98.7%		1.0%	92.8%
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2009	0.0576	41.6			93.1%		0.4%	98.5%
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2010	0.0433	42.0			100.0%			100.0%
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2011	0.0561	36.8			100.0%			100.0%
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2012								
Car SUV	Port, Fixed Valve Timing, Multi-Valve	2013	0.0389	42.4			100.0%			100.0%
Car SUV	Port, Variable Valve Timing, Two-Valve	1999								

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Car SUV	Port, Variable Valve Timing, Two-Valve	2000												
Car SUV	Port, Variable Valve Timing, Two-Valve	2001												
Car SUV	Port, Variable Valve Timing, Two-Valve	2002												
Car SUV	Port, Variable Valve Timing, Two-Valve	2003												
Car SUV	Port, Variable Valve Timing, Two-Valve	2004												
Car SUV	Port, Variable Valve Timing, Two-Valve	2005												
Car SUV	Port, Variable Valve Timing, Two-Valve	2006	32	0.017	26.5	17.6	25.4	21.3	4000		213	255	8.2	1.197
Car SUV	Port, Variable Valve Timing, Two-Valve	2007												
Car SUV	Port, Variable Valve Timing, Two-Valve	2008												
Car SUV	Port, Variable Valve Timing, Two-Valve	2009												
Car SUV	Port, Variable Valve Timing, Two-Valve	2010												
Car SUV	Port, Variable Valve Timing, Two-Valve	2011												
Car SUV	Port, Variable Valve Timing, Two-Valve	2012												
Car SUV	Port, Variable Valve Timing, Two-Valve	2013												
Car SUV	Port, Variable Valve Timing, Multi-Valve	1999	22	0.108	24.5	17.5	22.5	19.9	4000		183	220	9.2	1.202
Car SUV	Port, Variable Valve Timing, Multi-Valve	2000	31	0.150	24.2	17.2	22.2	19.6	4000		183	220	9.2	1.202
Car SUV	Port, Variable Valve Timing, Multi-Valve	2001	74	0.193	27.1	19.1	24.4	21.7	3454		150	181	9.7	1.208
Car SUV	Port, Variable Valve Timing, Multi-Valve	2002	110	0.253	28.2	19.8	25.2	22.5	3396		144	170	10.0	1.183
Car SUV	Port, Variable Valve Timing, Multi-Valve	2003	113	0.304	27.8	19.4	24.8	22.1	3510		160	188	9.6	1.171
Car SUV	Port, Variable Valve Timing, Multi-Valve	2004	242	0.384	26.0	17.8	23.9	20.8	3820		190	218	9.1	1.145
Car SUV	Port, Variable Valve Timing, Multi-Valve	2005	222	0.451	25.4	17.3	23.4	20.3	3913		194	223	9.1	1.143
Car SUV	Port, Variable Valve Timing, Multi-Valve	2006	220	0.537	26.0	17.7	23.7	20.7	3942		185	211	9.6	1.137
Car SUV	Port, Variable Valve Timing, Multi-Valve	2007	430	0.515	26.7	18.1	24.3	21.2	3835		178	213	9.3	1.206
Car SUV	Port, Variable Valve Timing, Multi-Valve	2008	501	0.519	26.9	18.3	24.6	21.4	3856		174	203	9.8	1.165
Car SUV	Port, Variable Valve Timing, Multi-Valve	2009	441	0.635	28.5	19.3	25.7	22.5	3802		171	202	9.6	1.173
Car SUV	Port, Variable Valve Timing, Multi-Valve	2010	675	0.687	29.0	19.6	26.2	22.9	3879		176	213	9.3	1.208
Car SUV	Port, Variable Valve Timing, Multi-Valve	2011	871	0.680	30.1	20.3	27.3	23.7	3799		169	206	9.5	1.214
Car SUV	Port, Variable Valve Timing, Multi-Valve	2012	744	0.679	30.1	20.4	27.1	23.7	3782		170	209	9.4	1.226
Car SUV	Port, Variable Valve Timing, Multi-Valve	2013	793	0.599	31.0	20.7	28.1	24.4	3890		171	211	9.6	1.231
Car SUV	GDI, Variable Valve Timing, Multi-Valve	1999												
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2000												
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2001												
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2002												
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2003												
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2004												
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2005												
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2006												
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2007												
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2008	20	0.015	24.9	16.9	22.9	19.9	4000		140	244	8.5	1.743
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2009	8	0.032	25.4	17.5	22.8	20.2	4000		140	244	8.5	1.743
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2010	240	0.083	29.5	19.6	27.5	23.4	4148		160	215	9.8	1.332

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Car SUV	Port, Variable Valve Timing, Two-Valve	2000								
Car SUV	Port, Variable Valve Timing, Two-Valve	2001								
Car SUV	Port, Variable Valve Timing, Two-Valve	2002								
Car SUV	Port, Variable Valve Timing, Two-Valve	2003								
Car SUV	Port, Variable Valve Timing, Two-Valve	2004								
Car SUV	Port, Variable Valve Timing, Two-Valve	2005								
Car SUV	Port, Variable Valve Timing, Two-Valve	2006	0.0638	42.6			100.0%			100.0%
Car SUV	Port, Variable Valve Timing, Two-Valve	2007								
Car SUV	Port, Variable Valve Timing, Two-Valve	2008								
Car SUV	Port, Variable Valve Timing, Two-Valve	2009								
Car SUV	Port, Variable Valve Timing, Two-Valve	2010								
Car SUV	Port, Variable Valve Timing, Two-Valve	2011								
Car SUV	Port, Variable Valve Timing, Two-Valve	2012								
Car SUV	Port, Variable Valve Timing, Two-Valve	2013								
Car SUV	Port, Variable Valve Timing, Multi-Valve	1999	0.0550	39.7			100.0%			100.0%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2000	0.0550	39.2			100.0%			100.0%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2001	0.0519	37.4			100.0%		5.1%	94.9%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2002	0.0499	38.1			100.0%		3.3%	96.7%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2003	0.0528	38.8			95.0%		2.6%	76.5%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2004	0.0566	39.7			83.8%	8.9%	0.9%	87.4%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2005	0.0566	39.6			73.1%	6.0%	1.7%	83.9%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2006	0.0528	40.8			72.3%	6.0%	2.2%	83.8%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2007	0.0550	40.7			86.2%	2.2%	0.7%	92.6%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2008	0.0522	41.4			83.1%	3.6%	0.7%	92.6%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2009	0.0527	43.1			93.8%	1.2%	0.7%	81.0%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2010	0.0546	44.5			96.0%	0.3%	0.3%	88.4%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2011	0.0539	45.2			97.1%	0.8%	0.7%	88.2%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2012	0.0548	45.0			92.4%	4.3%	0.7%	97.5%
Car SUV	Port, Variable Valve Timing, Multi-Valve	2013	0.0537	47.5			94.0%	4.1%	0.9%	98.5%
Car SUV	GDI, Variable Valve Timing, Multi-Valve	1999								
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2000								
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2001								
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2002								
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2003								
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2004								
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2005								
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2006								
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2007								
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2008	0.0610	39.8			100.0%			100.0%
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2009	0.0610	40.3			100.0%			100.0%
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2010	0.0516	49.2			67.0%	33.0%		100.0%

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2011	333	0.154	29.3	19.4	27.7	23.4	4126		158	210	10.0	1.321
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2012	500	0.227	29.3	19.3	27.4	23.2	4105		161	213	9.9	1.326
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2013	726	0.307	31.4	20.6	29.0	24.7	4023		147	210	10.0	1.452
Car SUV	Diesel	1999												
Car SUV	Diesel	2000												
Car SUV	Diesel	2001												
Car SUV	Diesel	2002												
Car SUV	Diesel	2003												
Car SUV	Diesel	2004												
Car SUV	Diesel	2005												
Car SUV	Diesel	2006												
Car SUV	Diesel	2007												
Car SUV	Diesel	2008												
Car SUV	Diesel	2009												
Car SUV	Diesel	2010												
Car SUV	Diesel	2011												
Car SUV	Diesel	2012												
Car SUV	Diesel	2013												
Van	Carb, Fixed Valve Timing, Two-Valve	1999												
Van	Carb, Fixed Valve Timing, Two-Valve	2000												
Van	Carb, Fixed Valve Timing, Two-Valve	2001												
Van	Carb, Fixed Valve Timing, Two-Valve	2002												
Van	Carb, Fixed Valve Timing, Two-Valve	2003												
Van	Carb, Fixed Valve Timing, Two-Valve	2004												
Van	Carb, Fixed Valve Timing, Two-Valve	2005												
Van	Carb, Fixed Valve Timing, Two-Valve	2006												
Van	Carb, Fixed Valve Timing, Two-Valve	2007												
Van	Carb, Fixed Valve Timing, Two-Valve	2008												
Van	Carb, Fixed Valve Timing, Two-Valve	2009												
Van	Carb, Fixed Valve Timing, Two-Valve	2010												
Van	Carb, Fixed Valve Timing, Two-Valve	2011												
Van	Carb, Fixed Valve Timing, Two-Valve	2012												
Van	Carb, Fixed Valve Timing, Two-Valve	2013												
Van	TBI, Fixed Valve Timing, Two-Valve	1999												
Van	TBI, Fixed Valve Timing, Two-Valve	2000												
Van	TBI, Fixed Valve Timing, Two-Valve	2001												
Van	TBI, Fixed Valve Timing, Two-Valve	2002												
Van	TBI, Fixed Valve Timing, Two-Valve	2003												
Van	TBI, Fixed Valve Timing, Two-Valve	2004												
Van	TBI, Fixed Valve Timing, Two-Valve	2005												
Van	TBI, Fixed Valve Timing, Two-Valve	2006												

# 2013 FE Trends Report

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2011	0.0506	48.9			66.9%	33.1%		100.0%
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2012	0.0517	48.3			69.7%	30.3%	0.1%	99.9%
Car SUV	GDI, Variable Valve Timing, Multi-Valve	2013	0.0519	50.1			77.3%	21.2%	0.2%	99.8%
Car SUV	Diesel	1999								
Car SUV	Diesel	2000								
Car SUV	Diesel	2001								
Car SUV	Diesel	2002								
Car SUV	Diesel	2003								
Car SUV	Diesel	2004								
Car SUV	Diesel	2005								
Car SUV	Diesel	2006								
Car SUV	Diesel	2007								
Car SUV	Diesel	2008								
Car SUV	Diesel	2009								
Car SUV	Diesel	2010								
Car SUV	Diesel	2011								
Car SUV	Diesel	2012								
Car SUV	Diesel	2013								
Van	Carb, Fixed Valve Timing, Two-Valve	1999								
Van	Carb, Fixed Valve Timing, Two-Valve	2000								
Van	Carb, Fixed Valve Timing, Two-Valve	2001								
Van	Carb, Fixed Valve Timing, Two-Valve	2002								
Van	Carb, Fixed Valve Timing, Two-Valve	2003								
Van	Carb, Fixed Valve Timing, Two-Valve	2004								
Van	Carb, Fixed Valve Timing, Two-Valve	2005								
Van	Carb, Fixed Valve Timing, Two-Valve	2006								
Van	Carb, Fixed Valve Timing, Two-Valve	2007								
Van	Carb, Fixed Valve Timing, Two-Valve	2008								
Van	Carb, Fixed Valve Timing, Two-Valve	2009								
Van	Carb, Fixed Valve Timing, Two-Valve	2010								
Van	Carb, Fixed Valve Timing, Two-Valve	2011								
Van	Carb, Fixed Valve Timing, Two-Valve	2012								
Van	Carb, Fixed Valve Timing, Two-Valve	2013								
Van	TBI, Fixed Valve Timing, Two-Valve	1999								
Van	TBI, Fixed Valve Timing, Two-Valve	2000								
Van	TBI, Fixed Valve Timing, Two-Valve	2001								
Van	TBI, Fixed Valve Timing, Two-Valve	2002								
Van	TBI, Fixed Valve Timing, Two-Valve	2003								
Van	TBI, Fixed Valve Timing, Two-Valve	2004								
Van	TBI, Fixed Valve Timing, Two-Valve	2005								
Van	TBI, Fixed Valve Timing, Two-Valve	2006								

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Van	TBI, Fixed Valve Timing, Two-Valve	2007												
Van	TBI, Fixed Valve Timing, Two-Valve	2008												
Van	TBI, Fixed Valve Timing, Two-Valve	2009												
Van	TBI, Fixed Valve Timing, Two-Valve	2010												
Van	TBI, Fixed Valve Timing, Two-Valve	2011												
Van	TBI, Fixed Valve Timing, Two-Valve	2012												
Van	TBI, Fixed Valve Timing, Two-Valve	2013												
Van	Port, Fixed Valve Timing, Two-Valve	1999	1281	0.565	22.0	15.4	21.2	18.0	4330		229	183	11.4	0.806
Van	Port, Fixed Valve Timing, Two-Valve	2000	1325	0.550	22.4	15.6	21.5	18.3	4306		226	182	11.5	0.812
Van	Port, Fixed Valve Timing, Two-Valve	2001	954	0.506	21.6	15.0	20.7	17.6	4602		241	204	11.0	0.855
Van	Port, Fixed Valve Timing, Two-Valve	2002	890	0.465	22.8	15.7	21.6	18.5	4407		226	194	11.0	0.865
Van	Port, Fixed Valve Timing, Two-Valve	2003	914	0.441	23.5	16.0	22.2	19.0	4381		226	196	10.9	0.874
Van	Port, Fixed Valve Timing, Two-Valve	2004	454	0.374	23.0	15.5	21.9	18.6	4445		233	198	10.9	0.857
Van	Port, Fixed Valve Timing, Two-Valve	2005	919	0.336	23.6	15.9	22.3	19.0	4388		224	199	10.8	0.890
Van	Port, Fixed Valve Timing, Two-Valve	2006	617	0.264	23.5	15.7	22.3	18.9	4505		226	198	11.1	0.880
Van	Port, Fixed Valve Timing, Two-Valve	2007	327	0.225	23.3	15.5	22.3	18.8	4498		226	198	11.1	0.875
Van	Port, Fixed Valve Timing, Two-Valve	2008	295	0.188	23.8	15.9	22.6	19.2	4573		225	176	12.3	0.783
Van	Port, Fixed Valve Timing, Two-Valve	2009	151	0.115	23.8	16.0	22.7	19.2	4577		223	189	11.7	0.855
Van	Port, Fixed Valve Timing, Two-Valve	2010	263	0.077	24.0	16.0	23.1	19.4	4516		224	191	11.4	0.852
Van	Port, Fixed Valve Timing, Two-Valve	2011	11	0.039	20.0	13.9	18.2	16.0	5325		275	209	12.1	0.758
Van	Port, Fixed Valve Timing, Two-Valve	2012	18	0.019	20.5	14.1	18.7	16.4	5192		271	206	12.1	0.761
Van	Port, Fixed Valve Timing, Two-Valve	2013	17	0.009	20.3	14.0	18.5	16.3	5275		275	208	12.1	0.756
Van	Port, Fixed Valve Timing, Multi-Valve	1999	62	0.326	25.6	18.0	24.1	20.8	3998		148	150	12.5	1.015
Van	Port, Fixed Valve Timing, Multi-Valve	2000	112	0.298	24.6	17.3	22.9	19.9	4000		150	159	12.0	1.061
Van	Port, Fixed Valve Timing, Multi-Valve	2001	69	0.296	23.9	16.9	21.8	19.3	4045		151	158	12.1	1.043
Van	Port, Fixed Valve Timing, Multi-Valve	2002	93	0.280	22.0	15.3	20.6	17.8	4570		184	176	12.3	0.966
Van	Port, Fixed Valve Timing, Multi-Valve	2003	77	0.251	21.5	14.9	20.0	17.4	4706		193	182	12.3	0.952
Van	Port, Fixed Valve Timing, Multi-Valve	2004	59	0.239	21.6	14.4	21.1	17.6	4897		206	190	12.2	0.926
Van	Port, Fixed Valve Timing, Multi-Valve	2005	191	0.204	23.5	15.8	22.2	18.9	4494		191	194	11.2	1.022
Van	Port, Fixed Valve Timing, Multi-Valve	2006	125	0.179	24.9	16.7	23.3	19.9	4288		198	213	10.2	1.076
Van	Port, Fixed Valve Timing, Multi-Valve	2007	107	0.200	24.6	16.5	23.1	19.7	4344		207	222	9.9	1.074
Van	Port, Fixed Valve Timing, Multi-Valve	2008	115	0.221	24.4	16.3	23.4	19.7	4642		227	254	9.3	1.123
Van	Port, Fixed Valve Timing, Multi-Valve	2009	44	0.156	25.0	16.6	24.0	20.1	4785		237	252	9.5	1.064
Van	Port, Fixed Valve Timing, Multi-Valve	2010	86	0.078	27.7	18.8	25.0	21.9	4353		191	203	10.8	1.080
Van	Port, Fixed Valve Timing, Multi-Valve	2011	28	0.022	29.9	20.8	25.7	23.3	3526		124	141	11.9	1.144
Van	Port, Fixed Valve Timing, Multi-Valve	2012	37	0.004	30.5	20.8	26.8	23.9	3500		122	136	12.3	1.114
Van	Port, Fixed Valve Timing, Multi-Valve	2013												
Van	Port, Variable Valve Timing, Two-Valve	1999												
Van	Port, Variable Valve Timing, Two-Valve	2000												
Van	Port, Variable Valve Timing, Two-Valve	2001												
Van	Port, Variable Valve Timing, Two-Valve	2002												

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Van	TBI, Fixed Valve Timing, Two-Valve	2007								
Van	TBI, Fixed Valve Timing, Two-Valve	2008								
Van	TBI, Fixed Valve Timing, Two-Valve	2009								
Van	TBI, Fixed Valve Timing, Two-Valve	2010								
Van	TBI, Fixed Valve Timing, Two-Valve	2011								
Van	TBI, Fixed Valve Timing, Two-Valve	2012								
Van	TBI, Fixed Valve Timing, Two-Valve	2013								
Van	Port, Fixed Valve Timing, Two-Valve	1999	0.0422	39.2			72.6%	3.1%		100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2000	0.0423	39.6			75.3%	3.5%		100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2001	0.0443	40.8			60.3%	11.2%		100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2002	0.0441	41.1			78.1%	4.2%		100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2003	0.0448	41.7			77.8%	6.8%		100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2004	0.0446	41.4			77.7%	4.6%		100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2005	0.0453	41.7			89.1%	2.2%		100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2006	0.0440	42.6			87.3%	2.0%		100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2007	0.0439	42.2			90.3%	1.2%		100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2008	0.0384	43.9			90.4%	1.4%		100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2009	0.0412	44.0			90.1%	1.6%		100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2010	0.0423	43.8			96.8%			100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2011	0.0392	42.8						100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2012	0.0398	42.8						100.0%
Van	Port, Fixed Valve Timing, Two-Valve	2013	0.0394	43.0						100.0%
Van	Port, Fixed Valve Timing, Multi-Valve	1999	0.0375	41.6			100.0%			100.0%
Van	Port, Fixed Valve Timing, Multi-Valve	2000	0.0398	40.0			100.0%			100.0%
Van	Port, Fixed Valve Timing, Multi-Valve	2001	0.0391	39.0			100.0%			100.0%
Van	Port, Fixed Valve Timing, Multi-Valve	2002	0.0384	40.8			100.0%			100.0%
Van	Port, Fixed Valve Timing, Multi-Valve	2003	0.0386	41.1			100.0%			100.0%
Van	Port, Fixed Valve Timing, Multi-Valve	2004	0.0388	43.0			100.0%			100.0%
Van	Port, Fixed Valve Timing, Multi-Valve	2005	0.0435	42.4			81.1%	18.9%		60.5%
Van	Port, Fixed Valve Timing, Multi-Valve	2006	0.0494	42.7			84.1%	15.9%		55.9%
Van	Port, Fixed Valve Timing, Multi-Valve	2007	0.0510	42.8			88.1%	11.9%		64.5%
Van	Port, Fixed Valve Timing, Multi-Valve	2008	0.0549	45.9			87.1%	12.9%		100.0%
Van	Port, Fixed Valve Timing, Multi-Valve	2009	0.0527	48.4			100.0%			100.0%
Van	Port, Fixed Valve Timing, Multi-Valve	2010	0.0458	47.4			100.0%			100.0%
Van	Port, Fixed Valve Timing, Multi-Valve	2011	0.0401	41.1			98.7%			100.0%
Van	Port, Fixed Valve Timing, Multi-Valve	2012	0.0389	41.8			100.0%			100.0%
Van	Port, Fixed Valve Timing, Multi-Valve	2013								
Van	Port, Variable Valve Timing, Two-Valve	1999								
Van	Port, Variable Valve Timing, Two-Valve	2000								
Van	Port, Variable Valve Timing, Two-Valve	2001								
Van	Port, Variable Valve Timing, Two-Valve	2002								

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Van	Port, Variable Valve Timing, Two-Valve	2003												
Van	Port, Variable Valve Timing, Two-Valve	2004												
Van	Port, Variable Valve Timing, Two-Valve	2005												
Van	Port, Variable Valve Timing, Two-Valve	2006	4	0.017	24.1	16.0	23.4	19.5	4500		237	240	9.4	1.013
Van	Port, Variable Valve Timing, Two-Valve	2007	71	0.057	24.1	16.0	23.4	19.5	4500		237	240	9.4	1.013
Van	Port, Variable Valve Timing, Two-Valve	2008	77	0.048	24.0	15.9	23.2	19.4	4500		237	240	9.4	1.013
Van	Port, Variable Valve Timing, Two-Valve	2009												
Van	Port, Variable Valve Timing, Two-Valve	2010	7	0.068	18.4	12.9	16.7	14.8	5783		323	301	9.6	0.932
Van	Port, Variable Valve Timing, Two-Valve	2011	7	0.096	17.9	12.4	16.5	14.5	5920		328	303	9.7	0.926
Van	Port, Variable Valve Timing, Two-Valve	2012	8	0.061	17.9	12.4	16.6	14.5	5929		327	310	9.7	0.950
Van	Port, Variable Valve Timing, Two-Valve	2013	10	0.069	18.3	12.6	16.9	14.8	5807		326	310	9.5	0.953
Van	Port, Variable Valve Timing, Multi-Valve	1999	120	0.108	24.1	16.7	23.4	19.7	4210		195	196	10.5	1.008
Van	Port, Variable Valve Timing, Multi-Valve	2000	254	0.150	24.0	16.5	23.3	19.6	4241		197	197	10.5	1.004
Van	Port, Variable Valve Timing, Multi-Valve	2001	209	0.193	24.3	16.7	23.2	19.8	4295		200	207	10.2	1.041
Van	Port, Variable Valve Timing, Multi-Valve	2002	259	0.253	24.3	16.7	23.2	19.7	4287		200	226	9.5	1.133
Van	Port, Variable Valve Timing, Multi-Valve	2003	241	0.304	24.3	16.5	23.2	19.6	4342		203	229	9.5	1.129
Van	Port, Variable Valve Timing, Multi-Valve	2004	440	0.384	24.9	16.7	23.8	20.1	4475		206	233	9.6	1.132
Van	Port, Variable Valve Timing, Multi-Valve	2005	371	0.451	25.2	16.8	24.2	20.3	4500		208	242	9.4	1.165
Van	Port, Variable Valve Timing, Multi-Valve	2006	421	0.537	25.3	16.8	24.3	20.4	4488		207	229	9.8	1.108
Van	Port, Variable Valve Timing, Multi-Valve	2007	342	0.515	25.1	16.7	23.9	20.2	4500		212	250	9.2	1.179
Van	Port, Variable Valve Timing, Multi-Valve	2008	303	0.519	25.8	17.2	24.4	20.7	4446		208	247	9.2	1.188
Van	Port, Variable Valve Timing, Multi-Valve	2009	173	0.635	26.0	17.4	24.6	20.9	4514		203	240	9.6	1.181
Van	Port, Variable Valve Timing, Multi-Valve	2010	204	0.687	25.7	17.1	24.5	20.6	4590		207	241	9.6	1.163
Van	Port, Variable Valve Timing, Multi-Valve	2011	475	0.680	26.4	17.6	25.0	21.2	4521		214	266	8.7	1.244
Van	Port, Variable Valve Timing, Multi-Valve	2012	599	0.679	26.9	17.8	25.6	21.5	4456		212	262	8.9	1.234
Van	Port, Variable Valve Timing, Multi-Valve	2013	541	0.599	26.7	17.6	25.4	21.4	4584		212	264	9.0	1.245
Van	Diesel	1999												
Van	Diesel	2000												
Van	Diesel	2001												
Van	Diesel	2002												
Van	Diesel	2003												
Van	Diesel	2004												
Van	Diesel	2005												
Van	Diesel	2006												
Van	Diesel	2007												
Van	Diesel	2008												
Van	Diesel	2009												
Van	Diesel	2010												
Van	Diesel	2011												
Van	Diesel	2012												
Van	Diesel	2013												

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Van	Port, Variable Valve Timing, Two-Valve	2003								
Van	Port, Variable Valve Timing, Two-Valve	2004								
Van	Port, Variable Valve Timing, Two-Valve	2005								
Van	Port, Variable Valve Timing, Two-Valve	2006	0.0533	43.9			100.0%			100.0%
Van	Port, Variable Valve Timing, Two-Valve	2007	0.0533	43.9			100.0%			100.0%
Van	Port, Variable Valve Timing, Two-Valve	2008	0.0533	43.7			100.0%			100.0%
Van	Port, Variable Valve Timing, Two-Valve	2009								
Van	Port, Variable Valve Timing, Two-Valve	2010	0.0521	42.8				46.9%		100.0%
Van	Port, Variable Valve Timing, Two-Valve	2011	0.0514	42.8				43.4%		100.0%
Van	Port, Variable Valve Timing, Two-Valve	2012	0.0526	42.8				41.5%		100.0%
Van	Port, Variable Valve Timing, Two-Valve	2013	0.0536	42.8				26.4%		100.0%
Van	Port, Variable Valve Timing, Multi-Valve	1999	0.0467	41.6			100.0%			100.0%
Van	Port, Variable Valve Timing, Multi-Valve	2000	0.0466	41.6			100.0%			100.0%
Van	Port, Variable Valve Timing, Multi-Valve	2001	0.0484	42.4			100.0%			100.0%
Van	Port, Variable Valve Timing, Multi-Valve	2002	0.0527	42.3			100.0%			100.0%
Van	Port, Variable Valve Timing, Multi-Valve	2003	0.0527	42.6			100.0%			100.0%
Van	Port, Variable Valve Timing, Multi-Valve	2004	0.0521	44.9			94.1%	5.9%		100.0%
Van	Port, Variable Valve Timing, Multi-Valve	2005	0.0538	45.8			93.5%	6.5%		100.0%
Van	Port, Variable Valve Timing, Multi-Valve	2006	0.0511	45.9			95.1%	4.9%		100.0%
Van	Port, Variable Valve Timing, Multi-Valve	2007	0.0555	45.4			97.7%	2.3%		100.0%
Van	Port, Variable Valve Timing, Multi-Valve	2008	0.0555	46.0			95.7%	4.3%	0.3%	99.7%
Van	Port, Variable Valve Timing, Multi-Valve	2009	0.0531	47.1			96.1%	3.9%	0.6%	99.4%
Van	Port, Variable Valve Timing, Multi-Valve	2010	0.0526	47.4			97.2%	2.8%	0.7%	99.3%
Van	Port, Variable Valve Timing, Multi-Valve	2011	0.0589	47.9			94.5%	5.5%		96.6%
Van	Port, Variable Valve Timing, Multi-Valve	2012	0.0587	48.0			97.1%	2.9%	0.2%	99.8%
Van	Port, Variable Valve Timing, Multi-Valve	2013	0.0575	48.9			97.1%	2.9%	0.2%	99.8%
Van	Diesel	1999								
Van	Diesel	2000								
Van	Diesel	2001								
Van	Diesel	2002								
Van	Diesel	2003								
Van	Diesel	2004								
Van	Diesel	2005								
Van	Diesel	2006								
Van	Diesel	2007								
Van	Diesel	2008								
Van	Diesel	2009								
Van	Diesel	2010								
Van	Diesel	2011								
Van	Diesel	2012								
Van	Diesel	2013								

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	1999												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2000												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2001												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2002												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2003												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2004												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2005												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2006												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2007												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2008												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2009												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2010												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2011												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2012												
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2013												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	1999												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2000												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2001												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2002												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2003												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2004												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2005												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2006												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2007												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2008												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2009												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2010												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2011												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2012												
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2013												
Truck SUV	Port, Fixed Valve Timing, Two-Valve	1999	1724	0.565	18.8	13.4	17.8	15.5	4652		278	209	10.9	0.761
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2000	1953	0.550	19.0	13.5	17.8	15.5	4724		275	213	10.9	0.780
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2001	1636	0.506	19.3	13.7	17.8	15.7	4758		271	220	10.6	0.813
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2002	2002	0.465	19.2	13.4	17.9	15.6	4875		273	237	10.3	0.867
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2003	1729	0.441	19.0	13.2	17.7	15.4	5138		285	243	10.4	0.854
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2004	1907	0.374	19.2	13.3	17.9	15.5	4997		284	243	10.2	0.856
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2005	1169	0.336	19.3	13.3	17.9	15.6	5051		285	252	10.0	0.884
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2006	883	0.264	19.6	13.4	18.2	15.8	4913		272	243	10.2	0.890
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2007	1119	0.225	20.5	14.0	19.2	16.5	5222		283	262	10.0	0.920
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2008	775	0.188	20.8	14.2	19.3	16.7	5043		271	251	10.1	0.921
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2009	262	0.115	20.8	14.1	19.5	16.8	4975		265	249	10.1	0.931

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	1999								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2000								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2001								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2002								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2003								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2004								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2005								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2006								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2007								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2008								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2009								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2010								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2011								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2012								
Truck SUV	Carb, Fixed Valve Timing, Two-Valve	2013								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	1999								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2000								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2001								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2002								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2003								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2004								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2005								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2006								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2007								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2008								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2009								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2010								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2011								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2012								
Truck SUV	TBI, Fixed Valve Timing, Two-Valve	2013								
Truck SUV	Port, Fixed Valve Timing, Two-Valve	1999	0.0451	35.9				77.9%	4.5%	95.5%
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2000	0.0452	36.5				84.0%	4.0%	96.0%
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2001	0.0461	37.3			10.1%	71.6%	3.1%	96.9%
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2002	0.0484	37.9				69.9%	2.6%	97.4%
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2003	0.0473	39.4				69.6%	2.4%	97.6%
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2004	0.0487	38.6			1.1%	70.9%	2.4%	97.6%
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2005	0.0498	39.4				74.0%	3.0%	97.0%
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2006	0.0493	38.8				76.2%	4.0%	96.0%
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2007	0.0500	43.2				65.4%	2.8%	97.2%
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2008	0.0494	42.2				70.3%	4.3%	94.7%
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2009	0.0497	41.6				66.5%	2.0%	98.0%

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2010	280	0.077	21.3	14.5	19.7	17.1	4548		233	207	10.7	0.889
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2011	187	0.039	22.0	15.1	20.4	17.7	4323		229	204	10.4	0.892
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2012	82	0.019	21.9	14.9	20.4	17.6	4539		232	220	10.4	0.941
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2013	9	0.009	19.8	13.2	17.7	15.4	5121		307	302	9.2	0.961
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	1999	550	0.326	22.2	16.2	20.0	18.0	4164		184	185	11.1	1.028
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2000	509	0.298	22.4	16.3	19.8	18.0	4199		178	178	11.4	1.022
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2001	681	0.296	22.0	15.7	19.8	17.7	4222		189	191	10.8	1.036
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2002	688	0.280	21.1	15.0	19.0	17.0	4334		202	197	10.8	0.993
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2003	649	0.251	21.2	14.8	19.4	17.1	4361		214	207	10.4	0.990
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2004	601	0.239	21.0	14.6	19.1	16.8	4458		223	218	10.2	1.005
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2005	459	0.204	22.6	15.6	20.3	18.0	4221		193	202	10.4	1.057
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2006	305	0.179	23.9	16.5	21.5	19.0	4042		183	189	10.4	1.040
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2007	385	0.200	23.0	15.8	21.0	18.4	4444		207	240	9.5	1.157
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2008	427	0.221	23.7	16.4	21.4	18.9	4365		206	230	9.6	1.114
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2009	266	0.156	25.5	17.2	23.6	20.4	4094		184	214	9.7	1.163
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2010	104	0.078	21.8	14.6	20.9	17.6	5120		255	260	9.8	1.036
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2011	20	0.022	21.6	14.9	19.6	17.3	4466		243	253	9.1	1.033
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2012												
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2013	59	0.005	28.1	19.0	25.5	22.3	4231		167	209	10.7	1.222
Truck SUV	Port, Variable Valve Timing, Two-Valve	1999												
Truck SUV	Port, Variable Valve Timing, Two-Valve	2000												
Truck SUV	Port, Variable Valve Timing, Two-Valve	2001												
Truck SUV	Port, Variable Valve Timing, Two-Valve	2002												
Truck SUV	Port, Variable Valve Timing, Two-Valve	2003												
Truck SUV	Port, Variable Valve Timing, Two-Valve	2004												
Truck SUV	Port, Variable Valve Timing, Two-Valve	2005												
Truck SUV	Port, Variable Valve Timing, Two-Valve	2006	23	0.017	24.9	16.7	23.6	20.0	4000		213	255	8.2	1.197
Truck SUV	Port, Variable Valve Timing, Two-Valve	2007	146	0.057	18.6	12.5	18.2	15.2	5683		327	351	8.6	1.075
Truck SUV	Port, Variable Valve Timing, Two-Valve	2008	92	0.048	19.1	12.9	18.6	15.6	5480		314	330	8.8	1.053
Truck SUV	Port, Variable Valve Timing, Two-Valve	2009	41	0.048	20.5	13.9	19.5	16.6	5612		348	354	8.2	1.017
Truck SUV	Port, Variable Valve Timing, Two-Valve	2010	118	0.068	21.4	14.4	20.5	17.3	5881		337	331	9.1	0.977
Truck SUV	Port, Variable Valve Timing, Two-Valve	2011	315	0.096	21.0	14.1	19.8	16.9	5953		339	346	8.9	1.018
Truck SUV	Port, Variable Valve Timing, Two-Valve	2012	218	0.061	20.9	14.0	19.7	16.8	5933		339	349	8.9	1.028
Truck SUV	Port, Variable Valve Timing, Two-Valve	2013	306	0.069	21.4	14.4	21.6	17.7	5956		340	346	8.9	1.019
Truck SUV	Port, Variable Valve Timing, Multi-Valve	1999	69	0.108	23.3	16.8	21.2	18.9	4000		183	220	9.2	1.202
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2000	64	0.150	22.7	16.3	20.6	18.4	4086		190	225	9.2	1.189
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2001	390	0.193	21.8	15.5	19.9	17.7	4219		191	222	9.7	1.164
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2002	897	0.253	21.8	15.2	20.4	17.7	4336		213	235	9.5	1.113
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2003	1194	0.304	22.1	15.3	20.5	17.8	4411		211	234	9.6	1.118
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2004	1566	0.384	21.9	15.0	20.4	17.6	4576		225	245	9.5	1.103
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2005	1636	0.451	21.5	14.7	19.9	17.3	4696		230	250	9.5	1.104

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2010	0.0458	38.9				80.3%	7.6%	92.3%
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2011	0.0474	38.2				85.8%	10.4%	89.6%
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2012	0.0482	40.0				100.0%		100.0%
Truck SUV	Port, Fixed Valve Timing, Two-Valve	2013	0.0583	39.5				24.2%		100.0%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	1999	0.0442	37.5				81.5%	11.0%	89.0%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2000	0.0424	37.8				81.0%	9.1%	90.9%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2001	0.0456	37.3				86.9%	5.7%	94.3%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2002	0.0460	36.6				85.2%	6.9%	92.9%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2003	0.0477	37.1				81.1%	2.7%	94.9%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2004	0.0493	37.4				82.6%	3.6%	95.4%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2005	0.0478	38.1				83.8%	4.5%	93.7%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2006	0.0467	38.7				88.3%	6.0%	89.9%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2007	0.0534	40.9			0.4%	95.1%	2.0%	96.1%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2008	0.0521	41.4			1.7%	88.9%	1.0%	95.5%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2009	0.0520	41.6			18.2%	80.2%	3.5%	96.1%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2010	0.0509	44.8			41.9%	35.0%		100.0%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2011	0.0564	38.7				80.2%		100.0%
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2012								
Truck SUV	Port, Fixed Valve Timing, Multi-Valve	2013	0.0477	46.8			87.8%	12.2%		100.0%
Truck SUV	Port, Variable Valve Timing, Two-Valve	1999								
Truck SUV	Port, Variable Valve Timing, Two-Valve	2000								
Truck SUV	Port, Variable Valve Timing, Two-Valve	2001								
Truck SUV	Port, Variable Valve Timing, Two-Valve	2002								
Truck SUV	Port, Variable Valve Timing, Two-Valve	2003								
Truck SUV	Port, Variable Valve Timing, Two-Valve	2004								
Truck SUV	Port, Variable Valve Timing, Two-Valve	2005								
Truck SUV	Port, Variable Valve Timing, Two-Valve	2006	0.0638	40.0				100.0%		100.0%
Truck SUV	Port, Variable Valve Timing, Two-Valve	2007	0.0611	43.1				92.6%	1.2%	98.8%
Truck SUV	Port, Variable Valve Timing, Two-Valve	2008	0.0594	42.7				90.0%	0.9%	99.1%
Truck SUV	Port, Variable Valve Timing, Two-Valve	2009	0.0629	47.5				70.6%		84.8%
Truck SUV	Port, Variable Valve Timing, Two-Valve	2010	0.0566	51.2				56.2%		99.2%
Truck SUV	Port, Variable Valve Timing, Two-Valve	2011	0.0583	50.5				69.0%		99.3%
Truck SUV	Port, Variable Valve Timing, Two-Valve	2012	0.0591	50.0				69.7%		100.0%
Truck SUV	Port, Variable Valve Timing, Two-Valve	2013	0.0584	53.8				63.3%		100.0%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	1999	0.0550	37.8				100.0%		100.0%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2000	0.0551	37.6				91.4%		100.0%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2001	0.0524	37.5			9.1%	79.1%	3.1%	96.9%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2002	0.0539	38.4			6.7%	76.4%	1.8%	98.2%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2003	0.0528	39.4			7.9%	75.6%	1.7%	95.7%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2004	0.0533	40.3			5.9%	76.5%	1.6%	96.1%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2005	0.0532	40.5			5.9%	77.5%	1.1%	96.5%

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2006	1787	0.537	21.9	15.0	20.1	17.6	4743		229	247	9.6	1.093
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2007	1655	0.515	23.4	16.0	21.3	18.6	4512		212	239	9.6	1.147
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2008	1705	0.519	23.7	16.2	21.8	19.0	4613		213	249	9.5	1.176
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2009	1005	0.635	25.0	17.1	22.8	19.9	4462		200	241	9.5	1.209
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2010	1509	0.687	26.2	17.9	23.6	20.8	4316		195	233	9.5	1.200
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2011	2058	0.680	26.2	17.9	23.8	20.8	4400		197	237	9.5	1.209
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2012	1932	0.679	26.1	17.8	23.7	20.7	4380		200	243	9.4	1.220
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2013	1922	0.599	26.7	18.2	24.3	21.2	4409		201	246	9.3	1.229
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	1999												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2000												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2001												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2002												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2003												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2004												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2005												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2006												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2007												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2008												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2009												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2010												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2011												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2012												
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2013	8	0.001	28.7	19.4	26.2	22.8	5500		183	265	10.3	1.448
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	1999												
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2000												
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2001												
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2002												
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2003												
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2004												
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2005												
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2006												
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2007												
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2008	60	0.015	21.0	14.3	19.7	16.9	5176		211	296	9.0	1.432
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2009	130	0.032	23.7	16.0	22.2	19.0	4871		202	278	9.0	1.399
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2010	280	0.083	23.6	15.9	22.3	19.0	5029		218	294	8.9	1.358
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2011	462	0.154	23.7	15.9	22.5	19.1	5067		220	310	8.5	1.433
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2012	507	0.227	24.2	16.2	22.8	19.4	5023		216	298	8.8	1.407
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2013	695	0.307	26.7	18.0	24.6	21.2	4643		176	270	9.1	1.605
Truck SUV	Diesel	1999												
Truck SUV	Diesel	2000												
Truck SUV	Diesel	2001												

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2006	0.0519	41.9			8.6%	75.4%	1.0%	91.9%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2007	0.0528	42.3			12.9%	75.8%	1.7%	87.1%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2008	0.0536	43.9			17.7%	73.1%	0.9%	88.5%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2009	0.0537	44.6			19.0%	78.5%	0.5%	82.1%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2010	0.0535	45.0			11.1%	85.2%	1.4%	82.6%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2011	0.0535	45.9			12.3%	81.0%	0.8%	82.3%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2012	0.0552	45.5			10.7%	83.9%	2.3%	93.6%
Truck SUV	Port, Variable Valve Timing, Multi-Valve	2013	0.0555	47.0			14.3%	82.1%	2.2%	96.4%
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	1999								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2000								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2001								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2002								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2003								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2004								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2005								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2006								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2007								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2008								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2009								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2010								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2011								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2012								
Truck SUV	GDI, Fixed Valve Timing, Multi-Valve	2013	0.0482	62.6				100.0%		100.0%
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	1999								
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2000								
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2001								
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2002								
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2003								
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2004								
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2005								
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2006								
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2007								
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2008	0.0575	43.7				100.0%	0.4%	99.6%
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2009	0.0569	46.3			46.4%	53.6%	0.6%	99.2%
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2010	0.0582	47.8			41.7%	58.3%	0.1%	93.6%
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2011	0.0609	48.4			36.7%	61.9%	0.1%	99.9%
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2012	0.0590	49.0			34.3%	64.3%	0.0%	100.0%
Truck SUV	GDI, Variable Valve Timing, Multi-Valve	2013	0.0576	49.5			15.7%	82.5%	0.0%	100.0%
Truck SUV	Diesel	1999								
Truck SUV	Diesel	2000								
Truck SUV	Diesel	2001								

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Truck SUV	Diesel	2002												
Truck SUV	Diesel	2003												
Truck SUV	Diesel	2004	1	0.001	22.8	15.4	21.8	18.4	6000		300	310	9.7	1.033
Truck SUV	Diesel	2005	9	0.003	28.1	19.4	24.7	22.1	4500		171	160	13.1	0.936
Truck SUV	Diesel	2006	8	0.004	26.6	18.5	23.1	20.9	4632		182	173	10.1	0.944
Truck SUV	Diesel	2007	9	0.001	26.2	18.1	23.3	20.7	5201		188	219	8.6	1.174
Truck SUV	Diesel	2008	13	0.001	25.9	17.9	23.0	20.5	5400		183	216	8.6	1.180
Truck SUV	Diesel	2009	8	0.005	26.4	17.9	24.3	21.1	5450		182	228	8.0	1.250
Truck SUV	Diesel	2010	15	0.007	26.5	17.8	24.6	21.1	5595		183	233	8.1	1.274
Truck SUV	Diesel	2011	26	0.008	27.3	18.4	24.8	21.6	5563		182	236	7.8	1.295
Truck SUV	Diesel	2012	34	0.009	27.7	18.5	25.3	21.9	5568		182	238	8.1	1.307
Truck SUV	Diesel	2013	21	0.009	27.2	20.0	28.9	24.3	5154		175	234	7.8	1.350
Pickup	Carb, Fixed Valve Timing, Two-Valve	1999												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2000												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2001												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2002												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2003												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2004												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2005												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2006												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2007												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2008												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2009												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2010												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2011												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2012												
Pickup	Carb, Fixed Valve Timing, Two-Valve	2013												
Pickup	TBI, Fixed Valve Timing, Two-Valve	1999												
Pickup	TBI, Fixed Valve Timing, Two-Valve	2000												
Pickup	TBI, Fixed Valve Timing, Two-Valve	2001												
Pickup	TBI, Fixed Valve Timing, Two-Valve	2002												
Pickup	TBI, Fixed Valve Timing, Two-Valve	2003												
Pickup	TBI, Fixed Valve Timing, Two-Valve	2004												
Pickup	TBI, Fixed Valve Timing, Two-Valve	2005												
Pickup	TBI, Fixed Valve Timing, Two-Valve	2006												
Pickup	TBI, Fixed Valve Timing, Two-Valve	2007												
Pickup	TBI, Fixed Valve Timing, Two-Valve	2008												
Pickup	TBI, Fixed Valve Timing, Two-Valve	2009												
Pickup	TBI, Fixed Valve Timing, Two-Valve	2010												
Pickup	TBI, Fixed Valve Timing, Two-Valve	2011												
Pickup	TBI, Fixed Valve Timing, Two-Valve	2012												

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Truck SUV	Diesel	2002								
Truck SUV	Diesel	2003								
Truck SUV	Diesel	2004	0.0517	55.3				100.0%		100.0%
Truck SUV	Diesel	2005	0.0356	49.7				100.0%		100.0%
Truck SUV	Diesel	2006	0.0370	48.3				100.0%		100.0%
Truck SUV	Diesel	2007	0.0424	53.9				94.8%		100.0%
Truck SUV	Diesel	2008	0.0403	55.3				98.3%		100.0%
Truck SUV	Diesel	2009	0.0420	57.5				100.0%		100.0%
Truck SUV	Diesel	2010	0.0418	59.2				100.0%		100.0%
Truck SUV	Diesel	2011	0.0426	60.1				100.0%		100.0%
Truck SUV	Diesel	2012	0.0430	61.0				100.0%		100.0%
Truck SUV	Diesel	2013	0.0456	62.6				100.0%		100.0%
Pickup	Carb, Fixed Valve Timing, Two-Valve	1999								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2000								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2001								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2002								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2003								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2004								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2005								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2006								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2007								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2008								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2009								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2010								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2011								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2012								
Pickup	Carb, Fixed Valve Timing, Two-Valve	2013								
Pickup	TBI, Fixed Valve Timing, Two-Valve	1999								
Pickup	TBI, Fixed Valve Timing, Two-Valve	2000								
Pickup	TBI, Fixed Valve Timing, Two-Valve	2001								
Pickup	TBI, Fixed Valve Timing, Two-Valve	2002								
Pickup	TBI, Fixed Valve Timing, Two-Valve	2003								
Pickup	TBI, Fixed Valve Timing, Two-Valve	2004								
Pickup	TBI, Fixed Valve Timing, Two-Valve	2005								
Pickup	TBI, Fixed Valve Timing, Two-Valve	2006								
Pickup	TBI, Fixed Valve Timing, Two-Valve	2007								
Pickup	TBI, Fixed Valve Timing, Two-Valve	2008								
Pickup	TBI, Fixed Valve Timing, Two-Valve	2009								
Pickup	TBI, Fixed Valve Timing, Two-Valve	2010								
Pickup	TBI, Fixed Valve Timing, Two-Valve	2011								
Pickup	TBI, Fixed Valve Timing, Two-Valve	2012								

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Pickup	TBI, Fixed Valve Timing, Two-Valve	2013												
Pickup	Port, Fixed Valve Timing, Two-Valve	1999	2348	0.565	19.7	14.0	18.5	16.1	4565		275	209	10.9	0.763
Pickup	Port, Fixed Valve Timing, Two-Valve	2000	2280	0.550	20.3	14.4	18.9	16.5	4391		263	205	10.8	0.786
Pickup	Port, Fixed Valve Timing, Two-Valve	2001	2197	0.506	19.3	13.6	18.0	15.7	4642		280	221	10.5	0.795
Pickup	Port, Fixed Valve Timing, Two-Valve	2002	1957	0.465	19.0	13.4	17.6	15.4	4832		287	236	10.3	0.822
Pickup	Port, Fixed Valve Timing, Two-Valve	2003	2116	0.441	19.6	13.7	17.9	15.8	4749		275	230	10.5	0.834
Pickup	Port, Fixed Valve Timing, Two-Valve	2004	1694	0.374	19.3	13.5	17.6	15.5	4970		291	253	10.0	0.864
Pickup	Port, Fixed Valve Timing, Two-Valve	2005	1361	0.336	19.3	13.3	17.8	15.5	5053		294	260	9.9	0.879
Pickup	Port, Fixed Valve Timing, Two-Valve	2006	1115	0.264	19.7	13.6	18.1	15.9	5084		292	257	10.1	0.876
Pickup	Port, Fixed Valve Timing, Two-Valve	2007	1155	0.225	19.9	13.7	18.4	16.0	5273		298	271	9.9	0.904
Pickup	Port, Fixed Valve Timing, Two-Valve	2008	993	0.188	20.4	14.0	18.9	16.4	5285		296	273	9.9	0.917
Pickup	Port, Fixed Valve Timing, Two-Valve	2009	495	0.115	20.5	14.0	19.1	16.5	5347		304	287	9.5	0.941
Pickup	Port, Fixed Valve Timing, Two-Valve	2010	178	0.077	20.7	14.2	19.1	16.6	5001		268	242	10.3	0.901
Pickup	Port, Fixed Valve Timing, Two-Valve	2011	158	0.039	20.7	14.3	18.9	16.6	4696		259	232	10.2	0.892
Pickup	Port, Fixed Valve Timing, Two-Valve	2012	73	0.019	21.0	14.3	19.4	16.9	5067		273	256	10.3	0.928
Pickup	Port, Fixed Valve Timing, Two-Valve	2013	49	0.009	21.1	14.5	19.4	16.9	4976		271	235	10.8	0.861
Pickup	Port, Fixed Valve Timing, Multi-Valve	1999	196	0.326	23.6	17.3	20.8	19.0	3544		171	159	10.8	0.935
Pickup	Port, Fixed Valve Timing, Multi-Valve	2000	332	0.298	21.6	15.8	19.1	17.4	3993		204	186	10.6	0.918
Pickup	Port, Fixed Valve Timing, Multi-Valve	2001	322	0.296	22.2	16.2	19.5	17.8	3932		196	180	10.8	0.928
Pickup	Port, Fixed Valve Timing, Multi-Valve	2002	423	0.280	21.8	15.7	19.2	17.5	4032		200	181	11.0	0.912
Pickup	Port, Fixed Valve Timing, Multi-Valve	2003	358	0.251	22.4	15.9	19.7	17.9	4005		200	182	10.8	0.926
Pickup	Port, Fixed Valve Timing, Multi-Valve	2004	339	0.239	21.6	15.3	19.1	17.2	4147		208	188	10.9	0.919
Pickup	Port, Fixed Valve Timing, Multi-Valve	2005	40	0.204	27.5	19.0	24.2	21.7	3696		144	151	11.7	1.046
Pickup	Port, Fixed Valve Timing, Multi-Valve	2006	33	0.179	28.1	19.3	25.0	22.2	3595		142	150	11.5	1.051
Pickup	Port, Fixed Valve Timing, Multi-Valve	2007	114	0.200	22.2	15.5	19.8	17.7	4315		247	245	9.0	0.990
Pickup	Port, Fixed Valve Timing, Multi-Valve	2008	123	0.221	22.2	15.5	19.7	17.7	4344		246	245	9.1	0.993
Pickup	Port, Fixed Valve Timing, Multi-Valve	2009	130	0.156	22.0	15.1	20.0	17.6	4849		256	258	9.4	1.004
Pickup	Port, Fixed Valve Timing, Multi-Valve	2010	304	0.078	20.5	14.1	18.8	16.5	5607		308	290	9.8	0.949
Pickup	Port, Fixed Valve Timing, Multi-Valve	2011	47	0.022	27.8	19.3	24.4	21.9	3500		140	143	11.7	1.021
Pickup	Port, Fixed Valve Timing, Multi-Valve	2012												
Pickup	Port, Fixed Valve Timing, Multi-Valve	2013												
Pickup	Port, Variable Valve Timing, Two-Valve	1999												
Pickup	Port, Variable Valve Timing, Two-Valve	2000												
Pickup	Port, Variable Valve Timing, Two-Valve	2001												
Pickup	Port, Variable Valve Timing, Two-Valve	2002												
Pickup	Port, Variable Valve Timing, Two-Valve	2003												
Pickup	Port, Variable Valve Timing, Two-Valve	2004												
Pickup	Port, Variable Valve Timing, Two-Valve	2005												
Pickup	Port, Variable Valve Timing, Two-Valve	2006	0	0.017	15.2	10.6	14.2	12.4	6500		330	445	7.7	1.348
Pickup	Port, Variable Valve Timing, Two-Valve	2007	112	0.057	21.1	14.4	19.6	17.0	4630		241	204	11.0	0.852
Pickup	Port, Variable Valve Timing, Two-Valve	2008	61	0.048	21.5	14.5	20.6	17.4	4368		244	219	10.2	0.880

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Pickup	TBI, Fixed Valve Timing, Two-Valve	2013								
Pickup	Port, Fixed Valve Timing, Two-Valve	1999	0.0453	36.7				45.7%	15.1%	84.9%
Pickup	Port, Fixed Valve Timing, Two-Valve	2000	0.0462	36.3				38.1%	14.8%	85.2%
Pickup	Port, Fixed Valve Timing, Two-Valve	2001	0.0473	36.5				39.4%	9.5%	90.5%
Pickup	Port, Fixed Valve Timing, Two-Valve	2002	0.0487	37.2				44.7%	6.1%	93.9%
Pickup	Port, Fixed Valve Timing, Two-Valve	2003	0.0479	37.5				40.4%	7.8%	92.2%
Pickup	Port, Fixed Valve Timing, Two-Valve	2004	0.0507	38.5				44.6%	5.1%	94.9%
Pickup	Port, Fixed Valve Timing, Two-Valve	2005	0.0514	39.2				44.5%	3.5%	96.5%
Pickup	Port, Fixed Valve Timing, Two-Valve	2006	0.0505	40.3				41.3%	4.1%	95.9%
Pickup	Port, Fixed Valve Timing, Two-Valve	2007	0.0512	42.2				44.2%	1.6%	98.4%
Pickup	Port, Fixed Valve Timing, Two-Valve	2008	0.0515	43.7				44.3%	2.2%	97.8%
Pickup	Port, Fixed Valve Timing, Two-Valve	2009	0.0536	44.1				47.7%	0.3%	99.7%
Pickup	Port, Fixed Valve Timing, Two-Valve	2010	0.0484	41.6				33.3%	0.9%	99.1%
Pickup	Port, Fixed Valve Timing, Two-Valve	2011	0.0494	38.9				40.8%	3.3%	96.7%
Pickup	Port, Fixed Valve Timing, Two-Valve	2012	0.0502	42.7				31.1%		100.0%
Pickup	Port, Fixed Valve Timing, Two-Valve	2013	0.0471	42.2				20.8%		100.0%
Pickup	Port, Fixed Valve Timing, Multi-Valve	1999	0.0449	33.7				40.6%	46.4%	41.4%
Pickup	Port, Fixed Valve Timing, Multi-Valve	2000	0.0462	34.7				40.2%	29.2%	64.6%
Pickup	Port, Fixed Valve Timing, Multi-Valve	2001	0.0455	35.1				33.6%	28.9%	64.4%
Pickup	Port, Fixed Valve Timing, Multi-Valve	2002	0.0445	35.4				31.5%	25.3%	69.8%
Pickup	Port, Fixed Valve Timing, Multi-Valve	2003	0.0452	36.0				33.9%	25.4%	68.5%
Pickup	Port, Fixed Valve Timing, Multi-Valve	2004	0.0451	35.8				33.8%	23.1%	70.0%
Pickup	Port, Fixed Valve Timing, Multi-Valve	2005	0.0408	40.1				20.7%	40.8%	59.2%
Pickup	Port, Fixed Valve Timing, Multi-Valve	2006	0.0416	40.0				22.5%	39.6%	60.4%
Pickup	Port, Fixed Valve Timing, Multi-Valve	2007	0.0568	38.1				42.5%	5.8%	94.2%
Pickup	Port, Fixed Valve Timing, Multi-Valve	2008	0.0565	38.3				46.1%	7.9%	92.1%
Pickup	Port, Fixed Valve Timing, Multi-Valve	2009	0.0536	42.4				51.3%	4.7%	95.3%
Pickup	Port, Fixed Valve Timing, Multi-Valve	2010	0.0514	45.9				68.4%	1.5%	98.5%
Pickup	Port, Fixed Valve Timing, Multi-Valve	2011	0.0409	38.4					15.4%	84.6%
Pickup	Port, Fixed Valve Timing, Multi-Valve	2012								
Pickup	Port, Fixed Valve Timing, Multi-Valve	2013								
Pickup	Port, Variable Valve Timing, Two-Valve	1999								
Pickup	Port, Variable Valve Timing, Two-Valve	2000								
Pickup	Port, Variable Valve Timing, Two-Valve	2001								
Pickup	Port, Variable Valve Timing, Two-Valve	2002								
Pickup	Port, Variable Valve Timing, Two-Valve	2003								
Pickup	Port, Variable Valve Timing, Two-Valve	2004								
Pickup	Port, Variable Valve Timing, Two-Valve	2005								
Pickup	Port, Variable Valve Timing, Two-Valve	2006	0.0685	40.2				100.0%		100.0%
Pickup	Port, Variable Valve Timing, Two-Valve	2007	0.0445	39.3				21.6%	10.2%	89.8%
Pickup	Port, Variable Valve Timing, Two-Valve	2008	0.0493	37.8				54.2%		100.0%

# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		
Pickup	Port, Variable Valve Timing, Two-Valve	2009	75	0.048	19.6	13.3	18.6	15.9	5696		346	345	8.5	0.998
Pickup	Port, Variable Valve Timing, Two-Valve	2010	334	0.068	20.8	14.1	19.8	16.8	5504		326	324	8.8	0.992
Pickup	Port, Variable Valve Timing, Two-Valve	2011	580	0.096	20.8	14.0	19.8	16.8	5522		326	331	8.7	1.012
Pickup	Port, Variable Valve Timing, Two-Valve	2012	528	0.061	20.5	13.9	19.6	16.6	5504		331	344	8.5	1.034
Pickup	Port, Variable Valve Timing, Two-Valve	2013	578	0.069	20.7	14.0	20.4	17.0	5517		330	339	8.6	1.026
Pickup	Port, Variable Valve Timing, Multi-Valve	1999												
Pickup	Port, Variable Valve Timing, Multi-Valve	2000												
Pickup	Port, Variable Valve Timing, Multi-Valve	2001												
Pickup	Port, Variable Valve Timing, Multi-Valve	2002												
Pickup	Port, Variable Valve Timing, Multi-Valve	2003												
Pickup	Port, Variable Valve Timing, Multi-Valve	2004	473	0.384	19.3	13.4	17.7	15.5	5393		299	278	9.7	0.935
Pickup	Port, Variable Valve Timing, Multi-Valve	2005	900	0.451	20.2	14.0	18.4	16.2	4946		275	263	9.5	0.969
Pickup	Port, Variable Valve Timing, Multi-Valve	2006	1040	0.537	20.3	14.1	18.5	16.3	4887		267	257	9.6	0.974
Pickup	Port, Variable Valve Timing, Multi-Valve	2007	732	0.515	20.0	13.8	18.3	16.1	5149		281	278	9.5	0.998
Pickup	Port, Variable Valve Timing, Multi-Valve	2008	617	0.519	20.2	13.9	18.6	16.2	5204		283	293	9.4	1.036
Pickup	Port, Variable Valve Timing, Multi-Valve	2009	290	0.635	22.0	15.2	20.1	17.6	4897		256	254	9.9	1.000
Pickup	Port, Variable Valve Timing, Multi-Valve	2010	460	0.687	21.5	14.7	19.7	17.2	5090		269	281	9.3	1.042
Pickup	Port, Variable Valve Timing, Multi-Valve	2011	580	0.680	21.5	14.8	19.7	17.2	5195		269	298	9.1	1.102
Pickup	Port, Variable Valve Timing, Multi-Valve	2012	616	0.679	21.9	15.0	20.0	17.5	5092		266	291	9.2	1.092
Pickup	Port, Variable Valve Timing, Multi-Valve	2013	679	0.599	21.8	14.9	19.9	17.4	5342		274	318	8.9	1.153
Pickup	GDI, Variable Valve Timing, Multi-Valve	1999												
Pickup	GDI, Variable Valve Timing, Multi-Valve	2000												
Pickup	GDI, Variable Valve Timing, Multi-Valve	2001												
Pickup	GDI, Variable Valve Timing, Multi-Valve	2002												
Pickup	GDI, Variable Valve Timing, Multi-Valve	2003												
Pickup	GDI, Variable Valve Timing, Multi-Valve	2004												
Pickup	GDI, Variable Valve Timing, Multi-Valve	2005												
Pickup	GDI, Variable Valve Timing, Multi-Valve	2006												
Pickup	GDI, Variable Valve Timing, Multi-Valve	2007												
Pickup	GDI, Variable Valve Timing, Multi-Valve	2008												
Pickup	GDI, Variable Valve Timing, Multi-Valve	2009												
Pickup	GDI, Variable Valve Timing, Multi-Valve	2010												
Pickup	GDI, Variable Valve Timing, Multi-Valve	2011	113	0.154	22.6	15.3	21.1	18.2	5877		214	360	8.4	1.682
Pickup	GDI, Variable Valve Timing, Multi-Valve	2012	140	0.227	22.1	15.0	20.6	17.7	5901		214	360	8.5	1.686
Pickup	GDI, Variable Valve Timing, Multi-Valve	2013	219	0.307	22.6	15.3	21.1	18.1	5859		214	365	8.4	1.709
Pickup	Diesel	1999	0	0.001	18.9	13.5	17.7	15.5	6000		395	180	15.0	0.456
Pickup	Diesel	2000												
Pickup	Diesel	2001												
Pickup	Diesel	2002												
Pickup	Diesel	2003												
Pickup	Diesel	2004												

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup
Pickup	Port, Variable Valve Timing, Two-Valve	2009	0.0607	45.4				63.7%	0.4%	96.7%
Pickup	Port, Variable Valve Timing, Two-Valve	2010	0.0589	46.5				67.2%		99.6%
Pickup	Port, Variable Valve Timing, Two-Valve	2011	0.0600	46.6				69.6%		99.8%
Pickup	Port, Variable Valve Timing, Two-Valve	2012	0.0625	46.0				69.2%		100.0%
Pickup	Port, Variable Valve Timing, Two-Valve	2013	0.0615	47.3				64.6%		100.0%
Pickup	Port, Variable Valve Timing, Multi-Valve	1999								
Pickup	Port, Variable Valve Timing, Multi-Valve	2000								
Pickup	Port, Variable Valve Timing, Multi-Valve	2001								
Pickup	Port, Variable Valve Timing, Multi-Valve	2002								
Pickup	Port, Variable Valve Timing, Multi-Valve	2003								
Pickup	Port, Variable Valve Timing, Multi-Valve	2004	0.0516	41.7				61.5%	2.1%	97.9%
Pickup	Port, Variable Valve Timing, Multi-Valve	2005	0.0534	39.8				51.2%	7.5%	92.5%
Pickup	Port, Variable Valve Timing, Multi-Valve	2006	0.0527	39.6				51.4%	7.3%	92.7%
Pickup	Port, Variable Valve Timing, Multi-Valve	2007	0.0535	41.2				51.4%	7.7%	92.3%
Pickup	Port, Variable Valve Timing, Multi-Valve	2008	0.0555	42.0				52.2%	6.6%	93.4%
Pickup	Port, Variable Valve Timing, Multi-Valve	2009	0.0510	42.8				51.9%	11.3%	88.7%
Pickup	Port, Variable Valve Timing, Multi-Valve	2010	0.0548	43.7				51.2%	5.3%	94.7%
Pickup	Port, Variable Valve Timing, Multi-Valve	2011	0.0569	44.7				58.3%	3.1%	96.9%
Pickup	Port, Variable Valve Timing, Multi-Valve	2012	0.0567	44.5				56.3%	3.3%	96.7%
Pickup	Port, Variable Valve Timing, Multi-Valve	2013	0.0589	46.5				55.7%	2.9%	97.1%
Pickup	GDI, Variable Valve Timing, Multi-Valve	1999								
Pickup	GDI, Variable Valve Timing, Multi-Valve	2000								
Pickup	GDI, Variable Valve Timing, Multi-Valve	2001								
Pickup	GDI, Variable Valve Timing, Multi-Valve	2002								
Pickup	GDI, Variable Valve Timing, Multi-Valve	2003								
Pickup	GDI, Variable Valve Timing, Multi-Valve	2004								
Pickup	GDI, Variable Valve Timing, Multi-Valve	2005								
Pickup	GDI, Variable Valve Timing, Multi-Valve	2006								
Pickup	GDI, Variable Valve Timing, Multi-Valve	2007								
Pickup	GDI, Variable Valve Timing, Multi-Valve	2008								
Pickup	GDI, Variable Valve Timing, Multi-Valve	2009								
Pickup	GDI, Variable Valve Timing, Multi-Valve	2010								
Pickup	GDI, Variable Valve Timing, Multi-Valve	2011	0.0613	53.4				75.0%		100.0%
Pickup	GDI, Variable Valve Timing, Multi-Valve	2012	0.0611	52.4				80.1%		100.0%
Pickup	GDI, Variable Valve Timing, Multi-Valve	2013	0.0624	53.1				74.9%		100.0%
Pickup	Diesel	1999	0.0300	46.4				100.0%		100.0%
Pickup	Diesel	2000								
Pickup	Diesel	2001								
Pickup	Diesel	2002								
Pickup	Diesel	2003								
Pickup	Diesel	2004								

December 2013

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# 2013 FE Trends Report

## Appendix I: 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 (MPG)				Weight (lb)	Vol (Cu Ft)	Engine		0-60 Time	HP/CID
					Lab 55/45	Adj City	Adj Hwy	Adj Comb			CID	HP		

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

Vehicle Type	Engine Type and Valves	Model Year	HP/WT	Ton-MPG	Cu Ft-MPG	Cu Ft-Ton-MPG	Drivetrain		Transmission	
							Front	4WD	Manual	Lockup

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	25.8	22.4	19.4	16.6	15.0	13.9	12.5						15.1	
GM	Car	Car	1976			29.4	26.8	26.9	23.4	20.4	17.9	16.3	14.8	13.5						16.6	
GM	Car	Car	1977			31.4	26.6	28.6	25.6	20.7	18.0	17.0	14.8	13.3						17.7	
GM	Car	Car	1978			30.7	27.7		26.5	20.3	18.1	16.3	15.3	12.4						19.0	
GM	Car	Car	1979			33.5	28.7		26.1	20.3	17.7	16.8	18.9	11.2						19.1	
GM	Car	Car	1980			29.9	27.4	26.1	23.9	20.9	19.1	19.1	13.2							21.9	
GM	Car	Car	1981			31.6	29.4	27.3	25.2	22.4	20.9	20.5	12.3							23.2	
GM	Car	Car	1982			34.3	32.4	28.8	27.2	22.5	20.8	21.0	11.8							24.2	
GM	Car	Car	1983			34.7	33.0	30.0	26.5	22.6	20.4	19.8	11.8							23.5	
GM	Car	Car	1984			35.6	33.7	30.9	26.6	22.5	20.7	20.2	11.8							24.4	
GM	Car	Car	1985	57.4		40.8	33.9	30.9	27.4	23.4	22.4	21.0								25.5	
GM	Car	Car	1986	56.6		40.5	34.8	30.3	27.8	24.4	23.0	22.0								27.0	
GM	Car	Car	1987	57.0	46.1	39.6	34.4	31.6	28.6	24.6	22.5	22.3								27.2	
GM	Car	Car	1988	51.5	45.7	40.0	34.9	32.1	28.7	25.8	22.9	22.9								28.1	
GM	Car	Car	1989	59.5	48.1	40.4	33.9	31.9	28.3	25.2	23.1	22.4								27.4	
GM	Car	Car	1990	65.3	52.2		35.4	32.0	28.5	25.8	22.6	21.3								27.3	
GM	Car	Car	1991	65.3	48.9		36.3	31.5	27.8	25.4	23.1	22.4								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	36.4	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	33.1	30.4	26.6	24.1			19.5						28.2	
GM	Car	Car	1998		53.6	38.6	37.3	33.6	30.1	26.4	24.0			17.2						27.6	
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	35.2	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						32.3	28.2	25.6				18.6					28.6	
GM	Car	Car	2004					34.5	32.6	28.4	25.4			20.0	19.3					29.1	
GM	Car	Car	2005					34.3	32.9	29.0	25.6	20.4		20.1	19.0					29.0	
GM	Car	Car	2006					32.9	32.7	29.2	25.9	22.4				17.9				28.6	
GM	Car	Car	2007					34.4	32.7	29.3	26.4	22.5	19.9		18.4					28.8	
GM	Car	Car	2008					34.6	34.0	29.2	26.7	23.1	18.4		18.4	18.0				28.6	
GM	Car	Car	2009					35.5	35.1	31.9	26.8	22.8			17.6	17.4				30.0	
GM	Car	Car	2010					36.0	36.0	32.2	27.0	25.5			18.3					29.8	
GM	Car	Car	2011					36.3	44.2	33.5	27.6	24.8	21.8		18.5					29.9	
GM	Car	Car	2012						39.1	35.4	27.9	24.5								32.1	
GM	Car	Car	2013				43.8		39.0	35.7	29.3	24.4		21.7	21.7					32.6	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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 SUV	1975								15.6									15.6	
GM	Car	Car SUV	1976							14.3	17.3									16.9	
GM	Car	Car SUV	1977								18.0									18.0	
GM	Car	Car SUV	1978								17.6									17.6	
GM	Car	Car SUV	1979																		
GM	Car	Car SUV	1980																		
GM	Car	Car SUV	1981																		
GM	Car	Car SUV	1982						25.8	16.6	19.3									22.0	
GM	Car	Car SUV	1983							25.1										25.1	
GM	Car	Car SUV	1984						28.3	23.5										23.6	
GM	Car	Car SUV	1985							23.5										23.5	
GM	Car	Car SUV	1986							22.2										22.2	
GM	Car	Car SUV	1987							23.0										23.0	
GM	Car	Car SUV	1988							23.1										23.1	
GM	Car	Car SUV	1989							23.0										23.0	
GM	Car	Car SUV	1990							22.7										22.7	
GM	Car	Car SUV	1991				30.1			23.3	21.1									22.7	
GM	Car	Car SUV	1992				29.3			22.6	20.6									22.5	
GM	Car	Car SUV	1993				29.2			22.9	22.4									23.6	
GM	Car	Car SUV	1994				28.9	28.7		22.3	21.5									22.7	
GM	Car	Car SUV	1995				29.6				21.7									22.8	
GM	Car	Car SUV	1996					28.3	28.2		22.0									22.8	
GM	Car	Car SUV	1997				27.9		28.5		21.6									22.0	
GM	Car	Car SUV	1998				28.5		27.7	25.9	21.8									22.5	
GM	Car	Car SUV	1999					31.0	28.6	25.2	21.5									22.3	
GM	Car	Car SUV	2000					31.1	28.6		21.7									22.1	
GM	Car	Car SUV	2001					31.0	28.6	26.3	22.9									24.0	
GM	Car	Car SUV	2002						31.9	27.9	23.3									24.1	
GM	Car	Car SUV	2003						28.4	27.4	23.8									25.9	
GM	Car	Car SUV	2004							28.8	25.0	20.6								24.7	
GM	Car	Car SUV	2005							28.9	25.0	21.9	19.1							24.8	
GM	Car	Car SUV	2006							29.6	24.9	21.8	20.7							25.1	
GM	Car	Car SUV	2007							30.7	25.1	21.5	20.6							25.4	
GM	Car	Car SUV	2008								25.9	21.5	20.9							25.3	
GM	Car	Car SUV	2009								26.5	22.7	19.2							25.8	
GM	Car	Car SUV	2010								31.8	25.2	23.0							29.4	
GM	Car	Car SUV	2011							32.5	30.9	25.6	23.0							29.8	
GM	Car	Car SUV	2012								30.9	24.5								29.0	
GM	Car	Car SUV	2013							40.1	32.5	24.4								30.9	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) by Manufacturer, Vehicle Type and Inertia Weight**

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)																	
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000	8000	8500	All Classes	
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						39.1	35.4	29.2	24.5								31.1	
GM	Car	All	2013				43.8		39.0	35.8	30.6	24.4		21.7	21.7					32.1	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	18.5	18.3	16.5	15.1	14.5		20.1	
GM	Truck	Van	2013										21.7	18.8	18.3	16.4	15.1			20.0	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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										24.4		21.7	18.7	15.4			23.2	
GM	Truck	Truck SUV	2013							33.8			24.6	23.6	22.1	19.1	15.4			22.8	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	25.5	22.5	21.3	21.5	19.5					21.8	
GM	Truck	Pickup	2013									21.3	21.4	21.0	20.1					21.0	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	25.5	22.5	23.9	21.4	21.5	18.6	15.3	14.5		22.4	
GM	Truck	All	2013							33.8		21.3	23.3	21.1	21.8	19.0	15.3			21.7	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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						39.1	35.1	29.1	24.1	23.9	21.4	21.5	18.6	15.3	14.5		27.0	
GM	All	All	2013				43.8		39.0	35.8	30.6	24.1	23.3	21.1	21.8	19.0	15.3			27.3	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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				24.2	20.8	21.1											22.0	
Toyota	Car	Car	1976				26.6		23.3											25.0	
Toyota	Car	Car	1977			41.0	30.1	25.6	24.5											28.7	
Toyota	Car	Car	1978			39.0	28.9	24.5	21.4											26.8	
Toyota	Car	Car	1979			31.7	26.6		20.8											24.0	
Toyota	Car	Car	1980		37.0	34.1	29.0	26.6	23.1											27.4	
Toyota	Car	Car	1981		44.0	36.6	29.9		27.4											30.9	
Toyota	Car	Car	1982		43.8	35.3	30.0	28.4	26.8	24.3										30.4	
Toyota	Car	Car	1983		47.4	38.0	34.6	33.1	29.0	24.6										32.6	
Toyota	Car	Car	1984		47.2	38.4	35.9	33.2	29.2	24.4										32.9	
Toyota	Car	Car	1985			39.6	35.1	34.1	30.4	24.1										32.8	
Toyota	Car	Car	1986			38.6	35.0	33.2	31.2	23.6	23.2									32.3	
Toyota	Car	Car	1987			41.3	35.4	32.9	33.0	23.6	23.1									32.9	
Toyota	Car	Car	1988			38.5	34.7	33.1	32.0	24.6	23.3									32.7	
Toyota	Car	Car	1989			37.7	34.7	33.3	31.8	24.5	23.0									31.8	
Toyota	Car	Car	1990			38.3	34.7	32.3	31.3	24.4	23.4									30.4	
Toyota	Car	Car	1991			36.2	33.0	32.7	31.0	24.6	23.2									30.6	
Toyota	Car	Car	1992			37.1	33.4	32.4	29.3	26.2	23.0									28.9	
Toyota	Car	Car	1993			37.1	33.3	33.4	29.0	26.6	23.1									29.0	
Toyota	Car	Car	1994			38.3	32.5	33.2	29.9	26.5	23.4									29.1	
Toyota	Car	Car	1995			40.1	39.1	34.3	29.1	27.5	24.1									30.0	
Toyota	Car	Car	1996			40.0	38.4	34.1	28.8	27.1	25.0									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	37.1	29.5	24.0									32.4	
Toyota	Car	Car	2004			45.1	40.8	38.1	44.5	30.0	26.8	24.1								32.7	
Toyota	Car	Car	2005			45.1	41.1	39.2	42.6	31.2	27.8	23.7								34.7	
Toyota	Car	Car	2006				41.6	38.9	39.9	31.4	28.5	24.5								34.5	
Toyota	Car	Car	2007				42.4	39.3	45.8	31.9	30.6	25.6								34.9	
Toyota	Car	Car	2008				42.1	39.3	47.9	32.4	30.0	24.7		26.9						36.0	
Toyota	Car	Car	2009				42.0		41.7	32.6	32.2	25.0	23.7	26.9						36.3	
Toyota	Car	Car	2010				42.0		38.9	44.0	31.3	24.8	23.7	26.9						39.4	
Toyota	Car	Car	2011				42.0		39.0	38.2	30.7	25.1	23.7	26.9						36.6	
Toyota	Car	Car	2012			52.3	43.1	70.8	39.0	41.7	34.8	24.7	23.7	26.9						40.9	
Toyota	Car	Car	2013			52.3	43.9	70.8	38.4	45.4	33.6	26.5	23.6	26.9						41.2	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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 SUV	1975								12.0									12.0	
Toyota	Car	Car SUV	1976								10.7									10.7	
Toyota	Car	Car SUV	1977								13.7									13.7	
Toyota	Car	Car SUV	1978								13.0									13.0	
Toyota	Car	Car SUV	1979								13.8									13.8	
Toyota	Car	Car SUV	1980																		
Toyota	Car	Car SUV	1981																		
Toyota	Car	Car SUV	1982																		
Toyota	Car	Car SUV	1983																		
Toyota	Car	Car SUV	1984																		
Toyota	Car	Car SUV	1985																		
Toyota	Car	Car SUV	1986																		
Toyota	Car	Car SUV	1987																		
Toyota	Car	Car SUV	1988																		
Toyota	Car	Car SUV	1989																		
Toyota	Car	Car SUV	1990								20.9									20.9	
Toyota	Car	Car SUV	1991								21.4									21.4	
Toyota	Car	Car SUV	1992								17.1									17.1	
Toyota	Car	Car SUV	1993								18.2									18.2	
Toyota	Car	Car SUV	1994																		
Toyota	Car	Car SUV	1995								21.4									21.4	
Toyota	Car	Car SUV	1996					30.8	30.6	23.5	22.2									25.9	
Toyota	Car	Car SUV	1997					29.8	28.0	24.6										27.9	
Toyota	Car	Car SUV	1998						30.3		23.3									29.8	
Toyota	Car	Car SUV	1999					30.9	30.5		24.5									27.5	
Toyota	Car	Car SUV	2000						30.5		24.2									26.4	
Toyota	Car	Car SUV	2001						30.4		23.9									27.1	
Toyota	Car	Car SUV	2002						30.3	34.1	23.9									27.7	
Toyota	Car	Car SUV	2003						30.3	40.9	23.9									28.4	
Toyota	Car	Car SUV	2004						30.9		25.2									27.2	
Toyota	Car	Car SUV	2005						30.9		25.2									27.8	
Toyota	Car	Car SUV	2006							30.9	26.4									29.0	
Toyota	Car	Car SUV	2007							30.5	25.8									27.8	
Toyota	Car	Car SUV	2008							30.9	26.1									28.2	
Toyota	Car	Car SUV	2009							31.8	27.9									29.2	
Toyota	Car	Car SUV	2010							31.8	29.7	26.9	40.4							29.6	
Toyota	Car	Car SUV	2011							31.8	29.8	26.8	40.3							30.0	
Toyota	Car	Car SUV	2012							31.8	29.6	26.9	40.4							30.0	
Toyota	Car	Car SUV	2013							34.9	29.5	26.9	40.4							31.5	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	43.1	70.8	39.0	40.9	34.0	26.5	28.1	26.9						39.8
Toyota	Car	All	2013			52.3	43.9	70.8	38.4	43.3	32.9	26.8	28.7	26.9						39.4

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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									27.0	24.3							26.6	
Toyota	Truck	Van	2013									27.0	24.3							26.6	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) by Manufacturer, Vehicle Type and Inertia Weight**

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)																	
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000	8000	8500	All Classes	
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								30.3	25.2	27.0	22.0	19.5	18.4				26.5	
Toyota	Truck	Truck SUV	2013								31.8	25.4	28.9	22.0	19.0	18.3				26.3	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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	25.9	23.0	22.8	21.0	19.1					22.1	
Toyota	Truck	Pickup	2013							29.4	25.6	23.1	22.4	21.0	19.1					21.8	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	28.8	25.3	26.1	21.3	19.1	18.4				24.9	
Toyota	Truck	All	2013							29.4	28.9	25.4	27.4	21.2	19.1	18.3				24.7	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	43.1	70.8	39.0	40.7	30.8	25.4	26.3	21.3	19.1	18.4				32.8	
Toyota	All	All	2013			52.3	43.9	70.8	38.4	43.0	31.4	25.6	27.6	21.2	19.1	18.3				32.3	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	22.4	16.5	13.5	12.9	11.4	11.3						13.9	
Ford	Car	Car	1976					27.8	25.6	18.6	17.1	15.2	14.7	13.3						16.6	
Ford	Car	Car	1977					27.6	23.8	19.2	18.3	16.3	14.3	12.7						16.5	
Ford	Car	Car	1978		37.3			26.1	22.3	19.6	18.3	16.7	14.7	13.5						18.6	
Ford	Car	Car	1979		32.1			25.2	22.1	19.4	17.9	16.1	13.9							19.2	
Ford	Car	Car	1980		29.8			25.7	23.7	20.1	18.9	18.1								22.5	
Ford	Car	Car	1981		39.0	33.2	29.2	25.4	22.9	20.3	18.8	17.2								23.4	
Ford	Car	Car	1982			34.5	31.2		22.4	20.8	19.8									24.5	
Ford	Car	Car	1983			33.2	30.7		22.6	22.5	19.8									23.9	
Ford	Car	Car	1984			38.5	32.6	29.2	25.6	23.3	20.0									25.3	
Ford	Car	Car	1985			39.3	33.7	30.9	28.0	23.2	20.7	10.4								25.9	
Ford	Car	Car	1986			32.5	33.9	31.1	27.9	24.6	22.0	10.4								26.7	
Ford	Car	Car	1987				34.8	30.6	27.4	24.9	21.8	10.9								26.6	
Ford	Car	Car	1988		45.7		34.2	31.9	27.5	25.5	22.6	10.9	10.9							27.0	
Ford	Car	Car	1989		41.4		34.0	31.6	27.9	25.8	23.5	10.9								27.0	
Ford	Car	Car	1990		44.4	37.8	34.6	32.0	27.7	25.8	23.5									26.3	
Ford	Car	Car	1991		43.8	37.7	38.7	33.2	25.8	26.1	23.8	15.4								27.3	
Ford	Car	Car	1992		44.7	37.7	39.4	33.2	27.4	26.4	24.3	17.1								26.8	
Ford	Car	Car	1993		44.9	37.6	38.8	33.5	28.3	26.2	24.2	15.1								27.9	
Ford	Car	Car	1994			41.1	38.6	34.7	28.3	26.2	23.8				13.9					27.2	
Ford	Car	Car	1995			41.1	36.8	34.6	30.9	26.4	23.4				13.9					27.7	
Ford	Car	Car	1996			39.8	37.4	34.1	29.3	26.0	23.6									26.3	
Ford	Car	Car	1997			42.5	34.2	34.4	30.2	25.7	23.5	19.0								27.0	
Ford	Car	Car	1998					33.8	30.8	26.0	23.2									27.5	
Ford	Car	Car	1999					34.1	31.0	26.4	23.5									27.2	
Ford	Car	Car	2000					33.5	32.4	26.2	23.6	21.8								27.2	
Ford	Car	Car	2001					33.6	33.5	25.5	23.7	22.7								26.8	
Ford	Car	Car	2002					33.6	32.3	26.4	23.5	22.4								27.1	
Ford	Car	Car	2003					33.1	32.3	26.2	23.8	23.5								26.7	
Ford	Car	Car	2004					35.9	31.6	26.0	24.1	23.1								25.7	
Ford	Car	Car	2005						33.0	26.5	25.5	24.0								27.2	
Ford	Car	Car	2006						33.7	27.3	25.1	23.0								26.9	
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	28.8	25.5								35.3	
Ford	Car	Car	2013					44.2	41.3	35.7	33.9	26.9								36.2	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
Ford	Car	Car SUV	1975																		
Ford	Car	Car SUV	1976																		
Ford	Car	Car SUV	1977																		
Ford	Car	Car SUV	1978																		
Ford	Car	Car SUV	1979																		
Ford	Car	Car SUV	1980																		
Ford	Car	Car SUV	1981																		
Ford	Car	Car SUV	1982																		
Ford	Car	Car SUV	1983																		
Ford	Car	Car SUV	1984																		
Ford	Car	Car SUV	1985																		
Ford	Car	Car SUV	1986							23.5										23.5	
Ford	Car	Car SUV	1987							23.3										23.3	
Ford	Car	Car SUV	1988							23.0										23.0	
Ford	Car	Car SUV	1989							23.1										23.1	
Ford	Car	Car SUV	1990							23.2										23.2	
Ford	Car	Car SUV	1991								21.2									21.2	
Ford	Car	Car SUV	1992								21.2									21.2	
Ford	Car	Car SUV	1993								21.6									21.6	
Ford	Car	Car SUV	1994								21.1									21.1	
Ford	Car	Car SUV	1995								22.5									22.5	
Ford	Car	Car SUV	1996								22.3									22.3	
Ford	Car	Car SUV	1997								21.4									21.4	
Ford	Car	Car SUV	1998								21.2									21.2	
Ford	Car	Car SUV	1999								21.7									21.7	
Ford	Car	Car SUV	2000								21.0									21.0	
Ford	Car	Car SUV	2001							24.7	21.2									22.3	
Ford	Car	Car SUV	2002							25.0	20.7									23.6	
Ford	Car	Car SUV	2003							25.1	21.0									24.1	
Ford	Car	Car SUV	2004							25.1										25.1	
Ford	Car	Car SUV	2005							26.3	39.2									26.6	
Ford	Car	Car SUV	2006							26.5	39.1									27.3	
Ford	Car	Car SUV	2007							26.6	40.6	24.3								25.7	
Ford	Car	Car SUV	2008							27.4	43.4	24.6								27.0	
Ford	Car	Car SUV	2009							28.9	44.2	24.6								28.6	
Ford	Car	Car SUV	2010							29.7	44.1	25.9								28.3	
Ford	Car	Car SUV	2011							29.5	30.0	28.0								29.0	
Ford	Car	Car SUV	2012							29.6	33.6	28.5								29.6	
Ford	Car	Car SUV	2013							35.3	32.9	28.6								31.6	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	32.2	29.1	27.8								34.1	
Ford	Car	All	2013					44.2	41.3	35.6	33.5	28.1								34.7	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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							30.5				16.0	17.6	16.1	13.2			28.7	
Ford	Truck	Van	2013											18.3	17.5	16.2	13.9			17.5	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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								29.5	26.4	26.4	24.4		20.3	18.6		16.4	24.8	
Ford	Truck	Truck SUV	2013								30.5	31.8	27.1	25.0		20.5	19.0			26.8	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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										23.1	22.9	21.1	16.7					21.5
Ford	Truck	Pickup	2013										23.7	23.0	21.2	16.7					21.7

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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							30.0	26.4	26.4	23.9	22.9	21.0	18.0	13.2		16.4		23.1
Ford	Truck	All	2013							30.5	31.8	27.1	24.7	22.9	21.1	18.1	13.9				24.0

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	31.9	28.4	26.9	23.9	22.9	21.0	18.0	13.2		16.4		28.7
Ford	All	All	2013					44.2	41.3	34.9	33.1	27.6	24.7	22.9	21.1	18.1	13.9				28.3

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	29.5														32.6	
Honda	Car	Car	1977		36.4	33.9														35.5	
Honda	Car	Car	1978		33.5	33.9														33.7	
Honda	Car	Car	1979		30.9	29.9	27.9													29.0	
Honda	Car	Car	1980		33.6	32.5	27.1													29.2	
Honda	Car	Car	1981		36.1	33.6	28.5													30.8	
Honda	Car	Car	1982		40.5	36.1	30.8													33.4	
Honda	Car	Car	1983		44.7	36.6	33.6													35.3	
Honda	Car	Car	1984		44.0	36.0	33.5													35.2	
Honda	Car	Car	1985		44.4	36.4	32.1	30.4												33.8	
Honda	Car	Car	1986		47.6	37.9	32.2	31.8		24.7										33.6	
Honda	Car	Car	1987		52.0	38.1	33.1	31.8		24.3										32.8	
Honda	Car	Car	1988		60.4	39.8	35.9	31.9	29.7	23.6										31.8	
Honda	Car	Car	1989		60.3	39.6	34.9	32.6	29.2	23.4										31.3	
Honda	Car	Car	1990			44.4	37.3	31.7	28.9	23.4										30.4	
Honda	Car	Car	1991			44.7	37.3	32.9	28.8	24.7										30.3	
Honda	Car	Car	1992			52.8	41.4	36.9	29.8	26.2	24.2									30.9	
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	29.9	24.0									32.1	
Honda	Car	Car	1995			55.6	41.4	36.6	30.6	28.9	24.0									32.8	
Honda	Car	Car	1996				41.3	37.0	30.8	28.2	24.3									31.8	
Honda	Car	Car	1997				41.8	36.9	30.7	28.0	24.3									32.1	
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					39.8	39.2	30.9	27.2									33.9	
Honda	Car	Car	2008					39.9	39.6	31.8	28.3									34.3	
Honda	Car	Car	2009					40.1	39.8	32.0	28.4	23.8								34.6	
Honda	Car	Car	2010					40.2	41.7	32.5	28.3	23.8								35.6	
Honda	Car	Car	2011					40.9	41.2	34.7	29.9	25.7								36.5	
Honda	Car	Car	2012					41.2	43.1	34.7	30.3	25.7								38.1	
Honda	Car	Car	2013					40.8	42.6	39.2	31.7									39.5	



**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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 SUV	1975																		
Honda	Car	Car SUV	1976																		
Honda	Car	Car SUV	1977																		
Honda	Car	Car SUV	1978																		
Honda	Car	Car SUV	1979																		
Honda	Car	Car SUV	1980																		
Honda	Car	Car SUV	1981																		
Honda	Car	Car SUV	1982																		
Honda	Car	Car SUV	1983																		
Honda	Car	Car SUV	1984																		
Honda	Car	Car SUV	1985																		
Honda	Car	Car SUV	1986																		
Honda	Car	Car SUV	1987																		
Honda	Car	Car SUV	1988																		
Honda	Car	Car SUV	1989																		
Honda	Car	Car SUV	1990																		
Honda	Car	Car SUV	1991																		
Honda	Car	Car SUV	1992																		
Honda	Car	Car SUV	1993																		
Honda	Car	Car SUV	1994								20.4									20.4	
Honda	Car	Car SUV	1995																		
Honda	Car	Car SUV	1996								19.9									19.9	
Honda	Car	Car SUV	1997								19.4									19.4	
Honda	Car	Car SUV	1998							27.4	21.1									25.1	
Honda	Car	Car SUV	1999							27.5	21.1									25.1	
Honda	Car	Car SUV	2000							27.5	21.2									25.5	
Honda	Car	Car SUV	2001							27.5	21.7									26.1	
Honda	Car	Car SUV	2002							29.7	21.7									28.8	
Honda	Car	Car SUV	2003							29.7										29.7	
Honda	Car	Car SUV	2004							29.4										29.4	
Honda	Car	Car SUV	2005							29.7										29.7	
Honda	Car	Car SUV	2006							29.7										29.7	
Honda	Car	Car SUV	2007							29.9										29.9	
Honda	Car	Car SUV	2008							29.7										29.7	
Honda	Car	Car SUV	2009							29.7										29.7	
Honda	Car	Car SUV	2010							31.2	27.5									31.0	
Honda	Car	Car SUV	2011							31.2	27.5									30.9	
Honda	Car	Car SUV	2012							34.1	28.1									32.3	
Honda	Car	Car SUV	2013							34.2	31.0	28.7								32.8	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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					41.2	43.1	34.6	29.8	25.7								37.3	
Honda	Car	All	2013					40.8	42.6	37.9	31.6	28.7								38.4	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	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	
Honda	Truck	Van	2013									27.8								27.8	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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							33.3	32.1	26.2	23.6							28.1	
Honda	Truck	Truck SUV	2013							33.3	31.9	26.2	23.7							28.7	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	
Honda	Truck	Pickup	2013										22.6							22.6	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	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							33.3	32.1	27.1	23.5							27.8	
Honda	Truck	All	2013							33.3	31.9	26.9	23.5							28.3	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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					41.2	43.1	34.4	30.6	27.1	23.5							33.6	
Honda	All	All	2013					40.8	42.6	36.9	31.7	27.0	23.5							34.3	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	23.4	22.6	20.7	19.5	16.6	12.9	13.7	12.6						15.8	
Chrysler-Fiat	Car	Car	1976			24.6	26.1	24.2	21.7	19.5	17.9	14.1	13.6	12.3						16.8	
Chrysler-Fiat	Car	Car	1977			29.6	28.4	22.1	21.3	20.4	17.4	14.6	13.3	12.1						16.6	
Chrysler-Fiat	Car	Car	1978			28.1	28.2	24.5	24.7	20.0	17.6	15.4	13.5	11.0						19.1	
Chrysler-Fiat	Car	Car	1979		37.6	32.6	28.0	24.7	23.1	20.2	17.9	16.4								21.0	
Chrysler-Fiat	Car	Car	1980		38.8	31.3	27.5	25.1	23.1	20.1	17.4									22.7	
Chrysler-Fiat	Car	Car	1981		41.7	34.0	29.6	26.7	23.4	21.1	18.5									26.1	
Chrysler-Fiat	Car	Car	1982		41.7	36.2	32.4	28.8	26.0	22.2	19.8		10.0							26.9	
Chrysler-Fiat	Car	Car	1983		42.7	36.0	34.6	30.2	25.2	22.6	19.3		10.0							28.4	
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	26.3	18.1	21.4		10.0							28.1	
Chrysler-Fiat	Car	Car	1986			39.3	31.7	29.8	27.1	22.1	21.4		10.0							28.5	
Chrysler-Fiat	Car	Car	1987			38.8	30.2	29.3	26.6	22.7	21.4									27.7	
Chrysler-Fiat	Car	Car	1988			39.7	32.7	30.3	27.8	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	31.6	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								27.6	
Chrysler-Fiat	Car	Car	2002					36.1	31.5	26.4	24.5	13.6								26.9	
Chrysler-Fiat	Car	Car	2003					37.1	32.9	26.8	25.0	13.5								28.4	
Chrysler-Fiat	Car	Car	2004					37.1	32.5	27.9	25.0	22.2	21.8							27.4	
Chrysler-Fiat	Car	Car	2005					33.3	32.1	27.8	25.3	22.7	21.8							26.5	
Chrysler-Fiat	Car	Car	2006							27.8	25.6	22.3	21.7							25.4	
Chrysler-Fiat	Car	Car	2007							30.2	25.1	22.2	21.6							27.0	
Chrysler-Fiat	Car	Car	2008							30.5	26.2	21.9	21.6							27.7	
Chrysler-Fiat	Car	Car	2009						35.3	30.6	26.3	22.6								27.5	
Chrysler-Fiat	Car	Car	2010						33.6	31.6	26.0	22.9								27.7	
Chrysler-Fiat	Car	Car	2011						35.7	31.4	28.0	22.7								28.2	
Chrysler-Fiat	Car	Car	2012				44.8	39.9	35.7	31.2	28.8	23.2								29.9	
Chrysler-Fiat	Car	Car	2013				46.6	40.3		34.0	28.8	23.9								31.1	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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 SUV	1975								14.5									14.5	
Chrysler-Fiat	Car	Car SUV	1976								16.5									16.5	
Chrysler-Fiat	Car	Car SUV	1977								16.4									16.4	
Chrysler-Fiat	Car	Car SUV	1978								16.4									16.4	
Chrysler-Fiat	Car	Car SUV	1979					20.8			16.0									20.3	
Chrysler-Fiat	Car	Car SUV	1980								17.6									17.6	
Chrysler-Fiat	Car	Car SUV	1981								17.3									17.3	
Chrysler-Fiat	Car	Car SUV	1982				23.6													23.6	
Chrysler-Fiat	Car	Car SUV	1983				23.2													23.2	
Chrysler-Fiat	Car	Car SUV	1984				22.6				16.7									18.4	
Chrysler-Fiat	Car	Car SUV	1985						23.4											23.4	
Chrysler-Fiat	Car	Car SUV	1986						25.7	22.1										22.7	
Chrysler-Fiat	Car	Car SUV	1987						26.4	20.4										21.1	
Chrysler-Fiat	Car	Car SUV	1988						26.3	20.8										21.1	
Chrysler-Fiat	Car	Car SUV	1989						24.9	20.7										20.9	
Chrysler-Fiat	Car	Car SUV	1990						25.0	21.0										21.2	
Chrysler-Fiat	Car	Car SUV	1991						23.3	20.6										20.6	
Chrysler-Fiat	Car	Car SUV	1992						24.8	20.6										20.6	
Chrysler-Fiat	Car	Car SUV	1993						25.2	20.1	19.0									19.3	
Chrysler-Fiat	Car	Car SUV	1994						24.8	20.7	20.7									20.9	
Chrysler-Fiat	Car	Car SUV	1995							20.1	18.9									19.5	
Chrysler-Fiat	Car	Car SUV	1996						24.5	20.8	20.4									20.7	
Chrysler-Fiat	Car	Car SUV	1997						24.3	21.0	20.2									20.4	
Chrysler-Fiat	Car	Car SUV	1998							21.1	20.6									20.8	
Chrysler-Fiat	Car	Car SUV	1999							21.6	21.6									21.6	
Chrysler-Fiat	Car	Car SUV	2000							21.5	21.0									21.1	
Chrysler-Fiat	Car	Car SUV	2001							20.9	21.1									21.1	
Chrysler-Fiat	Car	Car SUV	2002								20.2									20.2	
Chrysler-Fiat	Car	Car SUV	2003								22.0									22.0	
Chrysler-Fiat	Car	Car SUV	2004								22.5									22.5	
Chrysler-Fiat	Car	Car SUV	2005								22.1									22.1	
Chrysler-Fiat	Car	Car SUV	2006								22.4									22.4	
Chrysler-Fiat	Car	Car SUV	2007								23.1									23.1	
Chrysler-Fiat	Car	Car SUV	2008																		
Chrysler-Fiat	Car	Car SUV	2009								27.3									27.3	
Chrysler-Fiat	Car	Car SUV	2010								27.8									27.8	
Chrysler-Fiat	Car	Car SUV	2011																		
Chrysler-Fiat	Car	Car SUV	2012							31.6	24.1	25.5								27.8	
Chrysler-Fiat	Car	Car SUV	2013							31.7	27.8									29.6	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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				44.8	39.9	35.7	31.3	28.0	23.5							29.6		
Chrysler-Fiat	Car	All	2013				46.6	40.3		33.8	28.7	23.9							31.0		

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	
Chrysler-Fiat	Truck	Van	2013									25.9	25.4							25.7	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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							29.8	24.3	23.1	23.9	19.2						23.6	
Chrysler-Fiat	Truck	Truck SUV	2013							30.1	23.9	23.6	23.8	19.4						23.8	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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									21.1	20.5	19.5						19.7	
Chrysler-Fiat	Truck	Pickup	2013									26.3	22.2	20.9						21.4	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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							29.8	24.3	24.4	23.0	19.5						23.1	
Chrysler-Fiat	Truck	All	2013							30.1	23.9	24.8	24.4	20.4						23.9	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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				44.8	39.9	35.7	31.0	26.9	24.3	23.0	19.5						25.0	
Chrysler-Fiat	All	All	2013				46.6	40.3		33.3	27.9	24.6	24.4	20.4						27.0	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	19.5											25.0
Nissan	Car	Car	1976			32.6	29.6	26.2	20.7											26.9
Nissan	Car	Car	1977			33.3	28.3	26.1	20.3											27.2
Nissan	Car	Car	1978			31.5	27.4	26.1	20.1											26.8
Nissan	Car	Car	1979			30.6	26.7	25.1	21.1											26.8
Nissan	Car	Car	1980			33.1	32.6	31.3	23.1											31.2
Nissan	Car	Car	1981			34.0	31.2	30.8	23.8	30.5										30.5
Nissan	Car	Car	1982		41.3	34.9	33.7		25.0	28.7										30.7
Nissan	Car	Car	1983		46.2	37.4	32.6		26.0	25.5										32.7
Nissan	Car	Car	1984			38.3	32.1	32.5	26.6	23.6										31.9
Nissan	Car	Car	1985			36.3	31.2	28.5	27.9	22.8										29.5
Nissan	Car	Car	1986			37.2	33.8	28.3	27.8	24.1										29.9
Nissan	Car	Car	1987			37.5	34.1	30.6	27.5	24.2										29.3
Nissan	Car	Car	1988			36.6	34.5	31.4	27.8	23.9										30.6
Nissan	Car	Car	1989			36.0	34.6	32.3	26.7	25.2										30.2
Nissan	Car	Car	1990				35.5	33.0	26.9	25.0	22.2									28.4
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								33.3
Nissan	Car	Car	2010					38.0	37.8	34.5	27.6	25.3								33.5
Nissan	Car	Car	2011					37.9	37.9	35.0	28.0	25.7								33.9
Nissan	Car	Car	2012				40.5	45.1	38.4	34.9	28.0	26.6								35.0
Nissan	Car	Car	2013				41.4	47.4	44.4	40.2	27.7	26.5								38.5

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
Nissan	Car	Car SUV	1975																		
Nissan	Car	Car SUV	1976																		
Nissan	Car	Car SUV	1977																		
Nissan	Car	Car SUV	1978																		
Nissan	Car	Car SUV	1979																		
Nissan	Car	Car SUV	1980																		
Nissan	Car	Car SUV	1981																		
Nissan	Car	Car SUV	1982																		
Nissan	Car	Car SUV	1983																		
Nissan	Car	Car SUV	1984																		
Nissan	Car	Car SUV	1985																		
Nissan	Car	Car SUV	1986																		
Nissan	Car	Car SUV	1987																		
Nissan	Car	Car SUV	1988																		
Nissan	Car	Car SUV	1989																		
Nissan	Car	Car SUV	1990																		
Nissan	Car	Car SUV	1991																		
Nissan	Car	Car SUV	1992																		
Nissan	Car	Car SUV	1993																		
Nissan	Car	Car SUV	1994																		
Nissan	Car	Car SUV	1995																		
Nissan	Car	Car SUV	1996																		
Nissan	Car	Car SUV	1997																		
Nissan	Car	Car SUV	1998																		
Nissan	Car	Car SUV	1999																		
Nissan	Car	Car SUV	2000								20.1									20.1	
Nissan	Car	Car SUV	2001								20.4									20.4	
Nissan	Car	Car SUV	2002								20.7									20.7	
Nissan	Car	Car SUV	2003								23.0									23.0	
Nissan	Car	Car SUV	2004								23.3	22.6								23.2	
Nissan	Car	Car SUV	2005								25.9	21.7								23.5	
Nissan	Car	Car SUV	2006								25.9	21.5								23.3	
Nissan	Car	Car SUV	2007								25.8	21.9								23.8	
Nissan	Car	Car SUV	2008							32.3	24.9	22.1								26.6	
Nissan	Car	Car SUV	2009							32.3	26.3	23.0								27.6	
Nissan	Car	Car SUV	2010							32.0	26.2	23.3								28.0	
Nissan	Car	Car SUV	2011							32.6	26.6	23.7								29.8	
Nissan	Car	Car SUV	2012							33.1	26.6	23.8								30.2	
Nissan	Car	Car SUV	2013							33.1	26.6	25.1								29.8	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	38.4	34.6	27.8	25.2								34.4
Nissan	Car	All	2013				41.4	47.4	44.4	39.1	27.5	25.7								37.2

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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									27.4								27.4
Nissan	Truck	Van	2013							33.6		27.8								29.7

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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							31.6	30.4	24.0	21.6		19.3					24.7	
Nissan	Truck	Truck SUV	2013							31.5	30.5	26.7	20.9		19.0					27.1	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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								25.5	21.4	20.2	18.8	17.8					20.6	
Nissan	Truck	Pickup	2013								25.9	23.2	20.4	18.8	17.7					21.1	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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							31.6	29.9	23.3	21.3	18.8	18.9					23.5	
Nissan	Truck	All	2013							31.9	29.9	26.4	20.6	18.8	18.7					26.2	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	38.4	34.4	28.4	23.5	21.3	18.8	18.9					30.5
Nissan	All	All	2013				41.4	47.4	44.4	38.0	28.4	26.3	20.6	18.8	18.7					32.6

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	29.5	24.5										32.7	
Hyundai	Car	Car	1997				35.8	31.0	29.1	23.8										31.0	
Hyundai	Car	Car	1998				35.6	31.8	28.6	23.1										30.6	
Hyundai	Car	Car	1999				35.8		29.5	26.7										30.5	
Hyundai	Car	Car	2000				36.5	34.0	29.6	26.8										30.0	
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	32.5	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	
Hyundai	Car	Car	2013					N/A	N/A	N/A	N/A	N/A								N/A	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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 SUV	1975																		
Hyundai	Car	Car SUV	1976																		
Hyundai	Car	Car SUV	1977																		
Hyundai	Car	Car SUV	1978																		
Hyundai	Car	Car SUV	1979																		
Hyundai	Car	Car SUV	1980																		
Hyundai	Car	Car SUV	1981																		
Hyundai	Car	Car SUV	1982																		
Hyundai	Car	Car SUV	1983																		
Hyundai	Car	Car SUV	1984																		
Hyundai	Car	Car SUV	1985																		
Hyundai	Car	Car SUV	1986																		
Hyundai	Car	Car SUV	1987																		
Hyundai	Car	Car SUV	1988																		
Hyundai	Car	Car SUV	1989																		
Hyundai	Car	Car SUV	1990																		
Hyundai	Car	Car SUV	1991																		
Hyundai	Car	Car SUV	1992																		
Hyundai	Car	Car SUV	1993																		
Hyundai	Car	Car SUV	1994																		
Hyundai	Car	Car SUV	1995																		
Hyundai	Car	Car SUV	1996																		
Hyundai	Car	Car SUV	1997																		
Hyundai	Car	Car SUV	1998																		
Hyundai	Car	Car SUV	1999																		
Hyundai	Car	Car SUV	2000																		
Hyundai	Car	Car SUV	2001								25.9									25.9	
Hyundai	Car	Car SUV	2002								25.3									25.3	
Hyundai	Car	Car SUV	2003								25.6									25.6	
Hyundai	Car	Car SUV	2004								25.0									25.0	
Hyundai	Car	Car SUV	2005							28.2	25.0									25.4	
Hyundai	Car	Car SUV	2006							28.2	25.2									25.7	
Hyundai	Car	Car SUV	2007							28.2	25.8	23.6								26.0	
Hyundai	Car	Car SUV	2008							28.2	26.2	23.6								26.1	
Hyundai	Car	Car SUV	2009							28.9	26.2	23.6								26.4	
Hyundai	Car	Car SUV	2010							34.0	30.0	24.7								30.4	
Hyundai	Car	Car SUV	2011							N/A	N/A	N/A								N/A	
Hyundai	Car	Car SUV	2012							N/A	N/A	N/A								N/A	
Hyundai	Car	Car SUV	2013							N/A	N/A									N/A	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	
Hyundai	Car	All	2013					N/A	N/A	N/A	N/A	N/A								N/A	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	
Hyundai	Truck	Truck SUV	2013							N/A	N/A	N/A								N/A	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	
Hyundai	Truck	All	2013							N/A	N/A	N/A								N/A	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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
Hyundai	All	All	2013					N/A	N/A	N/A	N/A	N/A								N/A

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	26.4		21.6	10.2										26.7	
VW	Car	Car	1976			28.5	27.8		21.1											27.9	
VW	Car	Car	1977			30.5	28.5		19.9											29.7	
VW	Car	Car	1978			30.4	25.8		18.8											27.8	
VW	Car	Car	1979			31.5	27.8		19.9											29.4	
VW	Car	Car	1980			33.6	31.0	22.9	22.5	20.2										31.7	
VW	Car	Car	1981			38.9	32.3	25.4	23.2											34.8	
VW	Car	Car	1982			38.3	33.9	28.5	22.4											33.8	
VW	Car	Car	1983			33.6	32.6	30.3	24.2	20.0										31.4	
VW	Car	Car	1984			35.4	30.8	26.0	23.0	22.1										28.9	
VW	Car	Car	1985				33.8	26.4	22.8	22.1										29.9	
VW	Car	Car	1986				32.9	26.0	22.8	23.1	18.4									29.4	
VW	Car	Car	1987				31.8	27.8	23.3	22.3	18.1		11.5	10.8						28.8	
VW	Car	Car	1988				31.4	30.6	25.5	21.9			12.4	12.2						30.2	
VW	Car	Car	1989				31.1	31.4	25.3	22.9	22.9		12.4	12.8						30.0	
VW	Car	Car	1990				31.8	30.9	27.0	25.1	18.8			12.9						28.8	
VW	Car	Car	1991				32.6	31.8	26.5	25.2	21.3			12.9						29.5	
VW	Car	Car	1992				32.7	31.3	26.6	25.2	22.0			14.5						29.0	
VW	Car	Car	1993				32.7	30.7	27.5	23.8	22.5			14.1						26.7	
VW	Car	Car	1994					31.0	29.1	24.2	22.5				13.6					28.1	
VW	Car	Car	1995					31.7	29.9	24.2	23.2									28.6	
VW	Car	Car	1996					30.1	29.0	26.7	24.0			15.4	14.9					28.2	
VW	Car	Car	1997					31.1	29.6	26.3	23.8			15.0	14.9					28.6	
VW	Car	Car	1998					31.0	30.2	27.1	23.3			15.0	14.9					28.6	
VW	Car	Car	1999						30.1	26.9	23.2		16.0	14.9						28.3	
VW	Car	Car	2000						30.9	26.5	23.0	22.8		15.2	15.0					28.5	
VW	Car	Car	2001						31.2	26.9	22.9	20.9			15.0	15.2				28.0	
VW	Car	Car	2002						31.6	29.4	24.4	20.3			14.5	15.2				29.0	
VW	Car	Car	2003						32.1	29.8	25.5	21.6			13.8	15.2				29.3	
VW	Car	Car	2004						32.2	29.4	25.4	22.5		18.9	13.8					28.5	
VW	Car	Car	2005						31.9	30.5	26.5	22.4	19.7	16.5	13.8					28.7	
VW	Car	Car	2006						31.8	31.6	27.4	23.3	19.7	16.8	15.4					29.9	
VW	Car	Car	2007						30.3	29.6	28.6	23.5	19.1	16.2	15.7	14.3				28.6	
VW	Car	Car	2008						30.5	30.0	28.1	23.1	19.1	16.2	15.7	14.4				28.9	
VW	Car	Car	2009						30.4	32.4	29.1	25.2	19.1	16.2	15.5	14.5				31.0	
VW	Car	Car	2010						30.6	35.0	29.9	26.4	17.7	16.2	15.8	14.5				33.1	
VW	Car	Car	2011						33.2	35.8	30.0	25.7	17.8	17.3	16.5					33.5	
VW	Car	Car	2012						33.3	34.5	29.7	27.1	20.5	17.3	16.9					33.1	
VW	Car	Car	2013						33.4	34.8	29.4	26.8	23.9	19.7	19.5	15.8				33.1	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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 SUV	1975																		
VW	Car	Car SUV	1976																		
VW	Car	Car SUV	1977																		
VW	Car	Car SUV	1978																		
VW	Car	Car SUV	1979																		
VW	Car	Car SUV	1980																		
VW	Car	Car SUV	1981																		
VW	Car	Car SUV	1982																		
VW	Car	Car SUV	1983																		
VW	Car	Car SUV	1984																		
VW	Car	Car SUV	1985																		
VW	Car	Car SUV	1986																		
VW	Car	Car SUV	1987																		
VW	Car	Car SUV	1988																		
VW	Car	Car SUV	1989																		
VW	Car	Car SUV	1990																		
VW	Car	Car SUV	1991																		
VW	Car	Car SUV	1992																		
VW	Car	Car SUV	1993																		
VW	Car	Car SUV	1994																		
VW	Car	Car SUV	1995																		
VW	Car	Car SUV	1996																		
VW	Car	Car SUV	1997																		
VW	Car	Car SUV	1998																		
VW	Car	Car SUV	1999																		
VW	Car	Car SUV	2000																		
VW	Car	Car SUV	2001																		
VW	Car	Car SUV	2002																		
VW	Car	Car SUV	2003																		
VW	Car	Car SUV	2004																		
VW	Car	Car SUV	2005																		
VW	Car	Car SUV	2006																		
VW	Car	Car SUV	2007																		
VW	Car	Car SUV	2008																		
VW	Car	Car SUV	2009																		
VW	Car	Car SUV	2010																		
VW	Car	Car SUV	2011																		
VW	Car	Car SUV	2012								30.8									30.8	
VW	Car	Car SUV	2013								31.1									31.1	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	34.5	29.9	27.1	20.5	17.3	16.9					33.0
VW	Car	All	2013						33.4	34.8	29.7	26.8	23.9	19.7	19.5	15.8				33.0

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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																		
VW	Truck	Van	2013																		

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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								30.8	27.5	27.0	23.4	24.6					27.4	
VW	Truck	Truck SUV	2013								30.8	29.2	23.9	23.7	24.2					28.0	



**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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																	
VW	Truck	Pickup	2013																	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	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								30.8	27.5	27.0	23.4	24.6					27.4	
VW	Truck	All	2013								30.8	29.2	23.9	23.7	24.2					28.0	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	34.5	30.0	27.4	26.8	21.7	22.7					32.3	
VW	All	All	2013						33.4	34.8	29.8	28.7	23.9	22.8	22.1	15.8				32.3	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	31.0	26.2									33.0	
Kia	Car	Car	2008					38.2	35.2	31.5	26.8									33.3	
Kia	Car	Car	2009					39.5	35.2	31.8	26.2									34.8	
Kia	Car	Car	2010					40.5	36.2	33.0	27.3									36.1	
Kia	Car	Car	2011					N/A	N/A	N/A										N/A	
Kia	Car	Car	2012					N/A	N/A	N/A										N/A	
Kia	Car	Car	2013					N/A	N/A	N/A	N/A									N/A	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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 SUV	1975																		
Kia	Car	Car SUV	1976																		
Kia	Car	Car SUV	1977																		
Kia	Car	Car SUV	1978																		
Kia	Car	Car SUV	1979																		
Kia	Car	Car SUV	1980																		
Kia	Car	Car SUV	1981																		
Kia	Car	Car SUV	1982																		
Kia	Car	Car SUV	1983																		
Kia	Car	Car SUV	1984																		
Kia	Car	Car SUV	1985																		
Kia	Car	Car SUV	1986																		
Kia	Car	Car SUV	1987																		
Kia	Car	Car SUV	1988																		
Kia	Car	Car SUV	1989																		
Kia	Car	Car SUV	1990																		
Kia	Car	Car SUV	1991																		
Kia	Car	Car SUV	1992																		
Kia	Car	Car SUV	1993																		
Kia	Car	Car SUV	1994																		
Kia	Car	Car SUV	1995							25.6										25.6	
Kia	Car	Car SUV	1996							24.9										24.9	
Kia	Car	Car SUV	1997							23.3										23.3	
Kia	Car	Car SUV	1998							24.4										24.4	
Kia	Car	Car SUV	1999							24.4										24.4	
Kia	Car	Car SUV	2000							23.3										23.3	
Kia	Car	Car SUV	2001							22.9										22.9	
Kia	Car	Car SUV	2002							23.1										23.1	
Kia	Car	Car SUV	2003																		
Kia	Car	Car SUV	2004																		
Kia	Car	Car SUV	2005							28.3	25.4									26.2	
Kia	Car	Car SUV	2006							28.3	25.4									26.4	
Kia	Car	Car SUV	2007							28.2	25.4	22.2								25.2	
Kia	Car	Car SUV	2008							28.1	25.4	23.1								25.1	
Kia	Car	Car SUV	2009							28.9	26.6	23.5								26.1	
Kia	Car	Car SUV	2010							28.9	26.6	23.8								28.7	
Kia	Car	Car SUV	2011							N/A	N/A	N/A								N/A	
Kia	Car	Car SUV	2012							N/A	N/A	N/A								N/A	
Kia	Car	Car SUV	2013							N/A	N/A	N/A								N/A	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	
Kia	Car	All	2013					N/A	N/A	N/A	N/A	N/A								N/A	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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								24.7	
Kia	Truck	Van	2011									N/A								N/A	
Kia	Truck	Van	2012									N/A								N/A	
Kia	Truck	Van	2013																		

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	
Kia	Truck	Truck SUV	2013							N/A	N/A									N/A	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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	
Kia	Truck	All	2013							N/A	N/A									N/A	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	
Kia	All	All	2013					N/A	N/A	N/A	N/A	N/A								N/A	



**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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				24.5	15.9	15.7											17.1	
Mazda	Car	Car	1976				29.8	21.5	20.2											21.9	
Mazda	Car	Car	1977			36.5	29.9	22.0	22.4											29.3	
Mazda	Car	Car	1978			36.3	22.5		20.3											35.5	
Mazda	Car	Car	1979			33.5	31.4	21.6												25.6	
Mazda	Car	Car	1980			32.8	28.7	23.0												26.0	
Mazda	Car	Car	1981		38.5	35.1	25.3	31.0												31.1	
Mazda	Car	Car	1982			37.2	24.4	29.4												29.4	
Mazda	Car	Car	1983			38.6	24.2	30.5												28.9	
Mazda	Car	Car	1984			37.4	23.0	29.9												30.0	
Mazda	Car	Car	1985			37.2	22.7	30.0												29.7	
Mazda	Car	Car	1986			33.4	33.2	29.7	24.0											29.4	
Mazda	Car	Car	1987			34.0	33.4	31.0	23.5											29.2	
Mazda	Car	Car	1988			33.1	32.7		27.3	23.8										28.4	
Mazda	Car	Car	1989			33.2	32.6		28.7	24.0										29.5	
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								28.0	
Mazda	Car	Car	2005					28.2	32.2	27.2										29.5	
Mazda	Car	Car	2006					30.6	33.4	27.9	24.9									30.3	
Mazda	Car	Car	2007					30.2	33.3	28.7	24.9									31.0	
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				41.2	31.1	41.1	32.0	26.2									37.8	
Mazda	Car	Car	2013				41.4	31.1	40.8	31.7	26.1									37.2	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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 SUV	1975																		
Mazda	Car	Car SUV	1976																		
Mazda	Car	Car SUV	1977																		
Mazda	Car	Car SUV	1978																		
Mazda	Car	Car SUV	1979																		
Mazda	Car	Car SUV	1980																		
Mazda	Car	Car SUV	1981																		
Mazda	Car	Car SUV	1982																		
Mazda	Car	Car SUV	1983																		
Mazda	Car	Car SUV	1984																		
Mazda	Car	Car SUV	1985																		
Mazda	Car	Car SUV	1986																		
Mazda	Car	Car SUV	1987																		
Mazda	Car	Car SUV	1988																		
Mazda	Car	Car SUV	1989																		
Mazda	Car	Car SUV	1990																		
Mazda	Car	Car SUV	1991																		
Mazda	Car	Car SUV	1992								21.4									21.4	
Mazda	Car	Car SUV	1993								21.8									21.8	
Mazda	Car	Car SUV	1994								21.4									21.4	
Mazda	Car	Car SUV	1995																		
Mazda	Car	Car SUV	1996																		
Mazda	Car	Car SUV	1997																		
Mazda	Car	Car SUV	1998																		
Mazda	Car	Car SUV	1999																		
Mazda	Car	Car SUV	2000																		
Mazda	Car	Car SUV	2001							24.6										24.6	
Mazda	Car	Car SUV	2002							25.1										25.1	
Mazda	Car	Car SUV	2003							25.2										25.2	
Mazda	Car	Car SUV	2004							25.2										25.2	
Mazda	Car	Car SUV	2005							26.5										26.5	
Mazda	Car	Car SUV	2006							27.2										27.2	
Mazda	Car	Car SUV	2007								24.2									24.2	
Mazda	Car	Car SUV	2008							28.5	25.1									26.6	
Mazda	Car	Car SUV	2009							29.8	25.7									26.9	
Mazda	Car	Car SUV	2010							29.9	26.7									29.4	
Mazda	Car	Car SUV	2011							29.9	26.7									29.7	
Mazda	Car	Car SUV	2012								29.5									29.5	
Mazda	Car	Car SUV	2013							38.5										38.5	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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				41.2	31.1	41.1	32.0	29.0									37.4	
Mazda	Car	All	2013				41.4	31.1	40.8	33.5	26.1									37.4	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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							32.3										32.3	
Mazda	Truck	Van	2013							32.2										32.2	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	24.5								24.5	
Mazda	Truck	Truck SUV	2013							36.8		24.5								29.6	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	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																		
Mazda	Truck	Pickup	2013																		

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	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							32.3	25.1	24.5								27.8	
Mazda	Truck	All	2013							35.0		24.5								30.2	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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				41.2	31.1	41.1	32.1	28.9	24.5								34.6
Mazda	All	All	2013				41.4	31.1	40.8	34.0	26.1	24.5								35.2

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
Subaru	Car	Car	1975			27.1	25.5													26.5	
Subaru	Car	Car	1976			31.6	27.9													29.7	
Subaru	Car	Car	1977			30.3	29.9													30.2	
Subaru	Car	Car	1978			32.9	27.5													29.9	
Subaru	Car	Car	1979			32.4	28.0													29.5	
Subaru	Car	Car	1980			31.7	26.2													28.1	
Subaru	Car	Car	1981			34.8	29.3													31.3	
Subaru	Car	Car	1982			35.8	32.3	28.2												31.7	
Subaru	Car	Car	1983			34.7	32.3	28.7												31.3	
Subaru	Car	Car	1984			36.8	32.5	28.8												31.1	
Subaru	Car	Car	1985			36.1	32.1	29.2	26.7											30.5	
Subaru	Car	Car	1986			37.2	31.8	29.1	28.0											30.1	
Subaru	Car	Car	1987		46.0	36.7	31.0	29.1	26.8											29.5	
Subaru	Car	Car	1988		41.6		31.5	30.2	27.3											31.4	
Subaru	Car	Car	1989		41.6	38.6	31.0	30.0	27.7											31.5	
Subaru	Car	Car	1990		41.8	36.7	30.3	29.3	28.1	26.2										28.0	
Subaru	Car	Car	1991		41.8	36.8	33.7	29.5	28.2	26.1										28.2	
Subaru	Car	Car	1992		41.9	37.7	32.8	29.0	29.5	27.0	23.6									28.1	
Subaru	Car	Car	1993		41.4	35.8	32.8	30.2	29.3	27.2	23.5									29.2	
Subaru	Car	Car	1994		41.4	39.8	31.8	30.3	29.0	26.6	23.4									28.2	
Subaru	Car	Car	1995					30.9	28.9	27.9	23.5									28.5	
Subaru	Car	Car	1996					30.8	28.9	26.8	23.3									27.4	
Subaru	Car	Car	1997					31.1	29.9	27.1	23.3									28.0	
Subaru	Car	Car	1998						29.8	27.2										27.8	
Subaru	Car	Car	1999						29.3	27.2										27.6	
Subaru	Car	Car	2000						29.0	27.8	27.2									28.0	
Subaru	Car	Car	2001						28.8	27.9	27.5									27.7	
Subaru	Car	Car	2002						27.0	27.2	27.2									27.2	
Subaru	Car	Car	2003						27.4	27.4	27.1									27.3	
Subaru	Car	Car	2004						27.6	26.7	27.1									26.9	
Subaru	Car	Car	2005						29.9	27.9	24.7									27.3	
Subaru	Car	Car	2006							28.3	25.1									28.0	
Subaru	Car	Car	2007							28.6	25.6									28.4	
Subaru	Car	Car	2008							29.0	25.9									28.7	
Subaru	Car	Car	2009							29.0	25.9									28.9	
Subaru	Car	Car	2010							30.4	26.2									30.2	
Subaru	Car	Car	2011							30.4	26.2									30.2	
Subaru	Car	Car	2012						39.1	35.1	26.4									35.2	
Subaru	Car	Car	2013						37.6	36.6	26.2									36.4	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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						39.1	35.1	26.4									35.2	
Subaru	Car	All	2013						37.6	36.6	26.2									36.4	



**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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							30.2	30.9	23.4								30.5	
Subaru	Truck	Truck SUV	2013							31.2	32.9	23.4								31.9	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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																		
Subaru	Truck	Pickup	2013																		

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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							30.2	30.9	23.4								30.5	
Subaru	Truck	All	2013							31.2	32.9	23.4								31.9	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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						39.1	32.8	30.7	23.4								32.2	
Subaru	All	All	2013						37.6	33.9	32.7	23.4								33.6	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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	23.2	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	23.9	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	23.8	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	24.4	23.6		16.1		15.2				26.0	
BMW	Car	Car	2003					35.6	29.6	26.5	24.3	23.6	20.3							26.5	
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	24.5	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	22.5	19.6	17.3						27.2	
BMW	Car	Car	2009					42.5	38.7	28.2	26.2	21.9	21.5	17.3						28.4	
BMW	Car	Car	2010					42.1	37.0	28.1	26.3	23.7	21.3	19.7	17.3					28.5	
BMW	Car	Car	2011					41.8	39.2	29.4	27.8	28.4	21.8		19.3					29.1	
BMW	Car	Car	2012					41.9	39.2	34.8	30.7	27.7	21.4		19.6					32.2	
BMW	Car	Car	2013					42.2	39.5	35.6	32.5	27.5	24.6		18.5	17.4				32.9	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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					41.9	39.2	34.8	30.7	27.7	21.4		19.6					32.2	
BMW	Car	All	2013					42.2	39.5	35.6	32.5	27.5	24.6		18.5	17.4				32.9	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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	23.9	25.0						25.0	
BMW	Truck	Truck SUV	2013									31.5	27.9	23.9	22.7					25.1	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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	23.9	25.0						25.0	
BMW	Truck	All	2013								31.5	27.9	23.9	22.7						25.1	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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					41.9	39.2	34.8	30.7	27.7	23.2	25.0	19.6					30.0	
BMW	All	All	2013					42.2	39.5	35.6	32.4	27.5	24.1	22.7	18.5	17.4				30.8	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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	20.1	13.6								20.5	
Daimler	Car	Car	1980							26.1	22.5									23.9	
Daimler	Car	Car	1981							26.9	24.4									25.6	
Daimler	Car	Car	1982							28.9	25.6									26.3	
Daimler	Car	Car	1983						26.1	30.0	26.1									26.4	
Daimler	Car	Car	1984						26.8		24.5									26.0	
Daimler	Car	Car	1985						25.7		22.1									23.1	
Daimler	Car	Car	1986						25.6	23.1	19.3	16.8								21.1	
Daimler	Car	Car	1987						26.1	25.0	19.2									22.0	
Daimler	Car	Car	1988						26.5	23.4	18.5									21.1	
Daimler	Car	Car	1989							24.3	18.8									21.2	
Daimler	Car	Car	1990							23.6	20.2	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						23.6	
Daimler	Car	Car	1995							27.5	26.5	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	27.2	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	25.7	22.2	19.2							24.9	
Daimler	Car	Car	2002						27.3	25.9	24.8	22.0	19.1							24.6	
Daimler	Car	Car	2003							27.0	24.1	20.9								24.4	
Daimler	Car	Car	2004							28.5	23.9	21.4	17.0							24.5	
Daimler	Car	Car	2005							26.8	24.9	21.1	17.2							25.0	
Daimler	Car	Car	2006							25.4	24.9	21.7	17.2	20.3						24.0	
Daimler	Car	Car	2007							25.2	25.1	20.9	20.1	21.1						23.2	
Daimler	Car	Car	2008		49.5					25.2	25.5	20.9	19.9	21.4		15.3				25.3	
Daimler	Car	Car	2009		49.5					26.9	25.6	20.6	20.0	21.3		15.2				25.6	
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				25.2	
Daimler	Car	Car	2012		49.5					32.3	27.0	28.1	23.9	18.4		15.5				28.6	
Daimler	Car	Car	2013		50.3					33.2	29.1	29.1	23.6	18.5						29.6	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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 SUV	1975																		
Daimler	Car	Car SUV	1976																		
Daimler	Car	Car SUV	1977																		
Daimler	Car	Car SUV	1978																		
Daimler	Car	Car SUV	1979																		
Daimler	Car	Car SUV	1980																		
Daimler	Car	Car SUV	1981																		
Daimler	Car	Car SUV	1982																		
Daimler	Car	Car SUV	1983																		
Daimler	Car	Car SUV	1984																		
Daimler	Car	Car SUV	1985																		
Daimler	Car	Car SUV	1986																		
Daimler	Car	Car SUV	1987																		
Daimler	Car	Car SUV	1988																		
Daimler	Car	Car SUV	1989																		
Daimler	Car	Car SUV	1990																		
Daimler	Car	Car SUV	1991																		
Daimler	Car	Car SUV	1992																		
Daimler	Car	Car SUV	1993																		
Daimler	Car	Car SUV	1994																		
Daimler	Car	Car SUV	1995																		
Daimler	Car	Car SUV	1996																		
Daimler	Car	Car SUV	1997																		
Daimler	Car	Car SUV	1998																		
Daimler	Car	Car SUV	1999																		
Daimler	Car	Car SUV	2000																		
Daimler	Car	Car SUV	2001																		
Daimler	Car	Car SUV	2002																		
Daimler	Car	Car SUV	2003																		
Daimler	Car	Car SUV	2004																		
Daimler	Car	Car SUV	2005																		
Daimler	Car	Car SUV	2006																		
Daimler	Car	Car SUV	2007																		
Daimler	Car	Car SUV	2008																		
Daimler	Car	Car SUV	2009																		
Daimler	Car	Car SUV	2010									23.8								23.8	
Daimler	Car	Car SUV	2011								23.5									23.5	
Daimler	Car	Car SUV	2012								23.3	23.9								23.5	
Daimler	Car	Car SUV	2013									28.1								28.1	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		49.5					32.3	26.5	27.8	23.9	18.4		15.5				28.2	
Daimler	Car	All	2013		50.3					33.2	29.1	28.9	23.6	18.5						29.6	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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									23.1	25.7	26.9	19.6					23.1	
Daimler	Truck	Truck SUV	2013									28.9	25.8	23.8	20.8					24.3	

2013 FE Trends Report  
Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		
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									23.1	25.7	26.9	19.6					23.1	
Daimler	Truck	All	2013									28.9	25.8	23.8	20.8					24.3	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		49.5					32.3	26.5	26.6	25.2	26.8	19.6	15.5				26.3	
Daimler	All	All	2013		50.3					33.2	29.1	28.9	25.1	23.8	20.8					27.9	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	24.4	21.7	21.4	18.2	15.6	14.3	12.9	12.2						15.8	
All	Car	Car	1976		32.6	29.6	26.2	24.5	23.5	19.4	17.7	15.7	14.6	13.3						17.5	
All	Car	Car	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	Car	1978		34.9	31.9	27.9	24.8	22.5	20.2	18.0	16.3	14.6	12.8						19.9	
All	Car	Car	1979		32.0	31.4	27.9	24.0	22.1	20.2	17.8	16.5	14.4	11.0						20.3	
All	Car	Car	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	Car	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	Car	1982		40.3	35.6	31.2	28.8	25.7	22.4	20.6	21.0	11.2	10.1						26.0	
All	Car	Car	1983		43.6	36.2	32.2	30.2	25.8	22.8	20.3	19.9	11.5	10.9						25.9	
All	Car	Car	1984		44.3	37.1	32.7	30.1	26.4	22.9	20.6	20.2	11.2	11.0						26.3	
All	Car	Car	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					27.0	
All	Car	Car	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	Car	1987	56.8	40.0	39.0	33.4	30.8	27.9	24.6	21.7	22.3	11.4	10.9	10.4					28.1	
All	Car	Car	1988	51.6	43.6	38.9	34.1	31.5	28.4	25.4	22.2	22.6	12.3	12.2	11.8					28.6	
All	Car	Car	1989	59.4	43.5	38.7	34.4	31.8	28.4	25.1	23.0	21.8	12.4	12.5						28.1	
All	Car	Car	1990	65.3	47.5	39.6	35.1	31.9	28.6	25.5	23.0	20.3	10.9	13.1						27.8	
All	Car	Car	1991	65.3	47.1	38.1	35.8	32.5	28.1	25.4	23.3	20.9		13.2						28.0	
All	Car	Car	1992	65.3	47.3	39.7	35.9	32.6	28.4	25.6	23.4	22.1	17.3	14.1						27.6	
All	Car	Car	1993	65.3	48.6	38.7	36.5	33.0	28.7	26.0	23.6	22.1	18.9	15.6	17.6					28.2	
All	Car	Car	1994	65.8	48.9	39.6	36.0	33.6	29.1	26.1	23.5	22.4	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	29.9	26.5	23.9	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	37.3	34.5	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	24.2	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	24.4	21.9	18.3	18.1	15.0	15.2				28.2	
All	Car	Car	2001		75.6	39.3	36.2	35.9	31.6	27.2	24.6	22.0	18.2	16.1	17.6	15.2				28.4	
All	Car	Car	2002		75.3	51.5	37.3	36.3	31.4	27.7	24.8	22.3	19.1	16.1	17.6	15.2				28.6	
All	Car	Car	2003		75.1	50.8	40.8	37.1	32.8	28.0	25.1	23.2	20.3		18.2	15.2				29.0	
All	Car	Car	2004		73.8	64.5	40.8	36.9	33.5	28.1	25.4	22.9	21.7	18.8	18.5	18.9				28.9	
All	Car	Car	2005		74.3	34.1	41.1	37.3	34.2	28.9	25.7	23.1	21.7	16.7	17.3					29.5	
All	Car	Car	2006		73.8	34.3	41.6	37.8	34.9	29.2	26.0	22.6	21.5	19.9	15.4	17.9				29.2	
All	Car	Car	2007			29.9	42.4	38.2	36.4	29.9	27.0	22.5	20.9	20.5	16.2	19.1				30.3	
All	Car	Car	2008		49.5	29.9	42.1	37.9	37.5	30.6	26.9	22.4	20.2	21.6	16.4	16.6				30.5	
All	Car	Car	2009		49.5	30.0	42.0	38.3	38.4	31.7	27.5	23.3	21.2	20.6	16.4	16.6				32.1	
All	Car	Car	2010		49.1	29.8	42.0	39.0	38.2	34.6	27.7	24.1	21.6	18.7	17.1	14.5				33.2	
All	Car	Car	2011		48.7	29.9	41.1	40.4	38.5	34.8	28.2	24.8	22.1	20.2	18.1	18.9				32.8	
All	Car	Car	2012		49.5	52.3	42.9	44.5	40.3	35.9	29.1	25.5	22.7	17.7	17.9	15.5				35.3	
All	Car	Car	2013		50.3	52.3	43.5	45.1	40.1	37.3	30.6	26.1	24.0	20.0	19.9	16.3				35.7	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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 SUV	1975								13.1									13.1	
All	Car	Car SUV	1976							14.3	12.3									12.4	
All	Car	Car SUV	1977								14.3									14.3	
All	Car	Car SUV	1978								13.6									13.6	
All	Car	Car SUV	1979					20.8			13.3									16.8	
All	Car	Car SUV	1980								17.2									17.2	
All	Car	Car SUV	1981								17.3									17.3	
All	Car	Car SUV	1982				23.6		25.8	16.6	19.3									23.4	
All	Car	Car SUV	1983				23.2			25.1										24.3	
All	Car	Car SUV	1984				22.6		28.3	23.5	16.7									22.6	
All	Car	Car SUV	1985						23.4	23.5										23.5	
All	Car	Car SUV	1986						25.7	22.1										22.3	
All	Car	Car SUV	1987						26.4	22.8										22.9	
All	Car	Car SUV	1988						26.3	22.7										22.7	
All	Car	Car SUV	1989						24.9	22.7										22.7	
All	Car	Car SUV	1990				32.2		25.0	22.4	20.9									22.5	
All	Car	Car SUV	1991				30.7		23.3	21.8	21.2									21.8	
All	Car	Car SUV	1992				29.6	29.2	24.8	20.9	20.9									21.4	
All	Car	Car SUV	1993				29.3	29.1	25.2	20.3	20.1									20.4	
All	Car	Car SUV	1994				29.0	28.0	25.6	21.4	21.1									21.8	
All	Car	Car SUV	1995				29.7	27.7	27.9	20.1	21.0									21.5	
All	Car	Car SUV	1996				29.3	28.8	28.7	21.6	21.4									22.4	
All	Car	Car SUV	1997				28.4	29.6	28.0	22.2	21.1									23.5	
All	Car	Car SUV	1998				28.5	29.3	29.7	24.0	21.4									22.3	
All	Car	Car SUV	1999					31.0	29.9	24.3	21.9									22.7	
All	Car	Car SUV	2000					31.1	29.7	24.0	21.3									22.0	
All	Car	Car SUV	2001					31.0	29.7	24.6	22.1									23.3	
All	Car	Car SUV	2002						30.6	25.5	22.5									24.0	
All	Car	Car SUV	2003						29.9	26.5	23.1									24.8	
All	Car	Car SUV	2004						30.9	27.0	24.2	21.0								24.9	
All	Car	Car SUV	2005						30.9	27.2	24.8	21.7	19.1							25.4	
All	Car	Car SUV	2006							28.3	25.0	21.5	20.7							25.7	
All	Car	Car SUV	2007							29.0	25.3	23.4	20.6							25.9	
All	Car	Car SUV	2008							28.9	26.3	23.7	20.9							26.6	
All	Car	Car SUV	2009							29.9	27.2	24.0	19.2							27.8	
All	Car	Car SUV	2010							30.8	30.4	25.6	33.6							29.1	
All	Car	Car SUV	2011							31.3	30.2	26.5	32.3							29.9	
All	Car	Car SUV	2012							31.7	29.9	25.7	40.3							29.6	
All	Car	Car SUV	2013							34.0	31.5	26.8	40.4							31.2	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		49.5	52.3	42.9	44.5	40.3	35.4	29.3	25.6	23.4	17.7	17.9	15.5				34.3	
All	Car	All	2013		50.3	52.3	43.5	45.1	40.1	36.8	30.9	26.4	25.2	20.0	19.9	16.3				34.8	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) by Manufacturer, Vehicle Type and Inertia Weight**

Manufacturer	Car or Truck	Vehicle Type	Year	Weight Class (Pounds)																	
				1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000	6500	7000	8000	8500	All Classes	
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							31.3		26.7	22.6	18.5	18.0	16.3	15.0	14.5		26.7	
All	Truck	Van	2013							32.8		26.9	25.0	18.7	18.0	16.2	15.1			26.2	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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							30.8	29.1	24.7	24.3	21.6	20.7	18.6	15.4		16.4	25.1	
All	Truck	Truck SUV	2013							31.9	30.8	25.9	24.8	21.6	21.3	18.9	15.4			26.1	



**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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	25.8	22.3	21.5	21.0	20.4	16.7				21.3	
All	Truck	Pickup	2013							29.4	25.7	23.0	22.3	21.4	20.6	16.7				21.5	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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							30.7	28.6	25.1	23.8	21.1	20.5	18.2	15.3	14.5	16.4	24.1	
All	Truck	All	2013							31.9	30.3	25.9	24.3	21.4	20.9	18.3	15.3			24.5	

**2013 FE Trends Report**  
**Appendix J: Unadjusted, Laboratory Fuel Economy (MPG) 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		49.5	52.3	42.9	44.5	40.3	34.9	29.1	25.2	23.8	21.1	20.5	18.2	15.3	14.5	16.4	29.8	
All	All	All	2013		50.3	52.3	43.5	45.1	40.1	36.3	30.8	26.1	24.4	21.4	20.9	18.3	15.3			30.3	



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
GM	Car	Car	1975	15.1	11.8	14.4	12.8	4500		343	151	14.1	0.450	0.0333	34.0		
GM	Car	Car	1976	16.6	13.0	15.7	14.1	4401		330	148	14.1	0.461	0.0333	36.5		
GM	Car	Car	1977	17.7	14.0	16.6	15.1	4186	116.1	315	145	13.6	0.467	0.0345	37.2	2080	4328
GM	Car	Car	1978	19.0	14.9	18.1	16.2	3789	115.0	289	136	13.4	0.477	0.0355	36.2	2223	4180
GM	Car	Car	1979	19.1	15.2	17.9	16.3	3761	115.6	284	136	13.2	0.493	0.0359	36.3	2246	4199
GM	Car	Car	1980	21.9	17.0	21.1	18.7	3384	111.4	225	114	13.9	0.537	0.0336	37.1	2474	4168
GM	Car	Car	1981	23.2	17.9	22.7	19.8	3445	113.9	227	111	14.4	0.521	0.0321	40.0	2677	4598
GM	Car	Car	1982	24.2	18.4	24.3	20.7	3370	114.2	213	111	14.2	0.554	0.0328	41.0	2813	4712
GM	Car	Car	1983	23.5	17.8	23.7	20.1	3448	116.6	223	117	13.8	0.551	0.0337	40.7	2779	4752
GM	Car	Car	1984	24.4	18.5	24.7	20.9	3347	112.4	209	115	13.7	0.582	0.0341	41.1	2785	4622
GM	Car	Car	1985	25.5	19.2	26.2	21.8	3325	113.8	207	117	13.5	0.592	0.0349	42.5	2946	4851
GM	Car	Car	1986	27.0	20.2	27.6	23.0	3174	111.2	190	115	13.2	0.634	0.0359	43.0	3060	4804
GM	Car	Car	1987	27.2	20.2	28.0	23.2	3192	111.9	192	123	12.6	0.665	0.0380	43.6	3100	4894
GM	Car	Car	1988	28.1	20.7	28.9	23.9	3158	111.2	181	122	12.6	0.701	0.0382	44.6	3180	4974
GM	Car	Car	1989	27.4	20.0	28.3	23.2	3191	111.9	187	133	11.9	0.731	0.0412	43.9	3114	4922
GM	Car	Car	1990	27.3	19.6	28.3	23.0	3256	110.7	183	136	11.8	0.770	0.0415	44.5	3053	4936
GM	Car	Car	1991	27.2	19.4	28.1	22.8	3248	109.9	188	139	11.6	0.769	0.0422	44.2	3026	4871
GM	Car	Car	1992	26.7	18.9	27.8	22.4	3306	110.7	193	146	11.3	0.789	0.0437	44.2	2996	4910
GM	Car	Car	1993	27.3	19.3	28.0	22.8	3268	110.4	189	146	11.2	0.801	0.0442	44.7	3061	4956
GM	Car	Car	1994	27.5	19.3	27.9	22.9	3278	109.5	186	149	11.2	0.822	0.0446	45.1	3055	4955
GM	Car	Car	1995	27.3	19.0	27.9	22.7	3338	111.5	191	165	10.3	0.881	0.0488	45.7	3085	5101
GM	Car	Car	1996	27.9	19.3	28.4	23.1	3337	110.4	188	167	10.3	0.898	0.0493	46.5	3097	5146
GM	Car	Car	1997	28.2	19.4	28.3	23.2	3300	110.1	183	168	10.2	0.924	0.0500	46.5	3124	5123
GM	Car	Car	1998	27.6	18.9	27.7	22.7	3363	111.5	191	174	10.1	0.915	0.0508	46.4	3102	5181
GM	Car	Car	1999	27.4	18.7	27.4	22.5	3401	110.8	190	171	10.3	0.906	0.0495	46.7	3065	5180
GM	Car	Car	2000	27.6	18.6	27.6	22.6	3453	111.8	193	175	10.2	0.910	0.0500	47.6	3101	5335
GM	Car	Car	2001	28.1	18.9	27.8	22.9	3448	112.1	191	178	10.0	0.937	0.0510	48.5	3172	5449
GM	Car	Car	2002	28.5	19.1	27.8	23.1	3405	111.8	194	178	9.9	0.929	0.0517	48.6	3212	5449
GM	Car	Car	2003	28.6	19.0	27.9	23.1	3468	113.3	191	181	9.8	0.961	0.0517	49.6	3257	5635
GM	Car	Car	2004	29.1	19.1	28.5	23.5	3408	112.5	190	181	9.7	0.969	0.0526	49.6	3302	5599
GM	Car	Car	2005	29.0	19.0	28.2	23.3	3469	112.3	192	187	9.7	0.985	0.0533	50.5	3300	5688
GM	Car	Car	2006	28.6	18.7	27.6	22.9	3558	112.1	195	197	9.5	1.026	0.0549	51.0	3242	5751
GM	Car	Car	2007	28.8	18.9	27.8	23.1	3563	109.7	188	193	9.7	1.046	0.0537	51.5	3199	5685
GM	Car	Car	2008	28.6	18.7	27.7	23.0	3651	110.5	192	203	9.5	1.079	0.0552	52.4	3205	5830
GM	Car	Car	2009	30.0	19.7	28.6	24.0	3586	110.7	178	195	9.7	1.111	0.0538	54.2	3380	6024
GM	Car	Car	2010	29.8	19.4	28.9	23.9	3668	111.5	192	219	9.2	1.147	0.0586	54.9	3375	6145
GM	Car	Car	2011	29.9	19.4	29.4	24.1	3774	112.5	179	214	9.6	1.241	0.0559	56.9	3426	6412
GM	Car	Car	2012	32.1	20.6	31.6	25.7	3670	111.5	161	208	9.7	1.329	0.0557	59.7	3666	6661
GM	Car	Car	2013	32.6	21.0	31.9	26.1	3673	109.9	157	216	9.4	1.403	0.0577	60.8	3686	6700

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
GM	Car	Car	1975	2.4%		7.0%				2.2%						41.6%	26.0%	32.3%
GM	Car	Car	1976	2.6%		6.9%				1.7%						44.2%	27.5%	28.3%
GM	Car	Car	1977	2.4%		3.9%				1.2%						39.0%	26.5%	34.5%
GM	Car	Car	1978	2.4%		5.8%				1.8%		0.7%				29.5%	36.7%	33.8%
GM	Car	Car	1979	4.0%		6.2%	5.3%			2.0%		2.7%				25.9%	40.5%	33.6%
GM	Car	Car	1980	27.4%		12.9%	20.3%			0.3%	1.0%	4.7%				30.8%	51.5%	17.7%
GM	Car	Car	1981	25.7%		9.2%	59.3%				3.9%	8.0%				26.4%	53.4%	20.2%
GM	Car	Car	1982	37.2%		8.8%	91.1%				20.5%	6.3%				34.6%	44.2%	21.2%
GM	Car	Car	1983	37.0%		6.7%	93.1%			0.2%	28.9%	2.1%				26.4%	46.8%	26.8%
GM	Car	Car	1984	44.8%		8.8%	91.0%			0.9%	33.6%	0.9%				36.3%	42.4%	21.3%
GM	Car	Car	1985	60.8%		6.3%	92.9%			17.4%	35.5%	0.2%				32.5%	41.1%	26.4%
GM	Car	Car	1986	72.0%		9.1%	88.9%			26.1%	38.0%	0.0%				41.2%	36.8%	22.0%
GM	Car	Car	1987	77.1%		7.5%	90.3%			38.3%	38.3%					40.8%	33.3%	26.0%
GM	Car	Car	1988	88.1%		9.8%	88.4%			50.4%	37.3%		3.2%			49.4%	28.1%	22.6%
GM	Car	Car	1989	89.0%	0.0%	7.8%	90.6%			56.3%	39.4%		5.1%			40.1%	34.8%	25.1%
GM	Car	Car	1990	94.3%	0.1%	7.6%	91.4%			67.9%	31.0%		11.9%			39.4%	37.8%	22.8%
GM	Car	Car	1991	88.0%	0.0%	9.9%	87.6%			56.3%	43.7%		8.5%			44.8%	33.0%	22.2%
GM	Car	Car	1992	90.9%	0.0%	8.8%	88.3%			81.1%	18.9%		10.8%			44.9%	28.7%	26.3%
GM	Car	Car	1993	93.1%		10.0%	88.5%			85.0%	15.0%		11.8%			48.0%	29.5%	22.5%
GM	Car	Car	1994	89.3%		10.5%	88.0%			93.0%	7.0%		13.1%			52.9%	25.5%	21.5%
GM	Car	Car	1995	90.6%		8.8%	90.1%			97.6%	2.4%		20.2%			46.4%	32.7%	20.9%
GM	Car	Car	1996	92.1%		8.7%	91.3%			100.0%			24.8%			50.1%	31.8%	18.1%
GM	Car	Car	1997	96.3%		8.3%	89.8%			97.5%	2.5%		28.6%			48.5%	31.8%	19.6%
GM	Car	Car	1998	95.6%		6.7%	92.5%			99.5%	0.5%		24.4%			39.0%	43.3%	17.8%
GM	Car	Car	1999	95.3%		5.9%	93.5%			99.7%	0.3%		29.3%			46.2%	39.4%	14.4%
GM	Car	Car	2000	92.8%		4.4%	94.6%			99.8%	0.2%		23.9%	1.6%		41.9%	33.8%	24.3%
GM	Car	Car	2001	94.0%		4.7%	94.6%			100.0%			27.1%	2.3%		40.4%	37.1%	22.6%
GM	Car	Car	2002	95.1%		5.8%	94.2%			100.0%			25.2%	1.3%		42.5%	33.4%	24.1%
GM	Car	Car	2003	94.0%	0.6%	4.0%	95.5%	0.4%		100.0%			40.4%	3.7%		36.7%	35.8%	27.5%
GM	Car	Car	2004	94.1%	0.4%	5.4%	93.9%	0.7%		100.0%			44.8%	6.2%		41.3%	30.8%	28.0%
GM	Car	Car	2005	91.6%	0.2%	4.9%	95.1%			100.0%			38.2%	10.4%		37.8%	35.0%	27.2%
GM	Car	Car	2006	90.6%	0.8%	6.4%	93.6%			100.0%			43.9%	22.6%		46.2%	27.3%	26.5%
GM	Car	Car	2007	90.9%	0.5%	6.2%	93.8%		0.3%	99.7%			48.3%	47.3%	0.1%	48.8%	25.3%	25.9%
GM	Car	Car	2008	89.3%	1.9%	4.7%	95.3%		3.0%	97.0%			53.9%	58.1%	0.2%	41.5%	27.9%	30.6%
GM	Car	Car	2009	88.8%	2.9%	5.0%	95.0%		3.2%	96.8%			68.3%	79.1%	0.5%	46.6%	27.9%	25.6%
GM	Car	Car	2010	78.9%	2.7%	6.4%	93.6%		18.1%	81.9%			70.3%	93.2%	0.1%	45.0%	32.9%	22.1%
GM	Car	Car	2011	81.2%	3.3%	4.6%	95.4%		24.6%	75.4%			72.5%	92.2%		16.4%	59.9%	23.7%
GM	Car	Car	2012	85.4%	2.6%	6.3%	93.7%		44.0%	56.0%			96.1%	97.6%	1.7%			
GM	Car	Car	2013	78.2%	3.9%	10.4%	89.6%		58.2%	41.8%			95.7%	97.0%	6.5%			



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
GM	Car	Car SUV	1975	15.6	13.2	13.3	13.2	4000		250	105	16.6	0.420	0.0263	31.3		
GM	Car	Car SUV	1976	16.9	13.8	15.0	14.3	3946		261	111	16.0	0.424	0.0284	33.5		
GM	Car	Car SUV	1977	18.0	14.6	16.2	15.3	4000		269	117	15.5	0.433	0.0292	36.0		
GM	Car	Car SUV	1978	17.6	13.9	16.5	14.9	4000		270	126	14.5	0.466	0.0315	35.2		
GM	Car	Car SUV	1979														
GM	Car	Car SUV	1980														
GM	Car	Car SUV	1981														
GM	Car	Car SUV	1982	22.0	17.3	20.9	18.8	3461		207	112	14.0	0.558	0.0330	38.3		
GM	Car	Car SUV	1983	25.1	19.0	25.4	21.4	3500		170	109	14.5	0.640	0.0311	44.0		
GM	Car	Car SUV	1984	23.6	17.8	24.1	20.2	3489		172	109	14.4	0.637	0.0313	41.2		
GM	Car	Car SUV	1985	23.5	17.6	24.4	20.1	3500		172	109	14.5	0.634	0.0311	41.1		
GM	Car	Car SUV	1986	22.2	16.9	21.9	18.9	3500		171	123	13.3	0.714	0.0350	38.9		
GM	Car	Car SUV	1987	23.0	17.2	23.4	19.6	3500		171	123	13.3	0.714	0.0350	40.3		
GM	Car	Car SUV	1988	23.1	17.1	23.4	19.6	3500		204	136	12.3	0.677	0.0388	40.4		
GM	Car	Car SUV	1989	23.0	17.3	22.4	19.4	3500		246	145	11.6	0.599	0.0414	40.3		
GM	Car	Car SUV	1990	22.7	17.1	21.8	19.0	3500		230	139	12.1	0.620	0.0398	39.7		
GM	Car	Car SUV	1991	22.7	17.0	21.6	19.0	3628		225	135	12.7	0.622	0.0373	41.2		
GM	Car	Car SUV	1992	22.5	16.9	21.1	18.7	3562		198	135	12.8	0.701	0.0375	40.0		
GM	Car	Car SUV	1993	23.6	17.6	21.8	19.5	3628		203	160	11.5	0.796	0.0431	42.5		
GM	Car	Car SUV	1994	22.7	17.0	20.9	18.8	3644		198	159	11.5	0.812	0.0428	41.2		
GM	Car	Car SUV	1995	22.8	16.6	21.6	18.9	3727		212	159	11.7	0.765	0.0421	42.3		
GM	Car	Car SUV	1996	22.8	16.7	21.3	18.8	3800		218	158	11.7	0.766	0.0413	43.4		
GM	Car	Car SUV	1997	22.0	16.0	20.4	18.0	3902		222	181	10.8	0.833	0.0462	43.1		
GM	Car	Car SUV	1998	22.5	16.2	20.9	18.4	3857		221	186	10.4	0.867	0.0479	43.3		
GM	Car	Car SUV	1999	22.3	16.0	20.6	18.2	3865		216	174	10.9	0.847	0.0450	43.1		
GM	Car	Car SUV	2000	22.1	15.7	20.6	18.0	3909		228	179	10.8	0.819	0.0457	43.3		
GM	Car	Car SUV	2001	24.0	17.0	21.8	19.3	3795		196	168	11.1	0.896	0.0441	45.7		
GM	Car	Car SUV	2002	24.1	16.7	22.5	19.4	3890		202	182	10.6	0.929	0.0468	47.2		
GM	Car	Car SUV	2003	25.9	17.8	23.8	20.7	3666		175	164	11.0	0.965	0.0447	47.6		
GM	Car	Car SUV	2004	24.7	16.7	23.5	19.9	3991		204	208	9.9	1.021	0.0517	49.6		
GM	Car	Car SUV	2005	24.8	16.7	23.4	19.9	4011		200	192	10.4	0.959	0.0476	49.9		
GM	Car	Car SUV	2006	25.1	16.8	23.7	20.1	3998		198	196	10.3	0.987	0.0487	50.2		
GM	Car	Car SUV	2007	25.4	17.0	24.0	20.4	3983		197	196	10.1	0.998	0.0491	50.8		
GM	Car	Car SUV	2008	25.3	16.9	23.9	20.3	4084		194	202	10.2	1.043	0.0494	51.9		
GM	Car	Car SUV	2009	25.8	17.2	24.4	20.7	4072		191	197	10.3	1.037	0.0483	53.0		
GM	Car	Car SUV	2010	29.4	19.6	27.5	23.4	4157		161	215	9.9	1.326	0.0514	61.9		
GM	Car	Car SUV	2011	29.8	19.7	28.0	23.7	4027		154	201	10.2	1.286	0.0494	60.7		
GM	Car	Car SUV	2012	29.0	19.1	27.2	23.0	4126		166	215	9.9	1.290	0.0518	60.8		
GM	Car	Car SUV	2013	30.9	20.1	28.6	24.2	4069		162	211	10.1	1.297	0.0515	63.6		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
GM	Car	Car SUV	1975			16.9%											100.0%	
GM	Car	Car SUV	1976			15.9%											100.0%	
GM	Car	Car SUV	1977			16.3%											100.0%	
GM	Car	Car SUV	1978			14.8%											100.0%	
GM	Car	Car SUV	1979															
GM	Car	Car SUV	1980															
GM	Car	Car SUV	1981															
GM	Car	Car SUV	1982			33.9%	66.1%										100.0%	
GM	Car	Car SUV	1983			30.8%	69.2%										100.0%	
GM	Car	Car SUV	1984			23.1%	76.9%										100.0%	
GM	Car	Car SUV	1985			14.4%	85.6%				5.7%						100.0%	
GM	Car	Car SUV	1986			13.8%	86.2%				100.0%						100.0%	
GM	Car	Car SUV	1987			11.9%	88.1%				100.0%						100.0%	
GM	Car	Car SUV	1988			9.6%	90.4%				100.0%						100.0%	
GM	Car	Car SUV	1989			16.3%	83.7%			4.9%	92.6%					7.4%	92.6%	
GM	Car	Car SUV	1990			35.2%	64.8%			14.3%	72.5%					27.5%	72.5%	
GM	Car	Car SUV	1991			30.1%	69.9%			6.9%	90.9%					14.6%	85.4%	
GM	Car	Car SUV	1992			38.0%	62.0%			33.6%	62.8%					27.2%	72.8%	
GM	Car	Car SUV	1993			31.7%	68.3%			74.1%	22.1%					26.8%	73.2%	
GM	Car	Car SUV	1994			32.2%	67.8%			79.7%	20.3%		26.4%			25.1%	74.9%	
GM	Car	Car SUV	1995			24.6%	75.4%			81.8%	18.2%		8.9%			18.2%	81.8%	
GM	Car	Car SUV	1996			15.9%	84.1%			100.0%			33.3%			16.8%	83.2%	
GM	Car	Car SUV	1997			16.3%	83.7%			100.0%			31.5%			8.4%	91.6%	
GM	Car	Car SUV	1998			16.6%	83.4%			100.0%			40.3%			40.3%	59.7%	
GM	Car	Car SUV	1999			14.6%	85.4%			100.0%			43.2%			13.6%	86.4%	
GM	Car	Car SUV	2000			8.3%	91.7%			100.0%			27.8%			10.7%	89.3%	
GM	Car	Car SUV	2001	17.6%		7.0%	93.0%			100.0%			18.7%			31.6%	68.4%	
GM	Car	Car SUV	2002	49.4%		10.6%	89.0%	0.5%		100.0%			33.7%			11.2%	64.1%	24.8%
GM	Car	Car SUV	2003	74.5%		16.7%	63.8%	19.6%		100.0%			58.9%			10.4%	87.7%	1.9%
GM	Car	Car SUV	2004	65.6%	12.0%	11.2%	82.2%	6.6%		100.0%			59.2%	32.5%		1.6%	56.7%	41.6%
GM	Car	Car SUV	2005	56.9%	38.9%	5.1%	94.9%			100.0%			24.5%	14.6%			19.5%	80.5%
GM	Car	Car SUV	2006	73.8%	22.3%	2.9%	97.1%			100.0%			76.7%	19.9%			24.9%	75.1%
GM	Car	Car SUV	2007	76.8%	20.0%	2.0%	98.0%			100.0%			36.0%	23.8%	3.5%		28.4%	71.6%
GM	Car	Car SUV	2008	73.0%	23.0%		100.0%			100.0%			55.0%	55.0%	1.0%		39.4%	60.6%
GM	Car	Car SUV	2009	74.0%	21.9%		100.0%			100.0%			53.4%	53.4%	4.8%		41.1%	58.9%
GM	Car	Car SUV	2010	66.1%	33.9%		100.0%		98.1%	1.9%			100.0%	100.0%			1.1%	98.9%
GM	Car	Car SUV	2011	72.0%	28.0%	0.1%	99.9%		83.1%	16.9%			100.0%	100.0%			16.6%	83.4%
GM	Car	Car SUV	2012	67.6%	32.4%		100.0%		100.0%				100.0%	100.0%				
GM	Car	Car SUV	2013	68.0%	32.0%		100.0%		96.1%	3.9%			100.0%	100.0%				



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
GM	Car	All	1975	15.1	11.8	14.4	12.8	4500		343	151	14.1	0.450	0.0333	34.0		
GM	Car	All	1976	16.6	13.0	15.7	14.1	4401		330	148	14.1	0.461	0.0333	36.5		
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
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
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
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
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
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
GM	Car	All	1983	23.5	17.8	23.7	20.1	3449	116.6	222	117	13.8	0.552	0.0336	40.7	2779	4752
GM	Car	All	1984	24.4	18.5	24.7	20.8	3349	112.4	209	115	13.7	0.583	0.0341	41.1	2785	4622
GM	Car	All	1985	25.5	19.1	26.1	21.8	3328	113.8	207	117	13.5	0.592	0.0348	42.5	2946	4851
GM	Car	All	1986	27.0	20.2	27.6	23.0	3177	111.2	190	115	13.2	0.635	0.0359	43.0	3060	4804
GM	Car	All	1987	27.2	20.1	27.9	23.1	3197	111.9	192	123	12.7	0.666	0.0380	43.6	3100	4894
GM	Car	All	1988	28.1	20.6	28.8	23.8	3163	111.2	181	122	12.6	0.700	0.0382	44.5	3180	4974
GM	Car	All	1989	27.4	19.9	28.1	23.1	3196	111.9	188	133	11.9	0.729	0.0412	43.9	3114	4922
GM	Car	All	1990	27.2	19.6	28.2	23.0	3258	110.7	184	136	11.8	0.768	0.0415	44.5	3053	4936
GM	Car	All	1991	27.0	19.3	27.8	22.7	3258	109.9	189	139	11.7	0.765	0.0421	44.1	3026	4871
GM	Car	All	1992	26.6	18.8	27.5	22.3	3313	110.7	193	146	11.3	0.787	0.0435	44.1	2996	4910
GM	Car	All	1993	27.2	19.2	27.8	22.7	3278	110.4	190	146	11.2	0.801	0.0442	44.7	3061	4956
GM	Car	All	1994	27.3	19.2	27.6	22.7	3291	109.5	186	149	11.2	0.822	0.0446	45.0	3055	4955
GM	Car	All	1995	27.2	18.9	27.7	22.6	3350	111.5	192	165	10.4	0.878	0.0486	45.6	3085	5101
GM	Car	All	1996	27.6	19.1	28.0	22.9	3356	110.4	190	167	10.3	0.892	0.0490	46.4	3097	5146
GM	Car	All	1997	27.9	19.3	28.0	23.0	3320	110.1	184	169	10.2	0.921	0.0499	46.3	3124	5123
GM	Car	All	1998	27.3	18.7	27.3	22.4	3386	111.5	192	174	10.1	0.913	0.0507	46.2	3102	5181
GM	Car	All	1999	27.2	18.6	26.9	22.3	3422	110.8	191	171	10.3	0.903	0.0493	46.5	3065	5180
GM	Car	All	2000	27.2	18.4	27.1	22.3	3476	111.8	194	175	10.3	0.906	0.0498	47.4	3101	5335
GM	Car	All	2001	27.7	18.7	27.2	22.6	3477	112.1	192	177	10.1	0.933	0.0505	48.3	3172	5449
GM	Car	All	2002	28.2	18.9	27.4	22.8	3438	111.8	195	178	9.9	0.929	0.0514	48.5	3212	5449
GM	Car	All	2003	28.4	18.9	27.6	22.9	3481	113.3	190	180	9.9	0.961	0.0513	49.5	3257	5635
GM	Car	All	2004	28.7	18.9	28.0	23.1	3458	112.5	191	184	9.7	0.973	0.0525	49.6	3302	5599
GM	Car	All	2005	28.3	18.6	27.4	22.8	3549	112.3	193	188	9.8	0.981	0.0524	50.4	3300	5688
GM	Car	All	2006	28.0	18.4	27.0	22.5	3622	112.1	196	197	9.6	1.020	0.0540	50.9	3242	5751
GM	Car	All	2007	28.4	18.7	27.3	22.8	3612	109.7	189	193	9.7	1.040	0.0532	51.4	3199	5685
GM	Car	All	2008	28.1	18.5	27.1	22.6	3707	110.5	192	203	9.6	1.074	0.0544	52.3	3205	5830
GM	Car	All	2009	29.7	19.5	28.3	23.7	3620	110.7	179	196	9.7	1.106	0.0534	54.1	3380	6024
GM	Car	All	2010	29.7	19.5	28.6	23.8	3776	111.5	185	218	9.3	1.186	0.0571	56.4	3375	6145
GM	Car	All	2011	29.8	19.5	29.0	24.0	3849	112.5	172	210	9.8	1.254	0.0540	58.0	3426	6412
GM	Car	All	2012	31.1	20.1	30.2	24.8	3804	111.5	162	210	9.8	1.317	0.0546	60.0	3666	6661
GM	Car	All	2013	32.1	20.8	31.0	25.6	3778	109.9	158	215	9.6	1.375	0.0560	61.6	3686	6700

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
GM	Car	All	1975	2.4%		7.0%				2.2%						41.6%	26.1%	32.3%
GM	Car	All	1976	2.6%		6.9%				1.7%						44.2%	27.6%	28.2%
GM	Car	All	1977	2.4%		3.9%				1.2%						39.0%	26.5%	34.5%
GM	Car	All	1978	2.4%		5.8%				1.8%		0.7%				29.5%	36.7%	33.8%
GM	Car	All	1979	4.0%		6.2%	5.3%			2.0%		2.7%				25.9%	40.5%	33.6%
GM	Car	All	1980	27.4%		12.9%	20.3%			0.3%	1.0%	4.7%				30.8%	51.5%	17.7%
GM	Car	All	1981	25.7%		9.2%	59.3%				3.9%	8.0%				26.4%	53.4%	20.2%
GM	Car	All	1982	37.2%		8.8%	91.0%				20.5%	6.3%				34.5%	44.3%	21.2%
GM	Car	All	1983	36.8%		6.9%	92.9%			0.2%	28.7%	2.1%				26.3%	47.1%	26.6%
GM	Car	All	1984	44.3%		9.0%	90.8%			0.9%	33.3%	0.9%				36.0%	42.9%	21.1%
GM	Car	All	1985	59.8%		6.4%	92.8%			17.1%	35.0%	0.2%				31.9%	42.1%	26.0%
GM	Car	All	1986	71.3%		9.1%	88.9%			25.9%	38.6%	0.0%				40.8%	37.4%	21.8%
GM	Car	All	1987	75.9%		7.6%	90.3%			37.7%	39.3%					40.1%	34.3%	25.6%
GM	Car	All	1988	86.9%		9.8%	88.4%			49.7%	38.1%		3.1%			48.7%	29.1%	22.2%
GM	Car	All	1989	87.4%	0.0%	7.9%	90.5%			55.4%	40.3%		5.1%			39.5%	35.8%	24.7%
GM	Car	All	1990	93.6%	0.1%	7.8%	91.2%			67.5%	31.4%		11.8%			39.3%	38.1%	22.6%
GM	Car	All	1991	85.6%	0.0%	10.5%	87.2%			54.9%	45.0%		8.3%			43.9%	34.5%	21.6%
GM	Car	All	1992	88.5%	0.0%	9.6%	87.6%			79.8%	20.1%		10.5%			44.4%	29.9%	25.6%
GM	Car	All	1993	90.3%		10.7%	87.8%			84.6%	15.2%		11.5%			47.4%	30.8%	21.9%
GM	Car	All	1994	86.2%		11.3%	87.3%			92.6%	7.4%		13.6%			52.0%	27.2%	20.8%
GM	Car	All	1995	87.9%		9.2%	89.6%			97.1%	2.9%		19.9%			45.6%	34.1%	20.3%
GM	Car	All	1996	88.3%		9.0%	91.0%			100.0%			25.1%			48.7%	33.9%	17.3%
GM	Car	All	1997	93.1%		8.6%	89.6%			97.6%	2.4%		28.7%			47.2%	33.8%	19.0%
GM	Car	All	1998	91.0%		7.2%	92.1%			99.6%	0.4%		25.2%			39.0%	44.0%	16.9%
GM	Car	All	1999	90.9%		6.3%	93.1%			99.7%	0.3%		29.9%			44.7%	41.6%	13.7%
GM	Car	All	2000	88.1%		4.6%	94.5%			99.8%	0.2%		24.1%	1.5%		40.3%	36.7%	23.1%
GM	Car	All	2001	87.7%		4.9%	94.4%			100.0%			26.4%	2.1%		39.6%	39.7%	20.7%
GM	Car	All	2002	92.0%		6.1%	93.9%	0.0%		100.0%			25.8%	1.2%		40.4%	35.5%	24.1%
GM	Car	All	2003	92.7%	0.6%	4.9%	93.5%	1.7%		100.0%			41.6%	3.5%		35.0%	39.1%	25.9%
GM	Car	All	2004	91.7%	1.4%	5.9%	92.9%	1.2%		100.0%			46.1%	8.4%		37.9%	33.0%	29.1%
GM	Car	All	2005	86.4%	5.9%	4.9%	95.1%			100.0%			36.2%	11.0%		32.3%	32.7%	35.0%
GM	Car	All	2006	88.1%	4.0%	5.9%	94.1%			100.0%			48.6%	22.2%		39.5%	27.0%	33.6%
GM	Car	All	2007	89.2%	2.8%	5.7%	94.3%		0.3%	99.7%			46.9%	44.5%	0.5%	43.0%	25.7%	31.3%
GM	Car	All	2008	87.2%	4.6%	4.1%	95.9%		2.6%	97.4%			54.0%	57.7%	0.3%	36.1%	29.4%	34.4%
GM	Car	All	2009	87.8%	4.2%	4.7%	95.3%		3.0%	97.0%			67.3%	77.3%	0.8%	43.4%	28.8%	27.8%
GM	Car	All	2010	76.1%	9.6%	5.0%	95.0%		35.7%	64.3%			76.8%	94.7%	0.0%	35.1%	25.9%	39.0%
GM	Car	All	2011	78.4%	10.7%	3.3%	96.7%		42.0%	58.0%			80.7%	94.5%		11.5%	47.0%	41.5%
GM	Car	All	2012	80.2%	11.4%	4.5%	95.5%		60.4%	39.6%			97.3%	98.3%	1.2%			
GM	Car	All	2013	75.5%	11.3%	7.6%	92.4%		68.3%	31.7%			96.9%	97.8%	4.8%			



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
GM	Truck	Van	1991	20.8	15.5	20.1	17.4	4289		262	156	13.1	0.600	0.0362	44.9		
GM	Truck	Van	1992	20.8	15.4	20.1	17.4	4304		266	165	12.6	0.623	0.0382	45.1		
GM	Truck	Van	1993	20.7	15.2	20.0	17.3	4364		269	173	12.2	0.647	0.0396	45.3		
GM	Truck	Van	1994	21.0	15.3	20.3	17.5	4316		265	174	12.0	0.662	0.0403	45.5		
GM	Truck	Van	1995	20.6	14.9	19.8	17.1	4337		269	179	11.7	0.674	0.0414	44.9		
GM	Truck	Van	1996	21.5	15.5	20.5	17.7	4419		257	194	11.1	0.769	0.0439	47.5		
GM	Truck	Van	1997	21.9	15.7	20.8	18.0	4354		248	201	10.6	0.825	0.0463	47.7		
GM	Truck	Van	1998	22.2	15.8	21.1	18.2	4291		240	199	10.6	0.844	0.0465	47.6		
GM	Truck	Van	1999	22.0	15.5	20.9	18.0	4327		243	193	10.9	0.810	0.0447	47.7		
GM	Truck	Van	2000	22.1	15.5	20.8	18.0	4323		241	193	10.9	0.813	0.0447	48.0		
GM	Truck	Van	2001	22.9	15.9	21.9	18.7	4275		234	193	10.8	0.838	0.0453	49.3		
GM	Truck	Van	2002	22.3	15.4	21.3	18.2	4307		235	193	10.9	0.834	0.0449	48.6		
GM	Truck	Van	2003	23.2	15.8	22.1	18.8	4347		228	195	10.9	0.860	0.0449	50.5		
GM	Truck	Van	2004	23.1	15.6	21.9	18.6	4360		232	197	10.8	0.855	0.0453	50.4		
GM	Truck	Van	2005	22.6	15.3	21.2	18.2	4532		231	200	11.0	0.874	0.0442	51.5		
GM	Truck	Van	2006	22.9	15.4	21.6	18.4	4715		231	208	11.1	0.903	0.0440	54.0		
GM	Truck	Van	2007	22.6	15.2	21.5	18.2	4726		251	237	10.0	0.947	0.0503	53.5		
GM	Truck	Van	2008	22.8	15.3	21.6	18.4	4704		250	238	9.9	0.959	0.0508	53.7		
GM	Truck	Van	2009	20.0	13.9	18.1	16.0	5271		285	233	11.2	0.809	0.0438	52.8		
GM	Truck	Van	2010	20.1	13.9	18.4	16.2	5342		289	241	11.1	0.826	0.0447	53.8		
GM	Truck	Van	2011	19.7	13.6	18.1	15.8	5451		294	248	11.0	0.833	0.0451	53.7		
GM	Truck	Van	2012	20.1	13.9	18.5	16.2	5342		286	237	11.3	0.819	0.0440	53.8		
GM	Truck	Van	2013	20.0	13.8	18.4	16.1	5365		291	247	11.0	0.838	0.0456	53.7		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	32.8%	3.1%		96.1%				99.8%	0.2%					99.6%	0.4%
GM	Truck	Van	1991	24.9%	5.4%		100.0%				99.7%	0.3%					99.4%	0.6%
GM	Truck	Van	1992	26.1%	5.1%		100.0%			19.6%	80.2%	0.2%					99.4%	0.6%
GM	Truck	Van	1993	22.4%	6.4%		100.0%			25.4%	74.6%						99.2%	0.8%
GM	Truck	Van	1994	27.2%	8.4%		100.0%			36.4%	63.6%						99.4%	0.6%
GM	Truck	Van	1995	25.4%	7.5%		100.0%			61.5%	38.5%						98.8%	1.2%
GM	Truck	Van	1996	25.1%	10.1%		100.0%			100.0%			2.0%				83.1%	16.9%
GM	Truck	Van	1997	40.2%	8.5%		100.0%			100.0%			0.5%				85.2%	14.8%
GM	Truck	Van	1998	51.1%	7.0%		100.0%			100.0%			0.5%				87.0%	13.0%
GM	Truck	Van	1999	49.3%	6.6%		100.0%			100.0%			0.2%				82.4%	17.6%
GM	Truck	Van	2000	49.0%	7.5%		100.0%			100.0%							83.9%	16.1%
GM	Truck	Van	2001	59.7%	5.3%		100.0%			100.0%							83.6%	16.4%
GM	Truck	Van	2002	55.1%	10.6%		100.0%			100.0%							83.3%	16.7%
GM	Truck	Van	2003	59.4%	15.9%		100.0%			100.0%							85.5%	14.5%
GM	Truck	Van	2004	59.8%	9.5%		100.0%			100.0%							80.3%	19.7%
GM	Truck	Van	2005	64.0%	9.3%		100.0%			100.0%							84.3%	15.7%
GM	Truck	Van	2006	68.0%	8.9%		100.0%			100.0%				3.0%			74.1%	25.9%
GM	Truck	Van	2007	69.0%	3.9%		100.0%			100.0%				69.0%			69.0%	31.0%
GM	Truck	Van	2008	73.3%	3.8%		100.0%			100.0%				73.3%			74.3%	25.7%
GM	Truck	Van	2009		16.4%		100.0%			100.0%								100.0%
GM	Truck	Van	2010		20.5%		100.0%			100.0%				43.6%				100.0%
GM	Truck	Van	2011		21.2%		100.0%			100.0%				49.0%				100.0%
GM	Truck	Van	2012		15.3%		100.0%			100.0%				36.8%				
GM	Truck	Van	2013		11.9%		100.0%			100.0%				45.2%				



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
GM	Truck	Truck SUV	1975	11.7	9.9	10.0	9.9	4896		354	162	13.9	0.457	0.0331	28.9		
GM	Truck	Truck SUV	1976	13.0	10.6	11.7	11.0	4931		361	153	14.7	0.421	0.0310	32.1		
GM	Truck	Truck SUV	1977	14.6	11.9	13.1	12.4	4703		359	158	13.8	0.439	0.0335	34.7		
GM	Truck	Truck SUV	1978	14.0	11.4	12.6	11.9	4711		356	165	13.2	0.464	0.0351	33.2		
GM	Truck	Truck SUV	1979	11.3	9.5	9.6	9.5	5169		371	149	15.9	0.399	0.0286	29.2		
GM	Truck	Truck SUV	1980	14.5	11.5	13.5	12.4	5071		341	161	14.3	0.474	0.0319	36.9		
GM	Truck	Truck SUV	1981	16.2	12.8	15.0	13.7	5013		317	159	14.4	0.502	0.0317	40.7		
GM	Truck	Truck SUV	1982	19.2	14.9	18.6	16.4	5260		333	147	16.1	0.446	0.0283	51.8		
GM	Truck	Truck SUV	1983	20.2	15.5	20.0	17.3	4507		248	129	15.6	0.555	0.0286	45.9		
GM	Truck	Truck SUV	1984	20.0	15.3	19.9	17.1	4420		237	128	15.5	0.572	0.0289	44.4		
GM	Truck	Truck SUV	1985	20.1	15.3	20.2	17.2	4348		226	126	15.6	0.585	0.0287	43.9		
GM	Truck	Truck SUV	1986	19.4	14.9	19.0	16.5	4290		222	130	14.9	0.628	0.0302	41.8		
GM	Truck	Truck SUV	1987	19.3	14.6	19.0	16.3	4393		230	149	13.9	0.670	0.0334	42.2		
GM	Truck	Truck SUV	1988	19.4	14.8	18.7	16.4	4463		248	157	13.3	0.660	0.0351	43.2		
GM	Truck	Truck SUV	1989	20.0	15.1	19.1	16.8	4406		265	165	12.7	0.640	0.0373	43.8		
GM	Truck	Truck SUV	1990	19.6	14.8	18.7	16.5	4431		255	158	13.2	0.652	0.0353	43.0		
GM	Truck	Truck SUV	1991	20.5	15.4	19.7	17.2	4179		252	156	12.7	0.636	0.0373	42.8		
GM	Truck	Truck SUV	1992	19.2	14.2	18.6	16.1	4349		258	171	12.3	0.680	0.0393	41.6		
GM	Truck	Truck SUV	1993	19.4	14.3	18.6	16.2	4622		277	193	11.6	0.722	0.0424	44.6		
GM	Truck	Truck SUV	1994	19.4	14.3	18.4	16.1	4731		270	192	11.9	0.738	0.0407	45.8		
GM	Truck	Truck SUV	1995	19.4	14.2	18.4	16.1	4701		270	187	11.9	0.728	0.0401	45.5		
GM	Truck	Truck SUV	1996	19.8	14.3	18.8	16.3	4786		281	207	11.3	0.752	0.0429	47.1		
GM	Truck	Truck SUV	1997	19.4	13.9	18.5	16.0	4935		294	216	11.2	0.745	0.0435	47.7		
GM	Truck	Truck SUV	1998	20.3	14.5	19.3	16.7	4625		272	205	11.1	0.766	0.0441	46.8		
GM	Truck	Truck SUV	1999	19.8	14.2	18.4	16.2	4688		280	213	10.9	0.777	0.0451	46.2		
GM	Truck	Truck SUV	2000	19.5	13.9	18.0	15.9	4966		282	220	11.0	0.792	0.0441	48.3		
GM	Truck	Truck SUV	2001	18.8	13.5	17.0	15.2	5192		294	241	10.6	0.824	0.0461	48.5		
GM	Truck	Truck SUV	2002	19.4	13.5	18.4	15.8	5149		283	267	9.7	0.955	0.0520	49.9		
GM	Truck	Truck SUV	2003	19.1	13.3	18.0	15.5	5288		287	268	9.9	0.946	0.0507	50.5		
GM	Truck	Truck SUV	2004	19.4	13.4	18.2	15.7	5309		291	277	9.6	0.966	0.0525	51.4		
GM	Truck	Truck SUV	2005	19.5	13.3	18.2	15.7	5398		293	285	9.5	0.986	0.0531	52.5		
GM	Truck	Truck SUV	2006	20.2	13.8	18.8	16.3	5101		271	273	9.5	1.019	0.0537	51.3		
GM	Truck	Truck SUV	2007	20.4	13.8	19.4	16.5	5574		301	304	9.3	1.020	0.0547	56.9		
GM	Truck	Truck SUV	2008	21.2	14.3	20.3	17.2	5315		275	290	9.3	1.071	0.0546	56.6		
GM	Truck	Truck SUV	2009	22.4	15.0	21.4	18.1	5266		259	298	9.1	1.179	0.0565	59.1		
GM	Truck	Truck SUV	2010	23.3	15.6	22.3	18.8	5355		261	298	9.1	1.177	0.0558	62.4		
GM	Truck	Truck SUV	2011	22.7	15.2	21.5	18.3	5523		275	319	8.9	1.198	0.0579	62.6		
GM	Truck	Truck SUV	2012	23.2	15.5	21.9	18.6	5396		264	307	9.0	1.196	0.0570	62.5		
GM	Truck	Truck SUV	2013	22.8	15.3	22.5	18.7	5668		293	318	9.2	1.117	0.0561	64.7		

## 2013 FE Trends Report

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Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
GM	Truck	Truck SUV	1975		74.9%	16.2%											86.1%	13.9%
GM	Truck	Truck SUV	1976		79.9%	15.8%											85.7%	14.3%
GM	Truck	Truck SUV	1977		74.4%	15.7%											84.8%	15.2%
GM	Truck	Truck SUV	1978		81.3%	14.8%											85.2%	14.8%
GM	Truck	Truck SUV	1979		42.6%	14.2%											32.9%	67.1%
GM	Truck	Truck SUV	1980		61.2%	13.8%	86.2%										59.1%	40.9%
GM	Truck	Truck SUV	1981		65.5%	7.7%	92.3%										60.3%	39.7%
GM	Truck	Truck SUV	1982		63.1%	8.3%	91.7%					47.9%					58.0%	42.0%
GM	Truck	Truck SUV	1983		84.8%	23.0%	77.0%					13.9%					78.2%	21.8%
GM	Truck	Truck SUV	1984		85.5%	22.7%	77.3%					6.2%					79.2%	20.8%
GM	Truck	Truck SUV	1985		87.2%	19.9%	80.1%				2.2%	3.1%					81.4%	18.6%
GM	Truck	Truck SUV	1986		86.5%	32.9%	67.1%				40.5%	4.0%					79.9%	20.1%
GM	Truck	Truck SUV	1987		86.6%	20.4%	79.6%				87.3%	1.3%					79.0%	21.0%
GM	Truck	Truck SUV	1988		86.5%	18.1%	81.9%			20.2%	78.8%	1.0%					77.1%	22.9%
GM	Truck	Truck SUV	1989		87.5%	16.9%	83.1%			11.9%	87.4%	0.7%				5.3%	72.7%	22.0%
GM	Truck	Truck SUV	1990		81.5%	25.6%	74.4%			10.2%	88.9%	0.9%				17.8%	49.9%	32.3%
GM	Truck	Truck SUV	1991		92.1%	15.4%	84.6%			3.6%	95.8%	0.5%				7.9%	78.6%	13.5%
GM	Truck	Truck SUV	1992		90.7%	16.6%	83.4%			27.9%	72.1%					8.7%	66.0%	25.4%
GM	Truck	Truck SUV	1993		85.8%	9.8%	90.2%			55.8%	44.2%					6.2%	56.5%	37.3%
GM	Truck	Truck SUV	1994		87.6%	9.8%	90.2%			60.7%	39.3%		12.7%			6.4%	59.6%	34.0%
GM	Truck	Truck SUV	1995		89.6%	8.1%	91.9%			64.4%	35.6%		21.0%			5.4%	58.9%	35.7%
GM	Truck	Truck SUV	1996		83.3%	4.4%	95.6%			100.0%		0.0%	12.7%			6.1%	55.4%	38.5%
GM	Truck	Truck SUV	1997		81.0%	2.5%	97.5%			100.0%		0.0%	8.8%			2.9%	50.7%	46.4%
GM	Truck	Truck SUV	1998		90.0%	3.7%	96.3%			100.0%		0.0%	14.5%			10.5%	64.0%	25.6%
GM	Truck	Truck SUV	1999		63.6%	3.2%	96.8%			100.0%			11.7%			6.4%	57.1%	36.4%
GM	Truck	Truck SUV	2000		87.7%	1.5%	98.5%			100.0%			6.3%			5.4%	50.6%	44.0%
GM	Truck	Truck SUV	2001		72.2%	0.7%	99.3%			100.0%			6.2%			7.0%	27.7%	65.3%
GM	Truck	Truck SUV	2002		70.5%	0.4%	99.5%	0.1%		100.0%			40.9%	36.2%		2.9%	10.5%	86.6%
GM	Truck	Truck SUV	2003		66.6%	0.2%	98.4%	1.3%		100.0%			41.2%	36.7%		2.5%	8.2%	89.2%
GM	Truck	Truck SUV	2004		67.5%	0.0%	99.5%	0.5%		100.0%			43.3%	39.0%		0.8%	7.2%	92.0%
GM	Truck	Truck SUV	2005		67.7%	0.0%	99.8%	0.2%		100.0%			44.3%	44.1%			2.6%	97.4%
GM	Truck	Truck SUV	2006		74.8%	0.5%	99.5%			100.0%			61.6%	62.5%			4.0%	96.0%
GM	Truck	Truck SUV	2007	4.7%	61.4%	0.2%	99.8%			100.0%			27.6%	43.5%			1.9%	98.1%
GM	Truck	Truck SUV	2008	17.7%	56.8%	0.2%	98.6%	1.2%		100.0%			49.8%	62.3%	1.2%		4.8%	95.2%
GM	Truck	Truck SUV	2009	35.1%	43.2%	0.1%	97.9%	2.0%	22.8%	77.2%			63.8%	72.9%	2.0%		4.1%	95.9%
GM	Truck	Truck SUV	2010	36.1%	47.4%	0.0%	99.6%	0.4%	62.7%	37.3%			64.4%	99.8%	0.4%		1.1%	98.9%
GM	Truck	Truck SUV	2011	29.1%	55.2%	0.0%	99.6%	0.4%	52.1%	47.9%			52.6%	100.0%	0.4%		0.5%	99.5%
GM	Truck	Truck SUV	2012	35.8%	51.9%		100.0%	0.3%	62.4%	37.6%			62.4%	100.0%	0.3%			
GM	Truck	Truck SUV	2013	20.9%	54.1%		100.0%	4.2%	35.0%	65.0%			36.4%	100.0%	4.2%			



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
GM	Truck	Pickup	1975	14.3	11.4	13.4	12.2	4073		321	148	13.1	0.468	0.0362	29.6		
GM	Truck	Pickup	1976	14.6	11.7	13.3	12.4	4193		329	142	13.8	0.438	0.0338	31.1		
GM	Truck	Pickup	1977	15.2	12.5	13.4	12.9	4214		325	145	13.6	0.459	0.0345	32.5		
GM	Truck	Pickup	1978	14.7	12.2	12.8	12.5	4248		322	151	13.2	0.479	0.0355	31.9		
GM	Truck	Pickup	1979	15.2	12.6	13.4	12.9	4495		304	132	15.4	0.460	0.0294	35.0		
GM	Truck	Pickup	1980	18.5	14.7	17.1	15.7	4157		269	131	14.4	0.516	0.0314	38.9		
GM	Truck	Pickup	1981	20.0	15.9	18.5	17.0	4012		259	129	14.4	0.511	0.0318	40.5		
GM	Truck	Pickup	1982	21.9	17.2	20.7	18.6	3850		244	128	14.0	0.547	0.0334	42.3		
GM	Truck	Pickup	1983	21.3	16.6	20.5	18.2	3931		244	130	13.9	0.556	0.0332	42.2		
GM	Truck	Pickup	1984	20.7	16.1	20.0	17.6	3962		243	128	14.2	0.550	0.0323	41.3		
GM	Truck	Pickup	1985	20.4	15.9	19.6	17.4	3926		241	133	13.7	0.570	0.0337	40.4		
GM	Truck	Pickup	1986	20.8	16.3	19.7	17.7	3893		238	134	13.4	0.587	0.0345	40.8		
GM	Truck	Pickup	1987	21.3	16.4	20.5	18.1	3749		231	141	12.8	0.628	0.0370	40.2		
GM	Truck	Pickup	1988	20.4	15.5	19.6	17.2	4013		270	160	12.2	0.605	0.0393	41.2		
GM	Truck	Pickup	1989	20.5	15.6	19.7	17.3	3976		275	165	11.8	0.608	0.0409	41.0		
GM	Truck	Pickup	1990	19.2	14.5	18.4	16.1	4241		300	179	11.6	0.603	0.0419	41.0		
GM	Truck	Pickup	1991	21.4	15.9	20.6	17.9	3845		257	156	12.0	0.614	0.0400	41.2		
GM	Truck	Pickup	1992	20.3	15.0	19.6	17.0	4088		276	167	11.8	0.614	0.0406	41.6		
GM	Truck	Pickup	1993	20.2	14.8	19.4	16.8	4189		281	173	11.7	0.624	0.0413	42.2		
GM	Truck	Pickup	1994	20.0	14.7	19.1	16.6	4256		287	179	11.5	0.643	0.0420	42.9		
GM	Truck	Pickup	1995	20.2	14.7	19.1	16.7	4270		278	173	11.9	0.655	0.0403	43.6		
GM	Truck	Pickup	1996	21.3	15.4	20.3	17.6	4304		273	197	11.0	0.740	0.0452	46.2		
GM	Truck	Pickup	1997	20.5	14.7	19.6	16.9	4597		289	213	10.8	0.751	0.0459	47.2		
GM	Truck	Pickup	1998	21.1	15.0	20.1	17.3	4311		267	201	10.9	0.770	0.0457	45.9		
GM	Truck	Pickup	1999	19.8	14.2	18.4	16.2	4763		293	228	10.5	0.785	0.0477	47.1		
GM	Truck	Pickup	2000	20.8	14.9	19.2	16.9	4401		272	219	10.4	0.808	0.0489	45.9		
GM	Truck	Pickup	2001	20.4	14.5	18.7	16.5	4592		279	227	10.3	0.815	0.0488	46.7		
GM	Truck	Pickup	2002	19.1	13.5	17.5	15.4	4988		302	257	9.8	0.846	0.0515	47.5		
GM	Truck	Pickup	2003	20.1	14.0	18.4	16.2	4712		277	235	10.3	0.848	0.0492	47.2		
GM	Truck	Pickup	2004	20.0	14.0	18.1	16.1	4951		302	262	9.6	0.872	0.0530	49.5		
GM	Truck	Pickup	2005	20.4	14.1	18.8	16.4	4891		289	263	9.5	0.917	0.0537	49.9		
GM	Truck	Pickup	2006	20.7	14.3	19.0	16.6	4878		287	260	9.6	0.912	0.0531	50.4		
GM	Truck	Pickup	2007	20.3	14.0	18.8	16.4	5213		298	276	9.6	0.926	0.0528	53.0		
GM	Truck	Pickup	2008	20.9	14.3	19.4	16.8	5257		298	277	9.7	0.925	0.0524	54.8		
GM	Truck	Pickup	2009	20.8	14.2	19.5	16.8	5325		305	291	9.4	0.953	0.0545	55.4		
GM	Truck	Pickup	2010	21.5	14.5	20.3	17.3	5318		303	288	9.4	0.951	0.0540	57.2		
GM	Truck	Pickup	2011	21.4	14.5	20.3	17.3	5365		309	300	9.2	0.970	0.0558	57.6		
GM	Truck	Pickup	2012	21.8	14.7	20.7	17.6	5236		300	293	9.3	0.979	0.0558	57.1		
GM	Truck	Pickup	2013	21.0	14.2	20.7	17.3	5451		320	317	9.0	0.989	0.0582	57.6		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
GM	Truck	Pickup	1975		10.4%	35.7%										6.8%		93.2%
GM	Truck	Pickup	1976		18.6%	31.1%										4.8%		95.2%
GM	Truck	Pickup	1977		19.7%	26.5%										7.0%		93.0%
GM	Truck	Pickup	1978		27.4%	27.2%						2.4%				6.4%		93.6%
GM	Truck	Pickup	1979		5.9%	32.4%						5.4%				10.4%		89.6%
GM	Truck	Pickup	1980		21.4%	39.4%	54.7%					9.1%				17.2%		82.8%
GM	Truck	Pickup	1981		13.8%	38.6%	60.3%					8.6%				14.9%		85.1%
GM	Truck	Pickup	1982		10.5%	35.6%	64.3%					14.7%				3.5%	36.4%	60.1%
GM	Truck	Pickup	1983		22.4%	34.0%	65.8%					7.5%				3.3%	37.9%	58.8%
GM	Truck	Pickup	1984		21.9%	31.4%	68.0%					5.7%				5.8%	35.3%	58.9%
GM	Truck	Pickup	1985		21.8%	31.0%	64.7%				12.5%	2.6%				4.2%	38.8%	57.0%
GM	Truck	Pickup	1986		22.2%	34.5%	59.2%				31.0%	2.1%				12.1%	30.3%	57.6%
GM	Truck	Pickup	1987		23.6%	36.3%	54.5%				88.4%	1.0%					54.8%	45.2%
GM	Truck	Pickup	1988		27.7%	29.1%	61.7%			1.4%	95.8%	0.5%					36.7%	63.3%
GM	Truck	Pickup	1989		27.0%	33.2%	64.2%			1.9%	94.8%	0.4%					39.4%	60.6%
GM	Truck	Pickup	1990		31.4%	29.4%	63.8%			2.6%	92.1%	0.5%					21.3%	78.7%
GM	Truck	Pickup	1991		22.7%	45.2%	54.8%			0.7%	95.9%	0.3%					52.4%	47.6%
GM	Truck	Pickup	1992		26.2%	39.1%	60.9%			1.2%	94.2%	0.3%					35.8%	64.2%
GM	Truck	Pickup	1993	0.0%	27.6%	29.0%	71.0%			1.5%	95.9%						31.3%	68.7%
GM	Truck	Pickup	1994		33.1%	21.8%	78.2%			17.1%	80.8%						30.3%	69.7%
GM	Truck	Pickup	1995		33.5%	32.3%	67.7%			25.4%	74.6%						35.6%	64.4%
GM	Truck	Pickup	1996		30.6%	23.3%	76.7%			99.5%		0.5%					36.9%	63.1%
GM	Truck	Pickup	1997		37.1%	18.5%	81.5%			99.8%		0.2%					30.0%	70.0%
GM	Truck	Pickup	1998		36.3%	21.2%	78.8%			99.9%		0.1%					39.2%	60.8%
GM	Truck	Pickup	1999		56.9%	9.3%	90.7%			100.0%		0.0%					22.3%	77.7%
GM	Truck	Pickup	2000		41.2%	9.5%	90.5%			100.0%			0.4%				30.0%	70.0%
GM	Truck	Pickup	2001		38.8%	6.5%	93.5%			100.0%							21.9%	78.1%
GM	Truck	Pickup	2002		51.4%	2.3%	97.7%			100.0%							15.4%	84.6%
GM	Truck	Pickup	2003		42.5%	6.3%	93.7%			100.0%							28.4%	71.6%
GM	Truck	Pickup	2004		50.3%	2.8%	97.2%			100.0%			13.3%	13.3%	0.0%		9.5%	90.5%
GM	Truck	Pickup	2005		48.7%	4.3%	95.7%			100.0%			21.6%	21.6%	0.1%		10.9%	89.1%
GM	Truck	Pickup	2006		44.7%	4.3%	95.7%			100.0%			19.1%	19.1%	0.4%		9.7%	90.3%
GM	Truck	Pickup	2007		45.3%	1.8%	98.2%			100.0%			5.3%	11.4%	0.1%		5.7%	94.3%
GM	Truck	Pickup	2008		50.6%	1.0%	99.0%			100.0%			5.3%	14.7%			7.3%	92.7%
GM	Truck	Pickup	2009		50.9%	0.8%	98.6%	0.5%		100.0%			8.8%	9.9%	0.5%		4.7%	95.3%
GM	Truck	Pickup	2010		60.5%	0.4%	99.1%	0.4%		100.0%			10.1%	92.3%	0.4%		1.9%	98.1%
GM	Truck	Pickup	2011		62.5%	0.2%	99.5%	0.3%		100.0%			5.6%	92.4%	0.3%		1.4%	98.6%
GM	Truck	Pickup	2012		61.9%	0.4%	99.6%	0.2%		100.0%			14.5%	92.7%	0.2%			
GM	Truck	Pickup	2013		59.1%		100.0%	0.9%		100.0%				93.6%	0.9%			



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
GM	Truck	All	1975	14.1	11.3	12.9	12.0	4159		321	147	13.4	0.464	0.0354	29.7		
GM	Truck	All	1976	14.3	11.6	13.0	12.2	4266		331	142	13.9	0.435	0.0334	31.1		
GM	Truck	All	1977	15.1	12.5	13.3	12.8	4267		328	146	13.7	0.454	0.0343	32.7		
GM	Truck	All	1978	14.5	12.0	12.7	12.3	4302		326	152	13.2	0.476	0.0355	31.9		
GM	Truck	All	1979	14.5	12.0	12.6	12.3	4585		314	134	15.5	0.447	0.0292	34.1		
GM	Truck	All	1980	17.9	14.2	16.6	15.2	4252		278	135	14.4	0.509	0.0317	38.4		
GM	Truck	All	1981	19.4	15.5	18.0	16.5	4118		266	132	14.3	0.510	0.0320	40.4		
GM	Truck	All	1982	21.0	16.6	19.8	17.9	4030		257	132	14.1	0.535	0.0331	42.6		
GM	Truck	All	1983	20.6	16.1	19.8	17.6	4144		257	134	14.2	0.546	0.0325	43.0		
GM	Truck	All	1984	20.1	15.6	19.4	17.1	4158		252	132	14.4	0.544	0.0317	41.9		
GM	Truck	All	1985	20.0	15.5	19.3	17.0	4098		246	136	14.0	0.568	0.0330	41.3		
GM	Truck	All	1986	20.1	15.7	19.1	17.1	4068		245	137	13.7	0.585	0.0338	41.1		
GM	Truck	All	1987	20.4	15.6	19.6	17.3	4029		245	151	12.8	0.629	0.0370	41.1		
GM	Truck	All	1988	20.2	15.4	19.4	17.0	4140		269	161	12.4	0.612	0.0386	41.9		
GM	Truck	All	1989	20.3	15.4	19.5	17.1	4120		276	166	12.1	0.609	0.0399	42.0		
GM	Truck	All	1990	19.7	14.8	18.9	16.6	4281		280	168	12.4	0.612	0.0390	42.4		
GM	Truck	All	1991	21.1	15.7	20.3	17.7	4006		257	156	12.4	0.616	0.0386	42.3		
GM	Truck	All	1992	20.2	15.0	19.5	16.9	4195		270	167	12.1	0.629	0.0397	42.5		
GM	Truck	All	1993	20.1	14.8	19.4	16.8	4329		277	178	11.8	0.652	0.0411	43.5		
GM	Truck	All	1994	20.1	14.7	19.1	16.7	4388		278	181	11.7	0.671	0.0413	44.2		
GM	Truck	All	1995	20.0	14.6	19.0	16.6	4420		273	179	11.9	0.682	0.0405	44.5		
GM	Truck	All	1996	20.7	15.0	19.7	17.1	4503		274	200	11.1	0.748	0.0442	46.7		
GM	Truck	All	1997	20.4	14.6	19.4	16.8	4662		282	211	10.9	0.764	0.0452	47.5		
GM	Truck	All	1998	21.1	15.0	20.0	17.3	4394		263	201	10.9	0.785	0.0454	46.5		
GM	Truck	All	1999	20.2	14.4	18.8	16.5	4656		280	217	10.7	0.788	0.0464	47.0		
GM	Truck	All	2000	20.6	14.7	19.1	16.8	4559		269	214	10.7	0.804	0.0466	47.0		
GM	Truck	All	2001	20.0	14.3	18.4	16.2	4786		278	227	10.5	0.823	0.0471	47.9		
GM	Truck	All	2002	19.6	13.7	18.3	15.9	4993		284	255	9.9	0.902	0.0510	48.9		
GM	Truck	All	2003	20.0	13.9	18.7	16.2	4933		275	245	10.2	0.896	0.0493	49.2		
GM	Truck	All	2004	19.9	13.8	18.4	16.1	5085		290	264	9.7	0.919	0.0521	50.6		
GM	Truck	All	2005	20.2	13.9	18.8	16.3	5075		284	266	9.7	0.942	0.0523	51.2		
GM	Truck	All	2006	20.7	14.2	19.1	16.6	4954		275	260	9.7	0.955	0.0525	51.1		
GM	Truck	All	2007	20.5	13.9	19.3	16.5	5365		297	288	9.5	0.974	0.0536	55.0		
GM	Truck	All	2008	21.2	14.3	20.0	17.1	5244		284	280	9.5	0.997	0.0533	55.5		
GM	Truck	All	2009	21.4	14.5	20.2	17.3	5299		285	293	9.3	1.047	0.0551	56.9		
GM	Truck	All	2010	22.3	15.0	21.2	18.0	5336		282	292	9.3	1.057	0.0547	59.6		
GM	Truck	All	2011	22.0	14.8	20.9	17.8	5446		292	309	9.1	1.083	0.0567	60.1		
GM	Truck	All	2012	22.4	15.1	21.2	18.1	5320		281	299	9.2	1.086	0.0561	59.8		
GM	Truck	All	2013	21.7	14.7	21.4	17.9	5544		308	316	9.1	1.042	0.0570	60.6		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
GM	Truck	All	1975		14.6%	32.3%										5.2%	21.4%	73.3%
GM	Truck	All	1976		22.1%	28.4%										3.8%	20.3%	75.9%
GM	Truck	All	1977		22.6%	24.0%										5.5%	19.2%	75.2%
GM	Truck	All	1978		28.1%	23.3%						1.8%				4.8%	24.1%	71.2%
GM	Truck	All	1979		9.7%	27.9%						4.0%				7.8%	17.2%	75.0%
GM	Truck	All	1980		21.9%	35.0%	59.8%					7.3%				13.7%	17.1%	69.2%
GM	Truck	All	1981		14.7%	33.2%	65.9%					6.9%				12.0%	17.3%	70.7%
GM	Truck	All	1982		12.5%	29.5%	70.4%					14.9%				2.8%	46.9%	50.4%
GM	Truck	All	1983		28.6%	26.5%	73.5%					9.1%				2.1%	56.2%	41.7%
GM	Truck	All	1984		31.4%	24.6%	74.6%					5.3%				3.5%	55.8%	40.6%
GM	Truck	All	1985		32.5%	22.6%	74.9%				8.0%	2.4%				2.3%	61.1%	36.5%
GM	Truck	All	1986		30.8%	26.1%	69.1%				38.2%	2.1%				6.4%	58.6%	35.0%
GM	Truck	All	1987		32.1%	23.0%	66.4%				91.3%	0.8%					72.8%	27.2%
GM	Truck	All	1988		33.0%	21.2%	69.8%			4.7%	93.4%	0.6%					57.5%	42.5%
GM	Truck	All	1989		34.1%	22.7%	74.7%			3.6%	94.3%	0.4%				1.1%	59.5%	39.4%
GM	Truck	All	1990	10.2%	31.0%	19.6%	75.7%			3.1%	94.0%	0.5%				3.0%	50.5%	46.5%
GM	Truck	All	1991	5.0%	34.2%	29.7%	70.3%			1.2%	96.7%	0.4%				1.7%	67.4%	30.9%
GM	Truck	All	1992	6.9%	33.1%	24.5%	75.5%			11.1%	86.3%	0.2%				1.7%	58.3%	40.0%
GM	Truck	All	1993	5.4%	35.6%	17.6%	82.4%			19.6%	79.1%					1.4%	53.5%	45.1%
GM	Truck	All	1994	5.5%	41.9%	14.4%	85.6%			32.0%	66.9%		3.2%			1.6%	51.6%	46.8%
GM	Truck	All	1995	6.0%	44.8%	17.1%	82.9%			46.0%	54.0%		6.5%			1.7%	57.7%	40.6%
GM	Truck	All	1996	3.3%	48.0%	13.0%	87.0%			99.8%		0.2%	5.1%			2.3%	50.1%	47.6%
GM	Truck	All	1997	8.3%	46.2%	9.2%	90.8%			99.9%		0.1%	3.1%			1.0%	48.5%	50.5%
GM	Truck	All	1998	11.1%	44.9%	11.7%	88.3%			99.9%		0.1%	4.1%			2.9%	56.4%	40.7%
GM	Truck	All	1999	9.9%	48.6%	5.9%	94.1%			100.0%		0.0%	3.1%			1.7%	43.4%	54.9%
GM	Truck	All	2000	9.7%	48.8%	5.2%	94.8%			100.0%			2.1%			1.7%	47.1%	51.3%
GM	Truck	All	2001	9.7%	47.1%	3.1%	96.9%			100.0%			2.6%			2.9%	34.3%	62.8%
GM	Truck	All	2002	6.5%	56.7%	1.0%	98.9%	0.1%		100.0%			21.7%	19.2%		1.5%	20.8%	77.7%
GM	Truck	All	2003	8.3%	50.2%	2.6%	96.8%	0.6%		100.0%			19.5%	17.4%		1.2%	26.9%	71.9%
GM	Truck	All	2004	5.2%	55.7%	1.1%	98.6%	0.3%		100.0%			27.7%	25.4%	0.0%	0.4%	14.4%	85.1%
GM	Truck	All	2005	7.5%	52.6%	1.9%	98.0%	0.1%		100.0%			29.2%	29.1%	0.1%		15.8%	84.2%
GM	Truck	All	2006	6.5%	53.6%	2.3%	97.7%			100.0%			34.7%	35.3%	0.2%		13.5%	86.5%
GM	Truck	All	2007	6.2%	51.0%	0.9%	99.1%			100.0%			16.1%	30.6%	0.0%		7.3%	92.7%
GM	Truck	All	2008	13.8%	50.1%	0.5%	98.9%	0.6%		100.0%			25.9%	41.5%	0.6%		11.0%	89.0%
GM	Truck	All	2009	15.0%	46.9%	0.5%	98.3%	1.1%	9.8%	90.2%			32.2%	36.7%	1.1%		4.4%	95.6%
GM	Truck	All	2010	17.4%	53.2%	0.2%	99.4%	0.4%	30.2%	69.8%			36.1%	94.8%	0.4%		1.5%	98.5%
GM	Truck	All	2011	14.6%	58.3%	0.1%	99.6%	0.3%	26.3%	73.7%			29.2%	95.7%	0.3%		0.9%	99.1%
GM	Truck	All	2012	18.2%	55.7%	0.2%	99.8%	0.2%	31.7%	68.3%			38.5%	95.1%	0.2%			
GM	Truck	All	2013	9.2%	55.8%		100.0%	2.3%	15.4%	84.6%			16.0%	95.3%	2.3%			



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
GM	All	All	1975	14.9	11.7	14.0	12.7	4432		338	150	13.9	0.453	0.0337	33.2		
GM	All	All	1976	16.1	12.7	15.1	13.7	4373		330	147	14.0	0.455	0.0333	35.4		
GM	All	All	1977	17.2	13.7	15.9	14.6	4201	116.1	317	145	13.6	0.464	0.0345	36.4	2080	4328
GM	All	All	1978	17.8	14.2	16.6	15.2	3898	115.0	297	139	13.3	0.477	0.0355	35.3	2223	4180
GM	All	All	1979	18.0	14.4	16.5	15.3	3928	115.6	290	135	13.7	0.483	0.0345	35.8	2246	4199
GM	All	All	1980	21.3	16.6	20.4	18.1	3495	111.4	232	116	13.9	0.533	0.0334	37.3	2474	4168
GM	All	All	1981	22.6	17.5	21.9	19.3	3538	113.9	232	114	14.4	0.519	0.0321	40.1	2677	4598
GM	All	All	1982	23.5	18.0	23.4	20.1	3490	114.2	221	115	14.2	0.551	0.0328	41.3	2813	4712
GM	All	All	1983	22.9	17.5	22.9	19.5	3582	116.6	229	120	13.9	0.551	0.0334	41.1	2779	4752
GM	All	All	1984	23.5	17.9	23.5	20.0	3498	112.4	217	118	13.8	0.576	0.0337	41.2	2785	4622
GM	All	All	1985	24.0	18.2	24.2	20.5	3497	113.8	215	121	13.6	0.587	0.0344	42.2	2946	4851
GM	All	All	1986	25.1	19.0	25.2	21.4	3366	111.2	202	120	13.3	0.624	0.0354	42.6	3060	4804
GM	All	All	1987	25.3	18.9	25.5	21.4	3386	111.9	204	129	12.7	0.658	0.0377	43.0	3100	4894
GM	All	All	1988	25.2	18.8	25.3	21.3	3444	111.2	206	133	12.5	0.675	0.0384	43.8	3180	4974
GM	All	All	1989	24.8	18.3	24.8	20.9	3477	111.9	215	143	11.9	0.693	0.0408	43.3	3114	4922
GM	All	All	1990	24.5	17.9	24.6	20.6	3560	110.7	212	146	12.0	0.722	0.0408	43.8	3053	4936
GM	All	All	1991	24.8	18.0	24.9	20.8	3500	109.9	211	144	11.9	0.716	0.0410	43.5	3026	4871
GM	All	All	1992	24.2	17.4	24.5	20.3	3585	110.7	217	152	11.6	0.738	0.0423	43.6	2996	4910
GM	All	All	1993	24.3	17.5	24.3	20.3	3631	110.4	219	157	11.4	0.751	0.0432	44.3	3061	4956
GM	All	All	1994	24.1	17.3	23.7	20.0	3700	109.5	221	161	11.4	0.765	0.0434	44.7	3055	4955
GM	All	All	1995	23.9	17.0	23.6	19.8	3760	111.5	223	170	10.9	0.803	0.0455	45.2	3085	5101
GM	All	All	1996	24.7	17.4	24.3	20.4	3766	110.4	220	179	10.6	0.841	0.0473	46.5	3097	5146
GM	All	All	1997	24.4	17.1	23.9	20.1	3841	110.1	222	185	10.5	0.860	0.0481	46.8	3124	5123
GM	All	All	1998	24.5	17.1	23.9	20.1	3781	111.5	220	185	10.4	0.863	0.0486	46.4	3102	5181
GM	All	All	1999	23.7	16.6	22.9	19.4	3935	110.8	228	190	10.5	0.855	0.0481	46.7	3065	5180
GM	All	All	2000	23.8	16.5	22.8	19.4	3962	111.8	228	193	10.5	0.860	0.0483	47.2	3101	5335
GM	All	All	2001	23.8	16.5	22.6	19.4	4032	112.1	228	198	10.3	0.886	0.0491	48.1	3172	5449
GM	All	All	2002	23.2	15.9	22.0	18.8	4210	111.8	239	216	9.9	0.916	0.0512	48.7	3212	5449
GM	All	All	2003	23.1	15.8	21.9	18.7	4272	113.3	236	215	10.1	0.926	0.0502	49.3	3257	5635
GM	All	All	2004	23.4	15.9	22.1	18.9	4287	112.5	242	225	9.7	0.946	0.0523	50.1	3302	5599
GM	All	All	2005	23.8	16.0	22.5	19.1	4276	112.3	236	225	9.7	0.963	0.0524	50.8	3300	5688
GM	All	All	2006	24.4	16.4	23.0	19.6	4183	112.1	229	224	9.6	0.993	0.0534	51.0	3242	5751
GM	All	All	2007	23.8	15.9	22.6	19.1	4492	109.7	243	241	9.6	1.007	0.0534	53.2	3199	5685
GM	All	All	2008	24.4	16.3	23.3	19.6	4421	110.5	235	239	9.6	1.038	0.0539	53.8	3205	5830
GM	All	All	2009	25.6	17.1	24.3	20.6	4305	110.7	222	235	9.5	1.082	0.0541	55.3	3380	6024
GM	All	All	2010	26.5	17.5	25.3	21.3	4349	111.5	221	245	9.3	1.139	0.0562	57.6	3375	6145
GM	All	All	2011	25.7	17.1	24.7	20.7	4567	112.5	225	255	9.5	1.177	0.0552	58.9	3426	6412
GM	All	All	2012	27.0	17.8	25.9	21.7	4395	111.5	209	245	9.5	1.227	0.0552	59.9	3666	6661
GM	All	All	2013	27.3	18.0	26.5	22.0	4437	109.9	214	253	9.4	1.251	0.0564	61.2	3686	6700

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
GM	All	All	1975	1.9%	2.9%	12.0%				1.8%						34.3%	25.2%	40.5%
GM	All	All	1976	2.0%	4.6%	11.4%				1.3%						35.8%	26.1%	38.2%
GM	All	All	1977	1.9%	4.2%	7.6%				1.0%						32.8%	25.2%	42.0%
GM	All	All	1978	1.9%	6.0%	9.5%				1.4%		0.9%				24.2%	34.0%	41.8%
GM	All	All	1979	3.2%	2.0%	10.6%	4.2%			1.6%		2.9%				22.2%	35.8%	42.0%
GM	All	All	1980	23.9%	2.8%	15.7%	25.3%			0.3%	0.9%	5.1%				28.6%	47.1%	24.3%
GM	All	All	1981	22.2%	2.0%	12.5%	60.2%				3.3%	7.9%				24.4%	48.4%	27.2%
GM	All	All	1982	30.4%	2.3%	12.6%	87.3%				16.8%	7.8%				28.7%	44.7%	26.5%
GM	All	All	1983	29.7%	5.5%	10.6%	89.2%			0.2%	23.2%	3.4%				21.6%	48.8%	29.5%
GM	All	All	1984	36.2%	5.8%	11.8%	87.8%			0.8%	27.2%	1.7%				30.0%	45.3%	24.7%
GM	All	All	1985	46.6%	7.1%	10.0%	88.8%			13.3%	29.1%	0.7%				25.4%	46.3%	28.3%
GM	All	All	1986	56.2%	6.5%	12.7%	84.7%			20.4%	38.6%	0.4%				33.5%	41.9%	24.6%
GM	All	All	1987	58.7%	7.3%	11.1%	84.9%			29.1%	51.1%	0.2%				31.0%	43.0%	25.9%
GM	All	All	1988	61.9%	9.5%	13.1%	83.1%			36.7%	54.0%	0.2%	2.2%			34.7%	37.2%	28.1%
GM	All	All	1989	60.9%	10.4%	12.4%	85.7%			39.7%	56.7%	0.1%	3.5%			27.9%	43.0%	29.1%
GM	All	All	1990	68.9%	9.2%	11.3%	86.6%			48.4%	49.9%	0.1%	8.3%			28.6%	41.8%	29.7%
GM	All	All	1991	59.6%	11.1%	16.7%	81.7%			37.6%	61.7%	0.1%	5.6%			30.3%	45.1%	24.6%
GM	All	All	1992	63.3%	10.2%	14.2%	83.9%			58.6%	40.5%	0.1%	7.3%			31.3%	38.7%	30.1%
GM	All	All	1993	61.8%	11.9%	13.0%	86.0%			62.8%	36.6%		7.6%			32.0%	38.4%	29.7%
GM	All	All	1994	56.1%	15.6%	12.4%	86.6%			70.0%	29.6%		9.7%			33.2%	36.3%	30.5%
GM	All	All	1995	56.5%	17.2%	12.3%	87.0%			77.5%	22.5%		14.8%			28.8%	43.2%	28.0%
GM	All	All	1996	57.9%	17.2%	10.4%	89.6%			99.9%		0.1%	18.0%			32.1%	39.7%	28.2%
GM	All	All	1997	60.2%	17.9%	8.8%	90.1%			98.5%	1.5%	0.0%	18.7%			29.3%	39.5%	31.2%
GM	All	All	1998	59.7%	17.6%	9.0%	90.6%			99.7%	0.3%	0.0%	16.9%			24.9%	48.9%	26.2%
GM	All	All	1999	57.2%	20.2%	6.1%	93.5%			99.8%	0.2%	0.0%	18.8%			26.8%	42.3%	30.8%
GM	All	All	2000	52.9%	21.9%	4.8%	94.6%			99.9%	0.1%		14.2%	0.8%		22.9%	41.3%	35.7%
GM	All	All	2001	54.6%	19.9%	4.1%	95.5%			100.0%			16.3%	1.2%		24.1%	37.4%	38.5%
GM	All	All	2002	49.5%	28.1%	3.6%	96.4%	0.1%		100.0%			23.8%	10.1%		21.1%	28.2%	50.7%
GM	All	All	2003	46.8%	27.6%	3.6%	95.3%	1.1%		100.0%			29.6%	11.0%		16.6%	32.5%	51.0%
GM	All	All	2004	47.6%	29.1%	3.5%	95.8%	0.7%		100.0%			36.7%	17.1%	0.0%	18.8%	23.6%	57.7%
GM	All	All	2005	48.8%	28.1%	3.5%	96.5%	0.0%		100.0%			32.8%	19.6%	0.0%	16.9%	24.6%	58.5%
GM	All	All	2006	53.8%	24.9%	4.4%	95.6%			100.0%			42.8%	27.8%	0.1%	22.9%	21.3%	55.9%
GM	All	All	2007	47.6%	27.0%	3.3%	96.7%		0.1%	99.9%			31.4%	37.5%	0.2%	21.4%	16.5%	62.1%
GM	All	All	2008	53.1%	25.8%	2.4%	97.3%	0.3%	1.4%	98.6%			41.0%	50.2%	0.4%	19.3%	20.9%	59.8%
GM	All	All	2009	58.1%	21.6%	3.0%	96.6%	0.5%	5.8%	94.2%			53.0%	60.8%	1.0%	25.7%	18.8%	55.5%
GM	All	All	2010	54.5%	25.6%	3.2%	96.6%	0.1%	33.7%	66.3%			61.8%	94.8%	0.2%	22.2%	16.9%	60.9%
GM	All	All	2011	49.8%	32.1%	1.9%	98.0%	0.1%	35.0%	65.0%			57.6%	95.1%	0.1%	6.3%	26.3%	67.4%
GM	All	All	2012	56.0%	28.7%	2.8%	97.2%	0.1%	49.2%	50.8%			74.3%	97.0%	0.8%			
GM	All	All	2013	50.7%	27.9%	4.8%	95.2%	0.9%	48.5%	51.5%			66.7%	96.9%	3.9%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Toyota	Car	Car	1975	22.0	17.0	21.5	18.8	2718		121	89	13.9	0.738	0.0325	30.0		
Toyota	Car	Car	1976	25.0	19.1	24.9	21.3	2735		115	85	14.5	0.741	0.0309	34.3		
Toyota	Car	Car	1977	28.7	22.3	27.8	24.5	2628	88.1	108	80	14.8	0.742	0.0301	38.2	2593	3361
Toyota	Car	Car	1978	26.8	21.0	25.6	22.8	2622	90.7	113	82	14.4	0.741	0.0313	35.8	2491	3233
Toyota	Car	Car	1979	24.0	18.7	23.1	20.5	2701	88.1	113	81	14.9	0.730	0.0299	32.7	2166	2882
Toyota	Car	Car	1980	27.4	21.7	25.7	23.3	2620	91.0	115	78	14.9	0.682	0.0298	36.2	2561	3295
Toyota	Car	Car	1981	30.9	24.6	28.7	26.3	2557	90.5	114	76	15.1	0.667	0.0294	39.8	2851	3595
Toyota	Car	Car	1982	30.4	24.0	28.7	25.9	2575	91.4	118	81	14.7	0.682	0.0308	39.3	2829	3591
Toyota	Car	Car	1983	32.6	25.9	30.4	27.7	2663	96.2	115	85	14.6	0.728	0.0311	43.6	3221	4196
Toyota	Car	Car	1984	32.9	26.0	30.9	28.0	2697	99.8	116	87	14.5	0.740	0.0316	44.6	3372	4455
Toyota	Car	Car	1985	32.8	25.9	31.1	28.0	2708	101.6	116	91	14.2	0.774	0.0329	44.6	3420	4544
Toyota	Car	Car	1986	32.3	25.2	30.5	27.3	2761	98.4	115	97	13.6	0.833	0.0345	44.7	3240	4397
Toyota	Car	Car	1987	32.9	25.4	31.2	27.8	2831	98.7	115	107	12.9	0.916	0.0369	46.7	3320	4616
Toyota	Car	Car	1988	32.7	25.2	30.6	27.5	2786	96.3	111	105	12.7	0.932	0.0371	45.6	3192	4396
Toyota	Car	Car	1989	31.8	24.3	29.8	26.7	2836	96.3	115	110	12.4	0.952	0.0383	45.2	3113	4359
Toyota	Car	Car	1990	30.4	23.0	28.5	25.4	2961	97.1	122	121	12.0	0.994	0.0402	45.1	2993	4387
Toyota	Car	Car	1991	30.6	23.0	28.5	25.4	2921	97.3	120	120	11.9	0.999	0.0405	44.7	3023	4363
Toyota	Car	Car	1992	28.9	21.5	27.2	24.0	3096	101.9	129	131	11.8	1.017	0.0415	44.6	2989	4558
Toyota	Car	Car	1993	29.0	21.2	27.5	24.0	3142	104.7	132	138	11.4	1.039	0.0430	45.5	3091	4774
Toyota	Car	Car	1994	29.1	21.1	27.6	24.0	3145	104.8	131	131	11.8	1.002	0.0412	45.6	3094	4792
Toyota	Car	Car	1995	30.0	21.6	28.6	24.7	3177	105.9	135	139	11.4	1.030	0.0431	47.7	3222	5056
Toyota	Car	Car	1996	29.5	21.1	27.9	24.2	3204	107.1	134	134	11.8	0.997	0.0414	47.3	3196	5066
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
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
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
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
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
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
Toyota	Car	Car	2003	32.4	21.9	30.1	25.8	3200	111.0	140	159	10.1	1.142	0.0493	52.3	3668	5808
Toyota	Car	Car	2004	32.7	21.9	30.2	25.9	3295	111.8	143	162	10.1	1.131	0.0485	55.1	3808	6162
Toyota	Car	Car	2005	34.7	23.1	31.4	27.2	3223	110.6	137	153	10.3	1.114	0.0468	57.9	4050	6424
Toyota	Car	Car	2006	34.5	23.0	31.1	27.0	3236	108.7	138	158	10.3	1.128	0.0476	57.3	3935	6256
Toyota	Car	Car	2007	34.9	23.3	31.5	27.3	3362	109.8	145	169	9.9	1.138	0.0490	60.7	4052	6691
Toyota	Car	Car	2008	36.0	24.2	31.9	28.1	3322	108.9	141	164	9.9	1.125	0.0478	62.9	4242	6886
Toyota	Car	Car	2009	36.3	24.3	32.4	28.3	3315	109.8	134	154	10.4	1.141	0.0457	61.8	4145	6800
Toyota	Car	Car	2010	39.4	26.5	34.2	30.4	3335	109.3	131	152	10.2	1.141	0.0450	71.3	4707	7874
Toyota	Car	Car	2011	36.6	24.3	33.1	28.6	3470	112.2	145	171	9.8	1.159	0.0485	67.8	4410	7624
Toyota	Car	Car	2012	40.9	27.4	35.3	31.4	3388	112.8	138	157	10.0	1.119	0.0457	74.0	4961	8400
Toyota	Car	Car	2013	41.2	27.7	35.2	31.5	3410	110.5	140	163	9.8	1.134	0.0468	76.8	5033	8554

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Toyota	Car	Car	1975			68.3%										100.0%		
Toyota	Car	Car	1976			62.0%										100.0%		
Toyota	Car	Car	1977			74.8%										100.0%		
Toyota	Car	Car	1978			68.2%										100.0%		
Toyota	Car	Car	1979			64.3%				5.9%						100.0%		
Toyota	Car	Car	1980	18.1%		63.4%				5.2%						100.0%		
Toyota	Car	Car	1981	20.4%		58.7%				6.4%						100.0%		
Toyota	Car	Car	1982	25.0%		56.5%	4.2%			12.8%						100.0%		
Toyota	Car	Car	1983	28.3%	31.5%	56.7%	11.9%			38.7%						100.0%		
Toyota	Car	Car	1984	54.4%	5.5%	47.7%	38.7%			44.4%		1.8%				100.0%		
Toyota	Car	Car	1985	35.6%	25.5%	45.2%	44.8%			51.5%		0.5%				99.5%	0.5%	
Toyota	Car	Car	1986	81.9%		41.2%	53.4%			59.6%		0.2%	14.8%			99.3%	0.7%	
Toyota	Car	Car	1987	81.3%	1.0%	37.9%	61.1%			59.6%			69.0%			99.8%	0.2%	
Toyota	Car	Car	1988	93.9%	0.9%	33.6%	66.4%			51.8%			89.8%			100.0%		
Toyota	Car	Car	1989	90.5%	1.2%	28.9%	71.1%			55.0%			100.0%			100.0%		
Toyota	Car	Car	1990	91.2%	0.5%	23.1%	76.9%			89.2%			100.0%	5.7%		94.3%	5.7%	
Toyota	Car	Car	1991	84.7%		27.0%	73.0%			100.0%			100.0%	5.6%		94.4%	5.6%	
Toyota	Car	Car	1992	60.7%		21.6%	78.4%			100.0%			100.0%	7.7%		60.2%	39.8%	
Toyota	Car	Car	1993	91.3%		19.0%	81.0%			100.0%			100.0%	8.3%		55.4%	44.6%	
Toyota	Car	Car	1994	94.2%		17.2%	82.8%			100.0%			100.0%	5.4%		53.3%	46.7%	
Toyota	Car	Car	1995	62.0%		10.9%	89.1%			100.0%			100.0%	6.0%		49.1%	43.3%	7.6%
Toyota	Car	Car	1996	96.0%		8.2%	91.8%			100.0%			100.0%	3.9%		43.4%	48.0%	8.6%
Toyota	Car	Car	1997	96.9%		5.7%	94.3%			100.0%			100.0%	3.0%		43.6%	47.3%	9.1%
Toyota	Car	Car	1998	93.1%		4.0%	96.0%			100.0%			100.0%	6.8%		35.7%	55.1%	9.2%
Toyota	Car	Car	1999	94.5%		4.9%	95.1%			100.0%			100.0%	10.5%		40.9%	52.4%	6.7%
Toyota	Car	Car	2000	95.3%		7.7%	92.3%			100.0%			100.0%	52.7%		43.2%	45.5%	11.3%
Toyota	Car	Car	2001	88.9%		6.4%	91.9%	1.8%		100.0%			100.0%	60.8%		49.8%	38.0%	12.2%
Toyota	Car	Car	2002	89.3%		5.4%	92.2%	2.4%		100.0%			100.0%	87.8%	2.4%	34.4%	58.4%	7.2%
Toyota	Car	Car	2003	93.1%	0.8%	6.0%	92.7%	1.3%		100.0%			100.0%	97.5%	1.3%	48.9%	42.8%	8.3%
Toyota	Car	Car	2004	92.8%	0.7%	5.5%	89.7%	4.8%		100.0%			100.0%	100.0%	4.8%	46.4%	45.3%	8.3%
Toyota	Car	Car	2005	95.7%	0.8%	7.7%	83.5%	8.9%		100.0%			100.0%	100.0%	8.9%	48.8%	44.8%	6.4%
Toyota	Car	Car	2006	88.8%	3.6%	8.1%	84.7%	7.2%		100.0%			100.0%	100.0%	7.2%	60.1%	30.4%	9.5%
Toyota	Car	Car	2007	92.9%	1.5%	5.1%	82.0%	12.9%		100.0%			100.0%	100.0%	13.1%	39.2%	56.3%	4.5%
Toyota	Car	Car	2008	90.4%	2.4%	6.1%	76.0%	17.8%	0.8%	99.2%			100.0%	100.0%	18.1%	48.5%	46.0%	5.4%
Toyota	Car	Car	2009	95.4%	2.1%	4.1%	85.2%	10.7%	3.1%	96.9%			100.0%	100.0%	10.8%	50.0%	48.2%	1.8%
Toyota	Car	Car	2010	95.1%	1.6%	2.5%	76.4%	21.0%	2.6%	97.4%			100.0%	100.0%	21.0%	51.0%	47.9%	1.1%
Toyota	Car	Car	2011	95.7%	1.5%	1.5%	83.4%	15.1%	4.3%	95.7%			100.0%	100.0%	15.1%	31.7%	63.0%	5.3%
Toyota	Car	Car	2012	96.6%	1.0%	1.3%	73.6%	26.0%	2.3%	97.7%			100.0%	100.0%	25.2%			
Toyota	Car	Car	2013	89.3%	3.5%	3.9%	65.7%	31.4%	2.2%	97.8%			100.0%	100.0%	30.4%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Toyota	Car	Car SUV	1975	12.0	9.0	12.2	10.2	4000		257	110	15.7	0.428	0.0275	24.0		
Toyota	Car	Car SUV	1976	10.7	8.0	11.3	9.2	4000		258	125	14.2	0.484	0.0313	21.5		
Toyota	Car	Car SUV	1977	13.7	10.7	13.1	11.7	4000		258	125	14.2	0.484	0.0313	28.2		
Toyota	Car	Car SUV	1978	13.0	9.8	13.1	11.1	4000		258	125	14.2	0.484	0.0313	26.4		
Toyota	Car	Car SUV	1979	13.8	11.0	12.8	11.7	4000		258	125	14.2	0.484	0.0313	27.6		
Toyota	Car	Car SUV	1980														
Toyota	Car	Car SUV	1981														
Toyota	Car	Car SUV	1982														
Toyota	Car	Car SUV	1983														
Toyota	Car	Car SUV	1984														
Toyota	Car	Car SUV	1985														
Toyota	Car	Car SUV	1986														
Toyota	Car	Car SUV	1987														
Toyota	Car	Car SUV	1988														
Toyota	Car	Car SUV	1989														
Toyota	Car	Car SUV	1990	20.9	16.1	19.1	17.4	4000		173	143	13.1	0.828	0.0359	41.8		
Toyota	Car	Car SUV	1991	21.4	16.3	20.0	17.9	4000		178	147	12.8	0.830	0.0369	42.9		
Toyota	Car	Car SUV	1992	17.1	13.0	15.7	14.2	4000		180	150	12.5	0.833	0.0375	34.1		
Toyota	Car	Car SUV	1993	18.2	13.7	16.7	15.1	4000		180	150	12.5	0.833	0.0375	36.3		
Toyota	Car	Car SUV	1994														
Toyota	Car	Car SUV	1995	21.4	15.8	19.8	17.6	4000		180	150	12.5	0.833	0.0375	42.7		
Toyota	Car	Car SUV	1996	25.9	19.0	23.5	21.1	3333		164	151	10.9	0.933	0.0451	43.4		
Toyota	Car	Car SUV	1997	27.9	20.4	25.0	22.6	3019		135	131	11.2	0.970	0.0433	42.2		
Toyota	Car	Car SUV	1998	29.8	21.6	26.8	24.1	3053		124	126	11.5	1.019	0.0414	45.5		
Toyota	Car	Car SUV	1999	27.5	19.7	24.9	22.2	3449		149	169	10.4	1.113	0.0480	47.2		
Toyota	Car	Car SUV	2000	26.4	18.8	24.0	21.3	3591		158	182	10.1	1.136	0.0498	47.3		
Toyota	Car	Car SUV	2001	27.1	19.1	24.4	21.7	3454		150	181	9.7	1.208	0.0519	46.6		
Toyota	Car	Car SUV	2002	27.7	19.5	24.8	22.1	3359		144	174	9.8	1.209	0.0513	46.4		
Toyota	Car	Car SUV	2003	28.4	19.8	25.3	22.5	3256		138	166	9.8	1.210	0.0508	46.2		
Toyota	Car	Car SUV	2004	27.2	18.8	24.4	21.6	3600		179	202	9.1	1.130	0.0560	48.8		
Toyota	Car	Car SUV	2005	27.8	19.1	24.7	22.0	3485		172	194	9.2	1.128	0.0555	48.3		
Toyota	Car	Car SUV	2006	29.0	19.8	25.9	22.9	3693		168	194	9.7	1.156	0.0521	53.7		
Toyota	Car	Car SUV	2007	27.8	19.1	24.8	22.0	3765		184	216	9.1	1.177	0.0569	52.6		
Toyota	Car	Car SUV	2008	28.2	19.3	25.1	22.2	3759		181	217	9.1	1.197	0.0572	53.2		
Toyota	Car	Car SUV	2009	29.2	19.7	26.4	23.0	3818		182	223	9.0	1.216	0.0580	55.9		
Toyota	Car	Car SUV	2010	29.6	20.1	26.7	23.4	4025		184	227	9.1	1.224	0.0560	59.9		
Toyota	Car	Car SUV	2011	30.0	20.3	27.1	23.7	3906		177	214	9.3	1.204	0.0546	58.7		
Toyota	Car	Car SUV	2012	30.0	20.3	26.9	23.6	3899		177	216	9.3	1.212	0.0550	58.6		
Toyota	Car	Car SUV	2013	31.5	21.3	28.1	24.7	3884		175	210	9.5	1.192	0.0536	61.5		

**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Toyota	Car	Car SUV	1975			100.0%										100.0%		
Toyota	Car	Car SUV	1976			100.0%										100.0%		
Toyota	Car	Car SUV	1977			100.0%										100.0%		
Toyota	Car	Car SUV	1978			100.0%										100.0%		
Toyota	Car	Car SUV	1979			100.0%										100.0%		
Toyota	Car	Car SUV	1980															
Toyota	Car	Car SUV	1981															
Toyota	Car	Car SUV	1982															
Toyota	Car	Car SUV	1983															
Toyota	Car	Car SUV	1984															
Toyota	Car	Car SUV	1985															
Toyota	Car	Car SUV	1986															
Toyota	Car	Car SUV	1987															
Toyota	Car	Car SUV	1988															
Toyota	Car	Car SUV	1989															
Toyota	Car	Car SUV	1990				80.6%			100.0%							100.0%	
Toyota	Car	Car SUV	1991				93.3%			100.0%							100.0%	
Toyota	Car	Car SUV	1992				100.0%			100.0%							100.0%	
Toyota	Car	Car SUV	1993				100.0%			100.0%							100.0%	
Toyota	Car	Car SUV	1994															
Toyota	Car	Car SUV	1995				100.0%			100.0%			100.0%				100.0%	
Toyota	Car	Car SUV	1996	42.9%		15.0%	85.0%			100.0%			100.0%			42.9%	57.1%	
Toyota	Car	Car SUV	1997	58.2%		38.8%	43.7%			100.0%			100.0%			100.0%		
Toyota	Car	Car SUV	1998	94.7%		20.9%	79.1%			100.0%			100.0%			94.7%	5.3%	
Toyota	Car	Car SUV	1999	100.0%		8.8%	91.2%			100.0%			100.0%	44.9%		55.1%	44.9%	
Toyota	Car	Car SUV	2000	100.0%		4.7%	95.3%			100.0%			100.0%	59.1%		40.9%	59.1%	
Toyota	Car	Car SUV	2001	100.0%		5.1%	94.9%			100.0%			100.0%	100.0%		54.6%	45.4%	
Toyota	Car	Car SUV	2002	100.0%		4.5%	95.0%	0.4%		100.0%			99.6%	99.6%		64.3%	35.7%	
Toyota	Car	Car SUV	2003	100.0%		5.2%	94.6%	0.1%		100.0%			99.9%	99.9%		74.5%	25.5%	
Toyota	Car	Car SUV	2004	100.0%		2.2%	97.8%			100.0%			100.0%	100.0%		40.0%	60.0%	
Toyota	Car	Car SUV	2005	100.0%		2.8%	97.2%			100.0%			100.0%	100.0%		51.5%	48.5%	
Toyota	Car	Car SUV	2006	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Car	Car SUV	2007	85.9%			100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Car	Car SUV	2008	92.9%			100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Car	Car SUV	2009	99.5%			100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Car	Car SUV	2010	98.5%			96.2%	3.8%		100.0%			100.0%	100.0%	3.8%		100.0%	
Toyota	Car	Car SUV	2011	99.1%			98.0%	2.0%		100.0%			100.0%	100.0%	2.0%		100.0%	
Toyota	Car	Car SUV	2012	98.9%			97.9%	2.1%		100.0%			100.0%	100.0%	2.1%			
Toyota	Car	Car SUV	2013	99.3%			97.6%	2.4%		100.0%			100.0%	100.0%	2.4%			

## 2013 FE Trends Report

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Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	88.1	113	81	14.7	0.735	0.0301	37.9	2593	3361
Toyota	Car	All	1978	26.1	20.4	24.9	22.2	2658	90.7	116	84	14.4	0.734	0.0313	35.5	2491	3233
Toyota	Car	All	1979	23.8	18.6	22.9	20.3	2712	88.1	114	82	14.9	0.728	0.0299	32.7	2166	2882
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
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
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
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
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
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
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
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
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
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
Toyota	Car	All	1990	30.3	23.0	28.4	25.3	2970	97.1	122	122	12.0	0.992	0.0401	45.1	2993	4387
Toyota	Car	All	1991	30.5	23.0	28.5	25.4	2928	97.3	121	121	11.9	0.998	0.0404	44.7	3023	4363
Toyota	Car	All	1992	28.8	21.4	27.1	23.9	3101	101.9	129	131	11.8	1.016	0.0415	44.5	2989	4558
Toyota	Car	All	1993	28.8	21.1	27.4	23.8	3150	104.7	132	138	11.4	1.037	0.0429	45.4	3091	4774
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
Toyota	Car	All	1995	29.5	21.3	28.1	24.3	3210	105.9	137	139	11.4	1.022	0.0429	47.5	3222	5056
Toyota	Car	All	1996	29.3	21.0	27.7	24.0	3211	107.1	136	135	11.7	0.994	0.0416	47.1	3196	5066
Toyota	Car	All	1997	29.5	21.0	27.8	24.1	3203	106.2	136	140	11.4	1.022	0.0432	47.4	3190	5135
Toyota	Car	All	1998	30.2	21.2	28.6	24.6	3304	108.3	142	151	11.0	1.056	0.0454	50.1	3317	5449
Toyota	Car	All	1999	30.2	21.1	28.3	24.5	3311	107.8	142	154	11.0	1.072	0.0460	50.2	3310	5425
Toyota	Car	All	2000	30.3	21.0	28.5	24.5	3277	107.6	141	157	10.6	1.108	0.0476	49.8	3331	5382
Toyota	Car	All	2001	30.9	21.2	28.9	24.8	3258	106.9	141	158	10.6	1.114	0.0480	51.1	3441	5501
Toyota	Car	All	2002	30.4	20.7	28.4	24.4	3352	111.1	153	171	10.1	1.115	0.0504	51.7	3494	5794
Toyota	Car	All	2003	32.2	21.8	29.8	25.6	3203	111.0	140	159	10.1	1.145	0.0494	52.0	3668	5808
Toyota	Car	All	2004	32.1	21.6	29.6	25.4	3323	111.8	147	166	10.0	1.131	0.0492	54.5	3808	6162
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	4050	6424
Toyota	Car	All	2006	34.1	22.8	30.8	26.8	3260	108.7	140	160	10.2	1.129	0.0479	57.1	3935	6256
Toyota	Car	All	2007	34.3	22.9	30.9	26.9	3389	109.8	148	173	9.9	1.141	0.0496	60.2	4052	6691
Toyota	Car	All	2008	35.2	23.7	31.2	27.4	3360	108.9	145	169	9.8	1.132	0.0486	62.0	4242	6886
Toyota	Car	All	2009	35.6	23.8	31.8	27.8	3357	109.8	138	160	10.3	1.147	0.0467	61.3	4145	6800
Toyota	Car	All	2010	38.1	25.6	33.3	29.5	3406	109.3	137	160	10.1	1.149	0.0462	70.1	4707	7874
Toyota	Car	All	2011	35.9	23.8	32.4	28.1	3513	112.2	148	175	9.8	1.164	0.0491	66.9	4410	7624
Toyota	Car	All	2012	39.8	26.7	34.5	30.7	3426	112.8	140	161	9.9	1.126	0.0464	72.9	4961	8400
Toyota	Car	All	2013	39.4	26.5	33.9	30.3	3481	110.5	145	170	9.7	1.142	0.0478	74.5	5033	8554

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	18.1%		63.4%				5.2%						100.0%		
Toyota	Car	All	1981	20.4%		58.7%				6.4%						100.0%		
Toyota	Car	All	1982	25.0%		56.5%	4.2%			12.8%						100.0%		
Toyota	Car	All	1983	28.3%	31.5%	56.7%	11.9%			38.7%						100.0%		
Toyota	Car	All	1984	54.4%	5.5%	47.7%	38.7%			44.4%		1.8%				100.0%		
Toyota	Car	All	1985	35.6%	25.5%	45.2%	44.8%			51.5%		0.5%				99.5%	0.5%	
Toyota	Car	All	1986	81.9%		41.2%	53.4%			59.6%		0.2%	14.8%			99.3%	0.7%	
Toyota	Car	All	1987	81.3%	1.0%	37.9%	61.1%			59.6%			69.0%			99.8%	0.2%	
Toyota	Car	All	1988	93.9%	0.9%	33.6%	66.4%			51.8%			89.8%			100.0%		
Toyota	Car	All	1989	90.5%	1.2%	28.9%	71.1%			55.0%			100.0%			100.0%		
Toyota	Car	All	1990	90.5%	0.5%	22.9%	76.9%			89.2%			99.2%	5.6%		93.5%	6.5%	
Toyota	Car	All	1991	84.1%		26.8%	73.2%			100.0%			99.3%	5.6%		93.7%	6.3%	
Toyota	Car	All	1992	60.3%		21.5%	78.5%			100.0%			99.4%	7.6%		59.8%	40.2%	
Toyota	Car	All	1993	90.4%		18.8%	81.2%			100.0%			99.1%	8.2%		54.9%	45.1%	
Toyota	Car	All	1994	94.2%		17.2%	82.8%			100.0%			100.0%	5.4%		53.3%	46.7%	
Toyota	Car	All	1995	59.5%		10.5%	89.5%			100.0%			100.0%	5.8%		47.1%	45.6%	7.3%
Toyota	Car	All	1996	93.3%		8.6%	91.4%			100.0%			100.0%	3.7%		43.4%	48.5%	8.1%
Toyota	Car	All	1997	91.7%		10.1%	87.5%			100.0%			100.0%	2.6%		51.2%	40.9%	7.9%
Toyota	Car	All	1998	93.2%		4.6%	95.4%			100.0%			100.0%	6.6%		37.7%	53.4%	8.9%
Toyota	Car	All	1999	94.8%		5.1%	94.9%			100.0%			100.0%	12.3%		41.6%	52.0%	6.4%
Toyota	Car	All	2000	95.6%		7.5%	92.5%			100.0%			100.0%	53.1%		43.0%	46.2%	10.7%
Toyota	Car	All	2001	89.8%		6.3%	92.1%	1.6%		100.0%			100.0%	63.8%		50.2%	38.6%	11.3%
Toyota	Car	All	2002	90.2%		5.3%	92.4%	2.3%		100.0%			100.0%	88.8%	2.2%	36.8%	56.6%	6.6%
Toyota	Car	All	2003	93.4%	0.8%	6.0%	92.8%	1.2%		100.0%			100.0%	97.6%	1.2%	50.1%	42.0%	7.9%
Toyota	Car	All	2004	93.5%	0.7%	5.2%	90.4%	4.4%		100.0%			100.0%	100.0%	4.4%	45.8%	46.7%	7.6%
Toyota	Car	All	2005	95.9%	0.7%	7.4%	84.2%	8.4%		100.0%			100.0%	100.0%	8.4%	49.0%	45.0%	6.0%
Toyota	Car	All	2006	89.3%	3.4%	7.7%	85.5%	6.9%		100.0%			100.0%	100.0%	6.9%	56.9%	34.1%	9.0%
Toyota	Car	All	2007	92.4%	1.4%	4.7%	83.2%	12.0%		100.0%			100.0%	100.0%	12.2%	36.5%	59.3%	4.2%
Toyota	Car	All	2008	90.6%	2.2%	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	95.8%	1.9%	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	95.4%	1.4%	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	96.0%	1.3%	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	96.7%	0.9%	1.2%	75.4%	24.2%	2.1%	97.9%			100.0%	100.0%	23.5%			
Toyota	Car	All	2013	90.8%	3.0%	3.3%	70.4%	27.1%	1.9%	98.1%			100.0%	100.0%	26.2%			



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Toyota	Truck	Van	1987	25.5	20.6	22.5	21.5	3285		137	101	14.6	0.737	0.0310	41.8		
Toyota	Truck	Van	1988	25.8	20.7	22.7	21.6	3515		137	101	15.5	0.737	0.0288	45.4		
Toyota	Truck	Van	1989	25.9	20.7	22.6	21.6	3552		137	101	15.6	0.737	0.0285	45.9		
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		
Toyota	Truck	Van	1992	22.3	16.7	21.0	18.6	4000		149	138	13.4	0.926	0.0345	44.6		
Toyota	Truck	Van	1993	21.9	16.5	20.0	18.1	4000		148	138	13.4	0.931	0.0345	43.8		
Toyota	Truck	Van	1994	22.0	16.3	20.6	18.2	4025		149	141	13.3	0.945	0.0350	44.3		
Toyota	Truck	Van	1995	22.6	16.7	20.8	18.6	4104		149	158	12.3	1.059	0.0385	46.3		
Toyota	Truck	Van	1996	22.4	16.5	20.5	18.4	4065		149	161	12.0	1.081	0.0397	45.5		
Toyota	Truck	Van	1997	22.3	16.3	20.3	18.2	4137		149	161	12.2	1.081	0.0390	46.0		
Toyota	Truck	Van	1998	24.2	17.0	23.2	19.8	4000		183	194	10.2	1.060	0.0485	48.4		
Toyota	Truck	Van	1999	24.1	16.9	23.0	19.7	4000		183	190	10.4	1.038	0.0475	48.2		
Toyota	Truck	Van	2000	24.1	16.8	22.9	19.6	4000		183	190	10.4	1.038	0.0475	48.2		
Toyota	Truck	Van	2001	24.7	17.3	22.9	20.0	4000		183	210	9.6	1.148	0.0525	49.5		
Toyota	Truck	Van	2002	24.7	17.2	22.8	19.9	4000		183	210	9.6	1.148	0.0525	49.5		
Toyota	Truck	Van	2003	24.7	17.1	22.8	19.9	4000		183	210	9.6	1.148	0.0525	49.5		
Toyota	Truck	Van	2004	25.4	17.1	24.3	20.5	4500		202	230	9.8	1.139	0.0511	57.3		
Toyota	Truck	Van	2005	24.7	16.5	23.6	19.9	4500		202	230	9.8	1.139	0.0511	55.6		
Toyota	Truck	Van	2006	24.8	16.5	23.7	20.0	4500		202	215	10.3	1.064	0.0478	55.8		
Toyota	Truck	Van	2007	26.1	17.7	24.1	20.8	4500		211	266	8.7	1.261	0.0591	58.9		
Toyota	Truck	Van	2008	26.1	17.6	24.0	20.8	4500		211	266	8.7	1.261	0.0591	58.8		
Toyota	Truck	Van	2009	26.1	17.7	24.1	20.8	4500		211	266	8.7	1.261	0.0591	58.9		
Toyota	Truck	Van	2010	26.1	17.6	24.0	20.8	4500		211	266	8.7	1.261	0.0591	58.7		
Toyota	Truck	Van	2011	26.3	17.8	24.0	20.8	4552		209	263	8.9	1.256	0.0578	59.8		
Toyota	Truck	Van	2012	26.6	17.9	24.6	21.2	4553		208	261	9.0	1.254	0.0574	60.7		
Toyota	Truck	Van	2013	26.6	17.8	24.5	21.1	4570		208	265	8.9	1.272	0.0581	60.8		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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%		
Toyota	Truck	Van	1987		16.2%	15.6%	84.4%			100.0%						100.0%		
Toyota	Truck	Van	1988		12.9%	14.5%	85.5%			100.0%						100.0%		
Toyota	Truck	Van	1989		14.7%	7.8%	92.2%			100.0%						100.0%		
Toyota	Truck	Van	1990															
Toyota	Truck	Van	1991		14.8%	3.6%	96.4%			100.0%							100.0%	
Toyota	Truck	Van	1992		15.6%	4.2%	95.8%			100.0%							100.0%	
Toyota	Truck	Van	1993		11.3%	4.1%	95.9%			100.0%							100.0%	
Toyota	Truck	Van	1994		17.3%		100.0%			100.0%			100.0%				100.0%	
Toyota	Truck	Van	1995		23.2%		100.0%			100.0%			100.0%				100.0%	
Toyota	Truck	Van	1996		13.1%		100.0%			100.0%			100.0%				100.0%	
Toyota	Truck	Van	1997		27.4%		100.0%			100.0%			100.0%				100.0%	
Toyota	Truck	Van	1998	100.0%			100.0%			100.0%			100.0%				100.0%	
Toyota	Truck	Van	1999	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Truck	Van	2000	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Truck	Van	2001	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Truck	Van	2002	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Truck	Van	2003	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Truck	Van	2004	88.2%	11.8%		100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Truck	Van	2005	86.0%	14.0%		100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Truck	Van	2006	89.2%	10.8%		100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Truck	Van	2007	91.7%	8.3%		100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Truck	Van	2008	89.9%	10.1%		100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Truck	Van	2009	91.3%	8.7%		100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Truck	Van	2010	89.6%	10.4%		100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Truck	Van	2011	86.0%	14.0%		100.0%			100.0%			100.0%	100.0%			100.0%	
Toyota	Truck	Van	2012	84.9%	15.1%		100.0%			100.0%			100.0%	100.0%				
Toyota	Truck	Van	2013	86.1%	13.9%		100.0%			100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Toyota	Truck	Truck SUV	1980	13.8	11.0	12.8	11.7	4001		258	125	14.2	0.484	0.0312	27.6		
Toyota	Truck	Truck SUV	1981	14.3	11.3	13.4	12.2	4239		258	125	14.8	0.484	0.0296	30.3		
Toyota	Truck	Truck SUV	1982	14.2	11.2	13.4	12.1	4342		258	125	15.1	0.484	0.0289	30.9		
Toyota	Truck	Truck SUV	1983	14.1	11.2	13.3	12.0	4463		258	125	15.4	0.484	0.0280	31.6		
Toyota	Truck	Truck SUV	1984	17.3	13.6	16.3	14.7	3939		194	109	15.6	0.587	0.0276	35.1		
Toyota	Truck	Truck SUV	1985	21.1	16.8	19.7	18.0	3727		170	118	14.0	0.733	0.0319	41.2		
Toyota	Truck	Truck SUV	1986	23.3	18.6	21.3	19.8	4029		151	117	15.1	0.793	0.0292	47.8		
Toyota	Truck	Truck SUV	1987	22.7	18.0	20.6	19.1	3730		157	118	14.1	0.775	0.0318	43.4		
Toyota	Truck	Truck SUV	1988	20.3	15.9	18.6	17.1	4018		175	134	13.7	0.777	0.0334	41.4		
Toyota	Truck	Truck SUV	1989	19.7	15.3	18.1	16.5	4103		180	140	13.5	0.785	0.0340	41.1		
Toyota	Truck	Truck SUV	1990	19.4	14.8	18.2	16.3	4301		178	147	13.5	0.825	0.0342	41.8		
Toyota	Truck	Truck SUV	1991	18.2	13.8	17.1	15.2	4537		191	149	13.9	0.790	0.0329	41.7		
Toyota	Truck	Truck SUV	1992	17.0	13.0	15.6	14.2	4573		179	150	13.9	0.837	0.0327	39.2		
Toyota	Truck	Truck SUV	1993	17.2	13.1	15.7	14.3	4582		198	161	13.3	0.820	0.0350	39.6		
Toyota	Truck	Truck SUV	1994	17.4	13.1	15.8	14.4	4484		196	161	13.1	0.822	0.0357	39.0		
Toyota	Truck	Truck SUV	1995	17.5	13.2	15.8	14.4	4544		190	156	13.5	0.825	0.0342	39.9		
Toyota	Truck	Truck SUV	1996	21.4	16.1	19.0	17.5	3929		196	171	11.2	0.895	0.0433	42.0		
Toyota	Truck	Truck SUV	1997	20.7	15.3	18.5	16.8	4002		204	182	10.7	0.897	0.0455	41.3		
Toyota	Truck	Truck SUV	1998	22.1	16.3	19.6	17.9	3999		190	176	11.1	0.939	0.0440	44.2		
Toyota	Truck	Truck SUV	1999	22.0	16.0	19.6	17.8	4238		195	192	10.9	0.999	0.0456	46.5		
Toyota	Truck	Truck SUV	2000	21.7	15.7	19.3	17.5	4296		200	192	11.0	0.976	0.0452	46.4		
Toyota	Truck	Truck SUV	2001	21.7	15.6	19.5	17.5	4368		199	203	10.6	1.053	0.0470	47.4		
Toyota	Truck	Truck SUV	2002	21.7	15.5	19.4	17.4	4399		205	206	10.5	1.040	0.0472	47.8		
Toyota	Truck	Truck SUV	2003	21.7	15.3	19.5	17.4	4447		223	219	10.1	1.022	0.0496	48.4		
Toyota	Truck	Truck SUV	2004	22.2	15.5	19.9	17.7	4536		228	225	10.1	1.013	0.0500	50.5		
Toyota	Truck	Truck SUV	2005	22.8	15.8	20.3	18.1	4510		223	233	9.8	1.058	0.0516	51.5		
Toyota	Truck	Truck SUV	2006	24.4	17.2	21.1	19.2	4533		220	224	9.6	1.034	0.0494	57.0		
Toyota	Truck	Truck SUV	2007	24.2	16.9	21.2	19.1	4461		219	230	9.6	1.063	0.0515	54.8		
Toyota	Truck	Truck SUV	2008	24.7	17.1	21.9	19.5	4637		226	256	9.0	1.147	0.0551	58.1		
Toyota	Truck	Truck SUV	2009	26.5	18.1	23.8	21.0	4409		204	244	9.2	1.205	0.0553	59.0		
Toyota	Truck	Truck SUV	2010	26.6	18.2	23.9	21.0	4544		211	253	9.1	1.203	0.0556	61.1		
Toyota	Truck	Truck SUV	2011	26.4	18.0	23.8	20.9	4531		210	250	9.3	1.196	0.0550	60.2		
Toyota	Truck	Truck SUV	2012	26.5	18.1	23.7	20.9	4477		206	248	9.3	1.208	0.0552	59.8		
Toyota	Truck	Truck SUV	2013	26.3	18.0	23.5	20.8	4591		213	257	9.1	1.211	0.0557	61.3		

**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		14.5%	100.0%											100.0%	
Toyota	Truck	Truck SUV	1980		100.0%	100.0%										100.0%		
Toyota	Truck	Truck SUV	1981		100.0%	100.0%										100.0%		
Toyota	Truck	Truck SUV	1982		100.0%	100.0%										100.0%		
Toyota	Truck	Truck SUV	1983		100.0%	100.0%											100.0%	
Toyota	Truck	Truck SUV	1984		100.0%	100.0%											100.0%	
Toyota	Truck	Truck SUV	1985		100.0%	87.2%	12.8%			77.3%							100.0%	
Toyota	Truck	Truck SUV	1986		100.0%	70.8%	29.2%			94.0%							100.0%	
Toyota	Truck	Truck SUV	1987		100.0%	80.3%	19.7%			88.8%							100.0%	
Toyota	Truck	Truck SUV	1988		100.0%	58.2%	41.8%			100.0%							100.0%	
Toyota	Truck	Truck SUV	1989		100.0%	50.7%	49.3%			100.0%							100.0%	
Toyota	Truck	Truck SUV	1990		100.0%	38.2%	61.8%			100.0%							100.0%	
Toyota	Truck	Truck SUV	1991		100.0%	33.0%	67.0%			100.0%							78.2%	21.8%
Toyota	Truck	Truck SUV	1992		100.0%	31.2%	68.8%			100.0%							81.0%	19.0%
Toyota	Truck	Truck SUV	1993		100.0%	31.6%	68.4%			100.0%							80.0%	20.0%
Toyota	Truck	Truck SUV	1994		100.0%	22.4%	77.6%			100.0%			97.6%				81.5%	18.5%
Toyota	Truck	Truck SUV	1995		100.0%	26.6%	73.4%			100.0%			97.3%				88.5%	11.5%
Toyota	Truck	Truck SUV	1996		100.0%	18.4%	81.6%			100.0%			100.0%			28.5%	50.1%	21.4%
Toyota	Truck	Truck SUV	1997		76.5%	26.1%	73.9%			100.0%			100.0%			26.9%	61.4%	11.7%
Toyota	Truck	Truck SUV	1998		69.1%	12.1%	87.9%			100.0%			100.0%			21.2%	69.7%	9.1%
Toyota	Truck	Truck SUV	1999		78.1%	6.2%	93.8%			100.0%			100.0%	26.3%		12.8%	74.8%	12.4%
Toyota	Truck	Truck SUV	2000		75.7%	5.0%	95.0%			100.0%			100.0%	23.3%		9.2%	83.9%	6.9%
Toyota	Truck	Truck SUV	2001	10.8%	71.6%	1.9%	98.1%			100.0%			100.0%	51.9%		14.3%	41.7%	44.0%
Toyota	Truck	Truck SUV	2002	16.0%	62.9%	1.3%	98.7%			100.0%			100.0%	52.5%		11.7%	63.3%	25.1%
Toyota	Truck	Truck SUV	2003	18.2%	61.8%	0.9%	99.1%			100.0%			100.0%	60.7%		9.3%	69.4%	21.3%
Toyota	Truck	Truck SUV	2004	13.5%	70.1%	0.6%	99.4%			100.0%			100.0%	68.2%		7.7%	76.1%	16.2%
Toyota	Truck	Truck SUV	2005	16.5%	67.5%	0.6%	99.4%			100.0%			100.0%	92.0%		9.7%	75.5%	14.8%
Toyota	Truck	Truck SUV	2006	16.4%	69.6%		82.6%	17.4%		100.0%			100.0%	100.0%	17.4%		88.0%	12.0%
Toyota	Truck	Truck SUV	2007	9.4%	79.9%	2.5%	89.8%	7.7%		100.0%			100.0%	100.0%	7.7%		92.8%	7.2%
Toyota	Truck	Truck SUV	2008	12.3%	79.7%	0.6%	89.6%	9.8%		100.0%			100.0%	88.5%	9.8%		90.0%	10.0%
Toyota	Truck	Truck SUV	2009	11.8%	86.5%	0.1%	95.3%	4.6%		100.0%			100.0%	100.0%	4.6%		96.6%	3.4%
Toyota	Truck	Truck SUV	2010	9.1%	86.2%	0.2%	93.6%	6.2%		100.0%			100.0%	100.0%	6.2%		94.2%	5.8%
Toyota	Truck	Truck SUV	2011	9.4%	84.5%	0.1%	97.0%	2.8%		100.0%			100.0%	100.0%	2.8%		93.8%	6.2%
Toyota	Truck	Truck SUV	2012	13.7%	81.8%	0.2%	96.7%	3.1%		100.0%			100.0%	100.0%	3.1%			
Toyota	Truck	Truck SUV	2013	14.9%	82.6%	0.2%	93.5%	6.3%		100.0%			100.0%	100.0%	6.3%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Toyota	Truck	Pickup	1980	21.5	17.1	20.1	18.3	2865		134	93	13.7	0.697	0.0327	30.9		
Toyota	Truck	Pickup	1981	26.5	21.2	24.5	22.5	2888		143	94	14.0	0.657	0.0327	38.7		
Toyota	Truck	Pickup	1982	25.6	20.5	23.6	21.8	3013		143	95	14.3	0.661	0.0317	39.0		
Toyota	Truck	Pickup	1983	25.5	20.6	23.1	21.7	3033		144	97	14.0	0.677	0.0325	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		
Toyota	Truck	Pickup	1985	27.0	21.7	24.8	23.0	3107		144	107	13.3	0.740	0.0346	42.2		
Toyota	Truck	Pickup	1986	26.4	21.1	24.0	22.4	3129		144	107	13.3	0.743	0.0346	41.6		
Toyota	Truck	Pickup	1987	26.6	21.1	24.2	22.4	3114		144	105	13.4	0.732	0.0343	41.6		
Toyota	Truck	Pickup	1988	25.1	19.8	22.7	21.1	3181		147	113	12.9	0.767	0.0357	40.1		
Toyota	Truck	Pickup	1989	23.5	18.5	21.1	19.7	3377		154	123	12.7	0.793	0.0366	40.0		
Toyota	Truck	Pickup	1990	23.1	18.0	20.9	19.3	3396		156	125	12.6	0.794	0.0369	39.6		
Toyota	Truck	Pickup	1991	23.8	18.3	21.5	19.7	3413		154	124	12.7	0.801	0.0364	40.8		
Toyota	Truck	Pickup	1992	23.7	18.1	21.4	19.6	3366		154	122	12.7	0.792	0.0365	40.3		
Toyota	Truck	Pickup	1993	23.8	17.9	21.7	19.6	3394		155	124	12.7	0.795	0.0365	40.8		
Toyota	Truck	Pickup	1994	24.3	18.2	22.0	20.0	3382		152	121	12.9	0.791	0.0359	41.4		
Toyota	Truck	Pickup	1995	23.3	17.5	20.9	19.1	3533		171	140	11.9	0.828	0.0400	41.2		
Toyota	Truck	Pickup	1996	23.6	17.6	21.0	19.2	3508		174	161	10.6	0.929	0.0461	41.3		
Toyota	Truck	Pickup	1997	20.4	15.3	18.0	16.6	4086		203	187	10.7	0.922	0.0458	41.7		
Toyota	Truck	Pickup	1998	23.7	17.5	21.1	19.2	3432		170	158	10.6	0.933	0.0461	40.8		
Toyota	Truck	Pickup	1999	23.2	17.0	20.5	18.7	3549		175	162	10.7	0.929	0.0457	41.2		
Toyota	Truck	Pickup	2000	20.8	15.2	18.4	16.8	4110		219	197	10.4	0.905	0.0476	42.5		
Toyota	Truck	Pickup	2001	21.2	15.4	18.6	17.0	4046		210	191	10.5	0.913	0.0469	42.9		
Toyota	Truck	Pickup	2002	20.9	15.1	18.3	16.7	4140		218	193	10.6	0.897	0.0465	43.3		
Toyota	Truck	Pickup	2003	21.0	15.0	18.6	16.8	4148		219	194	10.6	0.898	0.0467	43.6		
Toyota	Truck	Pickup	2004	20.6	14.6	18.2	16.5	4296		221	196	10.7	0.898	0.0456	44.2		
Toyota	Truck	Pickup	2005	21.6	15.2	19.0	17.2	4476		246	247	9.3	1.003	0.0551	48.3		
Toyota	Truck	Pickup	2006	21.7	15.2	19.1	17.2	4485		245	237	9.6	0.967	0.0528	48.6		
Toyota	Truck	Pickup	2007	21.3	14.8	19.2	17.0	4929		274	283	9.1	1.020	0.0567	52.2		
Toyota	Truck	Pickup	2008	21.1	14.6	19.0	16.9	4978		277	289	9.1	1.028	0.0571	52.2		
Toyota	Truck	Pickup	2009	23.5	16.3	21.0	18.7	4360		229	228	9.8	0.988	0.0516	51.2		
Toyota	Truck	Pickup	2010	21.6	14.9	19.6	17.3	5030		274	288	9.2	1.039	0.0564	54.0		
Toyota	Truck	Pickup	2011	21.9	15.1	19.8	17.5	4917		265	277	9.3	1.031	0.0553	53.7		
Toyota	Truck	Pickup	2012	22.1	15.3	19.8	17.6	4946		266	278	9.4	1.032	0.0552	54.4		
Toyota	Truck	Pickup	2013	21.8	15.1	19.6	17.3	5027		272	286	9.3	1.039	0.0559	54.6		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		7.0%	93.6%										100.0%		
Toyota	Truck	Pickup	1980		32.8%	95.9%										100.0%		
Toyota	Truck	Pickup	1981		33.4%	94.3%						12.5%				100.0%		
Toyota	Truck	Pickup	1982		38.1%	92.7%						11.4%				100.0%		
Toyota	Truck	Pickup	1983		38.8%	93.9%						3.7%				100.0%		
Toyota	Truck	Pickup	1984		34.8%	87.9%				8.8%		1.9%				100.0%		
Toyota	Truck	Pickup	1985		35.4%	83.3%	3.0%			28.3%		1.0%				96.2%	3.8%	
Toyota	Truck	Pickup	1986		37.2%	81.2%	5.0%			26.1%						96.7%	3.3%	
Toyota	Truck	Pickup	1987		38.5%	82.2%	3.1%			16.1%						98.6%	1.4%	
Toyota	Truck	Pickup	1988		44.6%	84.8%	3.0%			59.3%						99.1%	0.9%	
Toyota	Truck	Pickup	1989		44.5%	79.7%	11.1%			78.7%						99.0%	1.0%	
Toyota	Truck	Pickup	1990		42.3%	79.4%	12.9%			78.9%						99.6%	0.4%	
Toyota	Truck	Pickup	1991		44.9%	80.4%	10.1%			100.0%						99.5%	0.5%	
Toyota	Truck	Pickup	1992		43.6%	81.8%	9.5%			100.0%						99.6%	0.4%	
Toyota	Truck	Pickup	1993		41.3%	80.6%	11.9%			100.0%						71.1%		28.9%
Toyota	Truck	Pickup	1994		44.2%	81.6%	8.2%			100.0%			23.7%			94.6%		5.4%
Toyota	Truck	Pickup	1995		52.4%	61.9%	25.5%			100.0%			78.1%			77.9%		22.1%
Toyota	Truck	Pickup	1996		48.2%	57.4%	27.0%			100.0%			100.0%			77.7%		22.3%
Toyota	Truck	Pickup	1997		54.7%	26.4%	73.6%			100.0%			100.0%					100.0%
Toyota	Truck	Pickup	1998		48.2%	54.9%	24.8%			100.0%			100.0%			94.1%		5.9%
Toyota	Truck	Pickup	1999		47.0%	45.9%	39.9%			100.0%			100.0%			100.0%		
Toyota	Truck	Pickup	2000		49.6%	23.9%	68.4%			100.0%			100.0%			15.4%		84.6%
Toyota	Truck	Pickup	2001		42.8%	21.2%	70.3%			100.0%			100.0%			15.3%		84.7%
Toyota	Truck	Pickup	2002		40.5%	17.3%	75.2%			100.0%			100.0%			58.9%		41.1%
Toyota	Truck	Pickup	2003		39.2%	17.0%	74.9%			100.0%			100.0%			58.0%		42.0%
Toyota	Truck	Pickup	2004		42.0%	15.9%	75.3%			100.0%			100.0%			59.5%		40.5%
Toyota	Truck	Pickup	2005		42.1%	15.7%	84.3%			100.0%			100.0%	100.0%			6.6%	93.4%
Toyota	Truck	Pickup	2006		39.5%	12.5%	87.5%			100.0%			100.0%	100.0%			33.0%	67.0%
Toyota	Truck	Pickup	2007		44.4%	9.0%	91.0%			100.0%			100.0%	71.7%			39.7%	60.3%
Toyota	Truck	Pickup	2008		48.9%	8.9%	91.1%			100.0%			100.0%	64.0%			46.5%	53.5%
Toyota	Truck	Pickup	2009		50.8%	19.2%	80.8%			100.0%			100.0%	41.9%			86.0%	14.0%
Toyota	Truck	Pickup	2010		55.6%	8.5%	91.5%			100.0%			100.0%	100.0%			47.9%	52.1%
Toyota	Truck	Pickup	2011		58.9%	6.3%	93.7%			100.0%			100.0%	100.0%			6.4%	93.6%
Toyota	Truck	Pickup	2012		59.4%	5.7%	94.3%			100.0%			100.0%	100.0%				
Toyota	Truck	Pickup	2013		58.4%	6.3%	93.7%			100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	0.0332	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		
Toyota	Truck	All	1979	19.5	15.1	18.9	16.6	2820		134	90	13.9	0.673	0.0321	27.5		
Toyota	Truck	All	1980	21.4	16.9	20.0	18.2	2880		136	94	13.8	0.694	0.0327	30.9		
Toyota	Truck	All	1981	26.2	20.9	24.2	22.3	2906		144	94	14.0	0.655	0.0327	38.6		
Toyota	Truck	All	1982	25.2	20.1	23.2	21.4	3042		145	95	14.4	0.657	0.0317	38.8		
Toyota	Truck	All	1983	25.0	20.2	22.7	21.2	3069		147	98	14.0	0.672	0.0323	38.7		
Toyota	Truck	All	1984	24.9	20.1	22.6	21.2	3133		143	98	14.3	0.690	0.0317	39.4		
Toyota	Truck	All	1985	26.5	21.2	24.2	22.5	3175		143	105	13.7	0.739	0.0334	42.4		
Toyota	Truck	All	1986	26.1	20.9	23.7	22.1	3248		144	107	13.7	0.747	0.0334	42.6		
Toyota	Truck	All	1987	25.9	20.6	23.5	21.9	3208		145	106	13.6	0.738	0.0336	41.8		
Toyota	Truck	All	1988	24.4	19.3	22.1	20.5	3303		150	115	13.1	0.767	0.0351	40.5		
Toyota	Truck	All	1989	23.2	18.2	20.8	19.4	3457		156	123	12.9	0.790	0.0360	40.4		
Toyota	Truck	All	1990	21.9	16.9	20.0	18.3	3666		163	131	12.9	0.804	0.0361	40.3		
Toyota	Truck	All	1991	22.4	17.1	20.6	18.6	3756		159	132	13.1	0.831	0.0353	42.2		
Toyota	Truck	All	1992	22.0	16.8	20.1	18.3	3679		157	129	13.0	0.823	0.0355	40.8		
Toyota	Truck	All	1993	22.3	16.8	20.3	18.4	3648		161	131	12.9	0.816	0.0360	41.0		
Toyota	Truck	All	1994	22.0	16.5	20.0	18.1	3686		163	132	12.9	0.806	0.0358	40.9		
Toyota	Truck	All	1995	21.2	15.9	19.1	17.4	3881		175	146	12.4	0.846	0.0382	41.3		
Toyota	Truck	All	1996	22.8	17.0	20.3	18.6	3663		180	165	10.8	0.922	0.0450	41.7		
Toyota	Truck	All	1997	20.7	15.4	18.5	16.8	4015		203	182	10.7	0.904	0.0454	41.5		
Toyota	Truck	All	1998	23.1	16.9	20.8	18.8	3758		180	172	10.7	0.958	0.0457	43.5		
Toyota	Truck	All	1999	22.6	16.5	20.3	18.3	3973		186	182	10.7	0.981	0.0459	44.9		
Toyota	Truck	All	2000	21.7	15.7	19.5	17.6	4160		204	194	10.6	0.960	0.0466	45.2		
Toyota	Truck	All	2001	21.8	15.7	19.5	17.6	4198		201	199	10.4	1.012	0.0477	45.9		
Toyota	Truck	All	2002	21.7	15.5	19.3	17.4	4256		207	202	10.4	1.000	0.0476	46.3		
Toyota	Truck	All	2003	21.6	15.3	19.3	17.3	4306		219	209	10.3	0.982	0.0487	46.6		
Toyota	Truck	All	2004	22.4	15.6	20.2	17.9	4463		220	218	10.2	1.010	0.0491	50.3		
Toyota	Truck	All	2005	22.7	15.7	20.4	18.1	4498		226	237	9.6	1.057	0.0526	51.3		
Toyota	Truck	All	2006	23.4	16.3	20.8	18.6	4510		225	227	9.7	1.016	0.0503	53.8		
Toyota	Truck	All	2007	23.2	16.1	20.7	18.4	4634		238	253	9.4	1.068	0.0541	54.3		
Toyota	Truck	All	2008	23.5	16.3	21.1	18.7	4731		241	268	9.0	1.123	0.0563	56.2		
Toyota	Truck	All	2009	25.4	17.4	22.9	20.2	4407		213	242	9.3	1.145	0.0547	56.5		
Toyota	Truck	All	2010	24.7	16.9	22.3	19.6	4701		232	266	9.1	1.154	0.0561	58.6		
Toyota	Truck	All	2011	24.9	17.0	22.6	19.8	4644		225	261	9.2	1.165	0.0558	58.3		
Toyota	Truck	All	2012	24.9	17.1	22.4	19.7	4639		225	260	9.3	1.159	0.0555	58.2		
Toyota	Truck	All	2013	24.7	16.9	22.2	19.6	4729		231	267	9.2	1.164	0.0561	59.1		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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%	
Toyota	Truck	All	1979		7.0%	93.6%										99.7%	0.3%	
Toyota	Truck	All	1980		33.7%	95.9%										100.0%		
Toyota	Truck	All	1981		34.3%	94.4%						12.3%				100.0%		
Toyota	Truck	All	1982		39.5%	92.9%						11.1%				100.0%		
Toyota	Truck	All	1983		40.4%	94.0%						3.6%				97.4%	2.6%	
Toyota	Truck	All	1984		32.0%	78.5%	11.9%			23.2%		1.5%				95.7%	4.3%	
Toyota	Truck	All	1985		34.6%	75.2%	14.1%			42.5%		0.8%				90.0%	10.0%	
Toyota	Truck	All	1986		37.9%	71.9%	17.2%			41.6%						88.6%	11.4%	
Toyota	Truck	All	1987		43.0%	73.7%	15.2%			35.2%						87.1%	12.9%	
Toyota	Truck	All	1988		50.2%	78.2%	11.7%			66.4%						86.5%	13.5%	
Toyota	Truck	All	1989		48.4%	73.3%	18.9%			81.8%						89.4%	10.6%	
Toyota	Truck	All	1990		59.5%	67.2%	27.5%			85.2%						69.9%	30.1%	
Toyota	Truck	All	1991		46.4%	52.5%	42.1%			100.0%						56.8%	39.5%	3.7%
Toyota	Truck	All	1992		48.3%	59.9%	34.4%			100.0%						65.6%	31.2%	3.2%
Toyota	Truck	All	1993		46.3%	63.6%	31.0%			100.0%						51.5%	24.6%	23.9%
Toyota	Truck	All	1994		56.7%	63.0%	29.8%			100.0%			45.6%			66.7%	25.0%	8.4%
Toyota	Truck	All	1995		64.3%	46.3%	45.9%			100.0%			85.6%			48.3%	34.5%	17.1%
Toyota	Truck	All	1996		64.1%	42.9%	47.1%			100.0%			100.0%			59.2%	19.5%	21.3%
Toyota	Truck	All	1997		72.8%	25.6%	74.4%			100.0%			100.0%			23.0%	54.5%	22.5%
Toyota	Truck	All	1998	17.2%	48.3%	28.2%	63.2%			100.0%			100.0%			48.5%	45.3%	6.2%
Toyota	Truck	All	1999	13.9%	56.7%	18.7%	76.5%			100.0%			100.0%	27.7%		40.3%	53.2%	6.5%
Toyota	Truck	All	2000	20.2%	49.6%	11.8%	85.0%			100.0%			100.0%	29.2%		9.9%	52.6%	37.5%
Toyota	Truck	All	2001	18.2%	51.4%	9.0%	87.8%			100.0%			100.0%	38.4%		12.8%	33.3%	53.8%
Toyota	Truck	All	2002	19.7%	47.3%	7.1%	90.1%			100.0%			100.0%	38.4%		27.9%	43.9%	28.1%
Toyota	Truck	All	2003	16.2%	49.4%	7.0%	89.9%			100.0%			100.0%	39.8%		27.4%	44.7%	27.9%
Toyota	Truck	All	2004	26.6%	49.4%	4.6%	93.0%			100.0%			100.0%	56.8%		20.1%	60.7%	19.2%
Toyota	Truck	All	2005	25.2%	49.0%	5.1%	94.9%			100.0%			100.0%	96.1%		4.8%	59.1%	36.1%
Toyota	Truck	All	2006	24.6%	47.7%	4.4%	87.6%	7.9%		100.0%			100.0%	100.0%	7.9%		71.0%	29.0%
Toyota	Truck	All	2007	14.4%	59.8%	4.6%	91.3%	4.1%		100.0%			100.0%	89.8%	4.1%		74.4%	25.6%
Toyota	Truck	All	2008	18.7%	60.2%	3.3%	91.5%	5.3%		100.0%			100.0%	82.0%	5.3%		77.0%	23.0%
Toyota	Truck	All	2009	19.9%	63.6%	6.1%	91.4%	2.5%		100.0%			100.0%	81.6%	2.5%		93.8%	6.2%
Toyota	Truck	All	2010	12.3%	70.2%	3.0%	93.4%	3.6%		100.0%			100.0%	100.0%	3.6%		79.4%	20.6%
Toyota	Truck	All	2011	25.2%	60.4%	1.8%	96.8%	1.4%		100.0%			100.0%	100.0%	1.4%		70.9%	29.1%
Toyota	Truck	All	2012	20.4%	64.2%	1.9%	96.4%	1.6%		100.0%			100.0%	100.0%	1.6%			
Toyota	Truck	All	2013	20.7%	64.6%	2.2%	94.5%	3.3%		100.0%			100.0%	100.0%	3.3%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Toyota	All	All	1977	27.7	21.5	26.7	23.6	2685	88.1	115	82	14.6	0.730	0.0306	37.9	2593	3361
Toyota	All	All	1978	25.7	20.2	24.5	21.9	2694	90.7	119	85	14.3	0.728	0.0314	35.4	2491	3233
Toyota	All	All	1979	22.9	17.8	22.0	19.5	2733	88.1	118	83	14.7	0.718	0.0303	31.7	2166	2882
Toyota	All	All	1980	25.9	20.5	24.3	22.1	2672	91.0	119	81	14.7	0.685	0.0304	35.1	2561	3295
Toyota	All	All	1981	29.9	23.8	27.8	25.4	2621	90.5	119	79	14.9	0.664	0.0300	39.6	2851	3595
Toyota	All	All	1982	29.1	23.0	27.3	24.8	2677	91.4	124	84	14.6	0.676	0.0310	39.2	2829	3591
Toyota	All	All	1983	30.5	24.4	28.2	26.0	2754	96.2	122	88	14.5	0.716	0.0314	42.5	3221	4196
Toyota	All	All	1984	29.7	23.6	27.5	25.2	2845	99.8	125	91	14.4	0.723	0.0316	42.8	3372	4455
Toyota	All	All	1985	30.0	23.9	28.0	25.6	2889	101.6	126	96	14.0	0.760	0.0331	43.8	3420	4544
Toyota	All	All	1986	29.4	23.3	27.3	24.9	2959	98.4	127	101	13.7	0.798	0.0340	43.8	3240	4397
Toyota	All	All	1987	30.0	23.4	28.0	25.3	2966	98.7	125	107	13.1	0.852	0.0357	45.0	3320	4616
Toyota	All	All	1988	29.6	23.0	27.4	24.9	2942	96.3	123	108	12.8	0.882	0.0365	44.0	3192	4396
Toyota	All	All	1989	28.9	22.3	26.7	24.2	3004	96.3	126	114	12.6	0.908	0.0377	43.9	3113	4359
Toyota	All	All	1990	27.8	21.2	25.9	23.2	3132	97.1	132	124	12.2	0.948	0.0392	44.0	2993	4387
Toyota	All	All	1991	27.5	20.9	25.6	22.9	3173	97.3	132	124	12.3	0.949	0.0389	44.0	3023	4363
Toyota	All	All	1992	26.8	20.0	25.0	22.2	3242	101.9	136	131	12.1	0.969	0.0400	43.6	2989	4558
Toyota	All	All	1993	26.7	19.8	25.0	22.1	3285	104.7	140	136	11.8	0.977	0.0411	44.2	3091	4774
Toyota	All	All	1994	26.4	19.4	24.6	21.8	3317	104.8	141	131	12.2	0.940	0.0395	44.1	3094	4792
Toyota	All	All	1995	27.0	19.7	25.2	22.2	3369	105.9	146	141	11.7	0.980	0.0418	46.0	3222	5056
Toyota	All	All	1996	27.4	19.9	25.4	22.4	3322	107.1	147	142	11.5	0.976	0.0425	45.7	3196	5066
Toyota	All	All	1997	27.1	19.5	25.1	22.1	3371	106.2	150	149	11.3	0.997	0.0437	46.2	3190	5135
Toyota	All	All	1998	27.4	19.6	25.4	22.3	3455	108.3	155	158	10.9	1.023	0.0455	47.9	3317	5449
Toyota	All	All	1999	27.1	19.3	25.0	22.0	3536	107.8	157	163	10.9	1.041	0.0460	48.4	3310	5425
Toyota	All	All	2000	26.2	18.5	24.1	21.2	3623	107.6	166	171	10.6	1.050	0.0472	48.0	3331	5382
Toyota	All	All	2001	26.5	18.6	24.2	21.3	3639	106.9	165	175	10.5	1.073	0.0479	49.0	3441	5501
Toyota	All	All	2002	26.0	18.2	23.7	20.9	3732	111.1	176	184	10.3	1.066	0.0492	49.4	3494	5794
Toyota	All	All	2003	27.1	18.7	24.7	21.7	3624	111.0	170	178	10.2	1.083	0.0491	50.0	3668	5808
Toyota	All	All	2004	26.6	18.2	24.3	21.2	3862	111.8	181	191	10.1	1.074	0.0491	52.5	3808	6162
Toyota	All	All	2005	28.8	19.5	26.0	22.7	3711	110.6	172	186	10.0	1.093	0.0493	55.1	4050	6424
Toyota	All	All	2006	28.4	19.4	25.4	22.4	3811	108.7	177	189	10.0	1.079	0.0489	55.7	3935	6256
Toyota	All	All	2007	29.6	20.1	26.5	23.3	3808	109.8	178	200	9.7	1.116	0.0511	58.2	4052	6691
Toyota	All	All	2008	29.0	19.8	25.8	22.8	3953	108.9	186	212	9.5	1.128	0.0519	59.5	4242	6886
Toyota	All	All	2009	32.4	21.9	29.0	25.4	3612	109.8	156	180	10.1	1.146	0.0487	60.1	4145	6800
Toyota	All	All	2010	32.4	22.0	28.7	25.4	3821	109.3	167	194	9.8	1.151	0.0493	66.4	4707	7874
Toyota	All	All	2011	30.6	20.6	27.6	24.1	3960	112.2	179	209	9.5	1.164	0.0517	63.5	4410	7624
Toyota	All	All	2012	32.8	22.2	28.9	25.6	3863	112.8	171	196	9.7	1.138	0.0497	67.6	4961	8400
Toyota	All	All	2013	32.3	22.0	28.4	25.2	3937	110.5	176	205	9.5	1.150	0.0509	68.9	5033	8554

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Toyota	All	All	1975			68.8%										100.0%		
Toyota	All	All	1976			64.2%										100.0%	0.0%	
Toyota	All	All	1977			77.3%										99.8%	0.2%	
Toyota	All	All	1978			72.4%										99.6%	0.4%	
Toyota	All	All	1979		1.3%	70.1%				4.7%						99.9%	0.1%	
Toyota	All	All	1980	14.5%	6.7%	69.9%				4.1%						100.0%		
Toyota	All	All	1981	16.7%	6.4%	65.3%				5.2%		2.3%				100.0%		
Toyota	All	All	1982	19.6%	8.6%	64.4%	3.3%			10.0%		2.4%				100.0%		
Toyota	All	All	1983	22.0%	33.5%	65.0%	9.2%			30.1%		0.8%				99.4%	0.6%	
Toyota	All	All	1984	36.0%	14.5%	58.2%	29.6%			37.2%		1.7%				98.5%	1.5%	
Toyota	All	All	1985	21.9%	29.0%	56.8%	32.9%			48.1%		0.6%				95.8%	4.2%	
Toyota	All	All	1986	48.5%	15.5%	53.7%	38.6%			52.3%		0.1%	8.7%			95.0%	5.0%	
Toyota	All	All	1987	52.2%	16.0%	50.7%	44.7%			50.8%			44.3%			95.3%	4.7%	
Toyota	All	All	1988	65.6%	15.8%	47.0%	49.9%			56.2%			62.8%			95.9%	4.1%	
Toyota	All	All	1989	66.0%	14.0%	40.9%	57.0%			62.3%			72.9%			97.1%	2.9%	
Toyota	All	All	1990	69.4%	14.3%	33.2%	65.4%			88.3%			76.0%	4.3%		88.0%	12.0%	
Toyota	All	All	1991	59.2%	13.8%	34.4%	64.0%			100.0%			69.9%	3.9%		82.8%	16.1%	1.1%
Toyota	All	All	1992	45.7%	11.8%	30.8%	67.8%			100.0%			75.2%	5.8%		61.3%	38.0%	0.8%
Toyota	All	All	1993	66.0%	12.5%	30.9%	67.6%			100.0%			72.3%	6.0%		54.0%	39.6%	6.5%
Toyota	All	All	1994	64.3%	18.0%	31.7%	66.0%			100.0%			82.7%	3.7%		57.5%	39.8%	2.7%
Toyota	All	All	1995	45.4%	15.2%	19.0%	79.2%			100.0%			96.6%	4.4%		47.4%	43.0%	9.6%
Toyota	All	All	1996	70.4%	15.8%	17.0%	80.5%			100.0%			100.0%	2.8%		47.3%	41.4%	11.4%
Toyota	All	All	1997	72.7%	15.1%	13.3%	84.8%			100.0%			100.0%	2.0%		45.4%	43.7%	10.9%
Toyota	All	All	1998	68.0%	16.0%	12.4%	84.7%			100.0%			100.0%	4.4%		41.3%	50.7%	8.0%
Toyota	All	All	1999	67.4%	19.2%	9.7%	88.7%			100.0%			100.0%	17.5%		41.2%	52.4%	6.4%
Toyota	All	All	2000	66.0%	19.5%	9.2%	89.6%			100.0%			100.0%	43.7%		30.0%	48.7%	21.2%
Toyota	All	All	2001	60.8%	20.8%	7.4%	90.3%	1.0%		100.0%			100.0%	53.5%		35.0%	36.4%	28.5%
Toyota	All	All	2002	60.6%	19.9%	6.1%	91.4%	1.3%		100.0%			100.0%	67.6%	1.3%	33.0%	51.3%	15.7%
Toyota	All	All	2003	63.9%	19.3%	6.4%	91.7%	0.8%		100.0%			100.0%	75.5%	0.7%	41.4%	43.0%	15.6%
Toyota	All	All	2004	61.8%	23.7%	4.9%	91.6%	2.3%		100.0%			100.0%	79.5%	2.3%	33.6%	53.3%	13.1%
Toyota	All	All	2005	69.4%	18.9%	6.5%	88.2%	5.2%		100.0%			100.0%	98.5%	5.2%	32.4%	50.3%	17.3%
Toyota	All	All	2006	60.8%	23.0%	6.2%	86.4%	7.3%		100.0%			100.0%	100.0%	7.3%	31.8%	50.3%	17.8%
Toyota	All	All	2007	66.2%	21.0%	4.7%	85.9%	9.4%		100.0%			100.0%	96.6%	9.5%	24.2%	64.4%	11.4%
Toyota	All	All	2008	59.5%	27.3%	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	77.3%	16.9%	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	68.8%	23.5%	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	68.0%	24.7%	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	69.3%	23.7%	1.4%	83.0%	16.1%	1.4%	98.6%			100.0%	100.0%	15.6%			
Toyota	All	All	2013	65.1%	25.5%	2.9%	79.2%	18.4%	1.2%	98.8%			100.0%	100.0%	17.9%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Ford	Car	Car	1975	13.9	10.7	13.5	11.8	4223		310	140	14.5	0.466	0.0326	29.8		
Ford	Car	Car	1976	16.6	13.1	15.6	14.1	4268		306	132	15.3	0.443	0.0304	35.7		
Ford	Car	Car	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	Car	1978	18.6	14.4	18.1	15.8	3885	112.5	279	130	13.9	0.488	0.0332	36.0	2150	4060
Ford	Car	Car	1979	19.2	14.9	18.5	16.3	3621	112.5	248	119	13.9	0.512	0.0330	34.7	2198	3912
Ford	Car	Car	1980	22.5	17.4	21.9	19.1	3186	108.3	206	105	13.9	0.543	0.0329	35.7	2440	3885
Ford	Car	Car	1981	23.4	18.1	22.7	19.9	3065	113.7	185	101	13.9	0.608	0.0330	35.9	2721	4093
Ford	Car	Car	1982	24.5	18.7	24.3	20.9	3054	107.7	179	96	14.6	0.589	0.0312	37.6	2685	4051
Ford	Car	Car	1983	23.9	18.2	23.8	20.4	3212	112.6	203	106	14.1	0.568	0.0328	38.4	2739	4337
Ford	Car	Car	1984	25.3	19.5	24.9	21.6	3189	111.5	198	106	14.0	0.578	0.0329	40.7	2896	4533
Ford	Car	Car	1985	25.9	20.0	25.5	22.1	3201	111.6	198	119	12.9	0.642	0.0366	41.8	2973	4665
Ford	Car	Car	1986	26.7	20.3	26.4	22.7	3213	111.3	190	118	12.9	0.658	0.0363	43.0	3017	4795
Ford	Car	Car	1987	26.6	19.9	26.7	22.6	3232	112.9	187	115	13.3	0.649	0.0351	43.1	3036	4864
Ford	Car	Car	1988	27.0	20.2	26.9	22.9	3249	112.7	190	125	12.6	0.699	0.0381	44.0	3099	4967
Ford	Car	Car	1989	27.0	20.0	26.9	22.8	3289	113.2	186	120	13.0	0.687	0.0362	44.4	3093	5044
Ford	Car	Car	1990	26.3	19.4	26.2	22.2	3401	114.6	196	126	12.9	0.679	0.0368	44.8	3051	5152
Ford	Car	Car	1991	27.3	20.0	27.0	22.9	3280	114.0	181	132	12.3	0.749	0.0394	44.9	3176	5154
Ford	Car	Car	1992	26.8	19.3	26.8	22.4	3429	117.5	200	145	11.9	0.733	0.0416	45.9	3176	5427
Ford	Car	Car	1993	27.9	20.0	27.7	23.2	3296	114.7	184	135	12.2	0.748	0.0401	46.0	3253	5304
Ford	Car	Car	1994	27.2	19.3	27.3	22.6	3405	115.2	197	142	12.0	0.738	0.0410	46.5	3198	5367
Ford	Car	Car	1995	27.7	19.4	27.9	23.0	3367	113.8	189	146	11.7	0.793	0.0424	46.8	3220	5331
Ford	Car	Car	1996	26.3	18.4	26.4	21.8	3495	115.0	195	157	11.3	0.822	0.0442	46.0	3053	5297
Ford	Car	Car	1997	27.0	18.7	26.9	22.2	3425	115.0	192	154	11.3	0.820	0.0441	46.2	3140	5320
Ford	Car	Car	1998	27.5	18.9	27.3	22.6	3350	110.5	182	152	11.0	0.864	0.0449	46.1	3062	5093
Ford	Car	Car	1999	27.2	18.6	27.0	22.3	3416	112.6	186	163	10.6	0.901	0.0472	46.6	3087	5246
Ford	Car	Car	2000	27.2	18.6	26.4	22.1	3446	113.9	189	173	10.4	0.921	0.0493	46.9	3127	5353
Ford	Car	Car	2001	26.8	18.2	26.1	21.8	3465	114.7	192	167	10.6	0.890	0.0476	46.7	3118	5358
Ford	Car	Car	2002	27.1	18.4	25.9	21.9	3461	113.3	187	169	10.4	0.923	0.0484	47.0	3119	5343
Ford	Car	Car	2003	26.7	18.0	25.4	21.5	3608	116.2	198	182	10.2	0.932	0.0500	48.1	3138	5615
Ford	Car	Car	2004	25.7	17.2	24.7	20.8	3714	115.8	214	192	9.9	0.917	0.0517	47.7	3007	5556
Ford	Car	Car	2005	27.2	18.2	25.4	21.7	3639	116.8	194	185	10.1	0.979	0.0504	49.6	3229	5823
Ford	Car	Car	2006	26.9	17.9	25.5	21.5	3676	116.3	196	195	9.7	1.016	0.0526	49.6	3178	5789
Ford	Car	Car	2007	27.7	18.4	26.3	22.2	3583	114.4	187	188	9.8	1.035	0.0522	50.1	3258	5755
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
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
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
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
Ford	Car	Car	2012	35.3	23.2	32.8	27.8	3380	110.3	155	195	9.2	1.252	0.0567	60.8	4023	6700
Ford	Car	Car	2013	36.2	23.5	34.0	28.5	3557	111.5	150	209	8.9	1.406	0.0578	67.5	4276	7572

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Ford	Car	Car	1975			13.4%										55.2%	26.6%	18.1%
Ford	Car	Car	1976			10.9%										56.4%	24.9%	18.8%
Ford	Car	Car	1977			6.7%										55.3%	22.4%	22.3%
Ford	Car	Car	1978	4.7%		13.1%										31.1%	49.5%	19.3%
Ford	Car	Car	1979	3.1%		16.3%										39.2%	39.9%	20.9%
Ford	Car	Car	1980	6.0%		27.2%	14.5%				1.3%					47.4%	37.2%	15.3%
Ford	Car	Car	1981	29.2%		26.8%	22.0%				4.9%					44.9%	37.9%	17.2%
Ford	Car	Car	1982	42.1%		31.7%	43.7%				4.3%					53.3%	28.5%	18.2%
Ford	Car	Car	1983	30.1%		22.1%	55.8%			2.3%	26.6%					54.6%	24.8%	20.6%
Ford	Car	Car	1984	43.8%		21.1%	50.6%			18.2%	31.5%	1.7%				64.8%	17.1%	18.1%
Ford	Car	Car	1985	42.8%		21.7%	48.8%			2.4%	66.7%	0.6%				63.4%	15.7%	20.9%
Ford	Car	Car	1986	53.7%		23.4%	49.0%			38.8%	33.0%	0.4%				63.8%	21.1%	15.0%
Ford	Car	Car	1987	63.2%		21.1%	50.0%			51.1%	48.8%	0.2%				58.5%	25.9%	15.6%
Ford	Car	Car	1988	61.7%		20.7%	52.7%			73.9%	21.9%					58.8%	22.3%	19.0%
Ford	Car	Car	1989	65.9%	0.7%	19.4%	55.5%			84.8%	13.2%		9.2%			51.6%	30.9%	17.6%
Ford	Car	Car	1990	64.6%		12.8%	62.4%			90.0%	10.0%		5.6%			45.0%	35.4%	19.5%
Ford	Car	Car	1991	72.0%		15.5%	70.0%			100.0%			9.3%			53.0%	29.8%	17.1%
Ford	Car	Car	1992	64.5%		9.0%	74.0%			100.0%			4.8%			38.1%	36.4%	25.4%
Ford	Car	Car	1993	70.8%		15.1%	72.2%			100.0%			9.3%			48.9%	37.2%	13.9%
Ford	Car	Car	1994	65.0%		13.5%	76.2%			100.0%			7.9%			44.0%	37.5%	18.5%
Ford	Car	Car	1995	67.9%		14.1%	85.9%			100.0%			19.1%	9.0%		49.2%	35.5%	15.3%
Ford	Car	Car	1996	65.6%		9.9%	90.1%			100.0%			27.8%	12.7%		37.1%	44.6%	18.3%
Ford	Car	Car	1997	67.4%		8.8%	91.2%			100.0%			15.1%	5.6%		40.0%	39.4%	20.6%
Ford	Car	Car	1998	73.7%		11.0%	89.0%			100.0%			31.1%	20.9%		54.4%	29.0%	16.6%
Ford	Car	Car	1999	74.3%		9.4%	90.6%			100.0%			37.9%	14.8%		45.7%	35.0%	19.3%
Ford	Car	Car	2000	66.8%		10.7%	89.3%			100.0%			32.8%	8.0%		43.0%	19.3%	37.8%
Ford	Car	Car	2001	67.8%		8.8%	91.2%			100.0%			30.0%	14.0%		39.9%	15.2%	44.8%
Ford	Car	Car	2002	70.6%		8.9%	91.1%			100.0%			34.1%	14.3%		42.7%	18.3%	39.0%
Ford	Car	Car	2003	62.7%		9.6%	90.4%			100.0%			31.5%	16.5%		37.9%	12.0%	50.1%
Ford	Car	Car	2004	50.0%		8.7%	91.3%			100.0%			32.5%	13.5%		34.8%	12.9%	52.3%
Ford	Car	Car	2005	62.5%	3.5%	9.1%	86.6%	4.3%		100.0%			52.5%	32.4%		41.2%	9.1%	49.7%
Ford	Car	Car	2006	66.1%	2.8%	9.1%	85.4%	5.5%		100.0%			60.0%	45.6%		33.0%	24.7%	42.3%
Ford	Car	Car	2007	67.3%	4.9%	10.9%	87.6%	1.4%		100.0%			67.4%	18.5%		43.2%	25.4%	31.4%
Ford	Car	Car	2008	65.6%	4.7%	9.5%	90.5%			100.0%			77.6%	7.2%		40.0%	29.1%	30.9%
Ford	Car	Car	2009	76.9%	4.8%	7.2%	92.8%			100.0%			86.0%	20.4%		45.2%	32.9%	21.9%
Ford	Car	Car	2010	79.2%	5.0%	5.0%	90.2%	4.8%	1.5%	98.5%			87.9%	62.7%	4.8%	34.9%	48.7%	16.4%
Ford	Car	Car	2011	77.9%	4.8%	6.7%	90.3%	3.1%	1.3%	98.7%			92.8%	77.0%	3.1%	38.0%	40.0%	22.0%
Ford	Car	Car	2012	87.6%	3.0%	7.2%	87.4%	2.4%	37.4%	62.6%			100.0%	99.2%	2.4%			
Ford	Car	Car	2013	83.5%	5.9%	7.9%	72.2%	8.6%	52.6%	47.4%			100.0%	99.4%	8.6%			



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Ford	Car	Car SUV	1975														
Ford	Car	Car SUV	1976														
Ford	Car	Car SUV	1977														
Ford	Car	Car SUV	1978														
Ford	Car	Car SUV	1979														
Ford	Car	Car SUV	1980														
Ford	Car	Car SUV	1981														
Ford	Car	Car SUV	1982														
Ford	Car	Car SUV	1983														
Ford	Car	Car SUV	1984														
Ford	Car	Car SUV	1985														
Ford	Car	Car SUV	1986	23.5	18.0	23.0	20.0	3500		179	139	11.9	0.777	0.0397	41.1		
Ford	Car	Car SUV	1987	23.3	17.5	23.3	19.8	3500		179	139	11.9	0.777	0.0397	40.8		
Ford	Car	Car SUV	1988	23.0	17.5	22.1	19.4	3500		179	139	11.9	0.777	0.0397	40.3		
Ford	Car	Car SUV	1989	23.1	17.5	22.3	19.5	3500		179	139	11.9	0.777	0.0397	40.5		
Ford	Car	Car SUV	1990	23.2	17.4	22.3	19.5	3500		179	140	11.8	0.782	0.0400	40.6		
Ford	Car	Car SUV	1991	21.2	15.7	20.8	17.8	4000		231	170	11.3	0.736	0.0425	42.6		
Ford	Car	Car SUV	1992	21.2	15.6	20.5	17.7	4000		231	170	11.3	0.736	0.0425	42.4		
Ford	Car	Car SUV	1993	21.6	15.8	20.9	18.0	4000		231	170	11.3	0.736	0.0425	43.2		
Ford	Car	Car SUV	1994	21.1	15.4	20.3	17.5	4000		231	170	11.3	0.736	0.0425	42.2		
Ford	Car	Car SUV	1995	22.5	16.2	21.6	18.6	4000		244	160	11.8	0.656	0.0400	45.0		
Ford	Car	Car SUV	1996	22.3	16.0	21.7	18.5	4000		244	160	11.8	0.656	0.0400	44.7		
Ford	Car	Car SUV	1997	21.4	15.3	20.4	17.6	4000		244	160	11.9	0.656	0.0400	42.8		
Ford	Car	Car SUV	1998	21.2	15.2	20.0	17.4	4000		244	160	11.9	0.656	0.0400	42.5		
Ford	Car	Car SUV	1999	21.7	15.5	20.3	17.7	4000		244	160	11.9	0.656	0.0400	43.5		
Ford	Car	Car SUV	2000	21.0	14.8	19.8	17.2	4000		244	163	11.8	0.666	0.0406	42.1		
Ford	Car	Car SUV	2001	22.3	15.6	20.8	18.1	3826		219	202	9.5	0.942	0.0530	42.8		
Ford	Car	Car SUV	2002	23.6	16.4	21.9	19.0	3647		198	200	9.3	1.027	0.0550	43.2		
Ford	Car	Car SUV	2003	24.1	16.5	22.5	19.4	3613		194	200	9.2	1.044	0.0555	43.5		
Ford	Car	Car SUV	2004	25.1	17.0	23.5	20.2	3500		180	198	9.0	1.098	0.0565	43.9		
Ford	Car	Car SUV	2005	26.6	18.4	23.3	20.9	3517		166	181	9.8	1.092	0.0516	47.2		
Ford	Car	Car SUV	2006	27.3	19.1	23.5	21.4	3545		162	176	9.8	1.084	0.0500	49.4		
Ford	Car	Car SUV	2007	25.7	17.5	23.5	20.4	4064		189	215	9.9	1.114	0.0522	52.5		
Ford	Car	Car SUV	2008	27.0	18.3	24.5	21.4	3905		180	207	9.5	1.140	0.0527	53.5		
Ford	Car	Car SUV	2009	28.6	19.3	26.1	22.7	3791		176	213	9.0	1.200	0.0563	55.3		
Ford	Car	Car SUV	2010	28.3	19.1	25.8	22.4	3919		184	224	9.0	1.209	0.0570	55.6		
Ford	Car	Car SUV	2011	29.0	19.4	26.6	23.0	3927		188	239	8.6	1.257	0.0606	57.0		
Ford	Car	Car SUV	2012	29.6	19.9	27.0	23.4	3780		173	221	9.0	1.271	0.0580	56.1		
Ford	Car	Car SUV	2013	31.6	20.8	29.5	25.0	4107		148	224	9.6	1.576	0.0541	64.9		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Ford	Car	Car SUV	1975															
Ford	Car	Car SUV	1976															
Ford	Car	Car SUV	1977															
Ford	Car	Car SUV	1978															
Ford	Car	Car SUV	1979															
Ford	Car	Car SUV	1980															
Ford	Car	Car SUV	1981															
Ford	Car	Car SUV	1982															
Ford	Car	Car SUV	1983															
Ford	Car	Car SUV	1984															
Ford	Car	Car SUV	1985															
Ford	Car	Car SUV	1986			60.0%	40.0%			100.0%						100.0%		
Ford	Car	Car SUV	1987			14.8%	85.2%			100.0%						100.0%		
Ford	Car	Car SUV	1988			48.3%	51.7%			100.0%						100.0%		
Ford	Car	Car SUV	1989			56.4%	43.6%			100.0%						100.0%		
Ford	Car	Car SUV	1990			55.6%	44.4%			100.0%						100.0%		
Ford	Car	Car SUV	1991			21.4%	78.6%			100.0%							100.0%	
Ford	Car	Car SUV	1992			16.5%	83.5%			100.0%							100.0%	
Ford	Car	Car SUV	1993			14.0%	86.0%			100.0%							100.0%	
Ford	Car	Car SUV	1994			15.6%	84.4%			100.0%							100.0%	
Ford	Car	Car SUV	1995			41.2%	58.8%			100.0%							100.0%	
Ford	Car	Car SUV	1996			29.8%	70.2%			100.0%							100.0%	
Ford	Car	Car SUV	1997			25.4%	74.6%			100.0%							100.0%	
Ford	Car	Car SUV	1998			8.9%	91.1%			100.0%							100.0%	
Ford	Car	Car SUV	1999			6.4%	93.6%			100.0%							97.1%	2.9%
Ford	Car	Car SUV	2000			3.5%	96.5%			100.0%							97.4%	2.6%
Ford	Car	Car SUV	2001	43.3%		5.5%	94.5%			100.0%			34.8%				80.3%	19.7%
Ford	Car	Car SUV	2002	70.5%		6.7%	93.3%			100.0%			70.5%				100.0%	
Ford	Car	Car SUV	2003	77.5%		4.3%	95.7%			100.0%			77.5%				100.0%	
Ford	Car	Car SUV	2004	100.0%		3.1%	96.9%			100.0%			100.0%				100.0%	
Ford	Car	Car SUV	2005	100.0%		2.7%	93.8%	3.5%		100.0%			100.0%		3.5%		100.0%	
Ford	Car	Car SUV	2006	100.0%		3.1%	87.9%	9.1%		100.0%			100.0%		9.1%		100.0%	
Ford	Car	Car SUV	2007	100.0%		1.2%	94.4%	4.5%		100.0%			100.0%	17.4%	4.5%		45.8%	54.2%
Ford	Car	Car SUV	2008	100.0%		1.1%	91.6%	7.3%		100.0%			100.0%		7.3%		63.2%	36.8%
Ford	Car	Car SUV	2009	100.0%		0.8%	90.2%	9.0%		100.0%			100.0%	42.9%	9.0%		75.4%	24.6%
Ford	Car	Car SUV	2010	100.0%		0.4%	96.8%	2.9%		100.0%			100.0%	100.0%	2.9%		59.6%	40.4%
Ford	Car	Car SUV	2011	100.0%		0.3%	97.6%	2.0%		100.0%			100.0%	100.0%	2.0%		53.9%	46.1%
Ford	Car	Car SUV	2012	100.0%		0.5%	97.9%	1.6%	6.4%	93.6%			100.0%	100.0%	1.6%			
Ford	Car	Car SUV	2013	100.0%			100.0%		54.0%	46.0%			100.0%	97.8%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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
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
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
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
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
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
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
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
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
Ford	Car	All	1987	26.5	19.9	26.6	22.5	3235	112.9	186	115	13.3	0.651	0.0351	43.0	3036	4864
Ford	Car	All	1988	26.9	20.1	26.8	22.8	3253	112.7	189	126	12.6	0.701	0.0381	43.9	3099	4967
Ford	Car	All	1989	27.0	20.0	26.8	22.7	3291	113.2	186	120	13.0	0.688	0.0362	44.3	3093	5044
Ford	Car	All	1990	26.3	19.3	26.2	22.1	3403	114.6	196	126	12.9	0.681	0.0368	44.8	3051	5152
Ford	Car	All	1991	27.0	19.7	26.7	22.6	3314	114.0	184	134	12.3	0.748	0.0396	44.8	3176	5154
Ford	Car	All	1992	26.4	19.1	26.3	22.1	3461	117.5	202	147	11.8	0.734	0.0416	45.7	3176	5427
Ford	Car	All	1993	27.5	19.8	27.3	22.9	3327	114.7	186	136	12.2	0.747	0.0402	45.9	3253	5304
Ford	Car	All	1994	26.8	19.0	26.7	22.3	3440	115.2	199	144	11.9	0.738	0.0411	46.2	3198	5367
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	3220	5331
Ford	Car	All	1996	26.2	18.3	26.3	21.7	3502	115.0	196	157	11.3	0.820	0.0441	46.0	3053	5297
Ford	Car	All	1997	26.9	18.6	26.8	22.1	3434	115.0	192	154	11.3	0.818	0.0441	46.2	3140	5320
Ford	Car	All	1998	26.7	18.5	26.4	21.9	3414	110.5	188	153	11.1	0.844	0.0444	45.7	3062	5093
Ford	Car	All	1999	26.6	18.3	26.2	21.8	3468	112.6	191	163	10.7	0.879	0.0466	46.3	3087	5246
Ford	Car	All	2000	26.5	18.2	25.7	21.6	3492	113.9	194	173	10.5	0.900	0.0486	46.5	3127	5353
Ford	Car	All	2001	26.1	17.8	25.3	21.2	3513	114.7	195	172	10.4	0.897	0.0483	46.2	3118	5358
Ford	Car	All	2002	26.8	18.3	25.5	21.7	3476	113.3	188	172	10.3	0.931	0.0489	46.7	3119	5343
Ford	Car	All	2003	26.5	17.9	25.2	21.3	3608	116.2	198	184	10.1	0.941	0.0504	47.7	3138	5615
Ford	Car	All	2004	25.7	17.2	24.6	20.7	3700	115.8	212	193	9.8	0.928	0.0520	47.5	3007	5556
Ford	Car	All	2005	27.2	18.3	25.2	21.6	3625	116.8	191	184	10.0	0.992	0.0505	49.3	3229	5823
Ford	Car	All	2006	26.9	18.0	25.3	21.5	3663	116.3	192	193	9.8	1.023	0.0523	49.6	3178	5789
Ford	Car	All	2007	27.4	18.3	25.8	21.9	3656	114.4	187	193	9.8	1.047	0.0522	50.5	3258	5755
Ford	Car	All	2008	27.8	18.5	26.2	22.2	3731	115.2	190	207	9.3	1.107	0.0549	52.4	3327	6006
Ford	Car	All	2009	29.6	19.5	27.5	23.2	3615	113.8	176	199	9.5	1.139	0.0543	54.2	3499	6127
Ford	Car	All	2010	30.4	20.2	28.2	24.1	3674	113.6	179	204	9.3	1.149	0.0551	57.0	3661	6534
Ford	Car	All	2011	31.2	20.7	29.1	24.8	3690	112.1	179	216	9.1	1.200	0.0576	58.4	3721	6600
Ford	Car	All	2012	34.1	22.5	31.5	26.9	3454	110.3	158	199	9.2	1.255	0.0569	59.9	4023	6700
Ford	Car	All	2013	34.7	22.6	32.5	27.4	3719	111.5	150	213	9.1	1.456	0.0567	66.7	4276	7572

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	4.7%		13.1%										31.1%	49.5%	19.3%
Ford	Car	All	1979	3.1%		16.3%										39.2%	39.9%	20.9%
Ford	Car	All	1980	6.0%		27.2%	14.5%				1.3%					47.4%	37.2%	15.3%
Ford	Car	All	1981	29.2%		26.8%	22.0%				4.9%					44.9%	37.9%	17.2%
Ford	Car	All	1982	42.1%		31.7%	43.7%				4.3%					53.3%	28.5%	18.2%
Ford	Car	All	1983	30.1%		22.1%	55.8%			2.3%	26.6%					54.6%	24.8%	20.6%
Ford	Car	All	1984	43.8%		21.1%	50.6%			18.2%	31.5%	1.7%				64.8%	17.1%	18.1%
Ford	Car	All	1985	42.8%		21.7%	48.8%			2.4%	66.7%	0.6%				63.4%	15.7%	20.9%
Ford	Car	All	1986	53.7%		23.4%	49.0%			38.8%	33.0%	0.4%				63.8%	21.1%	15.0%
Ford	Car	All	1987	62.4%		21.0%	50.4%			51.6%	48.2%	0.2%				59.0%	25.6%	15.4%
Ford	Car	All	1988	60.8%		21.1%	52.7%			74.3%	21.6%					59.4%	21.9%	18.7%
Ford	Car	All	1989	65.1%	0.7%	19.9%	55.4%			85.0%	13.0%		9.1%			52.2%	30.5%	17.4%
Ford	Car	All	1990	63.9%		13.2%	62.2%			90.1%	9.9%		5.6%			45.6%	35.1%	19.3%
Ford	Car	All	1991	68.7%		15.7%	70.4%			100.0%			8.9%			50.6%	33.1%	16.3%
Ford	Car	All	1992	61.0%		9.4%	74.5%			100.0%			4.6%			36.0%	40.0%	24.0%
Ford	Car	All	1993	67.7%		15.0%	72.8%			100.0%			8.9%			46.8%	40.0%	13.2%
Ford	Car	All	1994	61.2%		13.6%	76.7%			100.0%			7.4%			41.4%	41.1%	17.4%
Ford	Car	All	1995	67.5%		14.3%	85.7%			100.0%			19.0%	8.9%		48.9%	35.8%	15.2%
Ford	Car	All	1996	64.7%		10.1%	89.9%			100.0%			27.5%	12.6%		36.6%	45.3%	18.1%
Ford	Car	All	1997	66.4%		9.0%	91.0%			100.0%			14.9%	5.5%		39.4%	40.3%	20.3%
Ford	Car	All	1998	66.5%		10.8%	89.2%			100.0%			28.1%	18.8%		49.1%	35.9%	15.0%
Ford	Car	All	1999	67.7%		9.2%	90.8%			100.0%			34.5%	13.5%		41.6%	40.6%	17.8%
Ford	Car	All	2000	61.3%		10.1%	89.9%			100.0%			30.0%	7.4%		39.4%	25.8%	34.8%
Ford	Car	All	2001	64.5%		8.3%	91.7%			100.0%			30.6%	12.1%		34.6%	23.8%	41.5%
Ford	Car	All	2002	70.6%		8.7%	91.3%			100.0%			37.1%	13.2%		39.2%	25.0%	35.8%
Ford	Car	All	2003	63.8%		9.2%	90.8%			100.0%			35.2%	15.2%		34.9%	18.9%	46.2%
Ford	Car	All	2004	53.1%		8.4%	91.6%			100.0%			36.7%	12.6%		32.6%	18.4%	49.0%
Ford	Car	All	2005	66.9%	3.1%	8.3%	87.5%	4.2%		100.0%			58.0%	28.6%	0.4%	36.4%	19.6%	43.9%
Ford	Car	All	2006	69.3%	2.5%	8.5%	85.7%	5.8%		100.0%			63.8%	41.2%	0.9%	29.9%	31.8%	38.3%
Ford	Car	All	2007	72.3%	4.2%	9.5%	88.7%	1.9%		100.0%			72.4%	18.4%	0.7%	36.6%	28.5%	34.9%
Ford	Car	All	2008	75.0%	3.4%	7.2%	90.8%	2.0%		100.0%			83.7%	5.3%	2.0%	29.2%	38.3%	32.5%
Ford	Car	All	2009	82.7%	3.6%	5.6%	92.1%	2.2%		100.0%			89.5%	26.0%	2.2%	34.0%	43.4%	22.6%
Ford	Car	All	2010	84.2%	3.8%	3.9%	91.8%	4.3%	1.1%	98.9%			90.8%	71.7%	4.3%	26.5%	51.3%	22.2%
Ford	Car	All	2011	83.9%	3.5%	4.9%	92.3%	2.8%	0.9%	99.1%			94.8%	83.2%	2.8%	27.7%	43.8%	28.5%
Ford	Car	All	2012	89.9%	2.4%	6.0%	89.3%	2.3%	31.7%	68.3%			100.0%	99.4%	2.3%			
Ford	Car	All	2013	88.4%	4.2%	5.6%	80.4%	6.1%	53.1%	46.9%			100.0%	98.9%	6.1%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
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		
Ford	Truck	Van	1991	19.8	14.7	19.2	16.6	4283		236	156	12.9	0.690	0.0368	42.6		
Ford	Truck	Van	1992	19.7	14.6	18.9	16.4	4427		239	156	13.2	0.685	0.0357	43.6		
Ford	Truck	Van	1993	20.8	15.2	20.2	17.4	4280		220	158	12.8	0.740	0.0370	44.7		
Ford	Truck	Van	1994	19.9	14.5	19.3	16.6	4437		237	161	12.9	0.705	0.0365	44.3		
Ford	Truck	Van	1995	21.7	15.5	21.3	18.0	4182		239	149	13.1	0.640	0.0357	45.4		
Ford	Truck	Van	1996	21.4	15.3	20.8	17.7	4214		235	178	11.6	0.772	0.0426	45.3		
Ford	Truck	Van	1997	20.7	14.7	20.2	17.1	4408		229	177	12.0	0.781	0.0401	45.6		
Ford	Truck	Van	1998	22.4	15.7	21.7	18.4	4205		227	186	11.0	0.823	0.0445	47.0		
Ford	Truck	Van	1999	21.0	14.7	20.2	17.2	4578		238	198	11.2	0.837	0.0433	48.1		
Ford	Truck	Van	2000	21.6	15.1	20.7	17.7	4543		236	200	11.0	0.849	0.0440	49.2		
Ford	Truck	Van	2001	18.0	12.5	17.3	14.7	5337		296	241	10.8	0.816	0.0451	48.0		
Ford	Truck	Van	2002	21.9	15.2	20.4	17.7	4570		238	202	11.0	0.851	0.0443	50.1		
Ford	Truck	Van	2003	22.2	15.2	20.9	17.9	4613		241	205	10.9	0.852	0.0445	51.3		
Ford	Truck	Van	2004	21.5	14.6	20.4	17.4	4620		253	203	11.1	0.803	0.0439	49.7		
Ford	Truck	Van	2005	23.5	16.1	21.6	18.8	4464		223	204	10.7	0.937	0.0457	52.6		
Ford	Truck	Van	2006	22.6	15.4	20.9	18.1	4530		232	208	10.7	0.924	0.0461	51.5		
Ford	Truck	Van	2007	24.6	16.7	22.8	19.7	4283		205	201	10.5	1.005	0.0471	52.7		
Ford	Truck	Van	2008	24.0	16.0	22.9	19.3	4500		213	265	8.7	1.244	0.0589	54.0		
Ford	Truck	Van	2009	24.4	16.3	23.2	19.6	4500		213	265	8.7	1.244	0.0589	54.9		
Ford	Truck	Van	2010	30.3	21.7	24.9	23.4	3500		122	140	11.9	1.148	0.0400	53.1		
Ford	Truck	Van	2011	27.9	19.4	24.1	21.9	3768		141	150	11.9	1.110	0.0400	52.6		
Ford	Truck	Van	2012	28.7	19.7	25.3	22.6	3707		137	144	12.3	1.088	0.0389	53.2		
Ford	Truck	Van	2013	17.5	12.2	15.8	14.1	5948		306	241	11.9	0.787	0.0405	52.0		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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%
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		7.9%	1.5%	89.1%			100.0%							62.5%	37.5%
Ford	Truck	Van	1991		10.4%	1.3%	91.3%			100.0%							67.7%	32.3%
Ford	Truck	Van	1992		7.3%	1.1%	92.8%			100.0%							63.9%	36.1%
Ford	Truck	Van	1993	21.2%	5.5%	0.9%	94.6%			100.0%							77.0%	23.0%
Ford	Truck	Van	1994	18.6%	5.1%	0.6%	93.2%			100.0%							64.1%	35.9%
Ford	Truck	Van	1995	68.2%	14.4%		96.7%			100.0%							84.2%	15.8%
Ford	Truck	Van	1996	68.4%	1.9%		96.1%			100.0%							82.5%	17.5%
Ford	Truck	Van	1997	42.0%	3.5%		100.0%			100.0%							64.8%	35.2%
Ford	Truck	Van	1998	82.8%			100.0%			100.0%							82.8%	17.2%
Ford	Truck	Van	1999	73.5%			100.0%			100.0%							73.5%	26.5%
Ford	Truck	Van	2000	83.4%			100.0%			100.0%							83.4%	16.6%
Ford	Truck	Van	2001	7.9%	32.8%		100.0%			100.0%							7.9%	92.1%
Ford	Truck	Van	2002	80.2%			100.0%			100.0%							80.2%	19.8%
Ford	Truck	Van	2003	80.2%			100.0%			100.0%							80.2%	19.8%
Ford	Truck	Van	2004	82.4%			100.0%			100.0%							82.4%	17.6%
Ford	Truck	Van	2005	67.4%	20.6%		57.1%	42.9%		100.0%			42.9%				88.0%	12.0%
Ford	Truck	Van	2006	62.2%	13.7%		62.1%	37.9%		100.0%			37.9%				75.9%	24.1%
Ford	Truck	Van	2007	78.0%	22.0%		34.6%	65.4%		100.0%			65.4%				100.0%	
Ford	Truck	Van	2008	64.8%	35.2%		100.0%			100.0%			100.0%				100.0%	
Ford	Truck	Van	2009	77.3%	22.7%		100.0%			100.0%			100.0%	100.0%			100.0%	
Ford	Truck	Van	2010	100.0%			100.0%			100.0%			100.0%				100.0%	
Ford	Truck	Van	2011	89.4%			100.0%			100.0%			89.4%				89.4%	10.6%
Ford	Truck	Van	2012	92.0%			100.0%			100.0%			92.0%					
Ford	Truck	Van	2013				100.0%			100.0%								

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Ford	Truck	Truck SUV	1975	10.6	8.5	9.7	9.0	5000		302	130	16.7	0.430	0.0260	26.5		
Ford	Truck	Truck SUV	1976	13.7	11.0	12.5	11.6	5000		302	127	17.0	0.420	0.0254	34.5		
Ford	Truck	Truck SUV	1977	14.5	11.9	12.8	12.3	5000		302	141	15.7	0.467	0.0282	36.3		
Ford	Truck	Truck SUV	1978	13.2	10.6	12.2	11.2	5000		362	165	13.9	0.455	0.0330	33.1		
Ford	Truck	Truck SUV	1979	11.0	9.0	9.7	9.3	5000		351	177	13.1	0.504	0.0354	27.5		
Ford	Truck	Truck SUV	1980	14.0	11.3	12.6	11.8	4738		321	142	15.0	0.442	0.0300	33.2		
Ford	Truck	Truck SUV	1981	15.1	12.2	13.7	12.8	4686		321	137	15.2	0.428	0.0292	35.8		
Ford	Truck	Truck SUV	1982	14.8	12.0	13.2	12.5	4677		319	138	15.2	0.433	0.0295	34.9		
Ford	Truck	Truck SUV	1983	15.3	12.2	14.0	13.0	4673		318	137	15.2	0.431	0.0293	36.2		
Ford	Truck	Truck SUV	1984	18.3	14.6	17.0	15.6	3989		226	119	15.2	0.544	0.0296	36.8		
Ford	Truck	Truck SUV	1985	18.8	14.8	17.8	16.0	3978		226	127	14.6	0.568	0.0312	37.8		
Ford	Truck	Truck SUV	1986	19.8	15.4	19.0	16.8	3975		226	146	12.7	0.680	0.0372	39.4		
Ford	Truck	Truck SUV	1987	20.0	15.4	19.3	17.0	3972		221	145	12.7	0.690	0.0372	39.9		
Ford	Truck	Truck SUV	1988	19.6	15.0	18.8	16.6	4004		226	149	12.5	0.692	0.0377	39.2		
Ford	Truck	Truck SUV	1989	18.6	14.1	17.8	15.7	4494		248	153	13.6	0.651	0.0342	42.2		
Ford	Truck	Truck SUV	1990	18.0	13.4	17.7	15.2	4584		265	160	13.4	0.635	0.0350	41.7		
Ford	Truck	Truck SUV	1991	19.8	14.7	19.2	16.6	4491		240	172	12.3	0.723	0.0384	44.5		
Ford	Truck	Truck SUV	1992	19.6	14.6	18.8	16.4	4502		241	171	12.4	0.716	0.0380	44.2		
Ford	Truck	Truck SUV	1993	19.7	14.5	19.0	16.4	4514		244	173	12.3	0.718	0.0384	44.6		
Ford	Truck	Truck SUV	1994	19.7	14.5	18.9	16.4	4511		242	173	12.3	0.720	0.0384	44.6		
Ford	Truck	Truck SUV	1995	19.6	14.3	18.7	16.2	4557		256	171	12.5	0.675	0.0376	44.6		
Ford	Truck	Truck SUV	1996	19.6	14.0	19.1	16.2	4539		261	167	12.7	0.643	0.0369	44.6		
Ford	Truck	Truck SUV	1997	18.7	13.4	17.9	15.4	4762		280	191	12.0	0.680	0.0400	44.5		
Ford	Truck	Truck SUV	1998	18.2	13.0	17.5	15.0	4947		287	199	12.0	0.690	0.0401	45.0		
Ford	Truck	Truck SUV	1999	18.1	12.8	17.5	14.9	5041		288	218	11.2	0.762	0.0436	45.5		
Ford	Truck	Truck SUV	2000	18.4	12.9	17.7	15.1	5010		288	221	11.1	0.768	0.0441	46.1		
Ford	Truck	Truck SUV	2001	20.9	14.6	19.8	17.0	4429		238	210	10.4	0.893	0.0477	46.4		
Ford	Truck	Truck SUV	2002	19.6	13.6	18.5	15.9	4552		252	220	10.2	0.881	0.0485	44.5		
Ford	Truck	Truck SUV	2003	19.0	13.1	18.1	15.5	4958		267	232	10.5	0.878	0.0473	46.9		
Ford	Truck	Truck SUV	2004	19.2	13.3	18.0	15.6	4916		266	230	10.5	0.873	0.0472	47.1		
Ford	Truck	Truck SUV	2005	20.2	13.9	18.6	16.2	4760		247	233	10.2	0.958	0.0487	48.1		
Ford	Truck	Truck SUV	2006	20.2	13.8	18.8	16.3	4947		253	236	10.3	0.943	0.0476	50.1		
Ford	Truck	Truck SUV	2007	21.1	14.4	19.8	17.0	4736		236	236	10.0	1.016	0.0499	50.2		
Ford	Truck	Truck SUV	2008	22.5	15.3	20.7	18.0	4582		220	225	10.1	1.039	0.0491	51.8		
Ford	Truck	Truck SUV	2009	24.1	16.3	22.4	19.3	4468		206	238	9.5	1.170	0.0535	54.2		
Ford	Truck	Truck SUV	2010	23.1	15.8	21.3	18.5	4717		224	244	9.7	1.116	0.0521	54.9		
Ford	Truck	Truck SUV	2011	24.5	16.7	22.6	19.6	4725		221	269	9.0	1.239	0.0573	57.9		
Ford	Truck	Truck SUV	2012	24.8	16.9	22.7	19.8	4659		216	264	9.1	1.254	0.0570	57.5		
Ford	Truck	Truck SUV	2013	26.8	18.0	24.8	21.4	4614		186	262	9.2	1.497	0.0566	62.0		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Ford	Truck	Truck SUV	1975		100.0%	36.1%											100.0%	
Ford	Truck	Truck SUV	1976		100.0%	33.6%											100.0%	
Ford	Truck	Truck SUV	1977		100.0%	25.9%											100.0%	
Ford	Truck	Truck SUV	1978		100.0%	21.1%											100.0%	
Ford	Truck	Truck SUV	1979		100.0%	18.6%											100.0%	
Ford	Truck	Truck SUV	1980		100.0%	28.2%											100.0%	
Ford	Truck	Truck SUV	1981		100.0%	33.6%											100.0%	
Ford	Truck	Truck SUV	1982		100.0%	28.8%											100.0%	
Ford	Truck	Truck SUV	1983		100.0%	24.3%											100.0%	
Ford	Truck	Truck SUV	1984		100.0%	22.6%										62.9%	37.1%	
Ford	Truck	Truck SUV	1985		100.0%	38.1%	38.4%			5.9%		0.0%				65.2%	34.8%	
Ford	Truck	Truck SUV	1986		100.0%	30.2%	59.9%			87.7%						64.8%	35.2%	
Ford	Truck	Truck SUV	1987		100.0%	37.4%	50.3%			92.9%						68.4%	31.6%	
Ford	Truck	Truck SUV	1988		100.0%	33.7%	51.6%			100.0%						66.3%	33.7%	
Ford	Truck	Truck SUV	1989		100.0%	28.0%	55.6%			100.0%						50.2%	49.8%	
Ford	Truck	Truck SUV	1990		100.0%	21.6%	78.3%			100.0%						40.7%	59.3%	
Ford	Truck	Truck SUV	1991		100.0%	15.4%	84.6%			100.0%							100.0%	
Ford	Truck	Truck SUV	1992		100.0%	12.7%	87.3%			100.0%							100.0%	
Ford	Truck	Truck SUV	1993		100.0%	10.8%	89.2%			100.0%							100.0%	
Ford	Truck	Truck SUV	1994		100.0%	6.4%	93.6%			100.0%							100.0%	
Ford	Truck	Truck SUV	1995		78.4%	3.8%	96.2%			100.0%							100.0%	
Ford	Truck	Truck SUV	1996		70.4%	3.1%	96.9%			100.0%							100.0%	
Ford	Truck	Truck SUV	1997		71.6%	1.1%	98.9%			100.0%							58.8%	41.2%
Ford	Truck	Truck SUV	1998		78.4%	0.9%	99.1%			100.0%							45.3%	54.7%
Ford	Truck	Truck SUV	1999		75.2%	0.5%	99.5%			100.0%			4.6%				42.7%	57.3%
Ford	Truck	Truck SUV	2000		71.4%	0.4%	99.6%			100.0%							42.9%	57.1%
Ford	Truck	Truck SUV	2001	30.7%	54.7%	1.0%	99.0%			100.0%			22.1%				61.8%	38.2%
Ford	Truck	Truck SUV	2002		63.3%	0.9%	99.1%			100.0%			12.8%				17.7%	82.3%
Ford	Truck	Truck SUV	2003		60.4%	0.0%	100.0%			100.0%			17.6%				53.6%	46.4%
Ford	Truck	Truck SUV	2004	3.2%	59.8%		100.0%			100.0%			16.3%				57.3%	42.7%
Ford	Truck	Truck SUV	2005		71.9%	0.3%	98.3%	1.4%		100.0%			62.1%	25.0%	1.4%		64.2%	35.8%
Ford	Truck	Truck SUV	2006		67.7%	0.2%	96.7%	3.1%		100.0%			59.5%	36.6%	3.1%		66.6%	33.4%
Ford	Truck	Truck SUV	2007		72.5%	0.2%	97.3%	2.5%		100.0%			64.3%	15.2%	2.5%		19.5%	80.5%
Ford	Truck	Truck SUV	2008		79.7%		95.7%	4.3%		100.0%			74.5%	10.2%	4.3%		39.6%	60.4%
Ford	Truck	Truck SUV	2009	17.7%	73.6%		95.3%	4.7%		100.0%			85.1%	43.9%	4.7%		66.4%	33.6%
Ford	Truck	Truck SUV	2010	8.6%	75.9%		98.0%	2.0%	2.5%	97.5%			76.5%	64.0%	2.0%		31.5%	68.5%
Ford	Truck	Truck SUV	2011	19.5%	73.7%		98.8%	1.2%	1.8%	98.2%			100.0%	100.0%	1.2%		29.3%	70.7%
Ford	Truck	Truck SUV	2012	19.6%	73.3%		99.2%	0.8%	4.5%	95.5%			100.0%	100.0%	0.8%			
Ford	Truck	Truck SUV	2013	26.5%	69.6%		100.0%		37.4%	62.6%			100.0%	89.8%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Ford	Truck	Pickup	1975	12.6	9.9	11.8	10.7	4181		325	138	14.4	0.437	0.0328	26.9		
Ford	Truck	Pickup	1976	13.9	11.2	12.5	11.8	4229		332	139	14.4	0.425	0.0326	30.2		
Ford	Truck	Pickup	1977	15.9	12.7	14.9	13.6	4189		335	155	13.0	0.470	0.0367	34.6		
Ford	Truck	Pickup	1978	15.9	12.7	14.7	13.5	4216		327	147	13.6	0.455	0.0346	34.6		
Ford	Truck	Pickup	1979	14.8	12.1	13.4	12.6	4144		318	156	12.9	0.491	0.0370	31.5		
Ford	Truck	Pickup	1980	18.0	14.4	16.6	15.3	4032		287	127	14.5	0.453	0.0312	37.0		
Ford	Truck	Pickup	1981	19.3	15.3	18.1	16.4	3890		281	121	14.5	0.445	0.0309	38.1		
Ford	Truck	Pickup	1982	18.3	14.6	16.8	15.5	3972		292	126	14.3	0.441	0.0318	36.9		
Ford	Truck	Pickup	1983	20.3	16.1	19.0	17.3	3579		233	110	14.7	0.499	0.0304	37.2		
Ford	Truck	Pickup	1984	19.5	15.4	18.3	16.6	3768		251	119	14.6	0.492	0.0313	37.5		
Ford	Truck	Pickup	1985	20.3	16.1	19.0	17.3	3688		251	125	13.7	0.520	0.0337	38.2		
Ford	Truck	Pickup	1986	20.6	16.2	19.2	17.5	3793		249	130	13.6	0.552	0.0343	39.4		
Ford	Truck	Pickup	1987	20.9	16.4	19.5	17.7	3761		235	134	13.1	0.600	0.0358	39.8		
Ford	Truck	Pickup	1988	21.2	16.3	20.0	17.8	3791		233	134	13.3	0.602	0.0351	40.4		
Ford	Truck	Pickup	1989	20.4	15.7	19.2	17.2	4023		248	141	13.1	0.603	0.0352	41.4		
Ford	Truck	Pickup	1990	20.8	15.7	20.0	17.5	3994		245	142	13.0	0.614	0.0358	42.0		
Ford	Truck	Pickup	1991	21.0	15.7	20.1	17.6	3986		245	147	12.7	0.632	0.0370	42.3		
Ford	Truck	Pickup	1992	20.6	15.2	19.8	17.2	4178		251	145	13.3	0.609	0.0349	43.4		
Ford	Truck	Pickup	1993	21.2	15.5	20.4	17.6	4109		246	154	12.6	0.651	0.0375	43.8		
Ford	Truck	Pickup	1994	21.4	15.6	20.4	17.7	4097		240	153	12.7	0.661	0.0373	44.1		
Ford	Truck	Pickup	1995	20.3	14.7	19.5	16.8	4322		264	162	12.6	0.638	0.0373	44.2		
Ford	Truck	Pickup	1996	21.4	15.5	20.3	17.6	4065		230	147	12.9	0.675	0.0361	44.0		
Ford	Truck	Pickup	1997	21.2	15.3	19.9	17.4	4293		246	186	11.4	0.761	0.0428	45.7		
Ford	Truck	Pickup	1998	20.8	14.9	19.6	17.1	4277		244	184	11.3	0.761	0.0428	44.6		
Ford	Truck	Pickup	1999	20.3	14.5	19.1	16.6	4280		246	187	11.3	0.764	0.0433	43.5		
Ford	Truck	Pickup	2000	20.5	14.6	19.0	16.7	4309		247	190	11.2	0.773	0.0436	44.1		
Ford	Truck	Pickup	2001	19.8	14.0	18.2	16.0	4561		268	219	10.5	0.818	0.0476	45.0		
Ford	Truck	Pickup	2002	20.0	14.1	18.5	16.2	4519		262	217	10.5	0.830	0.0476	45.2		
Ford	Truck	Pickup	2003	20.0	14.1	18.3	16.1	4592		262	217	10.6	0.830	0.0469	46.0		
Ford	Truck	Pickup	2004	19.4	13.5	17.7	15.6	5140		281	245	10.5	0.868	0.0474	49.6		
Ford	Truck	Pickup	2005	19.1	13.2	17.5	15.4	5288		286	250	10.5	0.870	0.0471	50.4		
Ford	Truck	Pickup	2006	19.0	13.2	17.4	15.3	5369		292	256	10.5	0.875	0.0473	50.8		
Ford	Truck	Pickup	2007	19.4	13.4	17.9	15.6	5259		284	250	10.5	0.878	0.0471	51.0		
Ford	Truck	Pickup	2008	19.9	13.7	18.4	16.0	5175		277	244	10.6	0.882	0.0468	51.2		
Ford	Truck	Pickup	2009	21.0	14.5	19.2	16.8	5278		282	267	10.0	0.953	0.0502	55.2		
Ford	Truck	Pickup	2010	20.7	14.2	19.1	16.6	5486		294	280	9.9	0.954	0.0508	56.6		
Ford	Truck	Pickup	2011	21.7	14.9	19.9	17.4	5373		253	313	9.0	1.249	0.0573	58.4		
Ford	Truck	Pickup	2012	21.5	14.7	20.0	17.3	5807		262	351	8.7	1.376	0.0604	62.6		
Ford	Truck	Pickup	2013	21.7	14.8	20.2	17.5	5781		261	362	8.4	1.420	0.0625	62.9		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Ford	Truck	Pickup	1975		15.5%	39.6%											11.6%	88.4%
Ford	Truck	Pickup	1976		20.4%	42.8%											8.6%	91.4%
Ford	Truck	Pickup	1977		20.6%	38.8%											9.2%	90.8%
Ford	Truck	Pickup	1978		26.1%	39.1%											8.5%	91.5%
Ford	Truck	Pickup	1979		17.5%	33.5%											10.0%	90.0%
Ford	Truck	Pickup	1980		19.5%	54.8%											14.8%	85.2%
Ford	Truck	Pickup	1981		12.5%	53.7%	10.3%										14.7%	85.3%
Ford	Truck	Pickup	1982		17.0%	45.3%											6.9%	93.1%
Ford	Truck	Pickup	1983		19.7%	53.0%	13.6%					1.3%					45.2%	54.8%
Ford	Truck	Pickup	1984		28.5%	49.2%	15.8%					0.6%					37.6%	62.4%
Ford	Truck	Pickup	1985		25.8%	53.2%	25.9%			25.2%		0.2%					37.1%	62.9%
Ford	Truck	Pickup	1986		27.1%	49.3%	33.4%			60.9%		0.3%					38.0%	62.0%
Ford	Truck	Pickup	1987		29.5%	59.8%	20.8%			88.0%		0.2%					47.7%	52.3%
Ford	Truck	Pickup	1988		28.5%	61.3%	27.0%			90.9%							49.0%	51.0%
Ford	Truck	Pickup	1989		30.9%	62.6%	28.4%			100.0%							39.4%	60.6%
Ford	Truck	Pickup	1990		25.7%	45.4%	54.4%			100.0%							43.7%	56.3%
Ford	Truck	Pickup	1991		24.2%	49.2%	50.8%			100.0%							45.6%	54.4%
Ford	Truck	Pickup	1992		23.6%	45.6%	54.4%			100.0%							40.5%	59.5%
Ford	Truck	Pickup	1993		25.1%	46.2%	53.8%			100.0%							46.3%	53.7%
Ford	Truck	Pickup	1994		24.6%	46.5%	53.5%			100.0%							50.9%	49.1%
Ford	Truck	Pickup	1995		30.3%	42.0%	58.0%			100.0%							31.5%	68.5%
Ford	Truck	Pickup	1996		21.2%	49.1%	50.9%			100.0%							54.6%	45.4%
Ford	Truck	Pickup	1997		29.9%	29.1%	70.9%			100.0%							30.7%	69.3%
Ford	Truck	Pickup	1998		30.0%	27.7%	72.3%			100.0%							37.4%	62.6%
Ford	Truck	Pickup	1999		33.9%	21.0%	79.0%			100.0%							41.0%	59.0%
Ford	Truck	Pickup	2000		32.9%	21.9%	78.1%			100.0%							43.4%	56.6%
Ford	Truck	Pickup	2001		37.0%	12.2%	87.8%			100.0%			2.6%				31.4%	68.6%
Ford	Truck	Pickup	2002		37.4%	12.2%	87.8%			100.0%			6.5%				30.9%	69.1%
Ford	Truck	Pickup	2003		35.9%	12.1%	87.9%			100.0%			5.3%				29.0%	71.0%
Ford	Truck	Pickup	2004		47.0%	6.5%	93.5%			100.0%			45.3%	42.0%			20.2%	79.8%
Ford	Truck	Pickup	2005		46.7%	4.5%	95.5%			100.0%			50.1%	47.0%			15.1%	84.9%
Ford	Truck	Pickup	2006		46.1%	4.7%	95.3%			100.0%			57.0%	53.2%			13.7%	86.3%
Ford	Truck	Pickup	2007		43.1%	4.8%	95.2%			100.0%			53.1%	61.4%			13.9%	86.1%
Ford	Truck	Pickup	2008		41.4%	4.9%	95.1%			100.0%			51.4%	49.4%			17.6%	82.4%
Ford	Truck	Pickup	2009		47.7%	3.0%	97.0%			100.0%			74.3%	54.7%			18.4%	81.6%
Ford	Truck	Pickup	2010		55.6%	1.2%	98.8%			100.0%			80.7%	21.7%			6.9%	93.1%
Ford	Truck	Pickup	2011		57.7%	2.6%	97.4%		23.7%	76.3%			85.1%	79.2%				100.0%
Ford	Truck	Pickup	2012		67.0%		100.0%		38.5%	61.5%			95.8%	100.0%				
Ford	Truck	Pickup	2013		65.1%		100.0%		38.3%	61.7%			96.2%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Ford	Truck	All	1975	12.5	9.9	11.8	10.7	4182		327	140	14.2	0.437	0.0334	26.8		
Ford	Truck	All	1976	13.8	11.1	12.6	11.7	4208		332	141	14.2	0.429	0.0335	29.8		
Ford	Truck	All	1977	15.8	12.6	14.6	13.4	4198		336	155	13.0	0.467	0.0368	34.1		
Ford	Truck	All	1978	15.5	12.4	14.3	13.2	4239		331	147	13.6	0.450	0.0346	33.8		
Ford	Truck	All	1979	14.0	11.4	12.6	11.9	4283		323	158	13.0	0.490	0.0366	30.8		
Ford	Truck	All	1980	17.4	13.9	16.0	14.8	4172		294	129	14.7	0.447	0.0307	36.9		
Ford	Truck	All	1981	18.6	14.8	17.3	15.8	4023		287	123	14.7	0.440	0.0305	38.0		
Ford	Truck	All	1982	17.5	14.0	16.0	14.8	4151		299	128	14.6	0.435	0.0310	36.8		
Ford	Truck	All	1983	19.1	15.2	17.8	16.3	3809		253	116	14.8	0.483	0.0303	37.1		
Ford	Truck	All	1984	18.8	14.9	17.6	16.0	3909		258	123	14.6	0.493	0.0312	37.2		
Ford	Truck	All	1985	19.3	15.2	18.1	16.4	3863		257	129	13.9	0.518	0.0331	37.9		
Ford	Truck	All	1986	20.3	15.9	19.1	17.2	3923		244	132	13.8	0.575	0.0339	40.0		
Ford	Truck	All	1987	20.4	15.8	19.3	17.3	3931		234	140	13.1	0.633	0.0358	40.4		
Ford	Truck	All	1988	20.5	15.7	19.5	17.3	3954		233	139	13.2	0.628	0.0354	40.8		
Ford	Truck	All	1989	20.0	15.2	19.0	16.8	4160		242	145	13.2	0.635	0.0350	41.9		
Ford	Truck	All	1990	20.1	15.1	19.4	16.9	4137		246	147	13.1	0.634	0.0358	41.9		
Ford	Truck	All	1991	20.4	15.2	19.7	17.1	4181		242	156	12.6	0.668	0.0373	43.0		
Ford	Truck	All	1992	20.1	14.9	19.4	16.8	4304		246	153	13.1	0.649	0.0357	43.6		
Ford	Truck	All	1993	20.8	15.2	20.1	17.3	4232		238	159	12.6	0.690	0.0375	44.2		
Ford	Truck	All	1994	20.7	15.2	19.9	17.2	4246		240	159	12.7	0.681	0.0373	44.2		
Ford	Truck	All	1995	20.6	14.9	20.0	17.1	4312		253	159	12.8	0.645	0.0368	44.7		
Ford	Truck	All	1996	20.8	15.0	20.1	17.2	4249		241	162	12.5	0.694	0.0382	44.5		
Ford	Truck	All	1997	20.2	14.5	19.2	16.7	4461		255	186	11.7	0.737	0.0416	45.3		
Ford	Truck	All	1998	20.2	14.3	19.3	16.6	4485		255	190	11.5	0.752	0.0423	45.3		
Ford	Truck	All	1999	19.7	13.9	18.8	16.2	4578		258	199	11.2	0.777	0.0434	45.0		
Ford	Truck	All	2000	19.9	14.1	18.8	16.3	4589		259	202	11.1	0.785	0.0438	45.7		
Ford	Truck	All	2001	19.8	14.0	18.5	16.2	4628		262	219	10.5	0.842	0.0473	45.9		
Ford	Truck	All	2002	20.0	14.0	18.7	16.2	4540		255	216	10.4	0.856	0.0476	45.4		
Ford	Truck	All	2003	19.8	13.7	18.4	16.0	4752		262	222	10.6	0.853	0.0468	47.0		
Ford	Truck	All	2004	19.5	13.5	18.0	15.7	5010		273	236	10.5	0.865	0.0470	48.6		
Ford	Truck	All	2005	20.0	13.8	18.4	16.1	4993		264	238	10.4	0.910	0.0475	49.9		
Ford	Truck	All	2006	19.8	13.6	18.3	15.9	5117		271	243	10.5	0.905	0.0473	50.7		
Ford	Truck	All	2007	20.2	13.9	18.7	16.3	5028		263	242	10.4	0.931	0.0480	50.9		
Ford	Truck	All	2008	21.0	14.4	19.5	16.9	4900		251	237	10.3	0.963	0.0483	51.6		
Ford	Truck	All	2009	22.1	15.1	20.4	17.7	4955		252	256	9.8	1.040	0.0516	54.8		
Ford	Truck	All	2010	21.8	15.0	20.0	17.5	5127		262	261	9.9	1.020	0.0508	55.9		
Ford	Truck	All	2011	23.0	15.7	21.0	18.4	5060		236	289	9.1	1.240	0.0566	58.0		
Ford	Truck	All	2012	23.1	15.8	21.3	18.5	5200		235	302	9.0	1.308	0.0577	59.9		
Ford	Truck	All	2013	24.0	16.2	22.3	19.2	5195		223	311	8.8	1.456	0.0595	62.4		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Ford	Truck	All	1975		13.0%	37.6%											10.1%	89.9%
Ford	Truck	All	1976		17.0%	38.5%											8.1%	91.9%
Ford	Truck	All	1977		18.7%	33.9%											10.0%	90.0%
Ford	Truck	All	1978		25.5%	33.4%											12.6%	87.4%
Ford	Truck	All	1979		20.4%	29.4%											14.6%	85.4%
Ford	Truck	All	1980		21.9%	48.2%											18.2%	81.8%
Ford	Truck	All	1981		15.5%	48.3%	8.3%										17.3%	82.7%
Ford	Truck	All	1982		19.6%	37.4%											12.5%	87.5%
Ford	Truck	All	1983		20.4%	43.7%	17.0%					1.0%					39.9%	60.1%
Ford	Truck	All	1984		34.7%	38.6%	16.9%					0.4%				9.8%	31.1%	59.1%
Ford	Truck	All	1985		33.6%	43.1%	32.0%			17.9%		0.1%				10.6%	30.6%	58.8%
Ford	Truck	All	1986		30.7%	36.6%	46.2%			63.2%		0.2%				9.2%	40.3%	50.5%
Ford	Truck	All	1987		29.8%	40.9%	40.3%			90.5%		0.1%				8.8%	47.9%	43.3%
Ford	Truck	All	1988		31.6%	44.1%	41.8%			94.3%						9.1%	48.2%	42.7%
Ford	Truck	All	1989		29.2%	39.4%	48.0%			100.0%						6.0%	48.2%	45.8%
Ford	Truck	All	1990		27.6%	31.1%	66.2%			100.0%						3.7%	50.3%	46.0%
Ford	Truck	All	1991		40.7%	30.0%	68.4%			100.0%							64.4%	35.6%
Ford	Truck	All	1992		36.7%	28.6%	70.1%			100.0%							58.7%	41.3%
Ford	Truck	All	1993	6.7%	31.7%	25.8%	72.8%			100.0%							65.2%	34.8%
Ford	Truck	All	1994	3.7%	35.5%	29.5%	69.2%			100.0%							63.2%	36.8%
Ford	Truck	All	1995	25.8%	33.0%	19.2%	79.5%			100.0%							63.8%	36.2%
Ford	Truck	All	1996	19.8%	30.3%	21.2%	77.7%			100.0%							76.2%	23.8%
Ford	Truck	All	1997	5.0%	40.5%	16.4%	83.6%			100.0%							44.1%	55.9%
Ford	Truck	All	1998	19.7%	39.1%	12.1%	87.9%			100.0%							50.8%	49.2%
Ford	Truck	All	1999	14.4%	40.3%	10.4%	89.6%			100.0%			1.4%				47.9%	52.1%
Ford	Truck	All	2000	15.7%	39.7%	10.5%	89.5%			100.0%							50.7%	49.3%
Ford	Truck	All	2001	11.3%	42.3%	6.8%	93.2%			100.0%			8.7%				38.1%	61.9%
Ford	Truck	All	2002	9.1%	45.0%	5.6%	94.4%			100.0%			8.6%				30.4%	69.6%
Ford	Truck	All	2003	8.7%	42.5%	5.6%	94.4%			100.0%			10.0%				45.2%	54.8%
Ford	Truck	All	2004	7.7%	48.4%	3.4%	96.6%			100.0%			30.1%	21.9%			39.9%	60.1%
Ford	Truck	All	2005	8.9%	52.1%	2.4%	91.4%	6.2%		100.0%			53.4%	33.0%	0.5%		42.1%	57.9%
Ford	Truck	All	2006	7.8%	49.6%	2.5%	91.6%	5.8%		100.0%			55.5%	40.8%	1.1%		39.9%	60.1%
Ford	Truck	All	2007	5.0%	51.2%	3.0%	92.0%	5.0%		100.0%			57.5%	42.6%	0.8%		21.2%	78.8%
Ford	Truck	All	2008	3.2%	56.7%	2.7%	95.6%	1.7%		100.0%			63.2%	31.0%	1.7%		30.6%	69.4%
Ford	Truck	All	2009	7.8%	57.5%	1.8%	96.3%	1.8%		100.0%			78.8%	51.1%	1.8%		38.0%	62.0%
Ford	Truck	All	2010	7.4%	60.4%	0.7%	98.6%	0.7%	0.9%	99.1%			80.0%	35.8%	0.7%		19.7%	80.3%
Ford	Truck	All	2011	11.0%	61.8%	1.5%	98.0%	0.5%	14.3%	85.7%			91.1%	84.3%	0.5%		14.8%	85.2%
Ford	Truck	All	2012	13.6%	65.9%		99.7%	0.3%	21.9%	78.1%			97.4%	94.3%	0.3%			
Ford	Truck	All	2013	13.3%	67.1%		100.0%		37.7%	62.3%			97.7%	94.5%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Ford	All	All	1975	13.5	10.5	13.0	11.5	4212		314	140	14.4	0.459	0.0328	29.0		
Ford	All	All	1976	15.7	12.5	14.6	13.4	4251		313	134	15.0	0.439	0.0312	34.0		
Ford	All	All	1977	16.3	12.9	15.3	13.9	4312	111.9	326	147	13.7	0.461	0.0340	35.6	1874	4043
Ford	All	All	1978	17.5	13.7	16.8	14.9	3990	112.5	295	135	13.8	0.477	0.0336	35.4	2150	4060
Ford	All	All	1979	17.3	13.7	16.3	14.8	3812	112.5	270	131	13.7	0.506	0.0340	33.5	2198	3912
Ford	All	All	1980	20.8	16.3	19.8	17.7	3459	108.3	230	112	14.1	0.517	0.0323	36.0	2440	3885
Ford	All	All	1981	21.6	16.9	20.6	18.4	3371	113.7	218	108	14.2	0.554	0.0322	36.6	2721	4093
Ford	All	All	1982	22.1	17.2	21.3	18.8	3350	107.7	211	105	14.6	0.547	0.0311	37.4	2685	4051
Ford	All	All	1983	21.9	17.0	21.2	18.7	3428	112.6	221	110	14.3	0.537	0.0319	37.9	2739	4337
Ford	All	All	1984	22.8	17.7	22.0	19.4	3419	111.5	217	111	14.2	0.551	0.0324	39.6	2896	4533
Ford	All	All	1985	23.4	18.2	22.6	20.0	3406	111.6	216	122	13.2	0.603	0.0355	40.6	2973	4665
Ford	All	All	1986	23.9	18.4	23.2	20.3	3475	111.3	210	123	13.2	0.627	0.0354	41.9	3017	4795
Ford	All	All	1987	24.0	18.3	23.5	20.4	3476	112.9	203	124	13.2	0.645	0.0354	42.1	3036	4864
Ford	All	All	1988	24.4	18.4	23.8	20.6	3488	112.7	204	130	12.8	0.676	0.0372	42.9	3099	4967
Ford	All	All	1989	24.2	18.2	23.7	20.4	3571	113.2	204	128	13.1	0.671	0.0358	43.6	3093	5044
Ford	All	All	1990	23.7	17.6	23.2	19.9	3669	114.6	214	134	12.9	0.664	0.0365	43.7	3051	5152
Ford	All	All	1991	24.2	17.8	23.6	20.2	3626	114.0	205	142	12.4	0.719	0.0388	44.2	3176	5154
Ford	All	All	1992	23.5	17.2	23.1	19.7	3793	117.5	219	149	12.3	0.700	0.0393	44.9	3176	5427
Ford	All	All	1993	24.5	17.7	23.9	20.4	3678	114.7	206	145	12.4	0.725	0.0391	45.3	3253	5304
Ford	All	All	1994	23.7	17.1	23.2	19.7	3792	115.2	217	150	12.3	0.713	0.0394	45.3	3198	5367
Ford	All	All	1995	24.0	17.1	23.7	19.9	3791	113.8	218	152	12.2	0.727	0.0399	45.9	3220	5331
Ford	All	All	1996	23.3	16.5	22.8	19.2	3871	115.0	218	159	11.9	0.757	0.0412	45.3	3053	5297
Ford	All	All	1997	22.8	16.2	22.1	18.8	3992	115.0	226	172	11.5	0.774	0.0427	45.7	3140	5320
Ford	All	All	1998	22.8	16.0	22.1	18.7	3982	110.5	223	173	11.3	0.795	0.0433	45.5	3062	5093
Ford	All	All	1999	22.6	15.8	21.8	18.5	4034	112.6	225	181	11.0	0.827	0.0449	45.7	3087	5246
Ford	All	All	2000	22.8	15.9	21.8	18.6	4030	113.9	226	187	10.8	0.844	0.0463	46.2	3127	5353
Ford	All	All	2001	22.4	15.6	21.2	18.2	4102	114.7	231	197	10.5	0.868	0.0478	46.0	3118	5358
Ford	All	All	2002	22.3	15.5	21.0	18.1	4107	113.3	227	198	10.4	0.887	0.0481	46.0	3119	5343
Ford	All	All	2003	22.1	15.2	20.7	17.8	4284	116.2	236	206	10.4	0.889	0.0483	47.3	3138	5615
Ford	All	All	2004	21.1	14.5	19.7	17.0	4595	115.8	253	222	10.3	0.885	0.0486	48.2	3007	5556
Ford	All	All	2005	22.6	15.5	20.8	18.1	4391	116.8	232	214	10.3	0.946	0.0488	49.6	3229	5823
Ford	All	All	2006	22.5	15.3	20.9	18.0	4467	116.3	236	221	10.1	0.957	0.0495	50.2	3178	5789
Ford	All	All	2007	23.5	15.9	21.9	18.9	4295	114.4	223	216	10.1	0.993	0.0502	50.7	3258	5755
Ford	All	All	2008	24.1	16.3	22.5	19.3	4283	115.2	219	221	9.8	1.039	0.0518	52.0	3327	6006
Ford	All	All	2009	25.8	17.3	23.8	20.5	4200	113.8	209	224	9.6	1.096	0.0531	54.4	3499	6127
Ford	All	All	2010	25.6	17.3	23.6	20.4	4367	113.6	218	231	9.6	1.088	0.0530	56.4	3661	6534
Ford	All	All	2011	26.5	17.9	24.4	21.1	4375	112.1	208	253	9.1	1.220	0.0571	58.2	3721	6600
Ford	All	All	2012	28.7	19.2	26.5	22.8	4152	110.3	189	241	9.1	1.276	0.0573	59.9	4023	6700
Ford	All	All	2013	28.3	18.9	26.4	22.6	4460	111.5	187	262	9.0	1.456	0.0581	64.6	4276	7572

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Ford	All	All	1975		3.3%	19.7%										41.0%	22.4%	36.6%
Ford	All	All	1976		4.8%	18.7%										40.5%	20.1%	39.4%
Ford	All	All	1977		5.5%	14.7%										39.0%	18.8%	42.2%
Ford	All	All	1978	3.3%	7.6%	19.1%										21.9%	38.6%	39.5%
Ford	All	All	1979	2.2%	5.9%	20.1%										27.9%	32.6%	39.5%
Ford	All	All	1980	4.4%	6.0%	33.0%	10.5%				0.9%					34.3%	32.0%	33.7%
Ford	All	All	1981	19.9%	5.0%	33.6%	17.6%				3.4%					30.5%	31.4%	38.1%
Ford	All	All	1982	30.8%	5.3%	33.2%	31.9%				3.2%					38.9%	24.2%	36.9%
Ford	All	All	1983	19.2%	7.4%	29.9%	41.8%			1.5%	17.0%	0.4%				34.9%	30.2%	34.9%
Ford	All	All	1984	29.9%	11.1%	26.7%	39.9%			12.4%	21.5%	1.3%				47.3%	21.5%	31.1%
Ford	All	All	1985	29.5%	10.4%	28.3%	43.6%			7.2%	46.0%	0.4%				47.0%	20.3%	32.7%
Ford	All	All	1986	33.9%	11.3%	28.3%	48.0%			47.8%	20.9%	0.3%				43.7%	28.2%	28.1%
Ford	All	All	1987	40.8%	10.3%	27.9%	46.9%			65.1%	31.5%	0.2%				41.6%	33.3%	25.1%
Ford	All	All	1988	40.3%	10.6%	28.8%	49.0%			81.0%	14.3%					42.5%	30.7%	26.7%
Ford	All	All	1989	44.1%	9.8%	26.2%	53.0%			89.8%	8.8%		6.2%			37.3%	36.2%	26.5%
Ford	All	All	1990	40.7%	10.0%	19.7%	63.6%			93.7%	6.3%		3.5%			30.4%	40.6%	29.0%
Ford	All	All	1991	43.9%	14.7%	20.9%	69.7%			100.0%			5.7%			32.3%	44.4%	23.3%
Ford	All	All	1992	36.9%	14.4%	16.9%	72.8%			100.0%			2.8%			21.8%	47.4%	30.8%
Ford	All	All	1993	44.1%	12.3%	19.2%	72.8%			100.0%			5.5%			28.7%	49.8%	21.6%
Ford	All	All	1994	36.0%	15.5%	20.6%	73.4%			100.0%			4.2%			23.3%	50.8%	25.9%
Ford	All	All	1995	48.9%	14.7%	16.5%	83.0%			100.0%			10.5%	4.9%		27.1%	48.3%	24.6%
Ford	All	All	1996	42.5%	15.0%	15.6%	83.9%			100.0%			13.9%	6.3%		18.5%	60.6%	20.9%
Ford	All	All	1997	33.1%	22.0%	13.0%	87.0%			100.0%			6.8%	2.5%		18.0%	42.3%	39.7%
Ford	All	All	1998	41.7%	20.8%	11.5%	88.5%			100.0%			13.2%	8.8%		23.0%	43.8%	33.1%
Ford	All	All	1999	40.5%	20.5%	9.8%	90.2%			100.0%			17.6%	6.6%		20.4%	44.3%	35.3%
Ford	All	All	2000	38.9%	19.4%	10.3%	89.7%			100.0%			15.3%	3.8%		20.1%	38.0%	41.9%
Ford	All	All	2001	36.4%	22.3%	7.5%	92.5%			100.0%			19.0%	5.7%		16.4%	31.4%	52.3%
Ford	All	All	2002	34.1%	26.7%	6.9%	93.1%			100.0%			20.2%	5.4%		16.0%	28.2%	55.8%
Ford	All	All	2003	31.3%	25.1%	7.1%	92.9%			100.0%			20.3%	6.2%		14.3%	34.4%	51.3%
Ford	All	All	2004	22.1%	33.1%	5.0%	95.0%			100.0%			32.2%	19.0%		10.3%	33.1%	56.6%
Ford	All	All	2005	34.4%	30.6%	5.0%	89.7%	5.3%		100.0%			55.4%	31.1%	0.4%	16.0%	32.2%	51.8%
Ford	All	All	2006	35.3%	28.5%	5.2%	89.0%	5.8%		100.0%			59.2%	41.0%	1.0%	13.4%	36.3%	50.3%
Ford	All	All	2007	41.0%	26.1%	6.4%	90.2%	3.3%		100.0%			65.4%	29.6%	0.7%	19.6%	25.1%	55.3%
Ford	All	All	2008	41.1%	28.5%	5.1%	93.1%	1.9%		100.0%			74.0%	17.4%	1.9%	15.4%	34.7%	49.9%
Ford	All	All	2009	50.0%	27.1%	4.0%	94.0%	2.1%		100.0%			84.8%	36.9%	2.1%	19.2%	41.1%	39.8%
Ford	All	All	2010	47.6%	30.8%	2.4%	95.0%	2.6%	1.0%	99.0%			85.7%	54.6%	2.6%	13.9%	36.2%	49.9%
Ford	All	All	2011	47.4%	32.6%	3.2%	95.2%	1.6%	7.6%	92.4%			92.9%	83.8%	1.6%	13.9%	29.3%	56.9%
Ford	All	All	2012	59.4%	27.8%	3.6%	93.5%	1.5%	27.8%	72.2%			98.9%	97.4%	1.5%			
Ford	All	All	2013	50.7%	35.7%	2.8%	90.2%	3.0%	45.4%	54.6%			98.8%	96.7%	3.0%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Honda	Car	Car	1975	31.4	24.5	30.0	26.7	2000		83	54	15.9	0.653	0.0271	31.5		
Honda	Car	Car	1976	32.6	25.6	31.0	27.8	2021		84	56	15.6	0.671	0.0278	33.2		
Honda	Car	Car	1977	35.5	28.2	33.2	30.2	2085	79.6	88	62	14.8	0.716	0.0300	37.9	2889	3025
Honda	Car	Car	1978	33.7	27.4	30.3	28.6	2126	83.3	90	63	14.8	0.701	0.0297	36.3	2848	3052
Honda	Car	Car	1979	29.0	23.4	26.5	24.7	2308	83.4	97	64	15.5	0.666	0.0279	33.6	2427	2814
Honda	Car	Car	1980	29.2	23.4	26.8	24.8	2330	88.9	100	68	15.1	0.685	0.0293	34.2	2635	3047
Honda	Car	Car	1981	30.8	24.9	27.9	26.2	2343	88.0	100	71	14.6	0.716	0.0305	36.3	2752	3201
Honda	Car	Car	1982	33.4	27.0	30.3	28.4	2354	92.2	100	71	14.6	0.715	0.0304	39.7	3123	3657
Honda	Car	Car	1983	35.3	28.2	32.5	30.0	2380	91.8	101	74	14.5	0.728	0.0309	42.3	3277	3887
Honda	Car	Car	1984	35.2	27.7	33.3	29.9	2380	90.4	104	84	13.0	0.809	0.0354	42.2	3194	3802
Honda	Car	Car	1985	33.8	26.6	32.0	28.8	2432	89.5	104	84	13.2	0.813	0.0348	41.4	3040	3693
Honda	Car	Car	1986	33.6	26.2	31.8	28.5	2565	93.4	107	90	13.6	0.828	0.0347	43.3	3144	4040
Honda	Car	Car	1987	32.8	25.4	31.1	27.7	2633	94.2	109	93	13.6	0.840	0.0348	43.4	3111	4088
Honda	Car	Car	1988	31.8	24.4	30.0	26.7	2770	97.3	115	105	12.6	0.912	0.0375	44.4	3144	4311
Honda	Car	Car	1989	31.3	23.9	29.4	26.2	2800	97.2	112	110	12.1	0.986	0.0392	44.1	3087	4284
Honda	Car	Car	1990	30.4	23.1	28.3	25.4	2884	99.8	119	121	11.5	1.021	0.0418	44.2	3078	4403
Honda	Car	Car	1991	30.3	22.9	28.2	25.2	2913	100.2	122	130	11.1	1.056	0.0440	44.5	3083	4449
Honda	Car	Car	1992	30.9	22.8	29.4	25.7	3015	101.0	125	135	11.0	1.087	0.0446	47.3	3217	4764
Honda	Car	Car	1993	32.2	23.6	30.2	26.5	2977	97.5	119	125	11.5	1.061	0.0418	48.3	3199	4696
Honda	Car	Car	1994	32.1	23.4	30.1	26.4	3055	98.4	121	133	11.2	1.114	0.0435	49.3	3202	4849
Honda	Car	Car	1995	32.8	23.7	30.6	26.8	2995	97.5	117	130	11.2	1.126	0.0434	49.5	3251	4818
Honda	Car	Car	1996	31.8	22.9	29.7	26.0	3046	102.0	124	134	11.0	1.094	0.0440	48.8	3306	4972
Honda	Car	Car	1997	32.1	23.0	29.8	26.1	3019	101.1	122	133	11.1	1.100	0.0438	48.8	3308	4932
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
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
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
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
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
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
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
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
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
Honda	Car	Car	2007	33.9	22.3	31.5	26.7	3289	105.9	135	171	9.9	1.258	0.0513	56.6	3677	5988
Honda	Car	Car	2008	34.3	22.5	32.0	27.1	3334	109.0	137	175	9.8	1.275	0.0517	57.7	3811	6287
Honda	Car	Car	2009	34.6	22.8	32.2	27.3	3303	109.5	135	172	9.9	1.281	0.0514	57.7	3853	6301
Honda	Car	Car	2010	35.6	23.4	32.8	28.0	3298	108.9	134	174	9.7	1.294	0.0517	59.6	3969	6471
Honda	Car	Car	2011	36.5	23.8	33.9	28.7	3322	108.8	136	170	9.9	1.256	0.0504	61.0	3996	6609
Honda	Car	Car	2012	38.1	24.8	35.3	29.8	3270	108.4	133	168	10.0	1.263	0.0507	62.8	4183	6787
Honda	Car	Car	2013	39.5	25.9	35.6	30.7	3285	109.0	135	174	9.8	1.286	0.0522	65.4	4372	7129

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Honda	Car	Car	1975	100.0%		87.8%	12.2%									100.0%		
Honda	Car	Car	1976	100.0%		88.9%										100.0%		
Honda	Car	Car	1977	100.0%		81.3%										100.0%		
Honda	Car	Car	1978	100.0%		82.0%	18.0%									100.0%		
Honda	Car	Car	1979	100.0%		74.8%	25.2%									100.0%		
Honda	Car	Car	1980	100.0%		58.0%	8.9%									100.0%		
Honda	Car	Car	1981	100.0%		73.6%										100.0%		
Honda	Car	Car	1982	100.0%		71.8%										100.0%		
Honda	Car	Car	1983	100.0%		64.5%	23.3%									100.0%		
Honda	Car	Car	1984	100.0%		64.5%	35.5%									100.0%		
Honda	Car	Car	1985	98.3%	1.7%	62.9%	37.1%			8.2%						100.0%		
Honda	Car	Car	1986	98.1%	1.9%	63.1%	36.9%			37.0%			69.9%			100.0%		
Honda	Car	Car	1987	99.2%	0.8%	49.0%	51.0%			38.1%			97.8%			100.0%		
Honda	Car	Car	1988	99.5%	0.5%	47.8%	52.2%			42.9%	22.5%		98.6%			100.0%		
Honda	Car	Car	1989	95.9%	4.1%	46.3%	53.7%			48.0%	26.0%		98.8%			100.0%		
Honda	Car	Car	1990	99.7%	0.3%	41.2%	58.8%			75.1%	24.3%		99.2%			100.0%		
Honda	Car	Car	1991	99.6%		38.6%	61.4%			74.3%	25.7%		99.0%	0.4%		100.0%		
Honda	Car	Car	1992	99.8%		35.2%	64.8%			100.0%			97.5%	3.8%		100.0%		
Honda	Car	Car	1993	99.9%		35.5%	64.5%			100.0%			99.6%	14.4%		100.0%		
Honda	Car	Car	1994	99.9%		35.5%	64.5%			100.0%			98.7%	36.6%		100.0%		
Honda	Car	Car	1995	99.9%		35.4%	64.6%			100.0%			98.9%	35.3%		100.0%		
Honda	Car	Car	1996	99.9%		27.3%	72.5%	0.1%		100.0%			100.0%	28.8%		97.9%	2.1%	
Honda	Car	Car	1997	100.0%		26.6%	72.6%	0.8%		100.0%			100.0%	31.4%		98.1%	1.9%	
Honda	Car	Car	1998	100.0%		22.2%	77.2%	0.6%		100.0%			100.0%	66.2%		52.7%	47.3%	
Honda	Car	Car	1999	100.0%		18.8%	81.0%	0.3%		100.0%			100.0%	73.9%		43.7%	56.3%	
Honda	Car	Car	2000	99.0%		17.9%	82.0%	0.2%		100.0%			100.0%	74.5%	0.6%	43.2%	56.8%	
Honda	Car	Car	2001	98.8%		16.6%	83.0%	0.3%		100.0%			100.0%	94.3%	0.4%	50.0%	50.0%	
Honda	Car	Car	2002	98.8%		16.3%	83.4%	0.2%		100.0%			100.0%	95.6%	0.2%	44.0%	56.0%	
Honda	Car	Car	2003	99.1%		13.8%	83.1%	3.1%		100.0%			96.3%	99.7%	3.8%	40.1%	59.9%	
Honda	Car	Car	2004	99.1%		13.7%	84.0%	2.3%		100.0%			97.2%	99.0%	2.8%	44.1%	55.9%	
Honda	Car	Car	2005	96.3%	2.6%	11.8%	85.4%	2.8%		100.0%			96.7%	100.0%	5.7%	42.6%	57.4%	
Honda	Car	Car	2006	97.8%	1.5%	11.8%	84.4%	3.9%		100.0%			96.2%	100.0%	4.4%	48.7%	51.3%	
Honda	Car	Car	2007	98.9%	0.5%	11.6%	84.8%	3.6%		100.0%			96.4%	100.0%	4.0%	47.4%	52.6%	
Honda	Car	Car	2008	99.1%	0.6%	10.5%	85.9%	3.6%		100.0%			96.4%	100.0%	3.6%	55.8%	6.9%	37.3%
Honda	Car	Car	2009	98.7%	1.3%	7.0%	90.4%	2.6%		100.0%			97.4%	100.0%	2.6%	58.4%	4.8%	36.7%
Honda	Car	Car	2010	98.3%	1.7%	3.7%	89.3%	6.9%		100.0%			93.1%	100.0%	6.9%	61.0%	5.4%	33.5%
Honda	Car	Car	2011	99.1%	0.9%	5.1%	89.5%	5.4%		100.0%			96.9%	100.0%	6.6%	55.0%	3.0%	42.0%
Honda	Car	Car	2012	98.6%	1.4%	4.7%	95.3%	2.4%		100.0%			98.0%	100.0%	2.6%			
Honda	Car	Car	2013	98.8%	1.2%	6.1%	93.9%	34.3%	31.2%	68.8%			96.7%	100.0%	4.0%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Honda	Car	Car SUV	1975														
Honda	Car	Car SUV	1976														
Honda	Car	Car SUV	1977														
Honda	Car	Car SUV	1978														
Honda	Car	Car SUV	1979														
Honda	Car	Car SUV	1980														
Honda	Car	Car SUV	1981														
Honda	Car	Car SUV	1982														
Honda	Car	Car SUV	1983														
Honda	Car	Car SUV	1984														
Honda	Car	Car SUV	1985														
Honda	Car	Car SUV	1986														
Honda	Car	Car SUV	1987														
Honda	Car	Car SUV	1988														
Honda	Car	Car SUV	1989														
Honda	Car	Car SUV	1990														
Honda	Car	Car SUV	1991														
Honda	Car	Car SUV	1992														
Honda	Car	Car SUV	1993														
Honda	Car	Car SUV	1994	20.4	15.5	18.4	16.8	4000		183	161	12.0	0.871	0.0401	40.9		
Honda	Car	Car SUV	1995														
Honda	Car	Car SUV	1996	19.9	14.8	18.1	16.3	4000		188	181	10.9	0.958	0.0454	40.0		
Honda	Car	Car SUV	1997	19.4	14.3	17.8	15.9	4000		193	190	10.4	0.984	0.0475	38.9		
Honda	Car	Car SUV	1998	25.1	18.4	22.3	20.3	3656		143	151	12.0	1.054	0.0408	46.2		
Honda	Car	Car SUV	1999	25.1	18.4	22.1	20.2	3655		143	164	11.0	1.169	0.0447	46.3		
Honda	Car	Car SUV	2000	25.5	18.6	22.3	20.4	3633		139	162	11.0	1.176	0.0443	46.6		
Honda	Car	Car SUV	2001	26.1	18.9	22.6	20.8	3605		135	158	11.1	1.184	0.0437	47.2		
Honda	Car	Car SUV	2002	28.8	20.3	25.6	22.9	3543		148	164	10.6	1.107	0.0462	51.3		
Honda	Car	Car SUV	2003	29.7	20.7	26.3	23.5	3500		144	160	10.7	1.111	0.0457	52.0		
Honda	Car	Car SUV	2004	29.4	20.1	26.5	23.2	3500		144	160	10.7	1.111	0.0457	51.4		
Honda	Car	Car SUV	2005	29.7	20.3	26.3	23.3	3500		144	160	10.7	1.111	0.0457	51.9		
Honda	Car	Car SUV	2006	29.7	20.3	26.3	23.3	3500		144	156	10.9	1.083	0.0446	51.9		
Honda	Car	Car SUV	2007	29.9	20.1	27.1	23.6	3500		144	166	10.4	1.153	0.0474	52.3		
Honda	Car	Car SUV	2008	29.7	20.0	27.0	23.5	3500		144	166	10.4	1.153	0.0474	52.0		
Honda	Car	Car SUV	2009	29.7	20.0	27.0	23.5	3500		144	166	10.4	1.153	0.0474	52.0		
Honda	Car	Car SUV	2010	31.0	21.0	27.7	24.4	3534		146	184	9.6	1.266	0.0520	54.7		
Honda	Car	Car SUV	2011	30.9	20.9	27.7	24.3	3538		146	185	9.6	1.269	0.0521	54.7		
Honda	Car	Car SUV	2012	32.3	21.5	29.6	25.5	3636		158	202	9.3	1.279	0.0553	58.8		
Honda	Car	Car SUV	2013	32.8	21.8	30.2	25.9	3706		163	208	9.3	1.271	0.0558	60.7		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Honda	Car	Car SUV	1975															
Honda	Car	Car SUV	1976															
Honda	Car	Car SUV	1977															
Honda	Car	Car SUV	1978															
Honda	Car	Car SUV	1979															
Honda	Car	Car SUV	1980															
Honda	Car	Car SUV	1981															
Honda	Car	Car SUV	1982															
Honda	Car	Car SUV	1983															
Honda	Car	Car SUV	1984															
Honda	Car	Car SUV	1985															
Honda	Car	Car SUV	1986															
Honda	Car	Car SUV	1987															
Honda	Car	Car SUV	1988															
Honda	Car	Car SUV	1989															
Honda	Car	Car SUV	1990															
Honda	Car	Car SUV	1991															
Honda	Car	Car SUV	1992															
Honda	Car	Car SUV	1993															
Honda	Car	Car SUV	1994	100.0%		54.8%	45.2%			100.0%			73.8%				100.0%	
Honda	Car	Car SUV	1995															
Honda	Car	Car SUV	1996			17.2%	82.8%			100.0%			87.8%				100.0%	
Honda	Car	Car SUV	1997			5.3%	94.7%			100.0%			100.0%				100.0%	
Honda	Car	Car SUV	1998	68.7%		1.4%	98.6%			100.0%			100.0%				100.0%	
Honda	Car	Car SUV	1999	68.9%		1.1%	98.9%			100.0%			100.0%				100.0%	
Honda	Car	Car SUV	2000	73.4%		0.8%	99.2%			100.0%			100.0%				100.0%	
Honda	Car	Car SUV	2001	79.0%		0.5%	99.5%			100.0%			100.0%				100.0%	
Honda	Car	Car SUV	2002	91.4%		0.2%	99.8%			100.0%			100.0%	91.4%			100.0%	
Honda	Car	Car SUV	2003	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Car	Car SUV	2004	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Car	Car SUV	2005	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Car	Car SUV	2006	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Car	Car SUV	2007	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Car	Car SUV	2008	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Car	Car SUV	2009	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Car	Car SUV	2010	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Car	Car SUV	2011	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Car	Car SUV	2012	89.0%	11.0%		100.0%			100.0%			100.0%	100.0%				
Honda	Car	Car SUV	2013	90.1%	9.9%		100.0%			100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Honda	Car	All	1975	31.4	24.5	30.0	26.7	2000		83	54	15.9	0.653	0.0271	31.5		
Honda	Car	All	1976	32.6	25.6	31.0	27.8	2021		84	56	15.6	0.671	0.0278	33.2		
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
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
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
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
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
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
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
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
Honda	Car	All	1985	33.8	26.6	32.0	28.8	2432	89.5	104	84	13.2	0.813	0.0348	41.4	3040	3693
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
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
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
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
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
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
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
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
Honda	Car	All	1994	31.9	23.3	29.9	26.2	3065	98.4	121	134	11.2	1.111	0.0434	49.2	3202	4849
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
Honda	Car	All	1996	31.6	22.7	29.5	25.8	3057	102.0	125	135	11.0	1.093	0.0440	48.7	3306	4972
Honda	Car	All	1997	32.0	22.8	29.6	26.0	3027	101.1	123	133	11.1	1.099	0.0439	48.8	3308	4932
Honda	Car	All	1998	31.7	22.4	29.5	25.7	3188	104.0	129	145	10.9	1.133	0.0450	50.8	3373	5299
Honda	Car	All	1999	30.6	21.4	28.6	24.8	3241	105.0	135	153	10.6	1.143	0.0469	49.8	3288	5254
Honda	Car	All	2000	30.8	21.4	28.7	24.8	3212	104.4	134	154	10.6	1.157	0.0474	49.7	3279	5201
Honda	Car	All	2001	31.9	22.0	29.6	25.6	3207	104.6	134	154	10.5	1.152	0.0476	51.7	3448	5425
Honda	Car	All	2002	31.8	21.7	29.5	25.4	3230	105.4	136	157	10.4	1.158	0.0482	51.8	3434	5460
Honda	Car	All	2003	32.6	21.7	30.8	26.0	3290	105.8	141	169	10.0	1.191	0.0508	54.3	3539	5755
Honda	Car	All	2004	32.6	21.7	30.4	25.9	3304	105.5	140	171	10.0	1.208	0.0509	54.4	3531	5759
Honda	Car	All	2005	32.7	21.6	30.5	25.9	3315	105.7	141	173	9.9	1.211	0.0513	54.9	3556	5819
Honda	Car	All	2006	33.3	21.9	31.0	26.3	3343	104.8	139	177	9.7	1.266	0.0523	56.7	3605	5956
Honda	Car	All	2007	33.5	22.1	31.1	26.4	3307	105.9	136	170	9.9	1.249	0.0510	56.2	3677	5988
Honda	Car	All	2008	33.8	22.2	31.5	26.7	3349	109.0	138	175	9.8	1.264	0.0513	57.2	3811	6287
Honda	Car	All	2009	34.2	22.5	31.7	27.0	3319	109.5	135	172	9.9	1.270	0.0510	57.2	3853	6301
Honda	Car	All	2010	35.1	23.2	32.3	27.6	3321	108.9	135	175	9.7	1.291	0.0518	59.1	3969	6471
Honda	Car	All	2011	35.4	23.3	32.7	27.9	3359	108.8	137	173	9.8	1.258	0.0507	59.9	3996	6609
Honda	Car	All	2012	37.3	24.4	34.6	29.3	3310	108.4	136	172	9.9	1.264	0.0512	62.3	4183	6787
Honda	Car	All	2013	38.4	25.2	34.8	29.9	3343	109.0	139	179	9.7	1.284	0.0527	64.8	4372	7129

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Honda	Car	All	1975	100.0%		87.8%	12.2%									100.0%		
Honda	Car	All	1976	100.0%		88.9%										100.0%		
Honda	Car	All	1977	100.0%		81.3%										100.0%		
Honda	Car	All	1978	100.0%		82.0%	18.0%									100.0%		
Honda	Car	All	1979	100.0%		74.8%	25.2%									100.0%		
Honda	Car	All	1980	100.0%		58.0%	8.9%									100.0%		
Honda	Car	All	1981	100.0%		73.6%										100.0%		
Honda	Car	All	1982	100.0%		71.8%										100.0%		
Honda	Car	All	1983	100.0%		64.5%	23.3%									100.0%		
Honda	Car	All	1984	100.0%		64.5%	35.5%									100.0%		
Honda	Car	All	1985	98.3%	1.7%	62.9%	37.1%			8.2%						100.0%		
Honda	Car	All	1986	98.1%	1.9%	63.1%	36.9%			37.0%			69.9%			100.0%		
Honda	Car	All	1987	99.2%	0.8%	49.0%	51.0%			38.1%			97.8%			100.0%		
Honda	Car	All	1988	99.5%	0.5%	47.8%	52.2%			42.9%	22.5%		98.6%			100.0%		
Honda	Car	All	1989	95.9%	4.1%	46.3%	53.7%			48.0%	26.0%		98.8%			100.0%		
Honda	Car	All	1990	99.7%	0.3%	41.2%	58.8%			75.1%	24.3%		99.2%			100.0%		
Honda	Car	All	1991	99.6%		38.6%	61.4%			74.3%	25.7%		99.0%	0.4%		100.0%		
Honda	Car	All	1992	99.8%		35.2%	64.8%			100.0%			97.5%	3.8%		100.0%		
Honda	Car	All	1993	99.9%		35.5%	64.5%			100.0%			99.6%	14.4%		100.0%		
Honda	Car	All	1994	99.9%		35.7%	64.3%			100.0%			98.4%	36.2%		98.9%	1.1%	
Honda	Car	All	1995	99.9%		35.4%	64.6%			100.0%			98.9%	35.3%		100.0%		
Honda	Car	All	1996	98.8%		27.2%	72.6%	0.1%		100.0%			99.9%	28.4%		96.8%	3.2%	
Honda	Car	All	1997	99.1%		26.4%	72.8%	0.8%		100.0%			100.0%	31.1%		97.3%	2.7%	
Honda	Car	All	1998	99.0%		21.6%	77.8%	0.6%		100.0%			100.0%	64.2%		51.1%	48.9%	
Honda	Car	All	1999	98.5%		17.9%	81.8%	0.3%		100.0%			100.0%	70.5%		41.7%	58.3%	
Honda	Car	All	2000	98.0%		17.2%	82.6%	0.2%		100.0%			100.0%	71.6%	0.6%	41.6%	58.4%	
Honda	Car	All	2001	97.9%		15.9%	83.7%	0.3%		100.0%			100.0%	90.2%	0.4%	47.9%	52.1%	
Honda	Car	All	2002	98.6%		15.8%	84.0%	0.2%		100.0%			100.0%	95.5%	0.2%	42.5%	57.5%	
Honda	Car	All	2003	99.1%		13.3%	83.6%	3.0%		100.0%			96.4%	99.7%	3.7%	38.9%	61.1%	
Honda	Car	All	2004	99.1%		13.2%	84.6%	2.2%		100.0%			97.3%	99.0%	2.7%	42.4%	57.6%	
Honda	Car	All	2005	96.4%	2.5%	11.4%	85.9%	2.7%		100.0%			96.9%	100.0%	5.5%	41.1%	58.9%	
Honda	Car	All	2006	97.9%	1.5%	11.2%	85.1%	3.7%		100.0%			96.4%	100.0%	4.2%	46.4%	53.6%	
Honda	Car	All	2007	99.0%	0.5%	10.6%	86.1%	3.3%		100.0%			96.7%	100.0%	3.7%	43.3%	56.7%	
Honda	Car	All	2008	99.2%	0.5%	9.6%	87.2%	3.2%		100.0%			96.8%	100.0%	3.2%	50.8%	15.3%	33.9%
Honda	Car	All	2009	98.8%	1.2%	6.4%	91.2%	2.3%		100.0%			97.7%	100.0%	2.3%	53.6%	12.7%	33.7%
Honda	Car	All	2010	98.4%	1.6%	3.4%	90.3%	6.3%		100.0%			93.7%	100.0%	6.3%	55.1%	14.6%	30.3%
Honda	Car	All	2011	99.2%	0.8%	4.2%	91.3%	4.5%		100.0%			97.4%	100.0%	5.5%	45.7%	19.4%	34.9%
Honda	Car	All	2012	97.6%	2.4%	4.2%	95.8%	2.2%		100.0%			98.3%	100.0%	2.3%			
Honda	Car	All	2013	97.6%	2.4%	5.3%	94.7%	29.5%	26.8%	73.2%			97.2%	100.0%	3.4%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	19.1	23.0	20.9	3500		132	140	11.9	1.061	0.0400	44.7		
Honda	Truck	Van	1996	28.5	20.5	26.6	23.3	3500		132	145	11.6	1.098	0.0414	49.8		
Honda	Truck	Van	1997	24.9	18.5	22.2	20.2	3500		132	130	12.6	0.985	0.0371	43.6		
Honda	Truck	Van	1998	27.0	19.3	24.9	21.9	3500		138	150	11.3	1.087	0.0429	47.2		
Honda	Truck	Van	1999	24.1	16.5	24.1	19.8	4500		212	205	10.7	0.967	0.0456	54.2		
Honda	Truck	Van	2000	23.9	16.3	23.7	19.6	4500		212	205	10.7	0.967	0.0456	53.8		
Honda	Truck	Van	2001	24.0	16.4	23.5	19.6	4500		212	205	10.7	0.967	0.0456	54.0		
Honda	Truck	Van	2002	24.2	16.5	23.5	19.7	4500		212	240	9.4	1.132	0.0533	54.5		
Honda	Truck	Van	2003	24.2	16.4	23.4	19.7	4500		212	240	9.4	1.132	0.0533	54.5		
Honda	Truck	Van	2004	24.2	16.3	23.3	19.6	4500		212	240	9.4	1.132	0.0533	54.5		
Honda	Truck	Van	2005	26.0	17.2	25.1	21.0	4500		212	255	9.0	1.203	0.0567	58.6		
Honda	Truck	Van	2006	26.1	17.2	25.1	21.0	4500		212	244	9.3	1.151	0.0542	58.7		
Honda	Truck	Van	2007	24.7	16.3	24.0	19.9	4500		212	244	9.3	1.151	0.0542	55.5		
Honda	Truck	Van	2008	25.2	16.6	24.7	20.4	4500		212	242	9.4	1.141	0.0538	56.8		
Honda	Truck	Van	2009	25.2	16.6	24.7	20.4	4835		212	242	9.9	1.141	0.0502	61.1		
Honda	Truck	Van	2010	24.9	16.4	24.4	20.2	4840		214	244	9.9	1.140	0.0505	60.5		
Honda	Truck	Van	2011	27.8	18.0	27.4	22.4	4500		214	248	9.2	1.159	0.0551	62.5		
Honda	Truck	Van	2012	27.8	18.1	27.4	22.4	4500		214	248	9.3	1.161	0.0551	62.6		
Honda	Truck	Van	2013	27.8	18.1	27.4	22.4	4500		214	248	9.3	1.161	0.0551	62.5		



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	100.0%			100.0%			100.0%			100.0%				100.0%	
Honda	Truck	Van	1996	100.0%			100.0%			100.0%			100.0%				100.0%	
Honda	Truck	Van	1997	100.0%			100.0%			100.0%			100.0%				100.0%	
Honda	Truck	Van	1998	100.0%			100.0%			100.0%			100.0%				100.0%	
Honda	Truck	Van	1999	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Van	2000	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Van	2001	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Van	2002	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Van	2003	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Van	2004	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Van	2005	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Van	2006	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Van	2007	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Van	2008	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Van	2009	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Van	2010	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Van	2011	100.0%			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	Van	2013	100.0%			100.0%			100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
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		
Honda	Truck	Truck SUV	1998	25.5	18.8	22.4	20.6	3606		134	141	12.3	1.051	0.0389	46.1		
Honda	Truck	Truck SUV	1999	25.9	19.0	22.5	20.8	3587		132	156	11.2	1.191	0.0433	46.6		
Honda	Truck	Truck SUV	2000	26.2	19.2	22.6	20.9	3611		128	153	11.4	1.200	0.0421	47.3		
Honda	Truck	Truck SUV	2001	25.1	18.0	22.3	20.1	3865		152	178	10.8	1.181	0.0454	48.4		
Honda	Truck	Truck SUV	2002	25.8	18.1	23.3	20.7	3824		166	185	10.3	1.116	0.0480	49.3		
Honda	Truck	Truck SUV	2003	24.7	17.2	22.4	19.8	4061		177	202	10.2	1.136	0.0493	50.1		
Honda	Truck	Truck SUV	2004	24.4	16.8	22.2	19.5	4082		180	206	10.0	1.138	0.0499	49.7		
Honda	Truck	Truck SUV	2005	24.1	16.5	22.0	19.2	4095		181	214	9.8	1.169	0.0516	49.5		
Honda	Truck	Truck SUV	2006	24.5	16.7	22.4	19.5	4101		182	207	10.1	1.127	0.0498	50.2		
Honda	Truck	Truck SUV	2007	25.0	17.0	22.7	19.9	4231		177	215	10.1	1.216	0.0504	53.2		
Honda	Truck	Truck SUV	2008	25.3	17.3	22.8	20.1	4212		175	213	10.2	1.218	0.0501	53.7		
Honda	Truck	Truck SUV	2009	25.7	17.6	23.2	20.4	4244		179	217	10.1	1.209	0.0506	54.8		
Honda	Truck	Truck SUV	2010	27.0	18.3	24.5	21.4	4237		179	223	9.8	1.245	0.0524	57.4		
Honda	Truck	Truck SUV	2011	26.3	17.9	23.9	20.9	4321		185	226	9.8	1.227	0.0519	57.2		
Honda	Truck	Truck SUV	2012	28.1	18.9	25.8	22.3	4269		185	229	9.6	1.244	0.0533	60.2		
Honda	Truck	Truck SUV	2013	28.7	19.3	26.4	22.8	4185		183	225	9.6	1.237	0.0536	60.3		



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		100.0%	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		82.7%	1.9%	98.1%			100.0%			100.0%				100.0%	
Honda	Truck	Truck SUV	1998		100.0%	15.4%	84.6%			100.0%			100.0%				100.0%	
Honda	Truck	Truck SUV	1999		100.0%	13.8%	86.2%			100.0%			100.0%				100.0%	
Honda	Truck	Truck SUV	2000		100.0%	11.8%	88.2%			100.0%			100.0%				100.0%	
Honda	Truck	Truck SUV	2001		100.0%	7.0%	93.0%			100.0%			100.0%	29.8%			100.0%	
Honda	Truck	Truck SUV	2002		100.0%	5.7%	94.3%			100.0%			100.0%	98.0%			100.0%	
Honda	Truck	Truck SUV	2003	6.0%	94.0%	4.4%	95.6%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Truck SUV	2004	4.4%	95.6%	4.2%	95.8%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Truck SUV	2005	4.9%	95.1%	3.0%	97.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Truck SUV	2006	19.5%	80.5%	2.6%	97.4%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Truck SUV	2007	17.2%	82.8%	1.0%	99.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Truck SUV	2008	14.2%	85.8%	0.6%	99.4%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Truck SUV	2009	13.6%	86.4%	0.1%	99.9%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	Truck SUV	2010	16.1%	83.9%	0.0%	100.0%			100.0%			100.0%	100.0%			88.1%	11.9%
Honda	Truck	Truck SUV	2011	15.9%	84.1%		100.0%			100.0%			100.0%	100.0%			97.0%	3.0%
Honda	Truck	Truck SUV	2012	12.8%	87.2%		100.0%			100.0%			100.0%	100.0%				
Honda	Truck	Truck SUV	2013	12.7%	87.3%		100.0%			100.0%			100.0%	100.0%				



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	14.6	19.9	17.2	4500		212	247	9.2	1.165	0.0549	48.1		
Honda	Truck	Pickup	2007	21.4	14.6	19.9	17.2	4500		212	247	9.2	1.165	0.0549	48.1		
Honda	Truck	Pickup	2008	21.4	14.6	19.9	17.2	4500		212	247	9.2	1.165	0.0549	48.1		
Honda	Truck	Pickup	2009	22.0	15.0	20.4	17.6	4500		212	250	9.1	1.179	0.0556	49.4		
Honda	Truck	Pickup	2010	22.0	15.0	20.4	17.6	4500		214	250	9.1	1.168	0.0556	49.4		
Honda	Truck	Pickup	2011	22.0	15.0	20.4	17.6	4500		214	250	9.1	1.168	0.0556	49.4		
Honda	Truck	Pickup	2012	22.6	15.4	20.8	18.1	5000		214	250	10.0	1.171	0.0500	56.5		
Honda	Truck	Pickup	2013	22.6	15.4	20.8	18.1	5000		214	250	10.0	1.171	0.0500	56.5		



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		100.0%		100.0%			100.0%			100.0%	100.0%				100.0%
Honda	Truck	Pickup	2007		100.0%		100.0%			100.0%			100.0%	100.0%				100.0%
Honda	Truck	Pickup	2008		100.0%		100.0%			100.0%			100.0%	100.0%				100.0%
Honda	Truck	Pickup	2009		100.0%		100.0%			100.0%			100.0%	100.0%				100.0%
Honda	Truck	Pickup	2010		100.0%		100.0%			100.0%			100.0%	100.0%				100.0%
Honda	Truck	Pickup	2011		100.0%		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	Truck	Pickup	2013		100.0%		100.0%			100.0%			100.0%	100.0%				



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	15.3	18.0	16.5	4000		193	175	11.0	0.907	0.0438	40.2		
Honda	Truck	All	1995	25.5	19.1	23.0	20.9	3500		132	140	11.9	1.061	0.0400	44.7		
Honda	Truck	All	1996	22.7	16.6	21.0	18.6	4010		163	168	11.5	1.040	0.0418	46.2		
Honda	Truck	All	1997	25.1	18.7	22.1	20.3	3638		132	136	12.7	1.028	0.0371	45.8		
Honda	Truck	All	1998	25.7	18.9	22.7	20.7	3592		135	143	12.2	1.056	0.0394	46.2		
Honda	Truck	All	1999	25.3	18.1	23.0	20.5	3888		159	172	11.0	1.117	0.0440	49.1		
Honda	Truck	All	2000	24.9	17.5	23.2	20.2	4102		174	181	11.0	1.071	0.0440	50.9		
Honda	Truck	All	2001	24.6	17.2	22.8	19.9	4165		181	191	10.8	1.080	0.0455	51.0		
Honda	Truck	All	2002	25.0	17.3	23.4	20.2	4148		188	212	9.9	1.124	0.0506	51.8		
Honda	Truck	All	2003	24.6	16.9	22.7	19.7	4198		188	214	9.9	1.135	0.0505	51.5		
Honda	Truck	All	2004	24.3	16.7	22.4	19.5	4192		188	215	9.9	1.136	0.0508	51.0		
Honda	Truck	All	2005	24.7	16.7	22.8	19.7	4218		191	226	9.6	1.179	0.0531	52.3		
Honda	Truck	All	2006	24.5	16.6	22.8	19.6	4273		195	223	9.7	1.139	0.0518	52.5		
Honda	Truck	All	2007	24.5	16.6	22.8	19.6	4341		191	227	9.8	1.191	0.0520	53.5		
Honda	Truck	All	2008	24.9	16.9	23.0	19.9	4310		187	223	9.9	1.194	0.0515	54.0		
Honda	Truck	All	2009	25.4	17.2	23.4	20.3	4387		188	224	10.0	1.192	0.0507	56.0		
Honda	Truck	All	2010	26.2	17.6	24.3	20.9	4410		190	230	9.8	1.214	0.0520	58.0		
Honda	Truck	All	2011	26.4	17.8	24.4	21.1	4361		191	231	9.6	1.212	0.0526	58.0		
Honda	Truck	All	2012	27.8	18.5	26.1	22.2	4358		194	235	9.5	1.218	0.0537	60.8		
Honda	Truck	All	2013	28.3	18.9	26.4	22.6	4278		190	231	9.5	1.218	0.0539	60.7		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		100.0%	65.5%	34.5%			100.0%			100.0%				100.0%	
Honda	Truck	All	1995	100.0%			100.0%			100.0%			100.0%				100.0%	
Honda	Truck	All	1996	49.0%		4.8%	95.2%			100.0%			100.0%				100.0%	
Honda	Truck	All	1997	19.9%	66.2%	1.5%	98.5%			100.0%			100.0%				100.0%	
Honda	Truck	All	1998	13.2%	86.8%	13.4%	86.6%			100.0%			100.0%				100.0%	
Honda	Truck	All	1999	33.0%	67.0%	9.2%	90.8%			100.0%			100.0%	33.0%			100.0%	
Honda	Truck	All	2000	55.2%	44.8%	5.3%	94.7%			100.0%			100.0%	55.2%			100.0%	
Honda	Truck	All	2001	47.3%	52.7%	3.7%	96.3%			100.0%			100.0%	63.0%			100.0%	
Honda	Truck	All	2002	48.0%	52.0%	3.0%	97.0%			100.0%			100.0%	98.9%			100.0%	
Honda	Truck	All	2003	35.2%	64.8%	3.0%	97.0%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	All	2004	29.5%	70.5%	3.1%	96.9%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	All	2005	33.9%	66.1%	2.1%	97.9%			100.0%			100.0%	100.0%			100.0%	
Honda	Truck	All	2006	41.9%	58.1%	1.5%	98.5%			100.0%			100.0%	100.0%			87.8%	12.2%
Honda	Truck	All	2007	42.7%	57.3%	0.6%	99.4%			100.0%			100.0%	100.0%			91.8%	8.2%
Honda	Truck	All	2008	35.3%	64.7%	0.4%	99.6%			100.0%			100.0%	100.0%			91.8%	8.2%
Honda	Truck	All	2009	32.4%	67.6%	0.1%	99.9%			100.0%			100.0%	100.0%			95.9%	4.1%
Honda	Truck	All	2010	38.6%	61.4%	0.0%	100.0%			100.0%			100.0%	100.0%			88.6%	11.4%
Honda	Truck	All	2011	31.7%	68.3%		100.0%			100.0%			100.0%	100.0%			94.9%	5.1%
Honda	Truck	All	2012	38.4%	61.6%		100.0%			100.0%			100.0%	100.0%				
Honda	Truck	All	2013	32.0%	68.0%		100.0%			100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Honda	All	All	1975	31.4	24.5	30.0	26.7	2000		83	54	15.9	0.653	0.0271	31.5		
Honda	All	All	1976	32.6	25.6	31.0	27.8	2021		84	56	15.6	0.671	0.0278	33.2		
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
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
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
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
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
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
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
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
Honda	All	All	1985	33.8	26.6	32.0	28.8	2432	89.5	104	84	13.2	0.813	0.0348	41.4	3040	3693
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
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
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
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
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
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
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
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
Honda	All	All	1994	31.5	23.0	29.5	25.9	3084	98.4	123	134	11.2	1.107	0.0434	49.0	3202	4849
Honda	All	All	1995	32.4	23.5	30.2	26.5	3016	97.5	118	131	11.2	1.124	0.0432	49.3	3251	4818
Honda	All	All	1996	31.0	22.3	28.9	25.3	3106	102.0	127	137	11.1	1.090	0.0439	48.6	3306	4972
Honda	All	All	1997	31.0	22.3	28.5	25.2	3097	101.1	124	134	11.3	1.091	0.0431	48.4	3308	4932
Honda	All	All	1998	30.9	22.0	28.6	25.0	3231	104.0	129	144	11.1	1.125	0.0444	50.3	3373	5299
Honda	All	All	1999	29.6	20.8	27.5	23.9	3345	105.0	139	156	10.7	1.139	0.0465	49.7	3288	5254
Honda	All	All	2000	29.4	20.5	27.5	23.8	3381	104.4	142	159	10.7	1.141	0.0468	49.9	3279	5201
Honda	All	All	2001	29.9	20.6	27.7	24.0	3428	104.6	145	162	10.6	1.135	0.0471	51.5	3448	5425
Honda	All	All	2002	29.8	20.4	27.7	23.9	3462	105.4	149	171	10.3	1.149	0.0488	51.8	3434	5460
Honda	All	All	2003	29.1	19.7	27.2	23.3	3626	105.8	159	186	10.0	1.170	0.0507	53.3	3539	5755
Honda	All	All	2004	28.9	19.5	26.9	23.1	3633	105.5	158	187	10.0	1.182	0.0508	53.1	3531	5759
Honda	All	All	2005	29.1	19.4	27.0	23.1	3659	105.7	160	193	9.8	1.199	0.0520	53.9	3556	5819
Honda	All	All	2006	28.9	19.3	26.9	23.0	3735	104.8	163	196	9.7	1.213	0.0521	54.9	3605	5956
Honda	All	All	2007	29.3	19.5	27.2	23.3	3713	105.9	158	193	9.9	1.226	0.0514	55.2	3677	5988
Honda	All	All	2008	30.1	20.0	27.9	23.9	3681	109.0	155	191	9.9	1.240	0.0514	56.1	3811	6287
Honda	All	All	2009	31.1	20.7	28.8	24.6	3626	109.5	150	187	9.9	1.248	0.0510	56.9	3853	6301
Honda	All	All	2010	31.5	21.0	29.1	24.9	3686	108.9	154	193	9.7	1.265	0.0518	58.8	3969	6471
Honda	All	All	2011	30.4	20.3	28.0	24.1	3849	108.8	164	201	9.7	1.236	0.0517	59.0	3996	6609
Honda	All	All	2012	33.6	22.1	31.3	26.6	3646	108.4	155	192	9.8	1.249	0.0520	61.9	4183	6787
Honda	All	All	2013	34.3	22.7	31.5	27.0	3654	109.0	156	196	9.6	1.262	0.0531	63.4	4372	7129

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Honda	All	All	1975	100.0%		87.8%	12.2%									100.0%		
Honda	All	All	1976	100.0%		88.9%										100.0%		
Honda	All	All	1977	100.0%		81.3%										100.0%		
Honda	All	All	1978	100.0%		82.0%	18.0%									100.0%		
Honda	All	All	1979	100.0%		74.8%	25.2%									100.0%		
Honda	All	All	1980	100.0%		58.0%	8.9%									100.0%		
Honda	All	All	1981	100.0%		73.6%										100.0%		
Honda	All	All	1982	100.0%		71.8%										100.0%		
Honda	All	All	1983	100.0%		64.5%	23.3%									100.0%		
Honda	All	All	1984	100.0%		64.5%	35.5%									100.0%		
Honda	All	All	1985	98.3%	1.7%	62.9%	37.1%			8.2%						100.0%		
Honda	All	All	1986	98.1%	1.9%	63.1%	36.9%			37.0%			69.9%			100.0%		
Honda	All	All	1987	99.2%	0.8%	49.0%	51.0%			38.1%			97.8%			100.0%		
Honda	All	All	1988	99.5%	0.5%	47.8%	52.2%			42.9%	22.5%		98.6%			100.0%		
Honda	All	All	1989	95.9%	4.1%	46.3%	53.7%			48.0%	26.0%		98.8%			100.0%		
Honda	All	All	1990	99.7%	0.3%	41.2%	58.8%			75.1%	24.3%		99.2%			100.0%		
Honda	All	All	1991	99.6%		38.6%	61.4%			74.3%	25.7%		99.0%	0.4%		100.0%		
Honda	All	All	1992	99.8%		35.2%	64.8%			100.0%			97.5%	3.8%		100.0%		
Honda	All	All	1993	99.9%		35.5%	64.5%			100.0%			99.6%	14.4%		100.0%		
Honda	All	All	1994	97.9%	2.0%	36.3%	63.7%			100.0%			98.4%	35.5%		96.9%	3.1%	
Honda	All	All	1995	99.9%		34.0%	66.0%			100.0%			98.9%	33.9%		96.0%	4.0%	
Honda	All	All	1996	96.2%		26.1%	73.8%	0.1%		100.0%			99.9%	27.0%		91.9%	8.1%	
Honda	All	All	1997	90.0%	7.6%	23.6%	75.7%	0.7%		100.0%			100.0%	27.6%		86.1%	13.9%	
Honda	All	All	1998	89.7%	9.4%	20.7%	78.8%	0.5%		100.0%			100.0%	57.2%		45.5%	54.5%	
Honda	All	All	1999	87.9%	10.8%	16.5%	83.2%	0.2%		100.0%			100.0%	64.4%		35.0%	65.0%	
Honda	All	All	2000	89.8%	8.5%	14.9%	84.9%	0.2%		100.0%			100.0%	68.5%	0.5%	33.7%	66.3%	
Honda	All	All	2001	86.3%	12.1%	13.1%	86.6%	0.3%		100.0%			100.0%	84.0%	0.3%	36.9%	63.1%	
Honda	All	All	2002	85.8%	13.1%	12.5%	87.3%	0.2%		100.0%			100.0%	96.4%	0.2%	31.7%	68.3%	
Honda	All	All	2003	75.5%	24.0%	9.5%	88.6%	1.9%		100.0%			97.7%	99.8%	2.3%	24.5%	75.5%	
Honda	All	All	2004	73.3%	26.2%	9.4%	89.2%	1.4%		100.0%			98.3%	99.4%	1.7%	26.7%	73.3%	
Honda	All	All	2005	72.6%	26.8%	7.8%	90.5%	1.6%		100.0%			98.1%	100.0%	3.4%	25.4%	74.6%	
Honda	All	All	2006	74.3%	25.3%	7.1%	90.8%	2.1%		100.0%			97.9%	100.0%	2.4%	26.9%	68.0%	5.2%
Honda	All	All	2007	76.9%	22.8%	6.7%	91.4%	2.0%		100.0%			98.0%	100.0%	2.2%	26.3%	70.5%	3.2%
Honda	All	All	2008	77.1%	22.7%	6.4%	91.5%	2.1%		100.0%			97.9%	100.0%	2.1%	33.2%	41.7%	25.0%
Honda	All	All	2009	79.7%	20.3%	4.6%	93.7%	1.7%		100.0%			98.3%	100.0%	1.7%	38.2%	36.6%	25.2%
Honda	All	All	2010	78.4%	21.6%	2.3%	93.6%	4.2%		100.0%			95.8%	100.0%	4.2%	36.7%	39.4%	24.0%
Honda	All	All	2011	66.2%	33.8%	2.2%	95.5%	2.3%		100.0%			98.7%	100.0%	2.8%	23.4%	56.3%	20.3%
Honda	All	All	2012	78.6%	21.4%	2.8%	97.2%	1.5%		100.0%			98.8%	100.0%	1.5%			
Honda	All	All	2013	75.8%	24.2%	3.5%	96.5%	19.7%	17.9%	82.1%			98.1%	100.0%	2.3%			

**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Chrysler-Fiat	Car	Car	1975	15.8	12.4	15.1	13.5	4048		284	137	14.0	0.507	0.0334	32.3		
Chrysler-Fiat	Car	Car	1976	16.8	13.1	16.1	14.3	3995		280	132	14.4	0.484	0.0325	34.0		
Chrysler-Fiat	Car	Car	1977	16.6	12.9	16.1	14.2	4071	115.4	287	133	14.5	0.483	0.0322	34.2	1975	3952
Chrysler-Fiat	Car	Car	1978	19.1	14.8	18.4	16.3	3650	108.6	246	123	13.9	0.543	0.0332	35.2	2152	3822
Chrysler-Fiat	Car	Car	1979	21.0	16.4	20.2	17.9	3388	107.1	219	110	14.3	0.554	0.0321	35.7	2317	3833
Chrysler-Fiat	Car	Car	1980	22.7	17.7	21.8	19.4	3075	102.3	183	89	15.5	0.543	0.0290	35.1	2392	3588
Chrysler-Fiat	Car	Car	1981	26.1	20.3	25.2	22.2	2833	104.7	158	92	14.1	0.621	0.0325	37.2	2817	3893
Chrysler-Fiat	Car	Car	1982	26.9	21.0	25.9	22.9	2942	106.5	167	94	14.2	0.606	0.0320	39.9	2953	4243
Chrysler-Fiat	Car	Car	1983	28.4	22.4	26.7	24.2	2843	106.6	155	90	14.5	0.623	0.0315	40.9	3148	4347
Chrysler-Fiat	Car	Car	1984	28.5	22.3	27.2	24.3	2790	105.3	143	92	14.2	0.672	0.0326	40.1	3095	4219
Chrysler-Fiat	Car	Car	1985	28.1	21.9	27.0	23.9	2881	106.9	150	106	13.0	0.745	0.0366	40.7	3063	4345
Chrysler-Fiat	Car	Car	1986	28.5	22.3	27.0	24.2	2883	106.3	148	104	13.2	0.741	0.0360	41.4	3100	4401
Chrysler-Fiat	Car	Car	1987	27.7	21.3	26.3	23.4	2897	106.0	153	106	12.9	0.733	0.0367	40.2	2975	4262
Chrysler-Fiat	Car	Car	1988	28.4	21.6	27.4	24.0	2957	107.2	153	109	13.0	0.733	0.0367	42.2	3091	4520
Chrysler-Fiat	Car	Car	1989	28.0	20.9	27.4	23.6	3073	106.8	152	112	13.1	0.747	0.0361	43.2	3029	4610
Chrysler-Fiat	Car	Car	1990	27.3	20.2	26.8	22.9	3214	106.3	161	124	12.5	0.785	0.0384	44.0	2921	4674
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
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
Chrysler-Fiat	Car	Car	1993	27.9	20.2	27.0	23.1	3178	108.4	169	133	11.9	0.791	0.0414	44.4	3042	4813
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
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
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
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
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
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
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
Chrysler-Fiat	Car	Car	2001	27.6	18.9	26.2	22.3	3454	113.2	157	174	10.1	1.101	0.0501	47.7	3141	5413
Chrysler-Fiat	Car	Car	2002	26.9	18.3	25.6	21.7	3475	113.5	159	191	9.6	1.192	0.0545	46.9	3071	5320
Chrysler-Fiat	Car	Car	2003	28.4	19.3	26.4	22.7	3373	112.4	150	167	10.3	1.110	0.0492	48.2	3223	5415
Chrysler-Fiat	Car	Car	2004	27.4	18.5	25.4	21.9	3623	117.3	165	197	9.4	1.202	0.0544	49.6	3214	5847
Chrysler-Fiat	Car	Car	2005	26.5	17.8	24.7	21.2	3757	119.9	186	215	9.1	1.178	0.0566	49.7	3191	6011
Chrysler-Fiat	Car	Car	2006	25.4	17.0	24.0	20.4	3950	125.2	212	245	8.6	1.194	0.0617	50.2	3192	6314
Chrysler-Fiat	Car	Car	2007	27.0	18.2	24.9	21.5	3824	116.1	186	224	8.8	1.251	0.0579	52.1	3171	6050
Chrysler-Fiat	Car	Car	2008	27.7	18.5	25.8	22.1	3789	113.3	178	209	9.6	1.196	0.0545	52.9	3185	6005
Chrysler-Fiat	Car	Car	2009	27.5	18.4	25.6	21.9	3837	115.9	194	227	9.1	1.206	0.0582	53.1	3245	6158
Chrysler-Fiat	Car	Car	2010	27.7	18.5	26.0	22.1	3840	115.0	195	225	9.2	1.171	0.0577	53.5	3239	6160
Chrysler-Fiat	Car	Car	2011	28.2	18.4	27.5	22.7	3880	114.4	208	256	8.4	1.243	0.0648	55.0	3273	6295
Chrysler-Fiat	Car	Car	2012	29.9	19.5	29.1	24.0	3708	111.0	190	233	9.0	1.231	0.0609	55.6	3362	6188
Chrysler-Fiat	Car	Car	2013	31.1	20.2	30.1	24.9	3716	111.4	178	224	9.3	1.295	0.0586	58.4	3536	6517

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Chrysler-Fiat	Car	Car	1975	3.0%		13.0%										51.7%	30.8%	17.5%
Chrysler-Fiat	Car	Car	1976	1.7%		13.1%										51.0%	37.6%	11.4%
Chrysler-Fiat	Car	Car	1977	1.8%		10.8%				0.2%						40.5%	43.4%	16.1%
Chrysler-Fiat	Car	Car	1978	12.2%		17.6%	50.3%			0.2%						55.0%	40.0%	5.0%
Chrysler-Fiat	Car	Car	1979	26.5%		18.7%	45.7%			0.2%						45.8%	43.6%	10.6%
Chrysler-Fiat	Car	Car	1980	38.8%	4.1%	23.6%	42.8%			1.2%						63.6%	32.9%	3.6%
Chrysler-Fiat	Car	Car	1981	67.7%	1.9%	30.0%	14.3%			2.6%	0.7%					53.2%	45.4%	1.3%
Chrysler-Fiat	Car	Car	1982	70.5%	2.9%	20.2%	19.2%			1.8%	0.3%					41.6%	58.4%	
Chrysler-Fiat	Car	Car	1983	78.3%	3.5%	24.8%	15.4%			1.3%	13.8%					48.2%	51.8%	
Chrysler-Fiat	Car	Car	1984	88.5%	1.9%	26.8%	10.5%			9.4%	24.2%					56.8%	43.2%	
Chrysler-Fiat	Car	Car	1985	88.0%	0.1%	19.9%	13.0%			16.2%	31.1%					45.1%	54.9%	
Chrysler-Fiat	Car	Car	1986	89.6%	0.7%	19.2%	12.0%			18.3%	49.8%		0.1%			43.0%	57.0%	
Chrysler-Fiat	Car	Car	1987	88.5%	0.3%	16.9%	31.3%			17.1%	45.0%		0.1%			48.1%	51.9%	
Chrysler-Fiat	Car	Car	1988	93.5%	0.2%	13.8%	77.1%			27.6%	60.8%		0.1%			51.0%	45.4%	3.6%
Chrysler-Fiat	Car	Car	1989	97.3%	0.3%	13.8%	77.7%			44.2%	54.1%		0.7%			50.3%	45.7%	4.0%
Chrysler-Fiat	Car	Car	1990	99.7%	0.0%	13.9%	84.6%			61.6%	38.4%		8.1%			51.5%	38.9%	9.6%
Chrysler-Fiat	Car	Car	1991	97.6%	2.0%	15.6%	83.5%			62.4%	37.6%		15.6%			46.5%	43.7%	9.8%
Chrysler-Fiat	Car	Car	1992	97.4%	2.3%	16.1%	83.3%			60.9%	39.1%		7.4%			54.1%	38.3%	7.6%
Chrysler-Fiat	Car	Car	1993	99.7%	0.1%	12.4%	86.4%			67.0%	33.0%		19.2%			45.6%	30.6%	23.8%
Chrysler-Fiat	Car	Car	1994	99.6%		7.6%	92.1%			71.0%	29.0%		28.2%			37.0%	19.0%	44.0%
Chrysler-Fiat	Car	Car	1995	99.0%	0.7%	14.0%	85.9%			97.1%	2.9%		75.7%	0.1%		54.1%	16.7%	29.2%
Chrysler-Fiat	Car	Car	1996	99.5%	0.2%	9.7%	90.3%			100.0%			88.2%	0.0%		45.9%	23.6%	30.6%
Chrysler-Fiat	Car	Car	1997	99.5%	0.2%	7.8%	92.2%			100.0%			92.6%	0.1%		43.0%	25.3%	31.7%
Chrysler-Fiat	Car	Car	1998	99.7%	0.1%	7.7%	92.3%			100.0%			99.8%	0.1%		50.6%	31.8%	17.6%
Chrysler-Fiat	Car	Car	1999	99.1%		3.0%	96.9%			100.0%			99.8%	0.2%		28.3%	25.4%	46.4%
Chrysler-Fiat	Car	Car	2000	99.4%		3.7%	96.3%			100.0%			99.8%	0.1%		41.0%	22.3%	36.7%
Chrysler-Fiat	Car	Car	2001	99.2%		6.1%	93.9%			100.0%			99.8%	0.1%		55.6%	18.5%	25.9%
Chrysler-Fiat	Car	Car	2002	99.3%		6.4%	93.6%			100.0%			99.8%	0.3%		52.6%	21.1%	26.3%
Chrysler-Fiat	Car	Car	2003	99.2%		8.8%	91.2%			100.0%			99.6%	0.4%		65.6%	17.5%	16.9%
Chrysler-Fiat	Car	Car	2004	89.5%	9.2%	5.1%	94.9%			100.0%			100.0%	0.3%		43.2%	27.4%	29.4%
Chrysler-Fiat	Car	Car	2005	63.0%	7.0%	5.0%	94.8%			100.0%			87.8%	0.4%		42.4%	24.9%	32.7%
Chrysler-Fiat	Car	Car	2006	45.0%	5.5%	1.6%	98.1%			100.0%			80.0%	0.5%		23.1%	21.7%	55.3%
Chrysler-Fiat	Car	Car	2007	64.3%	6.9%	2.1%	69.9%	27.9%		100.0%			87.7%	39.5%		47.4%	16.2%	36.4%
Chrysler-Fiat	Car	Car	2008	63.6%	3.4%	1.8%	84.5%	13.4%		100.0%			94.1%	39.3%		19.0%	48.9%	32.1%
Chrysler-Fiat	Car	Car	2009	50.7%	1.7%	5.4%	76.8%	16.7%	0.0%	100.0%			83.7%	51.4%		25.4%	38.7%	35.9%
Chrysler-Fiat	Car	Car	2010	46.9%	1.8%	3.5%	83.2%	12.5%	0.4%	99.6%			88.7%	50.1%		32.5%	29.4%	38.2%
Chrysler-Fiat	Car	Car	2011	58.5%	2.0%	2.7%	82.4%	14.4%	0.5%	99.5%			85.1%	86.9%		30.1%	39.5%	30.4%
Chrysler-Fiat	Car	Car	2012	61.6%	2.1%	6.6%	92.5%	2.3%	0.3%	99.7%			89.6%	97.7%				
Chrysler-Fiat	Car	Car	2013	71.4%	3.3%	5.4%	87.7%		0.2%	99.8%			90.5%	98.8%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Chrysler-Fiat	Car	Car SUV	1975	14.5	11.5	13.6	12.4	4000		303	139	13.5	0.458	0.0347	29.5		
Chrysler-Fiat	Car	Car SUV	1976	16.5	12.5	16.6	14.1	4000		298	139	13.5	0.466	0.0348	33.2		
Chrysler-Fiat	Car	Car SUV	1977	16.4	12.9	15.5	13.9	4000		276	128	14.7	0.459	0.0319	32.9		
Chrysler-Fiat	Car	Car SUV	1978	16.4	13.2	14.9	13.9	4000		296	137	13.6	0.465	0.0343	33.0		
Chrysler-Fiat	Car	Car SUV	1979	20.3	17.1	17.4	17.2	2837		133	84	15.3	0.647	0.0294	28.8		
Chrysler-Fiat	Car	Car SUV	1980	17.6	14.3	15.9	15.0	4000		279	123	15.0	0.442	0.0308	35.4		
Chrysler-Fiat	Car	Car SUV	1981	17.3	13.7	16.1	14.7	4000		318	140	13.3	0.440	0.0350	34.5		
Chrysler-Fiat	Car	Car SUV	1982	23.6	20.7	19.1	19.9	2500		151	84	13.7	0.556	0.0336	29.5		
Chrysler-Fiat	Car	Car SUV	1983	23.2	20.4	18.7	19.6	2500		151	87	13.3	0.580	0.0350	29.0		
Chrysler-Fiat	Car	Car SUV	1984	18.4	15.8	15.3	15.6	3472		220	105	14.7	0.500	0.0312	31.6		
Chrysler-Fiat	Car	Car SUV	1985	23.4	18.6	21.9	19.9	3000		158	107	13.0	0.678	0.0356	35.5		
Chrysler-Fiat	Car	Car SUV	1986	22.7	18.0	20.9	19.2	3405		164	116	13.5	0.710	0.0341	38.9		
Chrysler-Fiat	Car	Car SUV	1987	21.1	16.0	20.8	17.9	3424		223	159	10.6	0.719	0.0463	36.5		
Chrysler-Fiat	Car	Car SUV	1988	21.1	15.9	20.9	17.9	3464		232	167	10.3	0.722	0.0482	36.8		
Chrysler-Fiat	Car	Car SUV	1989	20.9	15.5	20.6	17.6	3481		237	174	10.0	0.734	0.0499	36.4		
Chrysler-Fiat	Car	Car SUV	1990	21.2	15.7	20.8	17.8	3474		237	173	10.0	0.734	0.0499	36.8		
Chrysler-Fiat	Car	Car SUV	1991	20.6	15.1	20.4	17.3	3486		239	179	9.7	0.747	0.0512	36.0		
Chrysler-Fiat	Car	Car SUV	1992	20.6	15.1	20.2	17.3	3492		240	189	9.3	0.786	0.0541	36.1		
Chrysler-Fiat	Car	Car SUV	1993	19.3	14.0	19.0	16.1	3904		264	197	9.9	0.753	0.0505	37.7		
Chrysler-Fiat	Car	Car SUV	1994	20.9	15.1	20.6	17.4	3668		236	186	9.8	0.791	0.0508	38.4		
Chrysler-Fiat	Car	Car SUV	1995	19.5	14.0	19.0	16.2	3763		242	190	9.9	0.785	0.0507	36.6		
Chrysler-Fiat	Car	Car SUV	1996	20.7	14.8	20.2	17.1	3738		238	187	9.9	0.789	0.0502	38.7		
Chrysler-Fiat	Car	Car SUV	1997	20.4	14.5	19.8	16.9	3882		248	188	10.2	0.762	0.0487	39.6		
Chrysler-Fiat	Car	Car SUV	1998	20.8	14.6	20.1	17.1	3836		244	187	10.2	0.768	0.0490	39.9		
Chrysler-Fiat	Car	Car SUV	1999	21.6	15.2	20.7	17.7	3830		240	192	9.9	0.799	0.0502	41.4		
Chrysler-Fiat	Car	Car SUV	2000	21.1	14.8	20.0	17.2	3913		247	199	9.9	0.804	0.0508	41.3		
Chrysler-Fiat	Car	Car SUV	2001	21.1	14.6	20.1	17.2	3846		247	197	9.8	0.799	0.0514	40.5		
Chrysler-Fiat	Car	Car SUV	2002	20.2	13.9	19.3	16.5	4000		244	198	10.1	0.811	0.0494	40.4		
Chrysler-Fiat	Car	Car SUV	2003	22.0	15.4	20.1	17.7	4000		232	204	9.8	0.885	0.0511	44.0		
Chrysler-Fiat	Car	Car SUV	2004	22.5	15.3	21.2	18.2	4000		224	209	9.6	0.932	0.0522	45.0		
Chrysler-Fiat	Car	Car SUV	2005	22.1	15.1	20.3	17.7	4000		224	209	9.6	0.931	0.0521	44.2		
Chrysler-Fiat	Car	Car SUV	2006	22.4	15.2	21.0	18.0	4000		226	210	9.6	0.929	0.0525	44.7		
Chrysler-Fiat	Car	Car SUV	2007	23.1	15.7	21.5	18.5	4000		227	208	9.6	0.919	0.0521	46.2		
Chrysler-Fiat	Car	Car SUV	2008														
Chrysler-Fiat	Car	Car SUV	2009	27.3	18.5	24.8	21.7	4000		144	173	11.2	1.201	0.0433	54.6		
Chrysler-Fiat	Car	Car SUV	2010	27.8	18.9	25.1	22.0	4000		146	173	11.2	1.185	0.0433	55.6		
Chrysler-Fiat	Car	Car SUV	2011														
Chrysler-Fiat	Car	Car SUV	2012	27.8	19.0	24.9	22.0	3781		169	190	10.1	1.154	0.0498	53.0		
Chrysler-Fiat	Car	Car SUV	2013	29.6	20.1	26.6	23.3	3760		141	169	10.9	1.202	0.0450	55.6		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Chrysler-Fiat	Car	Car SUV	1975			19.9%											100.0%	
Chrysler-Fiat	Car	Car SUV	1976			17.3%											100.0%	
Chrysler-Fiat	Car	Car SUV	1977			13.3%											100.0%	
Chrysler-Fiat	Car	Car SUV	1978			12.9%											100.0%	
Chrysler-Fiat	Car	Car SUV	1979			0.7%	6.3%									93.0%	7.0%	
Chrysler-Fiat	Car	Car SUV	1980				100.0%										100.0%	
Chrysler-Fiat	Car	Car SUV	1981				100.0%										100.0%	
Chrysler-Fiat	Car	Car SUV	1982													100.0%		
Chrysler-Fiat	Car	Car SUV	1983													100.0%		
Chrysler-Fiat	Car	Car SUV	1984													35.2%	64.8%	
Chrysler-Fiat	Car	Car SUV	1985			39.2%	60.8%										100.0%	
Chrysler-Fiat	Car	Car SUV	1986			33.4%	66.6%				39.1%	0.1%					100.0%	
Chrysler-Fiat	Car	Car SUV	1987			27.5%	72.5%			79.3%	20.7%						100.0%	
Chrysler-Fiat	Car	Car SUV	1988			18.7%	81.3%			89.6%	10.4%						100.0%	
Chrysler-Fiat	Car	Car SUV	1989			16.4%	83.6%			94.9%	5.1%						100.0%	
Chrysler-Fiat	Car	Car SUV	1990			16.4%	83.6%			94.1%	5.9%						100.0%	
Chrysler-Fiat	Car	Car SUV	1991			15.4%	84.6%			100.0%							100.0%	
Chrysler-Fiat	Car	Car SUV	1992			16.6%	83.4%			100.0%							100.0%	
Chrysler-Fiat	Car	Car SUV	1993			2.9%	97.1%			100.0%							100.0%	
Chrysler-Fiat	Car	Car SUV	1994			13.2%	86.8%			100.0%							100.0%	
Chrysler-Fiat	Car	Car SUV	1995			4.5%	95.5%			100.0%							100.0%	
Chrysler-Fiat	Car	Car SUV	1996			8.3%	91.7%			100.0%							100.0%	
Chrysler-Fiat	Car	Car SUV	1997			2.8%	97.2%			100.0%							100.0%	
Chrysler-Fiat	Car	Car SUV	1998			3.5%	96.5%			100.0%							100.0%	
Chrysler-Fiat	Car	Car SUV	1999			2.6%	97.4%			100.0%							100.0%	
Chrysler-Fiat	Car	Car SUV	2000			0.6%	99.4%			100.0%							100.0%	
Chrysler-Fiat	Car	Car SUV	2001			0.4%	99.6%			100.0%							100.0%	
Chrysler-Fiat	Car	Car SUV	2002				100.0%			100.0%							100.0%	
Chrysler-Fiat	Car	Car SUV	2003			3.1%	96.9%			100.0%			2.0%				100.0%	
Chrysler-Fiat	Car	Car SUV	2004			5.3%	94.7%			100.0%			2.3%				100.0%	
Chrysler-Fiat	Car	Car SUV	2005			3.5%	96.5%			100.0%			2.4%				100.0%	
Chrysler-Fiat	Car	Car SUV	2006			3.1%	96.9%			100.0%							100.0%	
Chrysler-Fiat	Car	Car SUV	2007			11.8%	88.2%			100.0%						8.9%	91.1%	
Chrysler-Fiat	Car	Car SUV	2008															
Chrysler-Fiat	Car	Car SUV	2009	100.0%			100.0%			100.0%			100.0%	99.7%				100.0%
Chrysler-Fiat	Car	Car SUV	2010	100.0%			100.0%			100.0%			100.0%	100.0%				100.0%
Chrysler-Fiat	Car	Car SUV	2011															
Chrysler-Fiat	Car	Car SUV	2012	71.7%		2.9%	97.1%	51.2%		100.0%			71.7%	71.7%				
Chrysler-Fiat	Car	Car SUV	2013	100.0%		5.2%	94.8%	42.8%		100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Chrysler-Fiat	Car	All	1975	15.8	12.4	15.1	13.5	4048		284	137	14.0	0.507	0.0334	32.3		
Chrysler-Fiat	Car	All	1976	16.8	13.1	16.1	14.3	3995		280	132	14.4	0.484	0.0325	34.0		
Chrysler-Fiat	Car	All	1977	16.6	12.9	16.1	14.2	4071	115.4	287	133	14.5	0.483	0.0322	34.2	1975	3952
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	3822
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	2317	3833
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	3588
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
Chrysler-Fiat	Car	All	1982	26.9	21.0	25.8	22.9	2936	106.5	166	94	14.2	0.606	0.0321	39.7	2953	4243
Chrysler-Fiat	Car	All	1983	28.3	22.4	26.6	24.1	2838	106.6	155	90	14.5	0.622	0.0316	40.7	3148	4347
Chrysler-Fiat	Car	All	1984	28.4	22.2	27.0	24.2	2795	105.3	144	92	14.2	0.671	0.0326	40.0	3095	4219
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
Chrysler-Fiat	Car	All	1986	28.4	22.2	26.9	24.1	2889	106.3	148	104	13.2	0.741	0.0360	41.4	3100	4401
Chrysler-Fiat	Car	All	1987	27.6	21.3	26.3	23.3	2901	106.0	154	107	12.9	0.733	0.0368	40.1	2975	4262
Chrysler-Fiat	Car	All	1988	28.3	21.5	27.3	23.9	2964	107.2	154	110	12.9	0.733	0.0368	42.1	3091	4520
Chrysler-Fiat	Car	All	1989	27.9	20.8	27.2	23.4	3080	106.8	153	113	13.0	0.747	0.0364	43.1	3029	4610
Chrysler-Fiat	Car	All	1990	27.2	20.1	26.7	22.8	3219	106.3	162	125	12.5	0.784	0.0386	43.8	2921	4674
Chrysler-Fiat	Car	All	1991	27.3	20.3	26.1	22.8	3195	106.4	163	127	12.3	0.794	0.0394	43.7	2941	4662
Chrysler-Fiat	Car	All	1992	27.2	20.2	25.9	22.6	3187	105.4	166	129	12.2	0.786	0.0400	43.6	2938	4633
Chrysler-Fiat	Car	All	1993	25.1	18.2	24.4	20.9	3360	108.4	193	149	11.4	0.781	0.0437	42.7	3042	4813
Chrysler-Fiat	Car	All	1994	25.6	18.4	25.2	21.3	3388	111.6	185	150	11.5	0.801	0.0434	43.6	2941	4928
Chrysler-Fiat	Car	All	1995	27.3	19.3	27.0	22.6	3245	108.8	163	155	10.4	0.984	0.0477	44.5	3088	4914
Chrysler-Fiat	Car	All	1996	26.3	18.4	26.3	21.8	3377	110.2	166	167	10.1	1.039	0.0496	44.6	3023	5007
Chrysler-Fiat	Car	All	1997	26.3	18.2	26.5	21.8	3403	110.5	168	165	10.3	1.009	0.0483	45.0	3027	5047
Chrysler-Fiat	Car	All	1998	27.2	18.7	27.1	22.4	3299	107.9	155	158	10.4	1.036	0.0478	45.1	3080	4946
Chrysler-Fiat	Car	All	1999	26.3	17.9	26.2	21.6	3548	113.2	171	186	9.8	1.094	0.0521	46.8	3071	5390
Chrysler-Fiat	Car	All	2000	26.6	18.3	25.7	21.7	3457	112.2	165	176	10.0	1.079	0.0506	46.1	3114	5268
Chrysler-Fiat	Car	All	2001	26.8	18.4	25.5	21.7	3492	113.2	166	176	10.1	1.072	0.0503	47.0	3141	5413
Chrysler-Fiat	Car	All	2002	26.4	18.0	25.2	21.4	3503	113.5	163	191	9.7	1.171	0.0542	46.5	3071	5320
Chrysler-Fiat	Car	All	2003	27.2	18.6	25.2	21.8	3468	112.4	162	173	10.2	1.076	0.0495	47.6	3223	5415
Chrysler-Fiat	Car	All	2004	27.0	18.3	25.1	21.6	3644	117.3	168	198	9.4	1.187	0.0543	49.3	3214	5847
Chrysler-Fiat	Car	All	2005	26.3	17.7	24.5	21.0	3767	119.9	187	214	9.2	1.168	0.0564	49.5	3191	6011
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	3192	6314
Chrysler-Fiat	Car	All	2007	26.9	18.1	24.8	21.4	3830	116.1	188	223	8.9	1.239	0.0577	51.9	3171	6050
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
Chrysler-Fiat	Car	All	2009	27.4	18.4	25.5	21.9	3848	115.9	191	223	9.3	1.206	0.0572	53.2	3245	6158
Chrysler-Fiat	Car	All	2010	27.7	18.5	26.0	22.1	3847	115.0	192	223	9.2	1.171	0.0571	53.6	3239	6160
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
Chrysler-Fiat	Car	All	2012	29.6	19.4	28.3	23.7	3720	111.0	186	226	9.2	1.218	0.0591	55.2	3362	6188
Chrysler-Fiat	Car	All	2013	31.0	20.2	29.8	24.7	3719	111.4	175	220	9.4	1.288	0.0576	58.2	3536	6517

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Chrysler-Fiat	Car	All	1975	3.0%		13.0%										51.7%	30.8%	17.5%
Chrysler-Fiat	Car	All	1976	1.7%		13.1%										51.0%	37.6%	11.4%
Chrysler-Fiat	Car	All	1977	1.8%		10.8%				0.2%						40.5%	43.5%	16.1%
Chrysler-Fiat	Car	All	1978	12.1%		17.6%	50.3%			0.2%						54.9%	40.1%	5.0%
Chrysler-Fiat	Car	All	1979	26.3%		18.6%	45.4%			0.2%						46.1%	43.3%	10.6%
Chrysler-Fiat	Car	All	1980	38.8%	4.1%	23.6%	42.8%			1.2%						63.6%	32.9%	3.6%
Chrysler-Fiat	Car	All	1981	67.7%	1.9%	30.0%	14.3%			2.6%	0.7%					53.2%	45.5%	1.3%
Chrysler-Fiat	Car	All	1982	69.5%	2.9%	19.9%	19.0%			1.7%	0.3%					42.4%	57.6%	
Chrysler-Fiat	Car	All	1983	77.2%	3.5%	24.5%	15.2%			1.3%	13.6%					48.9%	51.1%	
Chrysler-Fiat	Car	All	1984	87.8%	1.9%	26.6%	10.4%			9.3%	24.1%					56.6%	43.4%	
Chrysler-Fiat	Car	All	1985	87.7%	0.1%	20.0%	13.2%			16.1%	31.0%					45.0%	55.0%	
Chrysler-Fiat	Car	All	1986	88.6%	0.7%	19.3%	12.6%			18.0%	49.7%	0.0%	0.1%			42.6%	57.4%	
Chrysler-Fiat	Car	All	1987	87.8%	0.3%	17.0%	31.6%			17.6%	44.8%		0.1%			47.8%	52.2%	
Chrysler-Fiat	Car	All	1988	92.2%	0.2%	13.9%	77.1%			28.4%	60.1%		0.1%			50.3%	46.2%	3.5%
Chrysler-Fiat	Car	All	1989	95.8%	0.3%	13.9%	77.7%			45.0%	53.4%		0.7%			49.5%	46.5%	3.9%
Chrysler-Fiat	Car	All	1990	98.0%	0.0%	14.0%	84.6%			62.2%	37.8%		8.0%			50.6%	40.0%	9.4%
Chrysler-Fiat	Car	All	1991	95.8%	1.9%	15.6%	83.5%			63.1%	36.9%		15.3%			45.7%	44.8%	9.6%
Chrysler-Fiat	Car	All	1992	92.9%	2.2%	16.1%	83.3%			62.7%	37.3%		7.1%			51.6%	41.2%	7.2%
Chrysler-Fiat	Car	All	1993	74.7%	0.1%	10.0%	89.1%			75.3%	24.7%		14.4%			34.2%	48.0%	17.8%
Chrysler-Fiat	Car	All	1994	90.8%		8.1%	91.6%			73.6%	26.4%		25.7%			33.7%	26.2%	40.1%
Chrysler-Fiat	Car	All	1995	92.1%	0.7%	13.4%	86.5%			97.3%	2.7%		70.4%	0.1%		50.4%	22.5%	27.2%
Chrysler-Fiat	Car	All	1996	88.6%	0.2%	9.5%	90.5%			100.0%			78.5%	0.0%		40.9%	31.9%	27.2%
Chrysler-Fiat	Car	All	1997	90.4%	0.1%	7.3%	92.7%			100.0%			84.2%	0.1%		39.1%	32.1%	28.8%
Chrysler-Fiat	Car	All	1998	88.4%	0.1%	7.2%	92.7%			100.0%			88.6%	0.1%		44.9%	39.5%	15.6%
Chrysler-Fiat	Car	All	1999	88.9%		3.0%	96.9%			100.0%			89.5%	0.2%		25.3%	33.1%	41.6%
Chrysler-Fiat	Car	All	2000	87.2%		3.3%	96.7%			100.0%			87.6%	0.1%		36.0%	31.8%	32.2%
Chrysler-Fiat	Car	All	2001	89.4%		5.5%	94.5%			100.0%			89.9%	0.1%		50.1%	26.6%	23.3%
Chrysler-Fiat	Car	All	2002	94.0%		6.1%	93.9%			100.0%			94.4%	0.3%		49.7%	25.4%	24.9%
Chrysler-Fiat	Car	All	2003	84.2%		7.9%	92.1%			100.0%			84.9%	0.3%		55.7%	29.9%	14.3%
Chrysler-Fiat	Car	All	2004	84.6%	8.7%	5.1%	94.9%			100.0%			94.6%	0.3%		40.9%	31.4%	27.8%
Chrysler-Fiat	Car	All	2005	60.4%	6.7%	5.0%	94.9%			100.0%			84.3%	0.4%		40.7%	28.0%	31.3%
Chrysler-Fiat	Car	All	2006	43.2%	5.2%	1.7%	98.0%			100.0%			76.8%	0.5%		22.2%	24.8%	53.1%
Chrysler-Fiat	Car	All	2007	61.9%	6.7%	2.5%	70.6%	26.8%		100.0%			84.5%	38.1%		46.0%	18.9%	35.1%
Chrysler-Fiat	Car	All	2008	63.6%	3.4%	1.8%	84.5%	13.4%		100.0%			94.1%	39.3%		19.0%	48.9%	32.1%
Chrysler-Fiat	Car	All	2009	54.1%	1.6%	5.0%	78.4%	15.6%	0.0%	100.0%			84.8%	54.7%		23.7%	36.0%	40.3%
Chrysler-Fiat	Car	All	2010	49.3%	1.7%	3.3%	83.9%	11.9%	0.4%	99.6%			89.2%	52.3%		31.0%	28.0%	40.9%
Chrysler-Fiat	Car	All	2011	58.5%	2.0%	2.7%	82.4%	14.4%	0.5%	99.5%			85.1%	86.9%		30.1%	39.5%	30.4%
Chrysler-Fiat	Car	All	2012	63.2%	1.8%	6.0%	93.2%	10.2%	0.3%	99.7%			86.7%	93.5%				
Chrysler-Fiat	Car	All	2013	73.4%	3.1%	5.4%	88.2%	3.1%	0.2%	99.8%			91.2%	98.9%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
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		
Chrysler-Fiat	Truck	Van	1985	21.0	16.8	19.4	17.8	3645		189	111	14.9	0.625	0.0304	38.9		
Chrysler-Fiat	Truck	Van	1986	22.0	17.3	20.5	18.6	3674		186	109	15.2	0.619	0.0295	40.8		
Chrysler-Fiat	Truck	Van	1987	22.3	17.3	21.0	18.9	3707		193	125	13.9	0.677	0.0337	41.8		
Chrysler-Fiat	Truck	Van	1988	23.0	17.6	22.0	19.4	3798		189	134	13.4	0.729	0.0353	43.9		
Chrysler-Fiat	Truck	Van	1989	22.6	17.3	21.4	19.0	3825		187	132	13.6	0.730	0.0344	43.7		
Chrysler-Fiat	Truck	Van	1990	23.0	17.2	22.1	19.3	3876		200	142	12.9	0.721	0.0366	44.8		
Chrysler-Fiat	Truck	Van	1991	22.8	17.2	21.5	19.0	3972		199	142	13.2	0.721	0.0355	45.6		
Chrysler-Fiat	Truck	Van	1992	22.7	16.9	21.5	18.9	3970		198	144	13.1	0.733	0.0360	45.4		
Chrysler-Fiat	Truck	Van	1993	23.6	17.4	22.6	19.7	3823		194	144	12.6	0.748	0.0377	45.3		
Chrysler-Fiat	Truck	Van	1994	22.4	16.5	21.2	18.6	3971		208	153	12.4	0.740	0.0383	44.8		
Chrysler-Fiat	Truck	Van	1995	23.0	16.8	21.8	19.0	3837		201	154	12.0	0.770	0.0400	44.5		
Chrysler-Fiat	Truck	Van	1996	22.8	16.3	21.9	18.8	4156		208	162	12.2	0.792	0.0390	47.6		
Chrysler-Fiat	Truck	Van	1997	22.7	16.1	21.8	18.7	4152		208	161	12.3	0.783	0.0387	47.3		
Chrysler-Fiat	Truck	Van	1998	23.3	16.3	22.7	19.2	4141		203	164	12.1	0.815	0.0394	48.4		
Chrysler-Fiat	Truck	Van	1999	23.0	16.0	22.3	18.8	4169		208	165	12.0	0.805	0.0395	48.0		
Chrysler-Fiat	Truck	Van	2000	23.4	16.2	22.6	19.1	4156		204	163	12.1	0.810	0.0393	48.9		
Chrysler-Fiat	Truck	Van	2001	23.4	16.2	22.2	19.0	4430		213	190	11.3	0.898	0.0429	52.0		
Chrysler-Fiat	Truck	Van	2002	23.8	16.4	22.6	19.3	4373		210	189	11.3	0.904	0.0431	52.4		
Chrysler-Fiat	Truck	Van	2003	24.5	16.7	23.0	19.7	4286		213	191	11.0	0.901	0.0444	52.6		
Chrysler-Fiat	Truck	Van	2004	24.5	16.4	23.4	19.8	4382		211	193	11.1	0.913	0.0441	53.6		
Chrysler-Fiat	Truck	Van	2005	24.3	16.2	23.2	19.6	4285		214	196	10.7	0.914	0.0456	52.0		
Chrysler-Fiat	Truck	Van	2006	24.4	16.2	23.4	19.7	4361		213	191	11.1	0.895	0.0437	53.1		
Chrysler-Fiat	Truck	Van	2007	23.8	15.8	23.0	19.2	4401		216	193	11.1	0.893	0.0438	52.4		
Chrysler-Fiat	Truck	Van	2008	24.4	16.3	23.5	19.7	4554		221	179	12.2	0.809	0.0392	55.7		
Chrysler-Fiat	Truck	Van	2009	24.6	16.3	23.6	19.8	4577		220	195	11.4	0.889	0.0424	56.4		
Chrysler-Fiat	Truck	Van	2010	24.4	16.2	23.5	19.7	4580		226	200	11.2	0.883	0.0436	56.0		
Chrysler-Fiat	Truck	Van	2011	25.7	17.0	25.0	20.8	4500		220	283	8.3	1.286	0.0629	57.9		
Chrysler-Fiat	Truck	Van	2012	25.9	17.1	25.1	20.9	4500		220	283	8.3	1.288	0.0629	58.3		
Chrysler-Fiat	Truck	Van	2013	25.7	16.9	25.0	20.7	4743		220	283	8.7	1.288	0.0598	60.9		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	1.6%		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	60.6%		20.6%	11.9%									5.8%	91.6%	2.6%
Chrysler-Fiat	Truck	Van	1985	73.2%	0.8%	11.0%	6.5%									5.7%	92.9%	1.5%
Chrysler-Fiat	Truck	Van	1986	72.4%	3.8%	10.9%	20.1%									10.2%	88.3%	1.5%
Chrysler-Fiat	Truck	Van	1987	74.3%	2.9%	8.1%	55.2%			39.5%	0.2%					9.1%	89.7%	1.2%
Chrysler-Fiat	Truck	Van	1988	86.3%	1.5%	4.3%	78.1%			69.8%	29.6%					3.9%	95.1%	1.1%
Chrysler-Fiat	Truck	Van	1989	84.3%	1.0%	3.3%	62.2%			62.3%	37.7%					2.8%	96.3%	0.9%
Chrysler-Fiat	Truck	Van	1990	87.1%	0.2%	1.7%	95.4%			76.4%	23.6%					0.4%	98.7%	0.9%
Chrysler-Fiat	Truck	Van	1991	83.8%	5.4%	1.3%	98.0%			77.9%	22.1%					2.6%	96.9%	0.6%
Chrysler-Fiat	Truck	Van	1992	86.8%	2.7%	1.7%	96.4%			89.2%	10.8%					3.2%	96.2%	0.6%
Chrysler-Fiat	Truck	Van	1993	93.1%	2.1%	1.2%	98.1%			92.0%	8.0%					1.2%	98.6%	0.2%
Chrysler-Fiat	Truck	Van	1994	80.1%	2.7%	0.7%	97.6%			94.5%	5.5%		0.9%			0.9%	98.3%	0.8%
Chrysler-Fiat	Truck	Van	1995	85.9%	1.7%	0.2%	98.1%			93.7%	6.3%		1.3%			1.3%	98.3%	0.4%
Chrysler-Fiat	Truck	Van	1996	90.8%	0.0%	0.0%	99.1%			100.0%			4.8%			0.1%	99.6%	0.3%
Chrysler-Fiat	Truck	Van	1997	86.1%	2.6%		99.1%			100.0%			6.5%				99.6%	0.4%
Chrysler-Fiat	Truck	Van	1998	90.4%	2.6%		100.0%			100.0%			9.0%				98.6%	1.4%
Chrysler-Fiat	Truck	Van	1999	88.1%	2.6%		100.0%			100.0%			10.7%				98.0%	2.0%
Chrysler-Fiat	Truck	Van	2000	89.7%	2.4%		100.0%			100.0%			10.3%				92.1%	7.9%
Chrysler-Fiat	Truck	Van	2001	88.6%	3.6%		100.0%			100.0%			6.6%				92.2%	7.8%
Chrysler-Fiat	Truck	Van	2002	91.7%	2.3%		100.0%			100.0%			8.7%				94.0%	6.0%
Chrysler-Fiat	Truck	Van	2003	92.7%	2.1%		100.0%			100.0%			5.0%				94.8%	5.2%
Chrysler-Fiat	Truck	Van	2004	98.0%	2.0%		100.0%			100.0%			4.3%				100.0%	
Chrysler-Fiat	Truck	Van	2005	100.0%			100.0%			100.0%			3.3%				100.0%	
Chrysler-Fiat	Truck	Van	2006	100.0%			100.0%			100.0%			4.3%				100.0%	
Chrysler-Fiat	Truck	Van	2007	100.0%			100.0%			100.0%			2.9%				100.0%	
Chrysler-Fiat	Truck	Van	2008	100.0%			100.0%			100.0%			10.9%				100.0%	
Chrysler-Fiat	Truck	Van	2009	100.0%			100.0%			100.0%			15.4%				100.0%	
Chrysler-Fiat	Truck	Van	2010	100.0%			100.0%			100.0%			16.0%				100.0%	
Chrysler-Fiat	Truck	Van	2011	100.0%			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	Van	2013	100.0%			100.0%			100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
Chrysler-Fiat	Truck	Truck SUV	2012	23.6	16.1	21.7	18.9	4517		222	268	8.9	1.212	0.0590	53.4		
Chrysler-Fiat	Truck	Truck SUV	2013	23.8	16.1	22.0	19.0	4524		228	284	8.5	1.254	0.0623	53.8		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Chrysler-Fiat	Truck	Truck SUV	1975		99.8%	60.3%										52.0%	48.0%	
Chrysler-Fiat	Truck	Truck SUV	1976		99.8%	48.6%										48.9%	51.1%	
Chrysler-Fiat	Truck	Truck SUV	1977		99.7%	49.8%										47.3%	52.7%	
Chrysler-Fiat	Truck	Truck SUV	1978		99.7%	50.2%										48.7%	51.3%	
Chrysler-Fiat	Truck	Truck SUV	1979		88.7%	63.0%	1.2%									67.4%	32.6%	
Chrysler-Fiat	Truck	Truck SUV	1980		99.8%	65.3%	3.9%									70.5%	29.5%	
Chrysler-Fiat	Truck	Truck SUV	1981		99.0%	61.8%	37.0%									64.4%	35.6%	
Chrysler-Fiat	Truck	Truck SUV	1982		97.0%	49.3%	37.9%									48.1%	51.9%	
Chrysler-Fiat	Truck	Truck SUV	1983		98.4%	52.2%	38.7%									55.4%	44.6%	
Chrysler-Fiat	Truck	Truck SUV	1984		97.4%	40.1%	31.2%									23.9%	76.1%	
Chrysler-Fiat	Truck	Truck SUV	1985		72.6%	14.5%										12.8%	87.2%	
Chrysler-Fiat	Truck	Truck SUV	1986		94.9%	36.1%	43.2%				17.0%	0.1%				14.1%	85.9%	
Chrysler-Fiat	Truck	Truck SUV	1987		95.7%	35.7%	39.6%			44.4%	11.6%	0.1%				30.8%	69.2%	
Chrysler-Fiat	Truck	Truck SUV	1988		96.4%	26.7%	54.8%			62.2%	11.2%					21.4%	78.6%	
Chrysler-Fiat	Truck	Truck SUV	1989		96.8%	27.8%	57.1%			63.8%	16.5%					25.6%	74.4%	
Chrysler-Fiat	Truck	Truck SUV	1990		97.5%	27.8%	58.6%			65.1%	17.5%					26.6%	73.4%	
Chrysler-Fiat	Truck	Truck SUV	1991		98.8%	33.7%	55.9%			94.4%	3.1%					30.9%	69.1%	
Chrysler-Fiat	Truck	Truck SUV	1992		99.4%	36.2%	59.2%			99.7%	0.3%					32.9%	67.1%	
Chrysler-Fiat	Truck	Truck SUV	1993		99.4%	43.0%	51.8%			100.0%						39.1%	60.9%	
Chrysler-Fiat	Truck	Truck SUV	1994		100.0%	20.7%	79.3%			100.0%						19.6%	80.4%	
Chrysler-Fiat	Truck	Truck SUV	1995		100.0%	24.8%	75.2%			100.0%						24.8%	75.2%	
Chrysler-Fiat	Truck	Truck SUV	1996		100.0%	4.6%	95.4%			100.0%							100.0%	
Chrysler-Fiat	Truck	Truck SUV	1997		100.0%	26.1%	73.9%			100.0%						64.8%	35.2%	
Chrysler-Fiat	Truck	Truck SUV	1998		100.0%	14.3%	85.7%			100.0%						17.3%	59.9%	22.9%
Chrysler-Fiat	Truck	Truck SUV	1999		93.0%	9.4%	90.6%			100.0%						13.1%	55.7%	31.2%
Chrysler-Fiat	Truck	Truck SUV	2000		91.5%	9.2%	90.8%			100.0%						14.7%	54.1%	31.1%
Chrysler-Fiat	Truck	Truck SUV	2001		91.8%	8.4%	91.6%			100.0%						14.4%	55.9%	29.7%
Chrysler-Fiat	Truck	Truck SUV	2002		83.4%	7.8%	92.2%			100.0%			0.3%			11.9%	68.0%	20.1%
Chrysler-Fiat	Truck	Truck SUV	2003		89.4%	10.2%	89.8%			100.0%			1.5%			15.8%	54.2%	30.0%
Chrysler-Fiat	Truck	Truck SUV	2004		83.3%	7.1%	92.9%			100.0%			1.1%			13.7%	67.0%	19.4%
Chrysler-Fiat	Truck	Truck SUV	2005		83.7%	7.3%	92.7%			98.4%		1.6%	2.4%			13.8%	65.0%	21.2%
Chrysler-Fiat	Truck	Truck SUV	2006		82.8%	7.9%	92.1%			98.7%		1.3%	2.4%			15.0%	69.0%	16.1%
Chrysler-Fiat	Truck	Truck SUV	2007	6.7%	74.8%	6.4%	80.0%	13.6%		99.5%		0.5%	16.3%	14.7%		16.5%	71.0%	12.5%
Chrysler-Fiat	Truck	Truck SUV	2008	9.4%	73.4%	7.6%	77.2%	15.2%		99.7%		0.3%	17.9%	16.5%		22.8%	67.5%	9.7%
Chrysler-Fiat	Truck	Truck SUV	2009	28.1%	62.2%	3.1%	82.0%	14.9%		100.0%			40.3%	20.2%	0.7%	21.3%	50.0%	28.7%
Chrysler-Fiat	Truck	Truck SUV	2010	23.0%	67.2%	7.4%	76.1%	16.5%		100.0%			35.3%	20.6%		29.2%	53.8%	17.0%
Chrysler-Fiat	Truck	Truck SUV	2011	12.9%	71.7%	4.7%	77.5%	17.8%		100.0%			52.9%	61.8%			56.9%	43.1%
Chrysler-Fiat	Truck	Truck SUV	2012	8.1%	82.8%	6.8%	83.0%	10.2%		100.0%			76.0%	84.3%				
Chrysler-Fiat	Truck	Truck SUV	2013	7.5%	84.0%	9.0%	91.0%	14.0%		100.0%			85.5%	99.4%				



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Chrysler-Fiat	Truck	Pickup	1975	13.0	10.5	11.9	11.1	4345		338	155	13.2	0.456	0.0356	28.5		
Chrysler-Fiat	Truck	Pickup	1976	14.0	11.0	13.3	11.9	4338		335	158	13.0	0.470	0.0363	30.7		
Chrysler-Fiat	Truck	Pickup	1977	14.5	11.5	13.5	12.3	4335		341	159	12.9	0.466	0.0367	31.5		
Chrysler-Fiat	Truck	Pickup	1978	14.5	11.7	13.2	12.3	4226		326	148	13.4	0.455	0.0349	30.9		
Chrysler-Fiat	Truck	Pickup	1979	15.0	12.2	13.3	12.7	4041		272	130	14.1	0.510	0.0326	31.2		
Chrysler-Fiat	Truck	Pickup	1980	19.8	15.9	18.1	16.8	3430		206	110	14.1	0.582	0.0327	34.2		
Chrysler-Fiat	Truck	Pickup	1981	19.9	16.0	18.3	16.9	3564		218	108	14.8	0.533	0.0307	35.6		
Chrysler-Fiat	Truck	Pickup	1982	21.2	16.8	19.9	18.1	3470		217	109	14.4	0.533	0.0316	37.2		
Chrysler-Fiat	Truck	Pickup	1983	23.4	18.6	21.8	19.9	3312		189	103	14.4	0.588	0.0315	39.5		
Chrysler-Fiat	Truck	Pickup	1984	19.4	15.4	18.1	16.5	3638		224	109	15.0	0.521	0.0302	36.2		
Chrysler-Fiat	Truck	Pickup	1985	18.6	14.9	17.1	15.8	3798		250	124	14.1	0.529	0.0326	36.1		
Chrysler-Fiat	Truck	Pickup	1986	20.2	16.0	18.7	17.1	3626		218	119	14.0	0.592	0.0328	37.4		
Chrysler-Fiat	Truck	Pickup	1987	21.2	16.5	19.9	17.9	3611		221	122	13.7	0.580	0.0338	38.9		
Chrysler-Fiat	Truck	Pickup	1988	20.8	16.0	19.6	17.5	3652		226	126	13.4	0.586	0.0347	38.5		
Chrysler-Fiat	Truck	Pickup	1989	19.9	15.2	19.0	16.8	3681		234	127	13.4	0.569	0.0347	37.2		
Chrysler-Fiat	Truck	Pickup	1990	19.1	14.4	18.3	16.1	3991		255	141	13.3	0.563	0.0354	38.7		
Chrysler-Fiat	Truck	Pickup	1991	18.8	14.1	17.9	15.8	4035		264	146	13.1	0.562	0.0361	38.4		
Chrysler-Fiat	Truck	Pickup	1992	19.2	14.1	18.8	16.1	4046		257	155	12.8	0.597	0.0380	39.0		
Chrysler-Fiat	Truck	Pickup	1993	18.9	13.9	18.2	15.8	4111		263	156	12.9	0.583	0.0377	39.0		
Chrysler-Fiat	Truck	Pickup	1994	18.8	13.8	17.9	15.6	4346		283	199	10.7	0.709	0.0458	41.0		
Chrysler-Fiat	Truck	Pickup	1995	17.8	13.0	17.0	14.8	4516		296	201	11.0	0.686	0.0445	40.5		
Chrysler-Fiat	Truck	Pickup	1996	17.4	12.5	16.8	14.4	4697		305	210	10.9	0.697	0.0449	40.8		
Chrysler-Fiat	Truck	Pickup	1997	17.7	12.6	17.2	14.7	4765		309	209	11.0	0.686	0.0441	42.2		
Chrysler-Fiat	Truck	Pickup	1998	18.0	12.8	17.5	14.9	4783		299	207	11.2	0.698	0.0434	43.1		
Chrysler-Fiat	Truck	Pickup	1999	17.7	12.5	17.2	14.6	4795		307	215	10.9	0.704	0.0449	42.5		
Chrysler-Fiat	Truck	Pickup	2000	18.4	12.9	17.8	15.1	4662		292	214	10.7	0.737	0.0460	43.0		
Chrysler-Fiat	Truck	Pickup	2001	17.3	12.1	16.8	14.3	4905		306	221	10.9	0.725	0.0450	42.6		
Chrysler-Fiat	Truck	Pickup	2002	17.9	12.6	16.7	14.6	5011		290	225	10.9	0.783	0.0451	44.9		
Chrysler-Fiat	Truck	Pickup	2003	18.2	12.8	16.7	14.7	5108		294	240	10.6	0.818	0.0469	46.5		
Chrysler-Fiat	Truck	Pickup	2004	17.9	12.4	16.7	14.5	5140		301	279	9.5	0.921	0.0541	46.1		
Chrysler-Fiat	Truck	Pickup	2005	18.2	12.5	17.0	14.7	5093		298	274	9.6	0.911	0.0534	46.4		
Chrysler-Fiat	Truck	Pickup	2006	19.0	13.0	17.8	15.4	5206		291	266	10.0	0.909	0.0509	49.5		
Chrysler-Fiat	Truck	Pickup	2007	18.9	13.0	17.8	15.3	5317		298	277	9.8	0.924	0.0517	50.3		
Chrysler-Fiat	Truck	Pickup	2008	20.2	13.9	18.6	16.3	5275		298	301	9.1	1.011	0.0568	55.1		
Chrysler-Fiat	Truck	Pickup	2009	19.5	13.3	18.5	15.8	5531		317	321	8.9	1.016	0.0580	54.0		
Chrysler-Fiat	Truck	Pickup	2010	19.8	13.5	18.7	16.0	5371		316	343	8.4	1.078	0.0635	53.2		
Chrysler-Fiat	Truck	Pickup	2011	19.9	13.5	18.9	16.1	5348		317	344	8.3	1.079	0.0641	53.2		
Chrysler-Fiat	Truck	Pickup	2012	19.7	13.4	18.7	16.0	5410		335	373	7.8	1.111	0.0690	53.3		
Chrysler-Fiat	Truck	Pickup	2013	21.4	14.4	20.3	17.3	5328		313	358	8.0	1.159	0.0672	57.3		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Chrysler-Fiat	Truck	Pickup	1975		61.2%	34.1%												100.0%
Chrysler-Fiat	Truck	Pickup	1976		52.2%	31.5%												100.0%
Chrysler-Fiat	Truck	Pickup	1977		56.6%	25.1%												100.0%
Chrysler-Fiat	Truck	Pickup	1978		44.4%	29.0%						0.6%						100.0%
Chrysler-Fiat	Truck	Pickup	1979		15.9%	40.6%	13.7%					1.3%				15.2%	7.3%	77.5%
Chrysler-Fiat	Truck	Pickup	1980		15.3%	62.1%	20.0%									36.3%	14.6%	49.1%
Chrysler-Fiat	Truck	Pickup	1981		15.9%	60.2%	30.7%									3.0%	35.4%	61.5%
Chrysler-Fiat	Truck	Pickup	1982	12.3%	24.2%	59.5%	24.3%									17.2%	27.6%	55.2%
Chrysler-Fiat	Truck	Pickup	1983	15.6%	18.7%	60.6%	9.7%				0.1%	3.4%				18.1%	44.0%	37.9%
Chrysler-Fiat	Truck	Pickup	1984	7.0%	23.3%	58.1%	11.9%					1.8%				9.1%	26.8%	64.1%
Chrysler-Fiat	Truck	Pickup	1985		23.0%	38.4%	10.1%					0.5%				0.1%	28.8%	71.1%
Chrysler-Fiat	Truck	Pickup	1986		30.0%	47.3%	24.7%				9.3%	0.1%					35.4%	64.6%
Chrysler-Fiat	Truck	Pickup	1987		26.4%	39.4%	41.8%			5.7%	5.8%	0.0%					71.8%	28.2%
Chrysler-Fiat	Truck	Pickup	1988		28.9%	40.5%	44.1%			10.3%	60.7%						74.0%	26.0%
Chrysler-Fiat	Truck	Pickup	1989		27.7%	38.2%	48.3%			9.3%	75.5%						70.7%	29.3%
Chrysler-Fiat	Truck	Pickup	1990		24.9%	30.3%	55.9%			10.3%	89.7%						59.8%	40.2%
Chrysler-Fiat	Truck	Pickup	1991		25.4%	25.3%	66.1%			10.0%	90.0%						69.9%	30.1%
Chrysler-Fiat	Truck	Pickup	1992		26.0%	23.1%	76.3%			95.2%	4.8%						83.3%	16.7%
Chrysler-Fiat	Truck	Pickup	1993		28.1%	23.0%	77.0%			97.2%	2.8%						83.6%	16.4%
Chrysler-Fiat	Truck	Pickup	1994		23.1%	19.4%	80.6%			99.1%	0.9%						55.0%	45.0%
Chrysler-Fiat	Truck	Pickup	1995		35.0%	16.5%	83.5%			94.0%	6.0%						40.2%	59.8%
Chrysler-Fiat	Truck	Pickup	1996		34.1%	12.5%	87.3%			100.0%							27.2%	72.8%
Chrysler-Fiat	Truck	Pickup	1997		45.6%	10.2%	89.8%			100.0%							32.0%	68.0%
Chrysler-Fiat	Truck	Pickup	1998		38.7%	14.8%	85.2%			100.0%							34.1%	65.9%
Chrysler-Fiat	Truck	Pickup	1999		43.5%	11.6%	88.4%			100.0%							33.1%	66.9%
Chrysler-Fiat	Truck	Pickup	2000		41.7%	10.0%	90.0%			100.0%							22.6%	77.4%
Chrysler-Fiat	Truck	Pickup	2001		43.9%	9.5%	90.5%			100.0%							15.7%	84.3%
Chrysler-Fiat	Truck	Pickup	2002		41.2%	7.5%	92.5%			100.0%							19.6%	80.4%
Chrysler-Fiat	Truck	Pickup	2003		40.7%	6.5%	93.5%			100.0%							5.0%	95.0%
Chrysler-Fiat	Truck	Pickup	2004		44.5%	5.8%	94.2%			100.0%			0.7%				26.4%	73.6%
Chrysler-Fiat	Truck	Pickup	2005		46.7%	2.5%	97.5%			100.0%								100.0%
Chrysler-Fiat	Truck	Pickup	2006		46.3%	5.2%	94.8%			100.0%								100.0%
Chrysler-Fiat	Truck	Pickup	2007		47.2%	3.6%	96.4%			100.0%								100.0%
Chrysler-Fiat	Truck	Pickup	2008		43.4%	4.6%	95.4%			100.0%								100.0%
Chrysler-Fiat	Truck	Pickup	2009		53.4%	0.0%	100.0%			100.0%				59.9%				100.0%
Chrysler-Fiat	Truck	Pickup	2010		56.7%		100.0%			100.0%				58.6%				100.0%
Chrysler-Fiat	Truck	Pickup	2011		61.1%		100.0%			100.0%				60.9%				100.0%
Chrysler-Fiat	Truck	Pickup	2012		61.0%		100.0%			100.0%				81.1%				
Chrysler-Fiat	Truck	Pickup	2013		59.9%		100.0%			100.0%			21.4%	87.4%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Chrysler-Fiat	Truck	All	1975	13.2	10.7	11.9	11.2	4080		319	145	13.2	0.452	0.0358	27.1		
Chrysler-Fiat	Truck	All	1976	14.3	11.3	13.4	12.2	4151		323	148	13.2	0.455	0.0357	29.8		
Chrysler-Fiat	Truck	All	1977	14.5	11.6	13.4	12.3	4179		332	151	13.0	0.454	0.0362	30.4		
Chrysler-Fiat	Truck	All	1978	14.4	11.6	13.1	12.2	4090		325	144	13.3	0.441	0.0352	29.6		
Chrysler-Fiat	Truck	All	1979	14.7	12.0	13.0	12.4	4052		293	134	13.8	0.473	0.0335	30.1		
Chrysler-Fiat	Truck	All	1980	18.2	14.6	16.6	15.4	3591		237	113	14.4	0.512	0.0319	33.0		
Chrysler-Fiat	Truck	All	1981	18.8	15.1	17.3	16.0	3663		244	113	14.7	0.485	0.0310	34.7		
Chrysler-Fiat	Truck	All	1982	19.4	15.4	18.1	16.5	3679		246	115	14.5	0.488	0.0314	36.1		
Chrysler-Fiat	Truck	All	1983	20.6	16.4	19.1	17.5	3567		228	111	14.6	0.521	0.0314	37.6		
Chrysler-Fiat	Truck	All	1984	19.4	15.4	18.1	16.5	3658		218	111	14.9	0.548	0.0305	36.4		
Chrysler-Fiat	Truck	All	1985	19.4	15.5	17.9	16.5	3777		221	119	14.6	0.577	0.0313	37.5		
Chrysler-Fiat	Truck	All	1986	20.7	16.4	19.2	17.6	3676		203	115	14.5	0.608	0.0312	38.8		
Chrysler-Fiat	Truck	All	1987	21.3	16.6	20.1	18.0	3671		214	128	13.5	0.632	0.0351	39.7		
Chrysler-Fiat	Truck	All	1988	21.4	16.4	20.4	18.1	3727		214	137	13.0	0.668	0.0369	40.4		
Chrysler-Fiat	Truck	All	1989	21.0	16.1	19.9	17.7	3748		213	137	13.0	0.675	0.0369	40.1		
Chrysler-Fiat	Truck	All	1990	21.4	16.1	20.6	18.0	3825		220	146	12.5	0.683	0.0384	41.6		
Chrysler-Fiat	Truck	All	1991	21.1	15.9	20.0	17.7	3894		219	149	12.5	0.697	0.0385	41.8		
Chrysler-Fiat	Truck	All	1992	21.4	15.9	20.4	17.8	3893		215	152	12.4	0.717	0.0393	42.1		
Chrysler-Fiat	Truck	All	1993	21.9	16.2	20.9	18.2	3815		212	153	12.1	0.726	0.0401	42.3		
Chrysler-Fiat	Truck	All	1994	20.5	15.1	19.4	17.0	4000		238	173	11.4	0.738	0.0433	41.5		
Chrysler-Fiat	Truck	All	1995	20.1	14.7	19.1	16.7	3946		239	176	11.1	0.750	0.0446	40.2		
Chrysler-Fiat	Truck	All	1996	20.2	14.5	19.4	16.7	4203		246	183	11.2	0.760	0.0438	42.9		
Chrysler-Fiat	Truck	All	1997	20.2	14.5	19.3	16.7	4229		247	180	11.4	0.746	0.0427	43.1		
Chrysler-Fiat	Truck	All	1998	20.0	14.1	19.2	16.4	4332		253	187	11.3	0.755	0.0432	43.6		
Chrysler-Fiat	Truck	All	1999	19.8	14.0	18.9	16.3	4388		259	195	11.1	0.765	0.0442	43.8		
Chrysler-Fiat	Truck	All	2000	20.3	14.2	19.4	16.6	4302		249	192	11.0	0.783	0.0446	44.1		
Chrysler-Fiat	Truck	All	2001	19.4	13.5	18.6	15.9	4561		264	206	10.8	0.796	0.0453	44.8		
Chrysler-Fiat	Truck	All	2002	20.0	14.0	18.7	16.2	4569		251	211	10.7	0.852	0.0462	46.3		
Chrysler-Fiat	Truck	All	2003	20.8	14.5	19.1	16.8	4576		253	215	10.5	0.859	0.0470	48.0		
Chrysler-Fiat	Truck	All	2004	19.7	13.6	18.5	16.0	4595		268	238	9.9	0.884	0.0514	45.5		
Chrysler-Fiat	Truck	All	2005	20.9	14.2	19.6	16.9	4574		250	225	10.3	0.899	0.0489	48.3		
Chrysler-Fiat	Truck	All	2006	21.0	14.3	19.7	16.9	4662		249	224	10.4	0.896	0.0478	49.3		
Chrysler-Fiat	Truck	All	2007	21.5	14.7	19.9	17.3	4604		243	224	10.4	0.924	0.0483	49.6		
Chrysler-Fiat	Truck	All	2008	22.4	15.3	20.7	18.0	4618		240	223	10.5	0.928	0.0477	52.2		
Chrysler-Fiat	Truck	All	2009	22.4	15.2	21.0	18.0	4674		240	233	10.2	0.975	0.0493	52.6		
Chrysler-Fiat	Truck	All	2010	22.9	15.5	21.5	18.4	4582		237	229	10.2	0.964	0.0495	52.7		
Chrysler-Fiat	Truck	All	2011	23.2	15.7	21.7	18.6	4656		241	272	9.0	1.137	0.0577	54.2		
Chrysler-Fiat	Truck	All	2012	23.1	15.6	21.7	18.6	4710		246	295	8.5	1.209	0.0622	54.6		
Chrysler-Fiat	Truck	All	2013	23.9	16.1	22.6	19.2	4748		240	297	8.5	1.249	0.0623	57.0		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Chrysler-Fiat	Truck	All	1975		38.6%	31.5%										14.5%	67.8%	17.8%
Chrysler-Fiat	Truck	All	1976		44.3%	29.6%										12.0%	49.9%	38.1%
Chrysler-Fiat	Truck	All	1977		46.3%	26.0%										12.3%	51.6%	36.2%
Chrysler-Fiat	Truck	All	1978		46.6%	29.6%						0.2%				14.9%	48.6%	36.5%
Chrysler-Fiat	Truck	All	1979		31.3%	38.1%	13.0%					0.6%				25.1%	41.3%	33.6%
Chrysler-Fiat	Truck	All	1980		36.3%	55.0%	23.2%									38.9%	33.5%	27.6%
Chrysler-Fiat	Truck	All	1981	0.4%	36.5%	51.3%	41.9%									20.3%	49.5%	30.1%
Chrysler-Fiat	Truck	All	1982	6.5%	31.4%	45.7%	34.8%									18.3%	51.0%	30.7%
Chrysler-Fiat	Truck	All	1983	8.8%	30.6%	49.6%	21.3%				0.1%	1.9%				21.5%	56.1%	22.4%
Chrysler-Fiat	Truck	All	1984	27.5%	34.4%	37.3%	17.3%					0.5%				11.9%	67.9%	20.2%
Chrysler-Fiat	Truck	All	1985	41.9%	15.2%	20.4%	7.0%					0.2%				4.5%	71.2%	24.3%
Chrysler-Fiat	Truck	All	1986	34.0%	32.7%	27.6%	26.8%				6.7%	0.0%				8.1%	71.9%	20.1%
Chrysler-Fiat	Truck	All	1987	32.3%	32.2%	25.0%	47.1%			29.3%	4.7%	0.0%				11.0%	79.0%	10.0%
Chrysler-Fiat	Truck	All	1988	42.5%	30.9%	19.5%	63.3%			51.6%	34.0%					6.8%	85.4%	7.7%
Chrysler-Fiat	Truck	All	1989	44.0%	31.3%	17.3%	57.8%			50.8%	40.7%					8.0%	85.0%	7.0%
Chrysler-Fiat	Truck	All	1990	52.2%	26.7%	12.6%	80.2%			62.4%	33.6%					6.3%	86.2%	7.4%
Chrysler-Fiat	Truck	All	1991	49.3%	30.1%	13.1%	82.6%			68.9%	30.6%					8.5%	85.6%	6.0%
Chrysler-Fiat	Truck	All	1992	54.1%	24.5%	12.1%	85.8%			92.2%	7.8%					7.8%	88.5%	3.7%
Chrysler-Fiat	Truck	All	1993	59.2%	24.3%	12.7%	85.9%			94.4%	5.6%					7.7%	89.1%	3.2%
Chrysler-Fiat	Truck	All	1994	40.4%	32.6%	10.3%	88.8%			97.0%	3.0%		0.5%			5.5%	83.4%	11.1%
Chrysler-Fiat	Truck	All	1995	33.5%	45.4%	13.1%	86.2%			96.1%	3.9%		0.5%			9.4%	75.5%	15.1%
Chrysler-Fiat	Truck	All	1996	44.5%	34.5%	4.3%	95.2%			100.0%			2.3%			0.0%	81.5%	18.4%
Chrysler-Fiat	Truck	All	1997	36.5%	42.9%	10.4%	89.2%			100.0%			2.7%			18.5%	61.5%	20.0%
Chrysler-Fiat	Truck	All	1998	32.6%	46.8%	9.3%	90.7%			100.0%			3.3%			6.0%	66.2%	27.8%
Chrysler-Fiat	Truck	All	1999	31.2%	48.7%	6.6%	93.4%			100.0%			3.8%			5.2%	65.1%	29.7%
Chrysler-Fiat	Truck	All	2000	34.6%	46.6%	5.8%	94.2%			100.0%			4.0%			5.9%	62.2%	31.9%
Chrysler-Fiat	Truck	All	2001	27.1%	47.3%	6.3%	93.7%			100.0%			2.0%			4.7%	52.3%	43.0%
Chrysler-Fiat	Truck	All	2002	28.2%	45.7%	5.3%	94.7%			100.0%			2.8%			4.7%	61.4%	34.0%
Chrysler-Fiat	Truck	All	2003	31.6%	43.8%	5.5%	94.5%			100.0%			2.2%			5.3%	52.1%	42.6%
Chrysler-Fiat	Truck	All	2004	11.3%	60.5%	5.8%	94.2%			100.0%			1.3%			7.4%	56.8%	35.9%
Chrysler-Fiat	Truck	All	2005	40.4%	40.9%	3.2%	96.8%			99.4%		0.6%	2.2%			4.9%	63.3%	31.9%
Chrysler-Fiat	Truck	All	2006	34.4%	46.3%	4.6%	95.4%			99.4%		0.6%	2.5%			6.5%	64.4%	29.1%
Chrysler-Fiat	Truck	All	2007	29.2%	50.0%	4.2%	88.5%	7.4%		99.7%		0.3%	9.5%	8.0%		8.9%	63.9%	27.1%
Chrysler-Fiat	Truck	All	2008	33.7%	46.2%	4.8%	87.4%	7.8%		99.8%		0.2%	12.3%	8.5%		11.7%	63.4%	24.9%
Chrysler-Fiat	Truck	All	2009	43.5%	41.9%	1.5%	91.2%	7.3%		100.0%			24.3%	22.7%	0.3%	10.4%	54.1%	35.4%
Chrysler-Fiat	Truck	All	2010	49.3%	39.0%	3.2%	89.6%	7.2%		100.0%			21.7%	19.0%		12.7%	62.8%	24.5%
Chrysler-Fiat	Truck	All	2011	26.0%	56.6%	2.9%	86.2%	11.0%		100.0%			50.6%	68.5%			53.1%	46.9%
Chrysler-Fiat	Truck	All	2012	29.6%	57.0%	3.6%	91.0%	5.4%		100.0%			65.4%	87.5%				
Chrysler-Fiat	Truck	All	2013	39.6%	49.3%	4.1%	95.9%	6.4%		100.0%			79.1%	97.4%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Chrysler-Fiat	All	All	1975	15.3	12.0	14.4	13.0	4054		290	139	13.9	0.498	0.0338	31.4		
Chrysler-Fiat	All	All	1976	16.2	12.7	15.5	13.8	4027		289	135	14.1	0.478	0.0332	33.1		
Chrysler-Fiat	All	All	1977	16.2	12.6	15.5	13.8	4093	115.4	296	136	14.2	0.477	0.0330	33.5	1975	3952
Chrysler-Fiat	All	All	1978	17.6	13.8	16.7	15.0	3764	108.6	267	128	13.8	0.516	0.0337	33.7	2152	3822
Chrysler-Fiat	All	All	1979	18.8	14.9	17.6	16.0	3564	107.1	238	116	14.2	0.533	0.0324	34.2	2317	3833
Chrysler-Fiat	All	All	1980	21.5	16.9	20.4	18.3	3188	102.3	195	94	15.3	0.536	0.0296	34.6	2392	3588
Chrysler-Fiat	All	All	1981	24.5	19.2	23.4	20.9	2972	104.7	172	95	14.2	0.599	0.0323	36.8	2817	3893
Chrysler-Fiat	All	All	1982	24.5	19.2	23.3	20.9	3120	106.5	186	99	14.3	0.577	0.0319	38.8	2953	4243
Chrysler-Fiat	All	All	1983	25.8	20.4	24.1	21.9	3029	106.6	174	96	14.5	0.596	0.0315	39.9	3148	4347
Chrysler-Fiat	All	All	1984	24.6	19.4	23.2	21.0	3080	105.3	168	98	14.4	0.631	0.0319	38.8	3095	4219
Chrysler-Fiat	All	All	1985	24.6	19.4	23.2	20.9	3163	106.9	173	110	13.5	0.692	0.0349	39.7	3063	4345
Chrysler-Fiat	All	All	1986	24.8	19.4	23.2	21.0	3201	106.3	170	109	13.7	0.688	0.0341	40.4	3100	4401
Chrysler-Fiat	All	All	1987	24.6	19.0	23.3	20.8	3222	106.0	179	116	13.2	0.691	0.0361	40.0	2975	4262
Chrysler-Fiat	All	All	1988	24.7	18.8	23.6	20.8	3313	107.2	181	122	12.9	0.703	0.0369	41.3	3091	4520
Chrysler-Fiat	All	All	1989	24.1	18.2	23.1	20.2	3405	106.8	182	125	13.0	0.712	0.0366	41.7	3029	4610
Chrysler-Fiat	All	All	1990	23.9	17.9	23.2	20.1	3529	106.3	192	136	12.5	0.732	0.0385	42.7	2921	4674
Chrysler-Fiat	All	All	1991	24.1	18.0	22.9	20.1	3512	106.4	188	137	12.4	0.750	0.0390	42.8	2941	4662
Chrysler-Fiat	All	All	1992	23.7	17.6	22.5	19.7	3575	105.4	193	142	12.3	0.748	0.0396	42.8	2938	4633
Chrysler-Fiat	All	All	1993	23.5	17.2	22.7	19.6	3567	108.4	202	151	11.7	0.756	0.0421	42.5	3042	4813
Chrysler-Fiat	All	All	1994	22.2	16.2	21.3	18.4	3768	111.6	218	164	11.4	0.762	0.0434	42.3	2941	4928
Chrysler-Fiat	All	All	1995	22.9	16.6	22.1	19.0	3619	108.8	203	166	10.8	0.859	0.0460	42.2	3088	4914
Chrysler-Fiat	All	All	1996	22.2	15.8	21.6	18.3	3882	110.2	215	177	10.8	0.868	0.0461	43.6	3023	5007
Chrysler-Fiat	All	All	1997	22.2	15.7	21.6	18.3	3913	110.5	217	175	11.0	0.847	0.0449	43.8	3027	5047
Chrysler-Fiat	All	All	1998	21.9	15.4	21.3	18.0	3990	107.9	221	177	11.0	0.848	0.0447	44.1	3080	4946
Chrysler-Fiat	All	All	1999	21.5	15.0	20.8	17.6	4120	113.2	231	192	10.7	0.870	0.0467	44.7	3071	5390
Chrysler-Fiat	All	All	2000	22.3	15.5	21.4	18.2	3986	112.2	217	186	10.7	0.893	0.0468	44.9	3114	5268
Chrysler-Fiat	All	All	2001	21.6	15.0	20.6	17.6	4170	113.2	228	195	10.6	0.897	0.0471	45.6	3141	5413
Chrysler-Fiat	All	All	2002	21.8	15.2	20.5	17.7	4203	113.5	221	204	10.3	0.962	0.0490	46.3	3071	5320
Chrysler-Fiat	All	All	2003	22.3	15.5	20.5	17.9	4266	112.4	228	203	10.4	0.920	0.0477	47.9	3223	5415
Chrysler-Fiat	All	All	2004	22.0	15.0	20.6	17.7	4236	117.3	230	223	9.7	0.998	0.0525	46.9	3214	5847
Chrysler-Fiat	All	All	2005	22.6	15.3	21.1	18.2	4278	119.9	227	221	9.9	0.998	0.0517	48.7	3191	6011
Chrysler-Fiat	All	All	2006	22.5	15.2	21.2	18.1	4374	125.2	234	232	9.7	1.013	0.0533	49.6	3192	6314
Chrysler-Fiat	All	All	2007	23.2	15.8	21.4	18.6	4325	116.1	223	223	9.8	1.038	0.0517	50.4	3171	6050
Chrysler-Fiat	All	All	2008	24.1	16.4	22.4	19.3	4306	113.3	217	217	10.2	1.029	0.0503	52.5	3185	6005
Chrysler-Fiat	All	All	2009	23.9	16.1	22.3	19.1	4403	115.9	224	230	9.9	1.051	0.0519	52.8	3245	6158
Chrysler-Fiat	All	All	2010	24.3	16.4	22.8	19.5	4337	115.0	222	227	9.9	1.033	0.0520	53.0	3239	6160
Chrysler-Fiat	All	All	2011	24.2	16.2	22.8	19.4	4481	114.4	234	269	8.9	1.161	0.0593	54.4	3273	6295
Chrysler-Fiat	All	All	2012	25.0	16.8	23.6	20.1	4361	111.0	225	271	8.8	1.213	0.0611	54.8	3362	6188
Chrysler-Fiat	All	All	2013	27.0	17.9	25.7	21.6	4235	111.4	208	259	8.9	1.269	0.0600	57.6	3536	6517

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Chrysler-Fiat	All	All	1975	2.4%	6.9%	16.3%										45.0%	37.5%	17.5%
Chrysler-Fiat	All	All	1976	1.3%	8.9%	16.4%										43.1%	40.1%	16.8%
Chrysler-Fiat	All	All	1977	1.5%	9.2%	13.8%				0.1%						34.9%	45.1%	20.1%
Chrysler-Fiat	All	All	1978	9.0%	12.1%	20.7%	37.2%			0.2%		0.1%				44.5%	42.3%	13.2%
Chrysler-Fiat	All	All	1979	19.2%	8.4%	23.9%	36.6%			0.1%		0.1%				40.5%	42.8%	16.8%
Chrysler-Fiat	All	All	1980	30.3%	11.1%	30.5%	38.6%			0.9%						58.2%	33.0%	8.8%
Chrysler-Fiat	All	All	1981	56.4%	7.7%	33.6%	18.9%			2.2%	0.6%					47.7%	46.1%	6.1%
Chrysler-Fiat	All	All	1982	53.9%	10.0%	26.3%	22.9%			1.3%	0.2%					36.4%	56.0%	7.6%
Chrysler-Fiat	All	All	1983	59.3%	10.6%	31.1%	16.8%			1.0%	10.1%	0.5%				41.7%	52.4%	5.9%
Chrysler-Fiat	All	All	1984	67.9%	12.6%	30.1%	12.7%			6.2%	16.1%	0.2%				41.9%	51.5%	6.7%
Chrysler-Fiat	All	All	1985	73.3%	4.8%	20.1%	11.3%			11.0%	21.2%	0.1%				32.2%	60.1%	7.6%
Chrysler-Fiat	All	All	1986	66.9%	13.4%	22.6%	18.3%			10.9%	32.6%	0.0%	0.1%			28.9%	63.2%	8.0%
Chrysler-Fiat	All	All	1987	64.6%	13.6%	20.3%	38.1%			22.5%	28.1%	0.0%	0.0%			32.5%	63.4%	4.2%
Chrysler-Fiat	All	All	1988	69.5%	14.2%	16.5%	70.8%			39.0%	48.1%		0.1%			30.4%	64.1%	5.4%
Chrysler-Fiat	All	All	1989	70.6%	15.4%	15.6%	68.0%			47.8%	47.2%		0.4%			29.3%	65.3%	5.4%
Chrysler-Fiat	All	All	1990	74.6%	13.7%	13.3%	82.3%			62.3%	35.7%		3.9%			28.0%	63.6%	8.4%
Chrysler-Fiat	All	All	1991	74.7%	14.7%	14.5%	83.1%			65.7%	34.0%		8.4%			28.8%	63.3%	7.9%
Chrysler-Fiat	All	All	1992	71.6%	14.5%	13.9%	84.7%			78.9%	21.1%		3.2%			27.5%	67.2%	5.3%
Chrysler-Fiat	All	All	1993	67.7%	11.1%	11.3%	87.7%			84.0%	16.0%		7.8%			22.2%	66.7%	11.2%
Chrysler-Fiat	All	All	1994	59.5%	20.2%	9.4%	89.9%			88.1%	11.9%		10.1%			16.2%	61.7%	22.1%
Chrysler-Fiat	All	All	1995	60.8%	24.5%	13.3%	86.4%			96.6%	3.4%		33.1%	0.0%		28.5%	50.8%	20.7%
Chrysler-Fiat	All	All	1996	61.6%	21.2%	6.4%	93.3%			100.0%			31.9%	0.0%		15.9%	62.3%	21.9%
Chrysler-Fiat	All	All	1997	57.1%	26.6%	9.2%	90.5%			100.0%			33.9%	0.0%		26.4%	50.3%	23.3%
Chrysler-Fiat	All	All	1998	51.0%	31.4%	8.6%	91.4%			100.0%			31.5%	0.0%		18.8%	57.4%	23.8%
Chrysler-Fiat	All	All	1999	49.6%	33.2%	5.5%	94.5%			100.0%			31.1%	0.1%		11.6%	54.9%	33.5%
Chrysler-Fiat	All	All	2000	54.3%	29.2%	4.9%	95.1%			100.0%			35.2%	0.0%		17.2%	50.8%	32.0%
Chrysler-Fiat	All	All	2001	49.9%	30.0%	6.0%	94.0%			100.0%			34.2%	0.0%		21.3%	42.9%	35.8%
Chrysler-Fiat	All	All	2002	50.8%	30.0%	5.6%	94.4%			100.0%			34.3%	0.1%		20.1%	49.0%	30.9%
Chrysler-Fiat	All	All	2003	46.3%	31.6%	6.2%	93.8%			100.0%			25.3%	0.1%		19.4%	45.9%	34.7%
Chrysler-Fiat	All	All	2004	39.0%	41.0%	5.5%	94.5%			100.0%			36.5%	0.1%		20.0%	47.2%	32.8%
Chrysler-Fiat	All	All	2005	47.7%	28.4%	3.8%	96.1%			99.6%		0.4%	32.3%	0.2%		18.0%	50.3%	31.7%
Chrysler-Fiat	All	All	2006	38.0%	29.6%	3.4%	96.5%			99.7%		0.3%	32.6%	0.2%		12.8%	48.4%	38.8%
Chrysler-Fiat	All	All	2007	41.0%	34.4%	3.6%	82.0%	14.4%		99.8%		0.2%	36.5%	18.8%		22.3%	47.7%	30.0%
Chrysler-Fiat	All	All	2008	45.0%	30.1%	3.6%	86.3%	9.9%		99.9%		0.1%	43.1%	20.1%		14.4%	58.0%	27.6%
Chrysler-Fiat	All	All	2009	47.0%	28.6%	2.7%	87.0%	10.0%	0.0%	100.0%			44.2%	33.2%	0.2%	14.8%	48.2%	37.0%
Chrysler-Fiat	All	All	2010	49.3%	26.6%	3.3%	87.7%	8.8%	0.1%	99.9%			44.2%	30.1%		18.8%	51.2%	30.0%
Chrysler-Fiat	All	All	2011	33.3%	44.3%	2.8%	85.3%	11.7%	0.1%	99.9%			58.4%	72.6%		6.8%	50.0%	43.2%
Chrysler-Fiat	All	All	2012	41.4%	37.6%	4.4%	91.8%	7.1%	0.1%	99.9%			72.9%	89.6%				
Chrysler-Fiat	All	All	2013	56.5%	26.3%	4.7%	92.0%	4.8%	0.1%	99.9%			85.2%	98.2%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Nissan	Car	Car	1975	25.0	19.2	24.7	21.4	2606		117	113	11.6	0.957	0.0424	33.3		
Nissan	Car	Car	1976	26.9	21.0	25.8	22.9	2568		112	107	11.9	0.946	0.0407	35.1		
Nissan	Car	Car	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	Car	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	Car	1979	26.8	21.1	25.4	22.8	2494	83.2	109	85	14.0	0.772	0.0331	33.8	2337	2827
Nissan	Car	Car	1980	31.2	24.9	29.0	26.6	2461	86.3	105	82	14.0	0.777	0.0327	38.7	2763	3353
Nissan	Car	Car	1981	30.5	24.4	28.1	25.9	2530	84.7	113	89	13.7	0.774	0.0344	38.9	2672	3312
Nissan	Car	Car	1982	30.7	24.3	28.8	26.1	2568	89.7	117	90	13.6	0.761	0.0344	40.1	2909	3625
Nissan	Car	Car	1983	32.7	25.6	31.4	27.9	2516	93.6	116	90	13.4	0.759	0.0349	41.7	3223	3931
Nissan	Car	Car	1984	31.9	24.8	30.9	27.2	2633	90.9	123	101	12.8	0.804	0.0373	42.6	3078	3887
Nissan	Car	Car	1985	29.5	23.0	28.3	25.1	2738	93.0	128	103	12.9	0.789	0.0366	40.7	2910	3779
Nissan	Car	Car	1986	29.9	23.0	29.1	25.4	2801	95.0	128	103	13.1	0.792	0.0359	42.1	2973	3994
Nissan	Car	Car	1987	29.3	22.3	28.5	24.8	2882	98.9	125	99	14.1	0.778	0.0333	42.4	2975	4194
Nissan	Car	Car	1988	30.6	23.4	29.0	25.7	2786	98.5	118	93	14.4	0.775	0.0325	42.8	3096	4218
Nissan	Car	Car	1989	30.2	22.8	28.9	25.3	2836	99.3	124	112	12.2	0.904	0.0390	42.9	3063	4271
Nissan	Car	Car	1990	28.4	21.1	27.5	23.8	3025	97.8	144	138	11.1	0.953	0.0447	43.0	2861	4221
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
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
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
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
Nissan	Car	Car	1995	29.2	20.9	28.2	24.1	3143	104.0	148	159	10.0	1.082	0.0500	46.1	3072	4795
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
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
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
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
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
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
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
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
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
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
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
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
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
Nissan	Car	Car	2009	33.3	22.4	29.8	26.1	3436	109.8	156	191	9.7	1.198	0.0542	57.5	3728	6328
Nissan	Car	Car	2010	33.5	22.4	30.3	26.3	3445	110.2	158	194	9.6	1.204	0.0550	58.0	3773	6413
Nissan	Car	Car	2011	33.9	22.7	30.4	26.5	3436	108.8	152	192	9.6	1.253	0.0546	58.5	3764	6373
Nissan	Car	Car	2012	35.0	23.4	31.4	27.4	3378	110.5	148	182	10.0	1.218	0.0527	59.4	3944	6568
Nissan	Car	Car	2013	38.5	24.8	34.2	29.4	3419	111.2	152	195	9.6	1.272	0.0557	67.1	4450	7492

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Nissan	Car	Car	1975			78.6%				32.3%						100.0%		
Nissan	Car	Car	1976			74.1%				21.0%						100.0%		
Nissan	Car	Car	1977			72.0%				22.4%						100.0%		
Nissan	Car	Car	1978			71.1%				21.2%						100.0%		
Nissan	Car	Car	1979	14.5%		73.4%				24.0%						100.0%		
Nissan	Car	Car	1980	19.6%		71.8%				28.2%						100.0%		
Nissan	Car	Car	1981	18.1%		65.9%	15.0%			36.2%		1.0%				100.0%		
Nissan	Car	Car	1982	44.2%		55.9%	23.3%			35.0%		2.5%				100.0%		
Nissan	Car	Car	1983	70.9%		60.5%	38.7%			30.1%		1.2%				100.0%		
Nissan	Car	Car	1984	46.1%		59.3%	39.1%			53.9%		0.8%				100.0%		
Nissan	Car	Car	1985	75.6%		51.3%	47.9%			50.3%		0.2%				100.0%		
Nissan	Car	Car	1986	72.9%	1.8%	53.7%	46.3%			54.5%		0.1%				89.2%	10.8%	
Nissan	Car	Car	1987	90.8%	0.6%	45.7%	54.3%			34.3%	25.6%		2.2%			98.5%	1.5%	
Nissan	Car	Car	1988	90.9%	0.5%	49.0%	51.0%			35.8%	63.7%		3.7%			97.6%	2.4%	
Nissan	Car	Car	1989	84.6%	0.2%	44.1%	55.9%			42.5%	57.5%		65.9%			79.3%	20.7%	
Nissan	Car	Car	1990	74.9%		40.7%	59.3%			65.2%	34.8%		75.0%	2.5%		74.1%	25.9%	
Nissan	Car	Car	1991	81.4%		34.1%	65.9%			99.3%	0.7%		75.1%	37.1%		72.8%	27.2%	
Nissan	Car	Car	1992	87.2%		33.6%	66.4%			99.8%	0.2%		85.0%	53.0%		74.7%	25.3%	
Nissan	Car	Car	1993	85.8%		24.3%	75.7%			100.0%			85.9%	40.2%		80.8%	19.2%	
Nissan	Car	Car	1994	90.7%		20.8%	79.2%			100.0%			88.3%	50.6%		83.2%	16.8%	
Nissan	Car	Car	1995	89.0%		21.5%	78.5%			100.0%			100.0%	54.9%		68.7%	31.3%	
Nissan	Car	Car	1996	96.0%		26.8%	73.2%			100.0%			100.0%	73.3%		59.8%	40.2%	
Nissan	Car	Car	1997	94.8%		12.6%	87.4%			100.0%			100.0%	64.2%		67.0%	33.0%	
Nissan	Car	Car	1998	97.6%		13.3%	86.7%			100.0%			100.0%	59.2%		66.5%	33.5%	
Nissan	Car	Car	1999	98.2%		9.8%	90.2%			100.0%			100.0%	50.1%		68.5%	31.5%	
Nissan	Car	Car	2000	99.1%		9.3%	90.7%			100.0%			100.0%	62.0%		51.2%	48.8%	
Nissan	Car	Car	2001	99.5%		7.8%	92.2%			100.0%			100.0%	57.9%		63.6%	36.4%	
Nissan	Car	Car	2002	98.2%		10.4%	89.6%			100.0%			100.0%	97.1%		28.5%	71.5%	
Nissan	Car	Car	2003	74.7%		11.6%	88.4%			100.0%			100.0%	100.0%		39.5%	60.5%	
Nissan	Car	Car	2004	72.4%	3.9%	10.9%	89.1%			100.0%			100.0%	100.0%		53.2%	46.8%	
Nissan	Car	Car	2005	85.6%	2.1%	6.9%	93.1%			100.0%			100.0%	100.0%		32.0%	68.0%	
Nissan	Car	Car	2006	79.1%	4.9%	6.3%	93.7%			100.0%			100.0%	100.0%		36.2%	57.3%	6.5%
Nissan	Car	Car	2007	81.1%	5.9%	5.9%	24.5%	69.7%		100.0%			100.0%	100.0%	1.3%	4.6%	89.8%	5.5%
Nissan	Car	Car	2008	82.5%	5.4%	4.9%	23.0%	72.1%		100.0%			100.0%	100.0%	1.2%	14.6%	82.9%	2.5%
Nissan	Car	Car	2009	87.1%	5.0%	4.4%	25.4%	70.2%		100.0%			100.0%	100.0%	1.9%	13.2%	85.6%	1.1%
Nissan	Car	Car	2010	87.5%	5.0%	2.7%	23.5%	73.5%		100.0%			100.0%	100.0%		14.0%	85.2%	0.8%
Nissan	Car	Car	2011	82.1%	10.4%	2.5%	28.3%	69.2%	7.7%	92.3%			100.0%	100.0%	0.7%	22.8%	77.2%	
Nissan	Car	Car	2012	87.1%	7.3%	1.8%	98.2%	80.3%	4.9%	95.1%			100.0%	100.0%	0.1%			
Nissan	Car	Car	2013	84.7%	7.7%	2.5%	97.5%	84.3%		100.0%			100.0%	100.0%	0.2%			



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Nissan	Car	Car SUV	1975														
Nissan	Car	Car SUV	1976														
Nissan	Car	Car SUV	1977														
Nissan	Car	Car SUV	1978														
Nissan	Car	Car SUV	1979														
Nissan	Car	Car SUV	1980														
Nissan	Car	Car SUV	1981														
Nissan	Car	Car SUV	1982														
Nissan	Car	Car SUV	1983														
Nissan	Car	Car SUV	1984														
Nissan	Car	Car SUV	1985														
Nissan	Car	Car SUV	1986														
Nissan	Car	Car SUV	1987														
Nissan	Car	Car SUV	1988														
Nissan	Car	Car SUV	1989														
Nissan	Car	Car SUV	1990														
Nissan	Car	Car SUV	1991														
Nissan	Car	Car SUV	1992														
Nissan	Car	Car SUV	1993														
Nissan	Car	Car SUV	1994														
Nissan	Car	Car SUV	1995														
Nissan	Car	Car SUV	1996														
Nissan	Car	Car SUV	1997														
Nissan	Car	Car SUV	1998														
Nissan	Car	Car SUV	1999														
Nissan	Car	Car SUV	2000	20.1	14.7	17.9	16.3	4000		198	169	11.4	0.855	0.0422	40.3		
Nissan	Car	Car SUV	2001	20.4	14.7	18.4	16.5	4000		198	169	11.4	0.856	0.0422	40.9		
Nissan	Car	Car SUV	2002	20.7	14.8	18.5	16.6	4000		195	170	11.4	0.874	0.0424	41.5		
Nissan	Car	Car SUV	2003	23.0	16.2	20.6	18.4	4000		205	210	9.8	1.016	0.0524	46.4		
Nissan	Car	Car SUV	2004	23.2	16.0	21.2	18.6	4051		203	210	9.9	1.030	0.0518	47.3		
Nissan	Car	Car SUV	2005	23.5	16.0	21.6	18.8	4265		224	258	8.5	1.153	0.0605	50.2		
Nissan	Car	Car SUV	2006	23.3	15.9	21.4	18.6	4271		226	257	8.6	1.141	0.0603	49.9		
Nissan	Car	Car SUV	2007	23.8	16.2	21.9	19.0	4233		225	254	8.6	1.131	0.0600	50.5		
Nissan	Car	Car SUV	2008	26.6	18.2	23.9	21.1	3949		191	221	9.3	1.155	0.0555	53.2		
Nissan	Car	Car SUV	2009	27.6	19.0	24.4	21.7	3887		194	230	8.9	1.182	0.0587	53.9		
Nissan	Car	Car SUV	2010	28.0	19.4	24.6	22.0	3854		186	218	9.2	1.168	0.0561	54.3		
Nissan	Car	Car SUV	2011	29.8	20.6	26.1	23.4	3721		176	203	9.5	1.146	0.0539	55.7		
Nissan	Car	Car SUV	2012	30.2	20.8	26.2	23.6	3713		175	206	9.4	1.174	0.0550	56.3		
Nissan	Car	Car SUV	2013	29.8	20.5	26.2	23.4	3791		179	207	9.5	1.148	0.0541	56.8		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Nissan	Car	Car SUV	1975															
Nissan	Car	Car SUV	1976															
Nissan	Car	Car SUV	1977															
Nissan	Car	Car SUV	1978															
Nissan	Car	Car SUV	1979															
Nissan	Car	Car SUV	1980															
Nissan	Car	Car SUV	1981															
Nissan	Car	Car SUV	1982															
Nissan	Car	Car SUV	1983															
Nissan	Car	Car SUV	1984															
Nissan	Car	Car SUV	1985															
Nissan	Car	Car SUV	1986															
Nissan	Car	Car SUV	1987															
Nissan	Car	Car SUV	1988															
Nissan	Car	Car SUV	1989															
Nissan	Car	Car SUV	1990															
Nissan	Car	Car SUV	1991															
Nissan	Car	Car SUV	1992															
Nissan	Car	Car SUV	1993															
Nissan	Car	Car SUV	1994															
Nissan	Car	Car SUV	1995															
Nissan	Car	Car SUV	1996															
Nissan	Car	Car SUV	1997															
Nissan	Car	Car SUV	1998															
Nissan	Car	Car SUV	1999															
Nissan	Car	Car SUV	2000			13.9%	86.1%			100.0%			4.3%			100.0%		
Nissan	Car	Car SUV	2001			10.8%	89.2%			100.0%			4.3%				100.0%	
Nissan	Car	Car SUV	2002			17.3%	82.7%			100.0%			100.0%				100.0%	
Nissan	Car	Car SUV	2003	34.0%		8.2%	57.8%	34.0%		100.0%			47.9%	42.1%			57.9%	42.1%
Nissan	Car	Car SUV	2004	34.0%		7.2%	58.9%	34.0%		100.0%			49.5%	44.1%			89.9%	10.1%
Nissan	Car	Car SUV	2005	47.0%		2.3%	50.8%	47.0%		100.0%			100.0%	100.0%			37.7%	62.3%
Nissan	Car	Car SUV	2006	45.9%		3.3%	50.8%	45.9%		100.0%			100.0%	100.0%			44.2%	55.8%
Nissan	Car	Car SUV	2007	53.4%		1.7%	44.9%	53.4%		100.0%			100.0%	100.0%			39.9%	60.1%
Nissan	Car	Car SUV	2008	49.8%		0.5%	49.7%	49.8%		100.0%			100.0%	100.0%			90.3%	9.7%
Nissan	Car	Car SUV	2009	86.1%		0.1%	13.8%	86.1%		100.0%			100.0%	100.0%			42.9%	57.1%
Nissan	Car	Car SUV	2010	82.8%		0.1%	17.1%	82.8%		100.0%			100.0%	100.0%			64.0%	36.0%
Nissan	Car	Car SUV	2011	90.1%			9.9%	90.1%		100.0%			100.0%	100.0%			71.4%	28.6%
Nissan	Car	Car SUV	2012	90.9%			100.0%	90.9%		100.0%			100.0%	100.0%				
Nissan	Car	Car SUV	2013	90.7%			100.0%	90.7%		100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Nissan	Car	All	1995	29.2	20.9	28.2	24.1	3143	104.0	148	159	10.0	1.082	0.0500	46.1	3072	4795
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
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
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
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
Nissan	Car	All	2000	26.9	18.7	25.5	21.8	3444	111.2	162	183	9.7	1.129	0.0530	46.6	3119	5256
Nissan	Car	All	2001	27.1	18.8	25.4	21.9	3382	109.1	155	172	10.0	1.118	0.0508	46.2	3105	5104
Nissan	Car	All	2002	27.8	19.2	25.6	22.3	3435	113.2	168	191	9.5	1.143	0.0554	48.3	3300	5546
Nissan	Car	All	2003	27.2	18.6	25.1	21.8	3499	108.3	181	212	8.8	1.174	0.0605	48.0	3065	5238
Nissan	Car	All	2004	27.3	18.5	25.4	21.8	3606	105.2	181	214	9.0	1.185	0.0588	49.7	3032	5301
Nissan	Car	All	2005	28.7	19.3	26.3	22.7	3592	111.1	172	203	9.3	1.177	0.0558	51.7	3305	5779
Nissan	Car	All	2006	28.4	19.2	26.0	22.5	3597	109.8	172	206	9.3	1.192	0.0565	51.4	3252	5681
Nissan	Car	All	2007	30.7	20.7	27.8	24.2	3551	113.0	169	202	9.4	1.186	0.0559	55.2	3674	6315
Nissan	Car	All	2008	31.7	21.3	28.5	24.9	3501	110.4	163	198	9.4	1.195	0.0556	56.0	3640	6226
Nissan	Car	All	2009	32.5	21.9	29.0	25.5	3491	109.8	160	196	9.6	1.196	0.0548	57.0	3728	6328
Nissan	Car	All	2010	32.8	22.0	29.5	25.8	3491	110.2	161	197	9.5	1.200	0.0551	57.6	3773	6413
Nissan	Car	All	2011	33.3	22.4	29.8	26.1	3471	108.8	155	194	9.6	1.240	0.0546	58.1	3764	6373
Nissan	Car	All	2012	34.4	23.1	30.8	26.9	3413	110.5	151	185	9.9	1.213	0.0530	59.1	3944	6568
Nissan	Car	All	2013	37.2	24.2	33.0	28.5	3464	111.2	155	196	9.6	1.257	0.0555	65.8	4450	7492

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	14.5%		73.4%				24.0%						100.0%		
Nissan	Car	All	1980	19.6%		71.8%				28.2%						100.0%		
Nissan	Car	All	1981	18.1%		65.9%	15.0%			36.2%		1.0%				100.0%		
Nissan	Car	All	1982	44.2%		55.9%	23.3%			35.0%		2.5%				100.0%		
Nissan	Car	All	1983	70.9%		60.5%	38.7%			30.1%		1.2%				100.0%		
Nissan	Car	All	1984	46.1%		59.3%	39.1%			53.9%		0.8%				100.0%		
Nissan	Car	All	1985	75.6%		51.3%	47.9%			50.3%		0.2%				100.0%		
Nissan	Car	All	1986	72.9%	1.8%	53.7%	46.3%			54.5%		0.1%				89.2%	10.8%	
Nissan	Car	All	1987	90.8%	0.6%	45.7%	54.3%			34.3%	25.6%		2.2%			98.5%	1.5%	
Nissan	Car	All	1988	90.9%	0.5%	49.0%	51.0%			35.8%	63.7%		3.7%			97.6%	2.4%	
Nissan	Car	All	1989	84.6%	0.2%	44.1%	55.9%			42.5%	57.5%		65.9%			79.3%	20.7%	
Nissan	Car	All	1990	74.9%		40.7%	59.3%			65.2%	34.8%		75.0%	2.5%		74.1%	25.9%	
Nissan	Car	All	1991	81.4%		34.1%	65.9%			99.3%	0.7%		75.1%	37.1%		72.8%	27.2%	
Nissan	Car	All	1992	87.2%		33.6%	66.4%			99.8%	0.2%		85.0%	53.0%		74.7%	25.3%	
Nissan	Car	All	1993	85.8%		24.3%	75.7%			100.0%			85.9%	40.2%		80.8%	19.2%	
Nissan	Car	All	1994	90.7%		20.8%	79.2%			100.0%			88.3%	50.6%		83.2%	16.8%	
Nissan	Car	All	1995	89.0%		21.5%	78.5%			100.0%			100.0%	54.9%		68.7%	31.3%	
Nissan	Car	All	1996	96.0%		26.8%	73.2%			100.0%			100.0%	73.3%		59.8%	40.2%	
Nissan	Car	All	1997	94.8%		12.6%	87.4%			100.0%			100.0%	64.2%		67.0%	33.0%	
Nissan	Car	All	1998	97.6%		13.3%	86.7%			100.0%			100.0%	59.2%		66.5%	33.5%	
Nissan	Car	All	1999	98.2%		9.8%	90.2%			100.0%			100.0%	50.1%		68.5%	31.5%	
Nissan	Car	All	2000	89.1%		9.8%	90.2%			100.0%			90.3%	55.7%		56.2%	43.8%	
Nissan	Car	All	2001	88.6%		8.1%	91.9%			100.0%			89.5%	51.5%		56.6%	43.4%	
Nissan	Car	All	2002	87.8%		11.2%	88.8%			100.0%			100.0%	86.9%		25.5%	74.5%	
Nissan	Car	All	2003	69.8%		11.1%	84.8%	4.1%		100.0%			93.7%	93.0%		34.7%	60.2%	5.1%
Nissan	Car	All	2004	66.6%	3.3%	10.4%	84.6%	5.1%		100.0%			92.5%	91.6%		45.3%	53.2%	1.5%
Nissan	Car	All	2005	81.9%	1.9%	6.5%	89.1%	4.5%		100.0%			100.0%	100.0%		28.9%	65.2%	5.9%
Nissan	Car	All	2006	75.8%	4.4%	6.0%	89.6%	4.4%		100.0%			100.0%	100.0%		32.7%	56.0%	11.3%
Nissan	Car	All	2007	78.7%	5.4%	5.5%	26.3%	68.2%		100.0%			100.0%	100.0%	1.2%	4.2%	85.4%	10.4%
Nissan	Car	All	2008	80.0%	5.0%	4.6%	25.1%	70.3%		100.0%			100.0%	100.0%	1.1%	13.5%	83.4%	3.1%
Nissan	Car	All	2009	87.0%	4.4%	3.9%	24.0%	72.1%		100.0%			100.0%	100.0%	1.7%	11.6%	80.4%	7.9%
Nissan	Car	All	2010	86.9%	4.4%	2.4%	22.8%	74.6%		100.0%			100.0%	100.0%		12.4%	82.8%	4.8%
Nissan	Car	All	2011	83.1%	9.1%	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	87.5%	6.6%	1.6%	98.4%	81.4%	4.4%	95.6%			100.0%	100.0%	0.1%			
Nissan	Car	All	2013	85.5%	6.8%	2.2%	97.8%	85.1%		100.0%			100.0%	100.0%	0.1%			



**2013 FE Trends Report**  
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Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Nissan	Truck	Van	1991	26.0	19.4	24.9	21.7	3382		146	138	11.7	0.945	0.0410	44.0		
Nissan	Truck	Van	1992	25.6	18.9	24.4	21.3	3500		146	138	12.0	0.945	0.0394	44.8		
Nissan	Truck	Van	1993	21.8	15.9	21.2	18.1	4000		181	151	12.5	0.834	0.0378	43.5		
Nissan	Truck	Van	1994	22.7	16.4	22.0	18.8	4000		181	151	12.5	0.834	0.0378	45.4		
Nissan	Truck	Van	1995	23.0	16.5	22.3	19.0	4000		181	151	12.5	0.834	0.0378	46.0		
Nissan	Truck	Van	1996	22.9	16.4	22.0	18.9	4000		181	151	12.5	0.834	0.0378	45.8		
Nissan	Truck	Van	1997	22.6	16.1	21.6	18.6	4000		181	151	12.5	0.834	0.0378	45.2		
Nissan	Truck	Van	1998	22.7	16.0	21.8	18.7	4000		181	151	12.5	0.834	0.0378	45.4		
Nissan	Truck	Van	1999	23.1	15.9	22.9	19.0	4000		200	170	11.3	0.850	0.0425	46.1		
Nissan	Truck	Van	2000	22.8	15.7	22.5	18.7	4000		200	170	11.3	0.850	0.0425	45.7		
Nissan	Truck	Van	2001	22.6	15.5	21.9	18.4	4000		200	170	11.3	0.850	0.0425	45.1		
Nissan	Truck	Van	2002	22.6	15.4	21.8	18.4	4000		200	170	11.3	0.850	0.0425	45.1		
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		
Nissan	Truck	Van	2005	24.7	16.4	23.5	19.9	4500		214	240	9.4	1.121	0.0533	55.5		
Nissan	Truck	Van	2006	24.9	16.6	23.7	20.1	4500		214	240	9.4	1.121	0.0533	56.1		
Nissan	Truck	Van	2007	24.5	16.3	23.5	19.7	4500		214	240	9.4	1.121	0.0533	55.0		
Nissan	Truck	Van	2008	24.5	16.3	23.5	19.7	4500		214	240	9.4	1.121	0.0533	55.1		
Nissan	Truck	Van	2009	24.5	16.3	23.5	19.7	4500		214	240	9.4	1.121	0.0533	55.1		
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		
Nissan	Truck	Van	2012	27.4	18.7	24.6	21.7	4500		214	265	8.8	1.241	0.0589	61.7		
Nissan	Truck	Van	2013	29.7	20.5	24.9	22.8	4124		179	215	10.2	1.178	0.0508	61.1		



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	86.5%	11.9%	27.2%	72.8%			98.4%	1.6%					100.0%		
Nissan	Truck	Van	1991	99.5%	0.5%	24.2%	75.8%			100.0%						100.0%		
Nissan	Truck	Van	1992	100.0%			100.0%			100.0%						100.0%		
Nissan	Truck	Van	1993	100.0%			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%			100.0%	
Nissan	Truck	Van	2005	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Nissan	Truck	Van	2006	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Nissan	Truck	Van	2007	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Nissan	Truck	Van	2008	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Nissan	Truck	Van	2009	100.0%			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%			100.0%	
Nissan	Truck	Van	2012	100.0%			100.0%	100.0%		100.0%			100.0%	100.0%				
Nissan	Truck	Van	2013	100.0%			100.0%	100.0%		100.0%			100.0%	100.0%				



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Nissan	Truck	Truck SUV	1988	18.5	14.5	17.2	15.6	4000		181	140	13.2	0.773	0.0350	37.1		
Nissan	Truck	Truck SUV	1989	19.0	14.7	17.6	15.9	4000		181	145	12.8	0.801	0.0362	37.9		
Nissan	Truck	Truck SUV	1990	19.5	14.9	18.2	16.3	4000		181	153	12.3	0.845	0.0383	39.0		
Nissan	Truck	Truck SUV	1991	19.5	14.8	18.1	16.3	4000		181	153	12.3	0.845	0.0383	39.0		
Nissan	Truck	Truck SUV	1992	19.6	14.8	18.2	16.3	4000		181	153	12.3	0.845	0.0383	39.2		
Nissan	Truck	Truck SUV	1993	19.4	14.7	17.9	16.1	4304		181	153	13.0	0.845	0.0357	41.8		
Nissan	Truck	Truck SUV	1994	18.6	14.1	16.9	15.4	4352		181	153	13.1	0.845	0.0353	40.4		
Nissan	Truck	Truck SUV	1995	19.1	14.2	17.4	15.7	4204		181	153	12.8	0.845	0.0365	40.0		
Nissan	Truck	Truck SUV	1996	19.8	14.7	18.0	16.3	4000		200	168	11.4	0.840	0.0420	39.7		
Nissan	Truck	Truck SUV	1997	19.6	14.4	18.0	16.1	4399		200	168	12.3	0.840	0.0383	43.1		
Nissan	Truck	Truck SUV	1998	19.5	14.2	17.9	15.9	4398		200	168	12.3	0.840	0.0383	42.9		
Nissan	Truck	Truck SUV	1999	19.5	14.2	17.9	15.9	4338		200	169	12.2	0.843	0.0390	42.4		
Nissan	Truck	Truck SUV	2000	19.3	14.0	17.4	15.7	4423		200	170	12.3	0.849	0.0385	42.8		
Nissan	Truck	Truck SUV	2001	19.7	14.2	17.6	15.9	4392		210	221	10.1	1.046	0.0504	43.2		
Nissan	Truck	Truck SUV	2002	19.5	14.0	17.5	15.7	4422		208	214	10.4	1.026	0.0485	43.2		
Nissan	Truck	Truck SUV	2003	21.3	14.9	19.4	17.1	4345		213	236	9.5	1.103	0.0545	46.5		
Nissan	Truck	Truck SUV	2004	19.6	13.5	18.3	15.9	4942		280	271	9.4	0.986	0.0549	48.4		
Nissan	Truck	Truck SUV	2005	20.7	14.1	19.6	16.7	4852		255	274	9.0	1.093	0.0569	50.3		
Nissan	Truck	Truck SUV	2006	20.9	14.1	19.7	16.9	4881		255	273	9.1	1.086	0.0562	51.1		
Nissan	Truck	Truck SUV	2007	21.9	14.9	20.4	17.6	4777		246	266	9.1	1.099	0.0561	52.4		
Nissan	Truck	Truck SUV	2008	22.3	15.2	20.8	18.0	4782		238	269	9.4	1.133	0.0556	53.8		
Nissan	Truck	Truck SUV	2009	25.4	17.5	22.6	20.1	4346		208	240	9.3	1.162	0.0551	55.3		
Nissan	Truck	Truck SUV	2010	24.0	16.5	21.8	19.1	4558		225	244	9.5	1.111	0.0534	55.0		
Nissan	Truck	Truck SUV	2011	24.9	17.0	22.5	19.8	4553		220	244	9.7	1.118	0.0529	57.0		
Nissan	Truck	Truck SUV	2012	24.7	16.9	22.6	19.7	4564		221	248	9.6	1.133	0.0536	56.8		
Nissan	Truck	Truck SUV	2013	27.1	18.6	24.2	21.4	4361		205	241	9.5	1.176	0.0547	59.4		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		100.0%	52.4%	47.6%				100.0%						100.0%	
Nissan	Truck	Truck SUV	1988		100.0%	45.3%	54.7%				100.0%						100.0%	
Nissan	Truck	Truck SUV	1989		83.3%	52.4%	47.6%				100.0%						100.0%	
Nissan	Truck	Truck SUV	1990		91.7%	31.5%	68.5%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1991		84.7%	32.1%	67.9%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1992		74.9%	32.3%	67.7%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1993		72.5%	29.2%	70.8%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1994		100.0%	23.2%	76.8%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1995		70.9%	29.8%	70.2%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1996		71.3%	21.7%	78.3%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1997		79.7%	11.1%	88.9%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1998		79.6%	6.7%	93.3%			100.0%							100.0%	
Nissan	Truck	Truck SUV	1999		67.5%	4.2%	95.8%			100.0%							100.0%	
Nissan	Truck	Truck SUV	2000		84.6%	8.1%	91.9%			100.0%						50.2%	49.8%	
Nissan	Truck	Truck SUV	2001		72.7%	6.0%	94.0%			100.0%			71.9%	71.9%			100.0%	
Nissan	Truck	Truck SUV	2002		81.2%	6.7%	93.3%			100.0%			97.4%	58.8%			100.0%	
Nissan	Truck	Truck SUV	2003		86.4%	2.0%	76.6%	21.3%		100.0%			75.8%	75.8%			57.7%	42.3%
Nissan	Truck	Truck SUV	2004		70.6%	1.3%	85.3%	13.4%		100.0%			85.9%	85.9%			38.1%	61.9%
Nissan	Truck	Truck SUV	2005		75.3%	1.1%	80.6%	18.2%		100.0%			100.0%	100.0%			13.3%	86.7%
Nissan	Truck	Truck SUV	2006		69.8%	1.7%	75.9%	22.4%		100.0%			100.0%	100.0%			14.4%	85.6%
Nissan	Truck	Truck SUV	2007		78.0%	1.3%	60.9%	37.8%		100.0%			100.0%	100.0%			14.6%	85.4%
Nissan	Truck	Truck SUV	2008		73.2%	0.5%	72.5%	27.0%		100.0%			100.0%	100.0%			42.4%	57.6%
Nissan	Truck	Truck SUV	2009		95.3%	0.2%	25.8%	74.0%		100.0%			100.0%	100.0%			35.6%	64.4%
Nissan	Truck	Truck SUV	2010		85.1%	0.6%	44.2%	55.1%		100.0%			100.0%	100.0%			41.4%	58.6%
Nissan	Truck	Truck SUV	2011		85.6%	0.7%	43.3%	56.0%	7.9%	92.1%			100.0%	100.0%			47.1%	52.9%
Nissan	Truck	Truck SUV	2012		84.4%	0.6%	99.4%	54.6%	8.5%	91.5%			100.0%	100.0%				
Nissan	Truck	Truck SUV	2013	16.2%	77.4%	0.3%	99.7%	83.5%	2.6%	97.4%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Nissan	Truck	Pickup	1981	27.7	22.3	25.3	23.6	2893		133	92	14.3	0.693	0.0320	40.9		
Nissan	Truck	Pickup	1982	27.8	22.5	25.1	23.6	2894		133	91	14.5	0.685	0.0317	40.9		
Nissan	Truck	Pickup	1983	27.4	21.8	25.4	23.3	3041		141	100	13.6	0.716	0.0332	42.0		
Nissan	Truck	Pickup	1984	26.2	20.9	24.4	22.3	3156		145	103	13.8	0.709	0.0327	41.7		
Nissan	Truck	Pickup	1985	25.7	20.5	23.6	21.8	3137		146	103	13.7	0.705	0.0330	40.3		
Nissan	Truck	Pickup	1986	24.7	19.4	23.2	20.9	3229		151	109	13.4	0.725	0.0340	39.9		
Nissan	Truck	Pickup	1987	25.1	19.3	24.0	21.2	3169		151	111	13.1	0.733	0.0351	39.9		
Nissan	Truck	Pickup	1988	24.7	19.2	22.9	20.8	3239		151	112	13.2	0.738	0.0347	40.1		
Nissan	Truck	Pickup	1989	24.8	18.9	23.3	20.8	3239		152	113	13.2	0.739	0.0348	40.2		
Nissan	Truck	Pickup	1990	27.1	20.8	25.0	22.7	3167		149	135	11.2	0.905	0.0429	43.1		
Nissan	Truck	Pickup	1991	26.9	20.5	24.8	22.4	3203		149	135	11.3	0.905	0.0424	43.1		
Nissan	Truck	Pickup	1992	26.7	20.2	24.6	22.2	3229		150	135	11.3	0.903	0.0423	43.3		
Nissan	Truck	Pickup	1993	26.4	19.8	24.2	21.8	3257		150	136	11.4	0.910	0.0421	43.2		
Nissan	Truck	Pickup	1994	25.6	19.1	23.3	21.0	3333		152	137	11.5	0.906	0.0417	42.7		
Nissan	Truck	Pickup	1995	24.9	18.6	22.4	20.4	3365		153	138	11.5	0.903	0.0415	42.0		
Nissan	Truck	Pickup	1996	25.2	18.7	22.5	20.5	3355		146	134	11.8	0.918	0.0404	42.2		
Nissan	Truck	Pickup	1997	24.9	18.5	22.1	20.2	3350		146	134	11.7	0.918	0.0405	41.7		
Nissan	Truck	Pickup	1998	25.5	18.7	22.7	20.6	3604		146	142	11.9	0.973	0.0396	46.1		
Nissan	Truck	Pickup	1999	23.3	17.0	20.6	18.8	3788		166	152	11.8	0.923	0.0401	44.3		
Nissan	Truck	Pickup	2000	21.8	15.9	19.4	17.6	3918		177	158	11.7	0.903	0.0405	43.1		
Nissan	Truck	Pickup	2001	22.2	16.1	19.7	17.9	3880		178	161	11.5	0.916	0.0416	43.5		
Nissan	Truck	Pickup	2002	22.0	15.8	19.4	17.6	3944		179	163	11.6	0.915	0.0413	43.6		
Nissan	Truck	Pickup	2003	22.4	15.9	19.8	17.9	3945		182	170	11.2	0.939	0.0431	44.3		
Nissan	Truck	Pickup	2004	23.2	16.2	20.8	18.5	3870		177	166	11.3	0.940	0.0427	45.1		
Nissan	Truck	Pickup	2005	19.4	13.3	18.0	15.7	4895		290	281	9.0	0.984	0.0573	47.5		
Nissan	Truck	Pickup	2006	19.8	13.6	18.3	15.9	4811		280	272	9.2	0.989	0.0563	47.6		
Nissan	Truck	Pickup	2007	20.1	13.8	18.5	16.2	4771		270	266	9.3	0.998	0.0554	48.0		
Nissan	Truck	Pickup	2008	19.4	13.3	18.2	15.7	5140		291	344	8.3	1.165	0.0658	49.7		
Nissan	Truck	Pickup	2009	20.3	14.0	18.8	16.4	4926		270	270	9.4	1.011	0.0546	50.0		
Nissan	Truck	Pickup	2010	20.4	14.0	18.9	16.4	4943		269	270	9.4	1.012	0.0544	50.3		
Nissan	Truck	Pickup	2011	20.4	13.9	18.9	16.4	4905		270	272	9.2	1.018	0.0554	49.9		
Nissan	Truck	Pickup	2012	20.6	14.1	19.1	16.6	4839		266	273	9.1	1.038	0.0566	49.7		
Nissan	Truck	Pickup	2013	21.1	14.3	19.8	17.0	4927		272	269	9.6	0.998	0.0541	52.1		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		14.2%	91.9%										100.0%		
Nissan	Truck	Pickup	1981		28.0%	94.6%						16.0%				100.0%		
Nissan	Truck	Pickup	1982		24.2%	94.5%						18.8%				100.0%		
Nissan	Truck	Pickup	1983		24.5%	95.6%	3.4%					2.5%				100.0%		
Nissan	Truck	Pickup	1984		31.2%	91.2%	8.8%					0.3%				100.0%		
Nissan	Truck	Pickup	1985		26.3%	86.7%	13.3%					0.0%				100.0%		
Nissan	Truck	Pickup	1986		25.3%	87.2%	12.8%				64.4%					100.0%		
Nissan	Truck	Pickup	1987		14.6%	79.5%	20.5%				100.0%					100.0%		
Nissan	Truck	Pickup	1988		23.8%	79.3%	20.7%				100.0%					100.0%		
Nissan	Truck	Pickup	1989		25.1%	79.9%	20.1%				100.0%					100.0%		
Nissan	Truck	Pickup	1990		18.1%	84.0%	16.0%			100.0%						100.0%		
Nissan	Truck	Pickup	1991		20.6%	78.4%	21.6%			100.0%						100.0%		
Nissan	Truck	Pickup	1992		22.4%	78.3%	21.7%			100.0%						100.0%		
Nissan	Truck	Pickup	1993		22.3%	76.5%	23.5%			100.0%						100.0%		
Nissan	Truck	Pickup	1994		29.0%	77.7%	22.3%			100.0%						100.0%		
Nissan	Truck	Pickup	1995		25.3%	76.6%	23.4%			100.0%						100.0%		
Nissan	Truck	Pickup	1996		18.0%	76.8%	23.2%			100.0%			100.0%			100.0%		
Nissan	Truck	Pickup	1997		20.8%	79.6%	20.4%			100.0%			100.0%			100.0%		
Nissan	Truck	Pickup	1998		24.6%	74.2%	25.8%			100.0%			100.0%			100.0%		
Nissan	Truck	Pickup	1999		38.9%	48.2%	51.8%			100.0%			62.9%			100.0%		
Nissan	Truck	Pickup	2000		25.4%	33.7%	66.3%			100.0%			41.8%			41.8%		58.2%
Nissan	Truck	Pickup	2001		21.9%	33.4%	66.6%			100.0%			41.7%			41.7%		58.3%
Nissan	Truck	Pickup	2002		24.3%	28.6%	71.4%			100.0%			100.0%			38.3%		61.7%
Nissan	Truck	Pickup	2003		28.1%	28.3%	71.7%			100.0%			32.7%			32.7%		67.3%
Nissan	Truck	Pickup	2004		23.7%	29.5%	70.5%			100.0%			42.4%					100.0%
Nissan	Truck	Pickup	2005		41.7%	7.3%	92.7%			100.0%			100.0%	94.7%				100.0%
Nissan	Truck	Pickup	2006		35.6%	9.1%	90.9%			100.0%			100.0%	100.0%				100.0%
Nissan	Truck	Pickup	2007		34.8%	9.0%	91.0%			100.0%			100.0%	100.0%				100.0%
Nissan	Truck	Pickup	2008		38.2%	4.5%	95.5%			100.0%			100.0%	100.0%				100.0%
Nissan	Truck	Pickup	2009		42.4%	6.9%	93.1%			100.0%			100.0%	100.0%				100.0%
Nissan	Truck	Pickup	2010		49.7%	4.6%	95.4%			100.0%			100.0%	100.0%				100.0%
Nissan	Truck	Pickup	2011		54.5%	4.5%	95.5%			100.0%			100.0%	100.0%				100.0%
Nissan	Truck	Pickup	2012		53.6%	5.2%	94.8%			100.0%			100.0%	100.0%				
Nissan	Truck	Pickup	2013		35.3%	6.7%	93.3%			100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Nissan	Truck	All	1981	27.7	22.3	25.3	23.6	2893		133	92	14.3	0.693	0.0320	40.9		
Nissan	Truck	All	1982	27.8	22.5	25.1	23.6	2894		133	91	14.5	0.685	0.0317	40.9		
Nissan	Truck	All	1983	27.4	21.8	25.4	23.3	3041		141	100	13.6	0.716	0.0332	42.0		
Nissan	Truck	All	1984	26.2	20.9	24.4	22.3	3156		145	103	13.8	0.709	0.0327	41.7		
Nissan	Truck	All	1985	25.7	20.5	23.6	21.8	3137		146	103	13.7	0.705	0.0330	40.3		
Nissan	Truck	All	1986	24.7	19.4	23.2	20.9	3229		151	109	13.4	0.725	0.0340	39.9		
Nissan	Truck	All	1987	23.5	18.3	22.1	19.9	3338		154	114	13.3	0.738	0.0343	39.4		
Nissan	Truck	All	1988	22.7	17.7	21.1	19.1	3444		158	118	13.3	0.745	0.0344	39.4		
Nissan	Truck	All	1989	23.7	18.2	22.2	19.9	3352		156	117	13.1	0.748	0.0350	39.8		
Nissan	Truck	All	1990	25.3	19.4	23.5	21.2	3335		154	138	11.4	0.899	0.0418	42.5		
Nissan	Truck	All	1991	24.8	18.8	22.9	20.6	3383		156	139	11.5	0.892	0.0415	42.2		
Nissan	Truck	All	1992	24.0	18.1	22.1	19.9	3476		160	141	11.6	0.885	0.0410	42.0		
Nissan	Truck	All	1993	23.7	17.8	22.0	19.7	3603		161	142	11.9	0.885	0.0400	42.9		
Nissan	Truck	All	1994	22.9	17.1	21.2	18.9	3718		165	144	12.1	0.876	0.0393	42.8		
Nissan	Truck	All	1995	22.4	16.6	20.6	18.5	3741		167	145	12.1	0.872	0.0393	42.2		
Nissan	Truck	All	1996	22.9	16.9	20.9	18.7	3694		170	148	11.8	0.876	0.0402	42.4		
Nissan	Truck	All	1997	22.3	16.4	20.4	18.3	3841		172	149	12.1	0.875	0.0392	42.8		
Nissan	Truck	All	1998	22.3	16.2	20.3	18.2	3985		173	154	12.2	0.899	0.0388	44.6		
Nissan	Truck	All	1999	21.2	15.2	19.6	17.3	4112		191	164	11.9	0.866	0.0401	43.8		
Nissan	Truck	All	2000	20.9	15.1	19.0	17.0	4121		189	165	11.9	0.874	0.0401	43.4		
Nissan	Truck	All	2001	20.7	14.9	18.6	16.7	4181		198	196	10.7	0.983	0.0467	43.5		
Nissan	Truck	All	2002	20.7	14.8	18.5	16.6	4199		196	190	10.9	0.967	0.0452	43.5		
Nissan	Truck	All	2003	21.6	15.2	19.5	17.4	4217		203	215	10.0	1.051	0.0509	45.8		
Nissan	Truck	All	2004	20.9	14.4	19.4	16.8	4671		250	246	9.7	0.999	0.0524	48.9		
Nissan	Truck	All	2005	20.5	14.0	19.3	16.6	4835		264	273	9.0	1.057	0.0567	49.8		
Nissan	Truck	All	2006	20.6	14.1	19.3	16.6	4829		262	270	9.1	1.051	0.0560	50.1		
Nissan	Truck	All	2007	21.5	14.7	20.0	17.3	4743		250	263	9.2	1.067	0.0555	51.2		
Nissan	Truck	All	2008	21.4	14.5	20.0	17.2	4884		255	292	9.0	1.143	0.0589	52.5		
Nissan	Truck	All	2009	24.2	16.6	21.8	19.2	4464		220	246	9.4	1.132	0.0549	54.3		
Nissan	Truck	All	2010	22.8	15.7	20.9	18.2	4672		238	252	9.5	1.082	0.0537	53.6		
Nissan	Truck	All	2011	23.8	16.3	21.7	19.0	4632		232	252	9.5	1.100	0.0538	55.6		
Nissan	Truck	All	2012	23.5	16.1	21.5	18.8	4642		234	256	9.4	1.112	0.0548	55.0		
Nissan	Truck	All	2013	26.2	17.9	23.5	20.7	4424		213	243	9.6	1.150	0.0543	58.5		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		14.2%	91.9%										100.0%		
Nissan	Truck	All	1981		28.0%	94.6%						16.0%				100.0%		
Nissan	Truck	All	1982		24.2%	94.5%						18.8%				100.0%		
Nissan	Truck	All	1983		24.5%	95.6%	3.4%					2.5%				100.0%		
Nissan	Truck	All	1984		31.2%	91.2%	8.8%					0.3%				100.0%		
Nissan	Truck	All	1985		26.3%	86.7%	13.3%					0.0%				100.0%		
Nissan	Truck	All	1986		25.3%	87.2%	12.8%				64.4%					100.0%		
Nissan	Truck	All	1987		27.2%	69.1%	30.9%				100.0%					83.5%	16.5%	
Nissan	Truck	All	1988		40.2%	67.0%	33.0%				100.0%					76.4%	23.6%	
Nissan	Truck	All	1989		33.7%	75.7%	24.3%				100.0%					85.2%	14.8%	
Nissan	Truck	All	1990	8.9%	29.7%	69.5%	30.5%			99.8%	0.2%					83.4%	16.6%	
Nissan	Truck	All	1991	0.1%	35.1%	67.9%	32.1%			100.0%						77.5%	22.5%	
Nissan	Truck	All	1992	0.1%	39.2%	63.5%	36.5%			100.0%						68.0%	32.0%	
Nissan	Truck	All	1993	14.1%	30.8%	54.8%	45.2%			100.0%						62.9%	37.1%	
Nissan	Truck	All	1994	22.5%	38.8%	47.7%	52.3%			100.0%						54.5%	45.5%	
Nissan	Truck	All	1995	19.0%	34.4%	47.8%	52.2%			100.0%						50.5%	49.5%	
Nissan	Truck	All	1996	24.4%	28.6%	42.6%	57.4%			100.0%			47.5%			47.5%	52.5%	
Nissan	Truck	All	1997	18.4%	37.8%	40.7%	59.3%			100.0%			46.2%			46.2%	53.8%	
Nissan	Truck	All	1998	13.4%	44.1%	36.4%	63.6%			100.0%			45.3%			45.3%	54.7%	
Nissan	Truck	All	1999	23.7%	43.9%	14.9%	85.1%			100.0%			16.7%			26.5%	73.5%	
Nissan	Truck	All	2000	15.3%	43.8%	18.9%	81.1%			100.0%			19.6%			38.6%	34.1%	27.3%
Nissan	Truck	All	2001	10.2%	48.4%	14.5%	85.5%			100.0%			54.5%	40.6%		13.9%	66.7%	19.4%
Nissan	Truck	All	2002	9.0%	51.9%	14.6%	85.4%			100.0%			89.7%	30.7%		14.8%	61.3%	23.9%
Nissan	Truck	All	2003		67.8%	10.4%	75.0%	14.5%		100.0%			62.0%	51.6%		10.4%	39.2%	50.3%
Nissan	Truck	All	2004	15.6%	50.8%	6.4%	84.8%	8.8%		100.0%			79.9%	71.9%			40.6%	59.4%
Nissan	Truck	All	2005	9.0%	56.6%	3.2%	86.7%	10.1%		100.0%			100.0%	98.1%			16.4%	83.6%
Nissan	Truck	All	2006	6.6%	52.0%	4.5%	83.3%	12.2%		100.0%			100.0%	100.0%			14.5%	85.5%
Nissan	Truck	All	2007	11.7%	54.0%	3.8%	75.8%	20.4%		100.0%			100.0%	100.0%			19.6%	80.4%
Nissan	Truck	All	2008	6.8%	56.4%	1.9%	82.1%	16.0%		100.0%			100.0%	100.0%			32.0%	68.0%
Nissan	Truck	All	2009	4.1%	81.3%	1.5%	41.7%	56.8%		100.0%			100.0%	100.0%			31.3%	68.7%
Nissan	Truck	All	2010		74.6%	1.8%	59.4%	38.8%		100.0%			100.0%	100.0%			29.2%	70.8%
Nissan	Truck	All	2011	5.3%	73.9%	1.5%	53.1%	45.4%	5.7%	94.3%			100.0%	100.0%			39.0%	61.0%
Nissan	Truck	All	2012	6.4%	69.8%	1.9%	98.1%	41.3%	5.4%	94.6%			100.0%	100.0%				
Nissan	Truck	All	2013	20.6%	65.0%	1.2%	98.8%	72.6%	2.0%	98.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	78.7	112	106	11.9	0.941	0.0404	35.3	2272	2819
Nissan	All	All	1978	26.5	21.2	24.5	22.6	2580	78.8	112	106	11.9	0.933	0.0403	34.8	2213	2739
Nissan	All	All	1979	26.2	20.6	24.7	22.3	2541	83.2	111	86	13.9	0.772	0.0331	33.6	2337	2827
Nissan	All	All	1980	29.8	23.9	27.5	25.4	2531	86.3	107	84	14.0	0.776	0.0327	38.2	2763	3353
Nissan	All	All	1981	30.0	24.0	27.6	25.5	2596	84.7	116	90	13.8	0.759	0.0340	39.3	2672	3312
Nissan	All	All	1982	30.0	23.9	27.9	25.5	2637	89.7	120	90	13.8	0.745	0.0338	40.2	2909	3625
Nissan	All	All	1983	31.7	24.9	30.2	27.0	2603	93.6	120	91	13.4	0.751	0.0347	41.8	3223	3931
Nissan	All	All	1984	30.5	23.8	29.2	26.0	2748	90.9	128	101	13.0	0.783	0.0363	42.4	3078	3887
Nissan	All	All	1985	28.4	22.3	26.9	24.1	2845	93.0	133	103	13.1	0.767	0.0356	40.6	2910	3779
Nissan	All	All	1986	27.5	21.3	26.3	23.3	2981	95.0	137	106	13.2	0.764	0.0351	41.1	2973	3994
Nissan	All	All	1987	27.8	21.3	26.8	23.5	2984	98.9	131	102	13.9	0.769	0.0336	41.7	2975	4194
Nissan	All	All	1988	28.1	21.6	26.5	23.6	2955	98.5	128	100	14.1	0.767	0.0330	41.9	3096	4218
Nissan	All	All	1989	28.4	21.5	27.0	23.8	2956	99.3	132	113	12.4	0.868	0.0381	42.2	3063	4271
Nissan	All	All	1990	27.5	20.6	26.3	23.0	3109	97.8	147	138	11.2	0.938	0.0439	42.9	2861	4221
Nissan	All	All	1991	27.6	20.5	26.5	23.0	3170	98.4	147	144	10.9	0.993	0.0452	44.2	2928	4432
Nissan	All	All	1992	28.2	20.8	27.0	23.5	3132	99.1	142	141	10.9	1.011	0.0449	44.8	3036	4527
Nissan	All	All	1993	27.1	19.9	25.9	22.5	3261	100.1	146	145	11.0	1.008	0.0445	44.5	2970	4536
Nissan	All	All	1994	27.3	19.9	25.9	22.5	3249	101.1	144	143	11.2	1.008	0.0440	44.7	3068	4594
Nissan	All	All	1995	26.1	19.0	24.6	21.5	3381	104.0	156	153	10.8	0.999	0.0457	44.6	3072	4795
Nissan	All	All	1996	27.7	19.9	26.2	22.8	3280	104.4	152	154	10.6	1.032	0.0469	46.0	3187	4943
Nissan	All	All	1997	26.6	19.0	25.0	21.7	3375	105.1	155	154	10.8	1.009	0.0458	45.2	3137	4869
Nissan	All	All	1998	27.1	19.2	25.5	22.1	3510	106.4	155	155	11.1	1.018	0.0444	48.0	3230	5278
Nissan	All	All	1999	26.5	18.6	25.0	21.6	3570	107.2	161	159	11.0	1.008	0.0447	47.8	3191	5309
Nissan	All	All	2000	24.3	17.1	22.6	19.7	3701	111.2	172	176	10.5	1.033	0.0481	45.4	3119	5256
Nissan	All	All	2001	24.1	17.0	22.1	19.4	3710	109.1	173	182	10.3	1.062	0.0491	45.1	3105	5104
Nissan	All	All	2002	25.0	17.5	22.8	20.1	3680	113.2	177	191	9.9	1.086	0.0521	46.7	3300	5546
Nissan	All	All	2003	25.4	17.5	23.3	20.4	3694	108.3	187	213	9.1	1.140	0.0579	47.4	3065	5238
Nissan	All	All	2004	24.1	16.5	22.4	19.4	4058	105.2	210	228	9.3	1.106	0.0561	49.3	3032	5301
Nissan	All	All	2005	25.1	17.0	23.3	20.1	4034	111.1	204	228	9.2	1.134	0.0561	51.0	3305	5779
Nissan	All	All	2006	25.0	17.0	23.1	20.0	4037	109.8	204	229	9.2	1.142	0.0563	50.9	3252	5681
Nissan	All	All	2007	26.8	18.1	24.5	21.3	3959	113.0	197	223	9.3	1.145	0.0558	53.8	3674	6315
Nissan	All	All	2008	27.6	18.6	25.2	21.9	3926	110.4	191	227	9.3	1.179	0.0566	54.9	3640	6226
Nissan	All	All	2009	29.9	20.3	26.8	23.6	3730	109.8	175	208	9.5	1.180	0.0548	56.4	3728	6328
Nissan	All	All	2010	29.3	19.8	26.5	23.1	3817	110.2	182	212	9.5	1.167	0.0547	56.5	3773	6413
Nissan	All	All	2011	29.6	20.0	26.6	23.3	3838	108.8	179	212	9.6	1.196	0.0543	57.3	3764	6373
Nissan	All	All	2012	30.5	20.6	27.5	24.1	3748	110.5	174	204	9.8	1.185	0.0535	58.0	3944	6568
Nissan	All	All	2013	32.6	21.6	29.0	25.3	3790	111.2	175	212	9.6	1.220	0.0551	63.3	4450	7492

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	12.1%		75.9%				20.1%						100.0%		
Nissan	All	All	1980	15.9%	2.7%	75.6%				22.9%						100.0%		
Nissan	All	All	1981	14.8%	5.1%	71.1%	12.3%			29.6%		3.8%				100.0%		
Nissan	All	All	1982	34.8%	5.1%	64.1%	18.4%			27.6%		6.0%				100.0%		
Nissan	All	All	1983	59.1%	4.1%	66.3%	32.8%			25.1%		1.4%				100.0%		
Nissan	All	All	1984	36.0%	6.9%	66.3%	32.4%			42.0%		0.7%				100.0%		
Nissan	All	All	1985	55.3%	7.0%	60.8%	38.7%			36.8%		0.1%				100.0%		
Nissan	All	All	1986	42.2%	11.7%	67.8%	32.2%			31.5%	27.1%	0.0%				93.8%	6.2%	
Nissan	All	All	1987	70.6%	6.5%	50.9%	49.1%			26.6%	42.2%		1.7%			95.1%	4.9%	
Nissan	All	All	1988	67.6%	10.7%	53.7%	46.3%			26.6%	73.0%		2.8%			92.2%	7.8%	
Nissan	All	All	1989	64.9%	8.0%	51.5%	48.5%			32.6%	67.4%		50.5%			80.7%	19.3%	
Nissan	All	All	1990	56.9%	8.1%	48.6%	51.4%			74.7%	25.3%		54.5%	1.8%		76.7%	23.3%	
Nissan	All	All	1991	57.5%	10.3%	44.1%	55.9%			99.5%	0.5%		53.1%	26.2%		74.2%	25.8%	
Nissan	All	All	1992	66.7%	9.2%	40.6%	59.4%			99.9%	0.1%		65.0%	40.5%		73.1%	26.9%	
Nissan	All	All	1993	62.5%	10.0%	34.2%	65.8%			100.0%			58.0%	27.2%		75.0%	25.0%	
Nissan	All	All	1994	69.3%	12.2%	29.3%	70.7%			100.0%			60.6%	34.7%		74.2%	25.8%	
Nissan	All	All	1995	61.2%	13.7%	32.0%	68.0%			100.0%			60.3%	33.1%		61.5%	38.5%	
Nissan	All	All	1996	76.2%	7.9%	31.1%	68.9%			100.0%			85.5%	53.1%		56.4%	43.6%	
Nissan	All	All	1997	67.9%	13.3%	22.5%	77.5%			100.0%			81.1%	41.6%		59.7%	40.3%	
Nissan	All	All	1998	70.4%	14.2%	20.7%	79.3%			100.0%			82.4%	40.1%		59.7%	40.3%	
Nissan	All	All	1999	76.1%	13.0%	11.3%	88.7%			100.0%			75.2%	35.2%		56.0%	44.0%	
Nissan	All	All	2000	61.1%	16.6%	13.2%	86.8%			100.0%			63.5%	34.6%		49.5%	40.1%	10.4%
Nissan	All	All	2001	56.4%	19.8%	10.7%	89.3%			100.0%			75.1%	47.0%		39.1%	53.0%	8.0%
Nissan	All	All	2002	62.5%	16.7%	12.3%	87.7%			100.0%			96.7%	68.8%		22.1%	70.2%	7.7%
Nissan	All	All	2003	50.8%	18.4%	10.9%	82.1%	6.9%		100.0%			85.1%	81.8%		28.1%	54.5%	17.4%
Nissan	All	All	2004	45.0%	23.4%	8.7%	84.7%	6.7%		100.0%			87.1%	83.3%		26.1%	47.9%	26.1%
Nissan	All	All	2005	56.0%	21.4%	5.3%	88.2%	6.5%		100.0%			100.0%	99.3%		18.6%	47.8%	33.5%
Nissan	All	All	2006	51.1%	21.4%	5.4%	87.3%	7.2%		100.0%			100.0%	100.0%		21.0%	41.2%	37.8%
Nissan	All	All	2007	55.7%	22.0%	4.9%	43.3%	51.8%		100.0%			100.0%	100.0%	0.8%	2.8%	62.8%	34.4%
Nissan	All	All	2008	57.4%	20.8%	3.7%	42.6%	53.6%		100.0%			100.0%	100.0%	0.8%	9.3%	67.6%	23.1%
Nissan	All	All	2009	66.6%	23.3%	3.3%	28.3%	68.4%		100.0%			100.0%	100.0%	1.3%	8.8%	68.4%	22.9%
Nissan	All	All	2010	62.9%	23.8%	2.2%	32.9%	64.7%		100.0%			100.0%	100.0%		9.0%	68.0%	23.0%
Nissan	All	All	2011	58.5%	29.6%	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	65.4%	23.8%	1.7%	98.3%	70.5%	4.7%	95.3%			100.0%	100.0%	0.1%			
Nissan	All	All	2013	63.5%	26.5%	1.9%	98.1%	80.9%	0.7%	99.3%			100.0%	100.0%	0.1%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	27.9	31.6	29.5	2500	94.2	90	68	15.9	0.756	0.0272	43.7	3296	4120
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
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
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
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
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
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
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
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
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
Hyundai	Car	Car	1996	32.7	23.0	31.6	26.8	2720	105.8	102	109	12.0	1.061	0.0397	44.6	3484	4713
Hyundai	Car	Car	1997	31.0	21.8	29.9	25.4	2820	105.4	108	116	11.7	1.076	0.0409	43.9	3303	4621
Hyundai	Car	Car	1998	30.6	21.4	29.1	24.9	2831	105.4	108	115	11.9	1.058	0.0402	43.5	3259	4576
Hyundai	Car	Car	1999	30.5	20.9	29.6	24.8	2948	107.2	118	126	11.4	1.066	0.0424	44.9	3274	4818
Hyundai	Car	Car	2000	30.0	20.4	29.1	24.4	3024	106.7	120	130	11.4	1.080	0.0426	45.4	3217	4842
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
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
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
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
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
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
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
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
Hyundai	Car	Car	2009	33.8	22.2	31.4	26.7	3351	116.9	144	171	10.1	1.183	0.0501	56.5	3972	6614
Hyundai	Car	Car	2010	35.9	23.8	32.5	28.1	3184	113.8	132	157	10.4	1.175	0.0485	57.2	4124	6520
Hyundai	Car	Car	2011	N/A	23.2	34.2	28.4	3396	117.3	140	194	9.2	1.387	0.0564	N/A	N/A	N/A
Hyundai	Car	Car	2012	N/A	24.9	34.8	29.7	3277	114.9	132	186	9.3	1.409	0.0558	N/A	N/A	N/A
Hyundai	Car	Car	2013	N/A	24.5	34.7	29.5	3285	114.0	131	192	9.1	1.471	0.0573	N/A	N/A	N/A

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				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	100.0%		74.6%										100.0%		
Hyundai	Car	Car	1987	100.0%		63.3%	36.7%						100.0%			100.0%		
Hyundai	Car	Car	1988	100.0%		59.5%	40.5%						100.0%			100.0%		
Hyundai	Car	Car	1989	100.0%		47.1%	52.9%			16.0%						84.0%	16.0%	
Hyundai	Car	Car	1990	100.0%		42.1%	51.9%			100.0%						78.9%	21.1%	
Hyundai	Car	Car	1991	100.0%		39.1%	53.2%			100.0%						81.5%	18.5%	
Hyundai	Car	Car	1992	100.0%		36.4%	55.2%			100.0%			24.7%			85.3%	14.7%	
Hyundai	Car	Car	1993	100.0%		33.7%	59.3%			100.0%			52.6%			85.4%	14.6%	
Hyundai	Car	Car	1994	100.0%		40.8%	58.2%			100.0%			98.9%			98.2%	1.8%	
Hyundai	Car	Car	1995	100.0%		29.8%	70.2%			100.0%			89.9%			77.0%	23.0%	
Hyundai	Car	Car	1996	100.0%		28.6%	71.4%			100.0%			97.7%			88.5%	11.5%	
Hyundai	Car	Car	1997	100.0%		27.5%	72.5%			100.0%			94.8%	4.5%		82.7%	17.3%	
Hyundai	Car	Car	1998	100.0%		22.5%	77.5%			100.0%			96.4%	7.1%		81.8%	18.2%	
Hyundai	Car	Car	1999	100.0%		24.7%	75.3%			100.0%			100.0%	51.9%		81.1%	18.9%	
Hyundai	Car	Car	2000	100.0%		18.7%	81.3%			100.0%			100.0%	56.5%		79.9%	20.1%	
Hyundai	Car	Car	2001	100.0%		21.6%	78.4%			100.0%			100.0%	47.2%		75.5%	24.5%	
Hyundai	Car	Car	2002	100.0%		15.9%	84.1%			100.0%			100.0%	38.4%		68.1%	31.9%	
Hyundai	Car	Car	2003	100.0%		16.1%	83.9%			100.0%			100.0%	45.4%		72.0%	28.0%	
Hyundai	Car	Car	2004	100.0%		12.1%	87.9%			100.0%			100.0%	37.8%		56.1%	43.9%	
Hyundai	Car	Car	2005	100.0%		12.3%	87.7%			100.0%			100.0%	46.7%		22.2%	77.8%	
Hyundai	Car	Car	2006	100.0%		6.1%	93.9%			100.0%			100.0%	90.8%		12.4%	29.5%	58.1%
Hyundai	Car	Car	2007	100.0%		7.5%	92.5%			100.0%			100.0%	46.1%		20.5%	28.2%	51.3%
Hyundai	Car	Car	2008	100.0%		8.1%	91.9%			100.0%			100.0%	36.5%		22.9%	40.5%	36.6%
Hyundai	Car	Car	2009	93.9%		5.6%	94.4%			100.0%			100.0%	100.0%		21.2%	21.4%	57.5%
Hyundai	Car	Car	2010	90.7%		6.5%	93.5%			100.0%			100.0%	100.0%		28.5%	43.3%	28.3%
Hyundai	Car	Car	2011	93.0%		2.6%	94.9%		62.0%	38.0%			100.0%	100.0%	2.5%	12.1%	20.9%	67.0%
Hyundai	Car	Car	2012	92.7%		3.9%	92.5%		63.4%	36.6%			100.0%	100.0%	3.6%			
Hyundai	Car	Car	2013	91.5%		8.5%	88.5%		63.4%	36.6%			100.0%	100.0%	3.0%			

**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Hyundai	Car	Car SUV	1975														
Hyundai	Car	Car SUV	1976														
Hyundai	Car	Car SUV	1977														
Hyundai	Car	Car SUV	1978														
Hyundai	Car	Car SUV	1979														
Hyundai	Car	Car SUV	1980														
Hyundai	Car	Car SUV	1981														
Hyundai	Car	Car SUV	1982														
Hyundai	Car	Car SUV	1983														
Hyundai	Car	Car SUV	1984														
Hyundai	Car	Car SUV	1985														
Hyundai	Car	Car SUV	1986														
Hyundai	Car	Car SUV	1987														
Hyundai	Car	Car SUV	1988														
Hyundai	Car	Car SUV	1989														
Hyundai	Car	Car SUV	1990														
Hyundai	Car	Car SUV	1991														
Hyundai	Car	Car SUV	1992														
Hyundai	Car	Car SUV	1993														
Hyundai	Car	Car SUV	1994														
Hyundai	Car	Car SUV	1995														
Hyundai	Car	Car SUV	1996														
Hyundai	Car	Car SUV	1997														
Hyundai	Car	Car SUV	1998														
Hyundai	Car	Car SUV	1999														
Hyundai	Car	Car SUV	2000														
Hyundai	Car	Car SUV	2001	25.9	17.8	24.7	21.0	4000		154	157	12.2	1.019	0.0393	51.8		
Hyundai	Car	Car SUV	2002	25.3	17.3	24.0	20.5	4000		157	164	11.7	1.040	0.0411	50.7		
Hyundai	Car	Car SUV	2003	25.6	17.6	23.8	20.6	4000		163	164	11.8	1.008	0.0410	51.4		
Hyundai	Car	Car SUV	2004	25.0	17.0	23.3	20.1	4000		169	168	11.6	0.996	0.0420	50.4		
Hyundai	Car	Car SUV	2005	25.4	17.4	23.1	20.2	3922		162	171	11.2	1.060	0.0435	49.9		
Hyundai	Car	Car SUV	2006	25.7	17.6	23.3	20.4	3903		157	168	11.3	1.073	0.0429	50.2		
Hyundai	Car	Car SUV	2007	26.0	17.8	23.4	20.6	3956		175	203	10.0	1.156	0.0510	51.3		
Hyundai	Car	Car SUV	2008	26.1	17.8	23.8	20.8	3978		175	201	10.1	1.149	0.0503	52.0		
Hyundai	Car	Car SUV	2009	26.4	18.0	23.9	21.0	3949		174	202	10.0	1.158	0.0509	52.1		
Hyundai	Car	Car SUV	2010	30.4	20.5	27.6	24.0	3901		167	202	9.9	1.210	0.0516	59.4		
Hyundai	Car	Car SUV	2011	N/A	20.3	28.0	24.1	3833		166	202	9.7	1.222	0.0526	N/A		
Hyundai	Car	Car SUV	2012	N/A	20.5	27.4	23.9	3791		162	198	9.9	1.215	0.0519	N/A		
Hyundai	Car	Car SUV	2013	N/A	20.5	28.8	24.5	3715		149	201	9.6	1.359	0.0538	N/A		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Hyundai	Car	Car SUV	1975															
Hyundai	Car	Car SUV	1976															
Hyundai	Car	Car SUV	1977															
Hyundai	Car	Car SUV	1978															
Hyundai	Car	Car SUV	1979															
Hyundai	Car	Car SUV	1980															
Hyundai	Car	Car SUV	1981															
Hyundai	Car	Car SUV	1982															
Hyundai	Car	Car SUV	1983															
Hyundai	Car	Car SUV	1984															
Hyundai	Car	Car SUV	1985															
Hyundai	Car	Car SUV	1986															
Hyundai	Car	Car SUV	1987															
Hyundai	Car	Car SUV	1988															
Hyundai	Car	Car SUV	1989															
Hyundai	Car	Car SUV	1990															
Hyundai	Car	Car SUV	1991															
Hyundai	Car	Car SUV	1992															
Hyundai	Car	Car SUV	1993															
Hyundai	Car	Car SUV	1994															
Hyundai	Car	Car SUV	1995															
Hyundai	Car	Car SUV	1996															
Hyundai	Car	Car SUV	1997															
Hyundai	Car	Car SUV	1998															
Hyundai	Car	Car SUV	1999															
Hyundai	Car	Car SUV	2000															
Hyundai	Car	Car SUV	2001	100.0%		7.9%	92.1%			100.0%			100.0%				100.0%	
Hyundai	Car	Car SUV	2002	100.0%		3.0%	97.0%			100.0%			100.0%				100.0%	
Hyundai	Car	Car SUV	2003	100.0%		6.2%	93.8%			100.0%			100.0%				100.0%	
Hyundai	Car	Car SUV	2004	100.0%		4.2%	95.8%			100.0%			100.0%				100.0%	
Hyundai	Car	Car SUV	2005	100.0%		2.9%	97.1%			100.0%			100.0%				100.0%	
Hyundai	Car	Car SUV	2006	100.0%		4.5%	95.5%			100.0%			100.0%				100.0%	
Hyundai	Car	Car SUV	2007	100.0%		2.3%	97.7%			100.0%			100.0%	8.1%			91.9%	8.1%
Hyundai	Car	Car SUV	2008	100.0%		1.8%	98.2%			100.0%			100.0%	50.1%			89.2%	10.8%
Hyundai	Car	Car SUV	2009	100.0%		1.2%	98.8%			100.0%			100.0%	51.7%			97.6%	2.4%
Hyundai	Car	Car SUV	2010	100.0%		1.2%	98.8%			100.0%			100.0%	100.0%			90.7%	9.3%
Hyundai	Car	Car SUV	2011	100.0%		0.9%	99.1%			100.0%			100.0%	100.0%			91.5%	8.5%
Hyundai	Car	Car SUV	2012	100.0%		0.2%	99.8%			100.0%			100.0%	100.0%				
Hyundai	Car	Car SUV	2013	100.0%		2.1%	97.9%		43.0%	57.0%			100.0%	100.0%				

## 2013 FE Trends Report

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Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Hyundai	Car	All	2001	30.5	20.7	29.2	24.6	3158	106.4	126	135	11.4	1.072	0.0425	48.0	3324	5072
Hyundai	Car	All	2002	30.0	20.2	28.6	24.2	3218	107.9	132	139	11.3	1.059	0.0429	48.2	3353	5161
Hyundai	Car	All	2003	29.3	19.8	27.7	23.5	3279	106.9	137	144	11.1	1.059	0.0438	48.2	3254	5100
Hyundai	Car	All	2004	28.2	18.9	26.6	22.6	3413	108.8	146	151	11.1	1.046	0.0442	48.2	3224	5184
Hyundai	Car	All	2005	28.8	19.3	26.7	22.9	3364	110.2	141	149	11.0	1.070	0.0443	48.5	3365	5297
Hyundai	Car	All	2006	29.0	19.2	27.3	23.1	3593	116.3	162	183	10.1	1.130	0.0503	52.0	3490	6118
Hyundai	Car	All	2007	30.0	20.0	27.7	23.8	3554	115.2	157	180	10.2	1.143	0.0498	53.4	3740	6264
Hyundai	Car	All	2008	31.7	21.2	29.1	25.1	3386	113.6	143	163	10.5	1.137	0.0475	53.8	3870	6191
Hyundai	Car	All	2009	32.3	21.4	29.9	25.6	3448	116.9	148	176	10.1	1.179	0.0502	55.8	3972	6614
Hyundai	Car	All	2010	34.9	23.2	31.7	27.4	3294	113.8	138	164	10.3	1.181	0.0490	57.5	4124	6520
Hyundai	Car	All	2011	N/A	22.7	33.2	27.7	3459	117.3	144	195	9.3	1.364	0.0558	N/A	N/A	N/A
Hyundai	Car	All	2012	N/A	24.2	33.7	28.8	3340	114.9	136	187	9.4	1.386	0.0553	N/A	N/A	N/A
Hyundai	Car	All	2013	N/A	24.0	33.8	28.7	3338	114.0	133	193	9.2	1.457	0.0569	N/A	N/A	N/A

## 2013 FE Trends Report

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				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	100.0%		74.6%										100.0%		
Hyundai	Car	All	1987	100.0%		63.3%	36.7%						100.0%			100.0%		
Hyundai	Car	All	1988	100.0%		59.5%	40.5%						100.0%			100.0%		
Hyundai	Car	All	1989	100.0%		47.1%	52.9%			16.0%						84.0%	16.0%	
Hyundai	Car	All	1990	100.0%		42.1%	51.9%			100.0%						78.9%	21.1%	
Hyundai	Car	All	1991	100.0%		39.1%	53.2%			100.0%						81.5%	18.5%	
Hyundai	Car	All	1992	100.0%		36.4%	55.2%			100.0%			24.7%			85.3%	14.7%	
Hyundai	Car	All	1993	100.0%		33.7%	59.3%			100.0%			52.6%			85.4%	14.6%	
Hyundai	Car	All	1994	100.0%		40.8%	58.2%			100.0%			98.9%			98.2%	1.8%	
Hyundai	Car	All	1995	100.0%		29.8%	70.2%			100.0%			89.9%			77.0%	23.0%	
Hyundai	Car	All	1996	100.0%		28.6%	71.4%			100.0%			97.7%			88.5%	11.5%	
Hyundai	Car	All	1997	100.0%		27.5%	72.5%			100.0%			94.8%	4.5%		82.7%	17.3%	
Hyundai	Car	All	1998	100.0%		22.5%	77.5%			100.0%			96.4%	7.1%		81.8%	18.2%	
Hyundai	Car	All	1999	100.0%		24.7%	75.3%			100.0%			100.0%	51.9%		81.1%	18.9%	
Hyundai	Car	All	2000	100.0%		18.7%	81.3%			100.0%			100.0%	56.5%		79.9%	20.1%	
Hyundai	Car	All	2001	100.0%		20.4%	79.6%			100.0%			100.0%	42.8%		68.5%	31.5%	
Hyundai	Car	All	2002	100.0%		14.2%	85.8%			100.0%			100.0%	33.4%		59.2%	40.8%	
Hyundai	Car	All	2003	100.0%		14.8%	85.2%			100.0%			100.0%	39.1%		62.0%	38.0%	
Hyundai	Car	All	2004	100.0%		10.3%	89.7%			100.0%			100.0%	29.5%		43.8%	56.2%	
Hyundai	Car	All	2005	100.0%		9.9%	90.1%			100.0%			100.0%	35.0%		16.7%	83.3%	
Hyundai	Car	All	2006	100.0%		5.8%	94.2%			100.0%			100.0%	74.3%		10.1%	42.3%	47.5%
Hyundai	Car	All	2007	100.0%		6.0%	94.0%			100.0%			100.0%	34.8%		14.4%	47.2%	38.4%
Hyundai	Car	All	2008	100.0%		6.7%	93.3%			100.0%			100.0%	39.4%		17.9%	51.2%	30.9%
Hyundai	Car	All	2009	94.9%		4.9%	95.1%			100.0%			100.0%	92.2%		17.7%	33.7%	48.5%
Hyundai	Car	All	2010	92.2%		5.7%	94.3%			100.0%			100.0%	100.0%		24.1%	50.5%	25.4%
Hyundai	Car	All	2011	94.0%		2.4%	95.5%		53.1%	46.9%			100.0%	100.0%	2.1%	10.4%	31.0%	58.6%
Hyundai	Car	All	2012	93.6%		3.5%	93.4%		55.6%	44.4%			100.0%	100.0%	3.1%			
Hyundai	Car	All	2013	92.5%		7.7%	89.6%		60.9%	39.1%			100.0%	100.0%	2.6%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Hyundai	Truck	Truck SUV	2002	23.5	16.5	21.7	19.0	4000		162	173	11.2	1.068	0.0433	47.1		
Hyundai	Truck	Truck SUV	2003	23.3	16.2	21.3	18.7	4000		173	178	11.0	1.034	0.0445	46.7		
Hyundai	Truck	Truck SUV	2004	22.8	15.8	20.7	18.3	4000		184	185	10.6	1.012	0.0462	45.8		
Hyundai	Truck	Truck SUV	2005	23.0	15.7	21.3	18.4	4000		179	180	10.9	1.012	0.0450	46.1		
Hyundai	Truck	Truck SUV	2006	22.9	15.6	21.3	18.4	4208		183	182	11.2	1.003	0.0433	48.1		
Hyundai	Truck	Truck SUV	2007	24.5	16.7	22.4	19.5	4397		184	213	10.4	1.152	0.0482	53.8		
Hyundai	Truck	Truck SUV	2008	24.6	16.6	22.9	19.7	4425		190	218	10.2	1.148	0.0492	54.4		
Hyundai	Truck	Truck SUV	2009	24.9	16.8	23.1	19.9	4469		184	213	10.5	1.158	0.0477	55.6		
Hyundai	Truck	Truck SUV	2010	29.2	19.8	26.3	23.0	3944		173	211	9.7	1.217	0.0534	57.7		
Hyundai	Truck	Truck SUV	2011	N/A	19.6	25.6	22.6	3911		178	220	9.3	1.227	0.0559	N/A		
Hyundai	Truck	Truck SUV	2012	N/A	19.5	25.5	22.5	3829		170	208	9.6	1.219	0.0541	N/A		
Hyundai	Truck	Truck SUV	2013	N/A	19.3	25.2	22.3	3874		148	217	9.3	1.496	0.0556	N/A		

2013 FE Trends Report  
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Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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%				100.0%	
Hyundai	Truck	Truck SUV	2002		100.0%		100.0%			100.0%			100.0%				100.0%	
Hyundai	Truck	Truck SUV	2003		100.0%		100.0%			100.0%			100.0%				100.0%	
Hyundai	Truck	Truck SUV	2004		100.0%		100.0%			100.0%			100.0%				100.0%	
Hyundai	Truck	Truck SUV	2005		100.0%		100.0%			100.0%			100.0%				100.0%	
Hyundai	Truck	Truck SUV	2006		100.0%		100.0%			100.0%			100.0%				100.0%	
Hyundai	Truck	Truck SUV	2007		100.0%	2.5%	97.5%			100.0%			100.0%	6.0%			94.0%	6.0%
Hyundai	Truck	Truck SUV	2008		100.0%	0.3%	99.7%			100.0%			100.0%	57.7%			86.2%	13.8%
Hyundai	Truck	Truck SUV	2009		100.0%	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%	100.0%			89.8%	10.2%
Hyundai	Truck	Truck SUV	2011		100.0%		100.0%			100.0%			100.0%	100.0%			91.2%	8.8%
Hyundai	Truck	Truck SUV	2012		100.0%		100.0%			100.0%			100.0%	100.0%				
Hyundai	Truck	Truck SUV	2013		100.0%	1.0%	99.0%		60.9%	39.1%			100.0%	100.0%				

**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	17.0	21.8	19.3	4000		162	173	11.2	1.068	0.0433	47.9		
Hyundai	Truck	All	2002	23.5	16.5	21.7	19.0	4000		162	173	11.2	1.068	0.0433	47.1		
Hyundai	Truck	All	2003	23.3	16.2	21.3	18.7	4000		173	178	11.0	1.034	0.0445	46.7		
Hyundai	Truck	All	2004	22.8	15.8	20.7	18.3	4000		184	185	10.6	1.012	0.0462	45.8		
Hyundai	Truck	All	2005	23.0	15.7	21.3	18.4	4000		179	180	10.9	1.012	0.0450	46.1		
Hyundai	Truck	All	2006	22.9	15.6	21.3	18.4	4208		183	182	11.2	1.003	0.0433	48.1		
Hyundai	Truck	All	2007	24.5	16.7	22.4	19.5	4397		184	213	10.4	1.152	0.0482	53.8		
Hyundai	Truck	All	2008	24.6	16.6	22.9	19.7	4425		190	218	10.2	1.148	0.0492	54.4		
Hyundai	Truck	All	2009	24.9	16.8	23.1	19.9	4469		184	213	10.5	1.158	0.0477	55.6		
Hyundai	Truck	All	2010	29.2	19.8	26.3	23.0	3944		173	211	9.7	1.217	0.0534	57.7		
Hyundai	Truck	All	2011	N/A	19.6	25.6	22.6	3911		178	220	9.3	1.227	0.0559	N/A		
Hyundai	Truck	All	2012	N/A	19.5	25.5	22.5	3829		170	208	9.6	1.219	0.0541	N/A		
Hyundai	Truck	All	2013	N/A	19.3	25.2	22.3	3874		148	217	9.3	1.496	0.0556	N/A		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		100.0%		100.0%			100.0%			100.0%				100.0%	
Hyundai	Truck	All	2002		100.0%		100.0%			100.0%			100.0%				100.0%	
Hyundai	Truck	All	2003		100.0%		100.0%			100.0%			100.0%				100.0%	
Hyundai	Truck	All	2004		100.0%		100.0%			100.0%			100.0%				100.0%	
Hyundai	Truck	All	2005		100.0%		100.0%			100.0%			100.0%				100.0%	
Hyundai	Truck	All	2006		100.0%		100.0%			100.0%			100.0%				100.0%	
Hyundai	Truck	All	2007		100.0%	2.5%	97.5%			100.0%			100.0%	6.0%			94.0%	6.0%
Hyundai	Truck	All	2008		100.0%	0.3%	99.7%			100.0%			100.0%	57.7%			86.2%	13.8%
Hyundai	Truck	All	2009		100.0%	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%	100.0%			89.8%	10.2%
Hyundai	Truck	All	2011		100.0%		100.0%			100.0%			100.0%	100.0%			91.2%	8.8%
Hyundai	Truck	All	2012		100.0%		100.0%			100.0%			100.0%	100.0%				
Hyundai	Truck	All	2013		100.0%	1.0%	99.0%		60.9%	39.1%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Hyundai	All	All	2001	29.9	20.3	28.5	24.1	3218	106.4	129	137	11.4	1.071	0.0426	48.0	3324	5072
Hyundai	All	All	2002	29.2	19.8	27.8	23.6	3291	107.9	135	142	11.3	1.060	0.0429	48.1	3353	5161
Hyundai	All	All	2003	28.5	19.3	26.8	22.8	3365	106.9	141	148	11.1	1.056	0.0439	48.0	3254	5100
Hyundai	All	All	2004	27.5	18.5	25.8	22.0	3479	108.8	150	155	11.0	1.043	0.0444	48.0	3224	5184
Hyundai	All	All	2005	28.2	18.9	26.1	22.5	3417	110.2	144	152	11.0	1.065	0.0443	48.3	3365	5297
Hyundai	All	All	2006	28.7	19.1	27.0	22.9	3612	116.3	162	183	10.1	1.126	0.0501	51.9	3490	6118
Hyundai	All	All	2007	29.2	19.6	27.0	23.2	3647	115.2	160	183	10.2	1.144	0.0496	53.4	3740	6264
Hyundai	All	All	2008	30.9	20.6	28.4	24.4	3486	113.6	148	168	10.5	1.138	0.0477	53.9	3870	6191
Hyundai	All	All	2009	31.7	21.0	29.3	25.1	3520	116.9	151	179	10.1	1.178	0.0500	55.8	3972	6614
Hyundai	All	All	2010	34.4	22.9	31.2	27.0	3343	113.8	140	167	10.3	1.183	0.0493	57.6	4124	6520
Hyundai	All	All	2011	N/A	22.4	32.4	27.2	3495	117.3	146	197	9.3	1.353	0.0558	N/A	N/A	N/A
Hyundai	All	All	2012	N/A	23.8	32.9	28.3	3375	114.9	138	189	9.4	1.374	0.0552	N/A	N/A	N/A
Hyundai	All	All	2013	N/A	23.6	33.2	28.3	3371	114.0	134	194	9.2	1.460	0.0568	N/A	N/A	N/A

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	100.0%		74.6%										100.0%		
Hyundai	All	All	1987	100.0%		63.3%	36.7%						100.0%			100.0%		
Hyundai	All	All	1988	100.0%		59.5%	40.5%						100.0%			100.0%		
Hyundai	All	All	1989	100.0%		47.1%	52.9%			16.0%						84.0%	16.0%	
Hyundai	All	All	1990	100.0%		42.1%	51.9%			100.0%						78.9%	21.1%	
Hyundai	All	All	1991	100.0%		39.1%	53.2%			100.0%						81.5%	18.5%	
Hyundai	All	All	1992	100.0%		36.4%	55.2%			100.0%			24.7%			85.3%	14.7%	
Hyundai	All	All	1993	100.0%		33.7%	59.3%			100.0%			52.6%			85.4%	14.6%	
Hyundai	All	All	1994	100.0%		40.8%	58.2%			100.0%			98.9%			98.2%	1.8%	
Hyundai	All	All	1995	100.0%		29.8%	70.2%			100.0%			89.9%			77.0%	23.0%	
Hyundai	All	All	1996	100.0%		28.6%	71.4%			100.0%			97.7%			88.5%	11.5%	
Hyundai	All	All	1997	100.0%		27.5%	72.5%			100.0%			94.8%	4.5%		82.7%	17.3%	
Hyundai	All	All	1998	100.0%		22.5%	77.5%			100.0%			96.4%	7.1%		81.8%	18.2%	
Hyundai	All	All	1999	100.0%		24.7%	75.3%			100.0%			100.0%	51.9%		81.1%	18.9%	
Hyundai	All	All	2000	100.0%		18.7%	81.3%			100.0%			100.0%	56.5%		79.9%	20.1%	
Hyundai	All	All	2001	92.9%	7.1%	18.9%	81.1%			100.0%			100.0%	39.8%		63.7%	36.3%	
Hyundai	All	All	2002	90.7%	9.3%	12.9%	87.1%			100.0%			100.0%	30.3%		53.7%	46.3%	
Hyundai	All	All	2003	88.0%	12.0%	13.0%	87.0%			100.0%			100.0%	34.4%		54.6%	45.4%	
Hyundai	All	All	2004	88.8%	11.2%	9.2%	90.8%			100.0%			100.0%	26.2%		38.9%	61.1%	
Hyundai	All	All	2005	91.6%	8.4%	9.1%	90.9%			100.0%			100.0%	32.1%		15.3%	84.7%	
Hyundai	All	All	2006	96.8%	3.2%	5.6%	94.4%			100.0%			100.0%	71.9%		9.8%	44.2%	46.0%
Hyundai	All	All	2007	88.9%	11.1%	5.6%	94.4%			100.0%			100.0%	31.6%		12.8%	52.3%	34.8%
Hyundai	All	All	2008	90.4%	9.6%	6.1%	93.9%			100.0%			100.0%	41.2%		16.2%	54.5%	29.3%
Hyundai	All	All	2009	88.2%	7.0%	4.6%	95.4%			100.0%			100.0%	89.2%		16.5%	38.2%	45.3%
Hyundai	All	All	2010	85.2%	7.5%	5.2%	94.8%			100.0%			100.0%	100.0%		22.3%	53.5%	24.2%
Hyundai	All	All	2011	86.4%	8.1%	2.2%	95.8%		48.8%	51.2%			100.0%	100.0%	2.0%	9.5%	35.8%	54.6%
Hyundai	All	All	2012	87.0%	7.0%	3.2%	93.9%		51.7%	48.3%			100.0%	100.0%	2.9%			
Hyundai	All	All	2013	87.0%	6.0%	7.3%	90.2%		60.9%	39.1%			100.0%	100.0%	2.5%			



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
VW	Car	Car	1975	26.7	20.2	27.2	22.8	2360		93	67	15.7	0.722	0.0284	31.6		
VW	Car	Car	1976	27.9	21.7	26.9	23.8	2326		98	72	14.6	0.739	0.0311	32.5		
VW	Car	Car	1977	29.7	22.8	29.4	25.4	2320	95.9	97	72	14.6	0.740	0.0310	35.1	2910	3371
VW	Car	Car	1978	27.8	21.4	27.4	23.7	2370	96.0	94	71	15.0	0.755	0.0300	34.1	2787	3271
VW	Car	Car	1979	29.4	22.7	28.7	25.1	2356	94.5	95	69	15.5	0.725	0.0291	36.2	2930	3416
VW	Car	Car	1980	31.7	24.4	31.1	27.0	2364	90.8	97	67	15.9	0.687	0.0285	39.4	3049	3585
VW	Car	Car	1981	34.8	26.9	34.1	29.7	2384	90.9	104	67	16.0	0.633	0.0277	43.6	3350	3953
VW	Car	Car	1982	33.8	26.5	32.1	28.8	2447	93.8	105	71	15.5	0.666	0.0288	43.4	3338	4051
VW	Car	Car	1983	31.4	24.6	29.9	26.7	2447	95.2	109	80	14.0	0.730	0.0328	39.6	3106	3777
VW	Car	Car	1984	28.9	22.6	27.6	24.6	2590	98.6	114	86	13.9	0.752	0.0332	38.7	2967	3795
VW	Car	Car	1985	29.9	23.3	28.7	25.4	2655	104.4	115	93	13.4	0.804	0.0348	40.9	3245	4260
VW	Car	Car	1986	29.4	22.8	28.2	25.0	2653	104.1	115	96	13.0	0.827	0.0360	39.9	3161	4150
VW	Car	Car	1987	28.8	22.4	27.1	24.4	2689	101.8	114	99	12.7	0.864	0.0368	39.2	3008	3988
VW	Car	Car	1988	30.2	23.2	28.5	25.4	2660	97.9	113	97	12.8	0.860	0.0363	40.4	2984	3965
VW	Car	Car	1989	30.0	22.8	28.5	25.2	2726	99.0	113	99	12.9	0.874	0.0362	41.3	3026	4111
VW	Car	Car	1990	28.8	21.5	27.6	24.1	2901	101.3	118	113	12.4	0.958	0.0386	41.9	2956	4257
VW	Car	Car	1991	29.5	21.8	28.7	24.7	2911	103.7	116	107	13.0	0.916	0.0364	43.5	3123	4515
VW	Car	Car	1992	29.0	21.1	28.3	24.1	2957	104.2	122	116	12.4	0.938	0.0386	43.0	3052	4489
VW	Car	Car	1993	26.7	19.2	26.4	22.3	3114	100.7	143	136	11.5	0.936	0.0427	41.7	2723	4207
VW	Car	Car	1994	28.1	20.2	27.3	23.2	3087	103.5	131	128	11.6	0.969	0.0412	43.4	2933	4499
VW	Car	Car	1995	28.6	20.5	27.4	23.5	3102	104.0	134	131	11.5	0.974	0.0419	44.5	3000	4627
VW	Car	Car	1996	28.2	19.9	27.4	23.2	3145	104.5	134	130	11.7	0.961	0.0411	44.9	2999	4711
VW	Car	Car	1997	28.6	20.1	27.5	23.4	3143	103.6	134	132	11.6	0.986	0.0418	45.4	3006	4708
VW	Car	Car	1998	28.6	19.9	27.7	23.4	3209	103.2	132	138	11.4	1.045	0.0427	46.8	3030	4840
VW	Car	Car	1999	28.3	19.5	27.3	23.1	3256	104.6	131	141	11.4	1.078	0.0427	46.5	3000	4874
VW	Car	Car	2000	28.5	19.7	26.9	23.1	3255	103.8	132	147	11.1	1.111	0.0445	47.1	3023	4890
VW	Car	Car	2001	28.0	19.3	26.6	22.7	3331	102.9	133	158	10.8	1.196	0.0467	47.4	2952	4878
VW	Car	Car	2002	29.0	19.7	27.4	23.3	3400	104.9	128	159	11.0	1.254	0.0461	50.3	3120	5275
VW	Car	Car	2003	29.3	19.8	27.5	23.5	3443	105.3	128	160	11.0	1.263	0.0459	51.4	3170	5424
VW	Car	Car	2004	28.5	19.1	26.8	22.8	3535	104.7	134	171	10.8	1.282	0.0475	51.1	3064	5370
VW	Car	Car	2005	28.7	19.0	27.1	22.9	3617	104.6	142	174	10.9	1.223	0.0470	52.9	3102	5556
VW	Car	Car	2006	29.9	19.8	28.1	23.8	3638	105.1	145	183	10.5	1.271	0.0496	55.7	3249	5861
VW	Car	Car	2007	28.6	18.9	27.2	22.9	3699	105.6	150	195	9.9	1.313	0.0518	53.3	3064	5633
VW	Car	Car	2008	28.9	19.2	27.4	23.1	3659	104.5	150	202	9.5	1.363	0.0545	53.3	3064	5575
VW	Car	Car	2009	31.0	20.6	28.7	24.6	3632	103.8	142	191	9.3	1.361	0.0522	57.7	3321	5998
VW	Car	Car	2010	33.1	21.9	30.4	26.1	3609	106.9	137	187	9.3	1.371	0.0513	61.3	3680	6594
VW	Car	Car	2011	33.5	23.0	31.7	27.3	3624	107.2	140	186	9.5	1.324	0.0505	62.2	3718	6677
VW	Car	Car	2012	33.1	21.9	31.5	26.5	3598	108.8	142	190	9.5	1.336	0.0521	60.8	3708	6625
VW	Car	Car	2013	33.1	22.6	31.3	26.9	3627	108.6	144	195	9.4	1.354	0.0530	61.4	3713	6679

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
VW	Car	Car	1975	77.5%		71.2%	2.8%			42.6%						100.0%		
VW	Car	Car	1976	84.8%		70.3%				34.6%						100.0%		
VW	Car	Car	1977	95.2%		79.5%				63.0%		7.3%				100.0%		
VW	Car	Car	1978	96.0%		72.4%				85.6%		13.3%				100.0%		
VW	Car	Car	1979	94.7%		78.4%				76.7%		23.3%				100.0%		
VW	Car	Car	1980	98.9%		83.8%				59.0%		37.3%				100.0%		
VW	Car	Car	1981	100.0%		85.0%				51.6%		48.4%				100.0%		
VW	Car	Car	1982	100.0%		77.7%				67.5%		29.4%				100.0%		
VW	Car	Car	1983	99.6%	0.4%	75.6%				80.4%		14.8%				100.0%		
VW	Car	Car	1984	98.8%	1.2%	64.4%				84.5%		11.3%				76.7%	23.3%	
VW	Car	Car	1985	98.4%	1.6%	62.8%				90.4%		9.6%				80.4%	19.6%	
VW	Car	Car	1986	96.7%	3.3%	62.3%				94.4%		5.6%	1.1%			81.6%	18.4%	
VW	Car	Car	1987	95.6%	4.3%	67.4%				100.0%			6.2%			88.5%	11.5%	
VW	Car	Car	1988	96.5%	3.3%	75.8%				100.0%			6.4%			96.0%	4.0%	
VW	Car	Car	1989	98.4%	1.1%	70.5%				97.3%	0.1%	2.6%	6.1%			91.4%	8.6%	
VW	Car	Car	1990	97.4%	2.3%	58.8%	11.5%			98.9%		1.1%	17.9%			78.5%	21.5%	
VW	Car	Car	1991	97.1%	2.7%	58.1%	19.0%			95.6%		4.4%	21.2%			76.2%	23.8%	
VW	Car	Car	1992	97.9%	2.1%	58.6%	21.0%			98.8%		1.2%	19.7%			70.1%	29.9%	
VW	Car	Car	1993	86.8%	12.8%	57.3%	40.5%			100.0%			4.0%			69.9%	30.1%	
VW	Car	Car	1994	88.9%	11.1%	52.2%	47.8%			100.0%			0.8%			99.1%	0.9%	0.0%
VW	Car	Car	1995	94.4%	5.6%	61.1%	38.9%			100.0%			1.1%			88.8%	11.2%	
VW	Car	Car	1996	90.0%	9.8%	56.9%	43.1%			96.8%		3.2%	0.0%			87.9%	12.1%	
VW	Car	Car	1997	86.3%	13.5%	57.9%	42.1%			97.8%		2.2%	6.6%			91.4%	8.6%	
VW	Car	Car	1998	81.0%	18.9%	53.5%	46.5%			94.6%		5.4%	33.1%	17.3%		80.3%	19.7%	
VW	Car	Car	1999	84.1%	15.7%	36.8%	63.2%			97.3%		2.7%	40.6%	20.0%		69.0%	31.0%	0.0%
VW	Car	Car	2000	84.8%	15.0%	45.1%	54.9%			94.6%		5.4%	42.4%	14.1%		75.5%	24.3%	0.2%
VW	Car	Car	2001	76.6%	23.2%	43.2%	56.8%			95.2%		4.8%	55.1%	24.1%		75.2%	24.4%	0.4%
VW	Car	Car	2002	80.4%	19.5%	28.4%	69.8%	1.8%		92.0%		8.0%	59.2%	9.1%		74.2%	25.6%	0.2%
VW	Car	Car	2003	83.0%	17.0%	31.9%	64.5%	3.6%		93.1%		6.9%	62.9%	12.4%		71.4%	28.4%	0.1%
VW	Car	Car	2004	72.4%	27.6%	26.3%	69.6%	4.0%		93.0%		7.0%	64.1%	13.9%		70.8%	26.1%	3.1%
VW	Car	Car	2005	71.7%	28.1%	19.7%	75.7%	4.6%		88.3%		11.7%	67.5%	15.8%		76.9%	21.3%	1.8%
VW	Car	Car	2006	80.8%	19.2%	18.0%	77.2%	4.8%		86.5%		13.5%	85.5%	44.2%		73.2%	25.6%	1.2%
VW	Car	Car	2007	79.0%	20.9%	20.6%	73.8%	5.5%		100.0%			100.0%	9.3%		79.8%	19.1%	1.1%
VW	Car	Car	2008	77.7%	22.2%	14.9%	79.9%	5.2%	47.5%	52.5%			99.9%	14.4%		81.6%	17.8%	0.6%
VW	Car	Car	2009	78.3%	21.6%	14.7%	82.7%	2.6%	46.5%	38.6%		14.9%	99.9%	14.0%		91.6%	7.8%	0.6%
VW	Car	Car	2010	82.4%	17.5%	15.0%	44.3%	3.5%	45.0%	33.2%		21.8%	100.0%	79.0%		92.3%	7.4%	0.2%
VW	Car	Car	2011	78.7%	21.3%	15.7%	80.1%	3.8%	36.7%	42.7%		20.7%	93.0%	69.7%		95.3%	3.4%	1.2%
VW	Car	Car	2012	82.9%	17.0%	14.0%	70.3%	1.6%	35.7%	46.6%		17.7%	94.2%	76.6%				
VW	Car	Car	2013	79.7%	20.2%	13.8%	84.0%	2.2%	37.2%	42.9%		19.9%	96.9%	77.1%	0.3%			

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
VW	Car	Car SUV	1975														
VW	Car	Car SUV	1976														
VW	Car	Car SUV	1977														
VW	Car	Car SUV	1978														
VW	Car	Car SUV	1979														
VW	Car	Car SUV	1980														
VW	Car	Car SUV	1981														
VW	Car	Car SUV	1982														
VW	Car	Car SUV	1983														
VW	Car	Car SUV	1984														
VW	Car	Car SUV	1985														
VW	Car	Car SUV	1986														
VW	Car	Car SUV	1987														
VW	Car	Car SUV	1988														
VW	Car	Car SUV	1989														
VW	Car	Car SUV	1990														
VW	Car	Car SUV	1991														
VW	Car	Car SUV	1992														
VW	Car	Car SUV	1993														
VW	Car	Car SUV	1994														
VW	Car	Car SUV	1995														
VW	Car	Car SUV	1996														
VW	Car	Car SUV	1997														
VW	Car	Car SUV	1998														
VW	Car	Car SUV	1999														
VW	Car	Car SUV	2000														
VW	Car	Car SUV	2001														
VW	Car	Car SUV	2002														
VW	Car	Car SUV	2003														
VW	Car	Car SUV	2004														
VW	Car	Car SUV	2005														
VW	Car	Car SUV	2006														
VW	Car	Car SUV	2007														
VW	Car	Car SUV	2008														
VW	Car	Car SUV	2009														
VW	Car	Car SUV	2010														
VW	Car	Car SUV	2011														
VW	Car	Car SUV	2012	30.8	21.3	26.6	24.0	4000		121	211	9.6	1.743	0.0528	61.7		
VW	Car	Car SUV	2013	31.1	21.5	26.7	24.2	4000		121	200	10.0	1.652	0.0500	62.2		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
VW	Car	Car SUV	1975															
VW	Car	Car SUV	1976															
VW	Car	Car SUV	1977															
VW	Car	Car SUV	1978															
VW	Car	Car SUV	1979															
VW	Car	Car SUV	1980															
VW	Car	Car SUV	1981															
VW	Car	Car SUV	1982															
VW	Car	Car SUV	1983															
VW	Car	Car SUV	1984															
VW	Car	Car SUV	1985															
VW	Car	Car SUV	1986															
VW	Car	Car SUV	1987															
VW	Car	Car SUV	1988															
VW	Car	Car SUV	1989															
VW	Car	Car SUV	1990															
VW	Car	Car SUV	1991															
VW	Car	Car SUV	1992															
VW	Car	Car SUV	1993															
VW	Car	Car SUV	1994															
VW	Car	Car SUV	1995															
VW	Car	Car SUV	1996															
VW	Car	Car SUV	1997															
VW	Car	Car SUV	1998															
VW	Car	Car SUV	1999															
VW	Car	Car SUV	2000															
VW	Car	Car SUV	2001															
VW	Car	Car SUV	2002															
VW	Car	Car SUV	2003															
VW	Car	Car SUV	2004															
VW	Car	Car SUV	2005															
VW	Car	Car SUV	2006															
VW	Car	Car SUV	2007															
VW	Car	Car SUV	2008															
VW	Car	Car SUV	2009															
VW	Car	Car SUV	2010															
VW	Car	Car SUV	2011															
VW	Car	Car SUV	2012	100.0%		3.3%	96.7%		100.0%				100.0%	100.0%				
VW	Car	Car SUV	2013	100.0%		1.5%	98.5%		100.0%				100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
VW	Car	All	1975	26.7	20.2	27.2	22.8	2360		93	67	15.7	0.722	0.0284	31.6		
VW	Car	All	1976	27.9	21.7	26.9	23.8	2326		98	72	14.6	0.739	0.0311	32.5		
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
VW	Car	All	2012	33.0	21.9	31.3	26.4	3612	108.8	141	191	9.5	1.350	0.0521	60.9	3708	6625
VW	Car	All	2013	33.0	22.6	31.1	26.8	3640	108.6	143	195	9.4	1.365	0.0529	61.5	3713	6679

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
VW	Car	All	1975	77.5%		71.2%	2.8%			42.6%						100.0%		
VW	Car	All	1976	84.8%		70.3%				34.6%						100.0%		
VW	Car	All	1977	95.2%		79.5%				63.0%		7.3%				100.0%		
VW	Car	All	1978	96.0%		72.4%				85.6%		13.3%				100.0%		
VW	Car	All	1979	94.7%		78.4%				76.7%		23.3%				100.0%		
VW	Car	All	1980	98.9%		83.8%				59.0%		37.3%				100.0%		
VW	Car	All	1981	100.0%		85.0%				51.6%		48.4%				100.0%		
VW	Car	All	1982	100.0%		77.7%				67.5%		29.4%				100.0%		
VW	Car	All	1983	99.6%	0.4%	75.6%				80.4%		14.8%				100.0%		
VW	Car	All	1984	98.8%	1.2%	64.4%				84.5%		11.3%				76.7%	23.3%	
VW	Car	All	1985	98.4%	1.6%	62.8%				90.4%		9.6%				80.4%	19.6%	
VW	Car	All	1986	96.7%	3.3%	62.3%				94.4%		5.6%	1.1%			81.6%	18.4%	
VW	Car	All	1987	95.6%	4.3%	67.4%				100.0%			6.2%			88.5%	11.5%	
VW	Car	All	1988	96.5%	3.3%	75.8%				100.0%			6.4%			96.0%	4.0%	
VW	Car	All	1989	98.4%	1.1%	70.5%				97.3%	0.1%	2.6%	6.1%			91.4%	8.6%	
VW	Car	All	1990	97.4%	2.3%	58.8%	11.5%			98.9%		1.1%	17.9%			78.5%	21.5%	
VW	Car	All	1991	97.1%	2.7%	58.1%	19.0%			95.6%		4.4%	21.2%			76.2%	23.8%	
VW	Car	All	1992	97.9%	2.1%	58.6%	21.0%			98.8%		1.2%	19.7%			70.1%	29.9%	
VW	Car	All	1993	86.8%	12.8%	57.3%	40.5%			100.0%			4.0%			69.9%	30.1%	
VW	Car	All	1994	88.9%	11.1%	52.2%	47.8%			100.0%			0.8%			99.1%	0.9%	0.0%
VW	Car	All	1995	94.4%	5.6%	61.1%	38.9%			100.0%			1.1%			88.8%	11.2%	
VW	Car	All	1996	90.0%	9.8%	56.9%	43.1%			96.8%		3.2%	0.0%			87.9%	12.1%	
VW	Car	All	1997	86.3%	13.5%	57.9%	42.1%			97.8%		2.2%	6.6%			91.4%	8.6%	
VW	Car	All	1998	81.0%	18.9%	53.5%	46.5%			94.6%		5.4%	33.1%	17.3%		80.3%	19.7%	
VW	Car	All	1999	84.1%	15.7%	36.8%	63.2%			97.3%		2.7%	40.6%	20.0%		69.0%	31.0%	0.0%
VW	Car	All	2000	84.8%	15.0%	45.1%	54.9%			94.6%		5.4%	42.4%	14.1%		75.5%	24.3%	0.2%
VW	Car	All	2001	76.6%	23.2%	43.2%	56.8%			95.2%		4.8%	55.1%	24.1%		75.2%	24.4%	0.4%
VW	Car	All	2002	80.4%	19.5%	28.4%	69.8%	1.8%		92.0%		8.0%	59.2%	9.1%		74.2%	25.6%	0.2%
VW	Car	All	2003	83.0%	17.0%	31.9%	64.5%	3.6%		93.1%		6.9%	62.9%	12.4%		71.4%	28.4%	0.1%
VW	Car	All	2004	72.4%	27.6%	26.3%	69.6%	4.0%		93.0%		7.0%	64.1%	13.9%		70.8%	26.1%	3.1%
VW	Car	All	2005	71.7%	28.1%	19.7%	75.7%	4.6%		88.3%		11.7%	67.5%	15.8%		76.9%	21.3%	1.8%
VW	Car	All	2006	80.8%	19.2%	18.0%	77.2%	4.8%		86.5%		13.5%	85.5%	44.2%		73.2%	25.6%	1.2%
VW	Car	All	2007	79.0%	20.9%	20.6%	73.8%	5.5%		100.0%			100.0%	9.3%		79.8%	19.1%	1.1%
VW	Car	All	2008	77.7%	22.2%	14.9%	79.9%	5.2%	47.5%	52.5%			99.9%	14.4%		81.6%	17.8%	0.6%
VW	Car	All	2009	78.3%	21.6%	14.7%	82.7%	2.6%	46.5%	38.6%		14.9%	99.9%	14.0%		91.6%	7.8%	0.6%
VW	Car	All	2010	82.4%	17.5%	15.0%	44.3%	3.5%	45.0%	33.2%		21.8%	100.0%	79.0%		92.3%	7.4%	0.2%
VW	Car	All	2011	78.7%	21.3%	15.7%	80.1%	3.8%	36.7%	42.7%		20.7%	93.0%	69.7%		95.3%	3.4%	1.2%
VW	Car	All	2012	83.6%	16.4%	13.7%	71.2%	1.6%	38.0%	44.9%		17.1%	94.4%	77.4%				
VW	Car	All	2013	80.5%	19.5%	13.4%	84.5%	2.1%	39.5%	41.3%		19.2%	97.0%	77.9%	0.3%			



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
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		
VW	Truck	Van	1990	20.8	16.7	17.8	17.3	4020		129	90	19.0	0.698	0.0224	41.9		
VW	Truck	Van	1991	20.9	16.5	18.3	17.3	4021		129	90	18.7	0.698	0.0224	42.1		
VW	Truck	Van	1992														
VW	Truck	Van	1993	21.0	16.0	19.0	17.4	4157		150	109	16.6	0.727	0.0263	43.7		
VW	Truck	Van	1994	20.1	15.1	18.6	16.6	4260		150	109	16.8	0.727	0.0257	42.8		
VW	Truck	Van	1995	19.6	14.8	17.5	16.1	5000		150	109	19.1	0.727	0.0218	48.9		
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		
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		
VW	Truck	Van	2000	19.0	13.3	18.2	15.6	5116		170	140	16.1	0.824	0.0276	48.5		
VW	Truck	Van	2001	20.7	14.8	18.7	16.7	4850		170	201	11.6	1.182	0.0418	50.0		
VW	Truck	Van	2002	20.9	14.9	18.6	16.8	4638		170	201	11.2	1.182	0.0435	48.3		
VW	Truck	Van	2003	20.9	14.8	18.5	16.7	4564		170	201	11.0	1.182	0.0441	47.6		
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	Van	2013														

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		18.1%	53.9%				100.0%						100.0%		
VW	Truck	Van	1988			56.0%				100.0%						100.0%		
VW	Truck	Van	1989		8.5%	51.3%				100.0%						100.0%		
VW	Truck	Van	1990		51.7%	47.4%				100.0%						100.0%		
VW	Truck	Van	1991		6.8%	44.4%				100.0%						100.0%		
VW	Truck	Van	1992															
VW	Truck	Van	1993	100.0%		35.7%	64.3%			100.0%							100.0%	
VW	Truck	Van	1994	100.0%		48.0%	52.0%			100.0%							100.0%	
VW	Truck	Van	1995	100.0%		43.8%	56.2%			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%				100.0%	
VW	Truck	Van	2002	100.0%			100.0%			100.0%			100.0%				86.2%	13.8%
VW	Truck	Van	2003	100.0%			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	Van	2013															

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	19.0	13.0	18.0	15.4	5508		223	262	10.6	1.166	0.0475	52.4		
VW	Truck	Truck SUV	2005	19.8	13.6	18.5	16.0	5500		217	264	10.3	1.215	0.0480	54.8		
VW	Truck	Truck SUV	2006	20.0	13.7	18.7	16.2	5527		219	263	10.3	1.206	0.0476	55.7		
VW	Truck	Truck SUV	2007	19.5	13.5	17.9	15.7	5568		231	300	9.3	1.295	0.0539	54.5		
VW	Truck	Truck SUV	2008	20.2	13.7	19.0	16.3	5572		227	295	9.5	1.298	0.0528	56.4		
VW	Truck	Truck SUV	2009	24.5	16.8	22.2	19.5	4538		165	239	9.6	1.497	0.0526	55.4		
VW	Truck	Truck SUV	2010	25.2	17.4	22.6	20.0	4551		169	241	9.2	1.461	0.0533	57.4		
VW	Truck	Truck SUV	2011	27.1	18.7	24.8	21.7	4538		147	229	9.6	1.593	0.0506	61.5		
VW	Truck	Truck SUV	2012	27.4	18.7	25.1	21.9	4674		156	240	9.6	1.579	0.0515	64.0		
VW	Truck	Truck SUV	2013	28.0	19.2	26.6	22.9	4592		144	236	9.6	1.666	0.0513	64.3		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		100.0%		100.0%			98.4%		1.6%	98.4%	98.4%				100.0%
VW	Truck	Truck SUV	2005		100.0%		100.0%			100.0%			100.0%	100.0%				100.0%
VW	Truck	Truck SUV	2006		100.0%		100.0%			94.5%		5.5%	94.5%	94.5%				100.0%
VW	Truck	Truck SUV	2007		100.0%		100.0%			98.7%		1.3%	98.7%	66.6%				100.0%
VW	Truck	Truck SUV	2008		100.0%		100.0%		99.4%			0.6%	99.4%	99.4%				100.0%
VW	Truck	Truck SUV	2009	31.8%	68.2%	1.2%	98.8%		100.0%				100.0%	100.0%			51.6%	48.4%
VW	Truck	Truck SUV	2010	21.1%	78.9%	0.8%	62.0%		90.8%			9.2%	100.0%	94.7%			38.0%	62.0%
VW	Truck	Truck SUV	2011	19.5%	80.5%	0.5%	99.5%		89.6%			10.4%	100.0%	100.0%	0.6%		39.8%	60.2%
VW	Truck	Truck SUV	2012		100.0%		100.0%		86.2%			13.8%	100.0%	86.2%	0.5%			
VW	Truck	Truck SUV	2013		100.0%		100.0%		89.7%			10.3%	100.0%	89.7%	1.6%			

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
VW	Truck	Pickup	1981	36.9	29.1	34.8	31.4	2318		99	59	16.9	0.592	0.0253	43.6		
VW	Truck	Pickup	1982	39.2	31.8	35.4	33.3	2310		99	58	17.1	0.584	0.0250	46.2		
VW	Truck	Pickup	1983	35.7	28.3	33.3	30.3	2379		101	65	16.1	0.640	0.0272	43.5		
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														
VW	Truck	Pickup	2013														

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
VW	Truck	Pickup	1975															
VW	Truck	Pickup	1976															
VW	Truck	Pickup	1977															
VW	Truck	Pickup	1978															
VW	Truck	Pickup	1979															
VW	Truck	Pickup	1980	100.0%		94.0%					57.3%	42.7%				100.0%		
VW	Truck	Pickup	1981	100.0%		100.0%					27.2%	72.8%				100.0%		
VW	Truck	Pickup	1982	100.0%		100.0%					23.9%	76.1%				100.0%		
VW	Truck	Pickup	1983	100.0%		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															
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	Truck	Pickup	2013															



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
VW	Truck	All	1981	29.5	23.3	27.8	25.1	2652		104	61	18.1	0.584	0.0236	41.2		
VW	Truck	All	1982	27.8	22.6	24.9	23.6	3002		105	60	20.3	0.567	0.0208	44.1		
VW	Truck	All	1983	20.3	16.1	19.0	17.3	3488		117	69	20.5	0.591	0.0201	36.2		
VW	Truck	All	1984	20.7	16.6	18.9	17.6	3627		117	82	18.4	0.701	0.0227	37.5		
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		
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		
VW	Truck	All	1990	20.8	16.7	17.8	17.3	4020		129	90	19.0	0.698	0.0224	41.9		
VW	Truck	All	1991	20.9	16.5	18.3	17.3	4021		129	90	18.7	0.698	0.0224	42.1		
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		
VW	Truck	All	1994	20.1	15.1	18.6	16.6	4260		150	109	16.8	0.727	0.0257	42.8		
VW	Truck	All	1995	19.6	14.8	17.5	16.1	5000		150	109	19.1	0.727	0.0218	48.9		
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		
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		
VW	Truck	All	2000	19.0	13.3	18.2	15.6	5116		170	140	16.1	0.824	0.0276	48.5		
VW	Truck	All	2001	20.7	14.8	18.7	16.7	4850		170	201	11.6	1.182	0.0418	50.0		
VW	Truck	All	2002	20.9	14.9	18.6	16.8	4638		170	201	11.2	1.182	0.0435	48.3		
VW	Truck	All	2003	20.9	14.8	18.5	16.7	4564		170	201	11.0	1.182	0.0441	47.6		
VW	Truck	All	2004	19.0	13.0	18.0	15.4	5508		223	262	10.6	1.166	0.0475	52.4		
VW	Truck	All	2005	19.8	13.6	18.5	16.0	5500		217	264	10.3	1.215	0.0480	54.8		
VW	Truck	All	2006	20.0	13.7	18.7	16.2	5527		219	263	10.3	1.206	0.0476	55.7		
VW	Truck	All	2007	19.5	13.5	17.9	15.7	5568		231	300	9.3	1.295	0.0539	54.5		
VW	Truck	All	2008	20.2	13.7	19.0	16.3	5572		227	295	9.5	1.298	0.0528	56.4		
VW	Truck	All	2009	24.5	16.8	22.2	19.5	4538		165	239	9.6	1.497	0.0526	55.4		
VW	Truck	All	2010	25.2	17.4	22.6	20.0	4551		169	241	9.2	1.461	0.0533	57.4		
VW	Truck	All	2011	27.1	18.7	24.8	21.7	4538		147	229	9.6	1.593	0.0506	61.5		
VW	Truck	All	2012	27.4	18.7	25.1	21.9	4674		156	240	9.6	1.579	0.0515	64.0		
VW	Truck	All	2013	28.0	19.2	26.6	22.9	4592		144	236	9.6	1.666	0.0513	64.3		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	62.7%		89.9%					73.2%	26.8%				100.0%		
VW	Truck	All	1981	74.8%		95.3%					45.5%	54.5%				100.0%		
VW	Truck	All	1982	49.0%		94.4%					43.2%	56.8%				100.0%		
VW	Truck	All	1983	11.0%		81.2%					92.6%	7.4%				100.0%		
VW	Truck	All	1984			74.3%					100.0%					100.0%		
VW	Truck	All	1985			71.6%					100.0%					100.0%		
VW	Truck	All	1986			69.8%				100.0%						100.0%		
VW	Truck	All	1987		18.1%	53.9%				100.0%						100.0%		
VW	Truck	All	1988			56.0%				100.0%						100.0%		
VW	Truck	All	1989		8.5%	51.3%				100.0%						100.0%		
VW	Truck	All	1990		51.7%	47.4%				100.0%						100.0%		
VW	Truck	All	1991		6.8%	44.4%				100.0%						100.0%		
VW	Truck	All	1992															
VW	Truck	All	1993	100.0%		35.7%	64.3%			100.0%							100.0%	
VW	Truck	All	1994	100.0%		48.0%	52.0%			100.0%							100.0%	
VW	Truck	All	1995	100.0%		43.8%	56.2%			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%				100.0%	
VW	Truck	All	2002	100.0%			100.0%			100.0%			100.0%				86.2%	13.8%
VW	Truck	All	2003	100.0%			100.0%			100.0%			100.0%				6.4%	93.6%
VW	Truck	All	2004		100.0%		100.0%			98.4%		1.6%	98.4%	98.4%				100.0%
VW	Truck	All	2005		100.0%		100.0%			100.0%			100.0%	100.0%				100.0%
VW	Truck	All	2006		100.0%		100.0%			94.5%		5.5%	94.5%	94.5%				100.0%
VW	Truck	All	2007		100.0%		100.0%			98.7%		1.3%	98.7%	66.6%				100.0%
VW	Truck	All	2008		100.0%		100.0%		99.4%			0.6%	99.4%	99.4%				100.0%
VW	Truck	All	2009	31.8%	68.2%	1.2%	98.8%		100.0%				100.0%	100.0%			51.6%	48.4%
VW	Truck	All	2010	21.1%	78.9%	0.8%	62.0%		90.8%			9.2%	100.0%	94.7%			38.0%	62.0%
VW	Truck	All	2011	19.5%	80.5%	0.5%	99.5%		89.6%			10.4%	100.0%	100.0%	0.6%		39.8%	60.2%
VW	Truck	All	2012		100.0%		100.0%		86.2%			13.8%	100.0%	86.2%	0.5%			
VW	Truck	All	2013		100.0%		100.0%		89.7%			10.3%	100.0%	89.7%	1.6%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
VW	All	All	1975	26.7	20.2	27.2	22.8	2364		93	67	15.7	0.721	0.0284	31.6		
VW	All	All	1976	27.8	21.7	26.9	23.7	2333		98	72	14.6	0.737	0.0310	32.6		
VW	All	All	1977	29.7	22.8	29.3	25.3	2329	95.9	97	72	14.6	0.738	0.0309	35.1	2910	3371
VW	All	All	1978	27.7	21.4	27.2	23.7	2381	96.0	95	71	15.1	0.753	0.0299	34.1	2787	3271
VW	All	All	1979	28.7	22.2	28.0	24.5	2403	94.5	96	69	15.7	0.718	0.0287	36.0	2930	3416
VW	All	All	1980	30.9	23.9	30.3	26.4	2402	90.8	98	67	16.0	0.682	0.0281	39.1	3049	3585
VW	All	All	1981	34.0	26.3	33.0	28.9	2421	90.9	104	66	16.3	0.626	0.0272	43.3	3350	3953
VW	All	All	1982	32.9	26.0	31.0	28.0	2514	93.8	105	69	16.1	0.654	0.0278	43.5	3338	4051
VW	All	All	1983	29.7	23.3	28.2	25.3	2557	95.2	110	79	14.7	0.715	0.0315	39.3	3106	3777
VW	All	All	1984	28.0	22.0	26.6	23.9	2671	98.6	114	86	14.2	0.748	0.0324	38.6	2967	3795
VW	All	All	1985	29.0	22.7	27.8	24.7	2724	104.4	115	92	13.7	0.797	0.0339	40.7	3245	4260
VW	All	All	1986	28.9	22.5	27.6	24.5	2691	104.1	116	96	13.2	0.823	0.0356	39.8	3161	4150
VW	All	All	1987	28.1	21.9	26.3	23.7	2744	101.8	115	99	13.0	0.856	0.0362	39.0	3008	3988
VW	All	All	1988	29.9	23.0	28.2	25.2	2683	97.9	113	97	12.9	0.857	0.0361	40.4	2984	3965
VW	All	All	1989	29.7	22.6	28.1	24.9	2759	99.0	114	99	13.1	0.869	0.0359	41.4	3026	4111
VW	All	All	1990	28.2	21.3	26.9	23.6	2955	101.3	118	112	12.7	0.946	0.0378	41.9	2956	4257
VW	All	All	1991	29.1	21.5	28.0	24.2	2957	103.7	116	106	13.3	0.907	0.0358	43.4	3123	4515
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
VW	All	All	1993	25.7	18.7	25.0	21.4	3269	100.7	144	132	12.3	0.905	0.0402	42.0	2723	4207
VW	All	All	1994	28.0	20.2	27.2	23.2	3091	103.5	131	128	11.7	0.968	0.0411	43.4	2933	4499
VW	All	All	1995	28.4	20.4	27.2	23.4	3127	104.0	134	131	11.6	0.971	0.0417	44.6	3000	4627
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
VW	All	All	1997	28.4	20.0	27.3	23.3	3166	103.6	134	132	11.6	0.984	0.0417	45.4	3006	4708
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
VW	All	All	1999	28.2	19.5	27.2	23.0	3269	104.6	131	141	11.4	1.076	0.0426	46.5	3000	4874
VW	All	All	2000	28.4	19.7	26.8	23.0	3268	103.8	133	147	11.2	1.109	0.0444	47.2	3023	4890
VW	All	All	2001	28.0	19.2	26.5	22.6	3343	102.9	133	158	10.8	1.196	0.0467	47.5	2952	4878
VW	All	All	2002	28.9	19.6	27.2	23.2	3416	104.9	129	159	11.0	1.253	0.0461	50.2	3120	5275
VW	All	All	2003	29.2	19.8	27.4	23.4	3455	105.3	129	160	11.0	1.262	0.0459	51.3	3170	5424
VW	All	All	2004	27.0	18.2	25.4	21.7	3753	104.7	144	181	10.8	1.269	0.0475	51.3	3064	5370
VW	All	All	2005	27.8	18.5	26.2	22.2	3753	104.6	148	181	10.8	1.222	0.0471	53.0	3102	5556
VW	All	All	2006	29.4	19.5	27.6	23.4	3705	105.1	148	186	10.5	1.269	0.0495	55.7	3249	5861
VW	All	All	2007	27.4	18.2	25.9	21.9	3878	105.6	158	205	9.8	1.311	0.0520	53.4	3064	5633
VW	All	All	2008	27.9	18.6	26.4	22.3	3817	104.5	156	209	9.5	1.358	0.0543	53.5	3064	5575
VW	All	All	2009	30.0	20.0	27.7	23.8	3747	103.8	145	197	9.3	1.378	0.0523	57.4	3321	5998
VW	All	All	2010	31.7	21.1	29.0	25.0	3745	106.9	142	194	9.3	1.384	0.0515	60.7	3680	6594
VW	All	All	2011	32.1	22.0	30.1	26.0	3802	107.2	142	194	9.5	1.376	0.0505	62.1	3718	6677
VW	All	All	2012	32.3	21.5	30.4	25.8	3734	108.8	143	196	9.5	1.377	0.0520	61.2	3708	6625
VW	All	All	2013	32.3	22.1	30.5	26.2	3765	108.6	143	201	9.4	1.404	0.0527	61.8	3713	6679

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
VW	All	All	1975	77.3%		71.2%	2.8%			42.5%	0.3%					100.0%		
VW	All	All	1976	84.3%		70.4%				34.4%	0.7%					100.0%		
VW	All	All	1977	94.5%		79.6%				62.6%	0.7%	7.2%				100.0%		
VW	All	All	1978	95.1%		72.6%				84.8%	1.0%	13.2%				100.0%		
VW	All	All	1979	90.8%		78.5%				73.5%	4.2%	22.3%				100.0%		
VW	All	All	1980	95.5%		84.3%				53.4%	6.9%	36.3%				100.0%		
VW	All	All	1981	96.5%		86.4%				44.4%	6.3%	49.3%				100.0%		
VW	All	All	1982	93.8%		79.7%				59.3%	5.2%	32.7%				100.0%		
VW	All	All	1983	90.1%	0.4%	76.2%				71.9%	9.8%	14.1%				100.0%		
VW	All	All	1984	91.0%	1.1%	65.2%				77.9%	7.8%	10.4%				78.5%	21.5%	
VW	All	All	1985	91.6%	1.5%	63.4%				84.1%	6.9%	8.9%				81.7%	18.3%	
VW	All	All	1986	93.3%	3.2%	62.6%				94.6%		5.4%	1.1%			82.2%	17.8%	
VW	All	All	1987	91.0%	5.0%	66.7%				100.0%			5.9%			89.1%	10.9%	
VW	All	All	1988	94.7%	3.3%	75.4%				100.0%			6.3%			96.0%	4.0%	
VW	All	All	1989	96.0%	1.3%	70.0%				97.3%	0.1%	2.5%	5.9%			91.7%	8.3%	
VW	All	All	1990	92.7%	4.7%	58.3%	10.9%			98.9%		1.1%	17.1%			79.5%	20.5%	
VW	All	All	1991	93.1%	2.8%	57.5%	18.2%			95.8%		4.2%	20.3%			77.1%	22.9%	
VW	All	All	1992	97.9%	2.1%	58.6%	21.0%			98.8%		1.2%	19.7%			70.1%	29.9%	
VW	All	All	1993	88.8%	10.9%	54.1%	44.0%			100.0%			3.4%			59.5%	40.5%	
VW	All	All	1994	89.0%	11.0%	52.2%	47.8%			100.0%			0.8%			98.7%	1.3%	0.0%
VW	All	All	1995	94.5%	5.5%	60.9%	39.1%			100.0%			1.0%			87.6%	11.1%	1.3%
VW	All	All	1996	90.0%	9.8%	56.9%	43.1%			96.8%		3.2%	0.0%			87.9%	12.1%	
VW	All	All	1997	86.4%	13.4%	57.4%	42.6%			97.8%		2.2%	6.5%			90.5%	8.5%	1.0%
VW	All	All	1998	81.0%	18.9%	53.5%	46.5%			94.6%		5.4%	33.1%	17.3%		80.3%	19.7%	
VW	All	All	1999	84.2%	15.6%	36.5%	63.5%			97.4%		2.6%	40.3%	19.8%		68.5%	31.2%	0.3%
VW	All	All	2000	84.9%	14.9%	44.8%	55.2%			94.6%		5.4%	42.1%	14.0%		75.0%	24.4%	0.6%
VW	All	All	2001	76.8%	23.0%	42.9%	57.1%			95.2%		4.8%	55.4%	23.9%		74.6%	25.0%	0.4%
VW	All	All	2002	80.7%	19.2%	28.0%	70.2%	1.8%		92.1%		7.9%	59.8%	9.0%		73.2%	26.4%	0.3%
VW	All	All	2003	83.2%	16.8%	31.5%	64.9%	3.6%		93.1%		6.9%	63.3%	12.2%		70.7%	28.2%	1.2%
VW	All	All	2004	64.4%	35.6%	23.4%	73.0%	3.6%		93.6%		6.4%	67.9%	23.2%		63.0%	23.2%	13.8%
VW	All	All	2005	66.6%	33.3%	18.3%	77.5%	4.2%		89.2%		10.8%	69.8%	21.8%		71.3%	19.8%	8.9%
VW	All	All	2006	77.9%	22.0%	17.4%	78.0%	4.6%		86.8%		13.2%	85.8%	46.0%		70.6%	24.7%	4.7%
VW	All	All	2007	71.4%	28.5%	18.6%	76.3%	5.0%		99.9%		0.1%	99.9%	14.8%		72.2%	17.2%	10.6%
VW	All	All	2008	71.3%	28.6%	13.7%	81.6%	4.8%	51.8%	48.1%		0.0%	99.9%	21.4%		74.8%	16.4%	8.8%
VW	All	All	2009	72.4%	27.5%	13.0%	84.7%	2.3%	53.3%	33.7%		13.0%	99.9%	24.9%		80.0%	13.4%	6.6%
VW	All	All	2010	73.6%	26.4%	12.9%	46.8%	3.0%	51.6%	28.4%		20.0%	100.0%	81.2%		79.1%	11.8%	9.1%
VW	All	All	2011	67.1%	32.8%	12.7%	83.9%	3.1%	47.0%	34.4%		18.7%	94.4%	75.6%	0.1%	76.8%	10.5%	12.7%
VW	All	All	2012	74.0%	26.0%	12.1%	74.5%	1.4%	43.6%	39.8%		16.7%	95.1%	78.4%	0.1%			
VW	All	All	2013	70.0%	30.0%	11.6%	86.5%	1.9%	46.1%	35.9%		18.0%	97.4%	79.5%	0.5%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	23.4	29.5	26.1	2750	103.9	98	82	15.1	0.837	0.0298	43.6	3293	4527
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
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
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
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
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
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
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
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
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
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
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
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
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
Kia	Car	Car	2007	33.0	21.9	30.4	26.0	3215	117.9	131	146	10.9	1.114	0.0450	53.0	3901	6248
Kia	Car	Car	2008	33.3	22.1	30.6	26.2	3224	117.4	130	146	10.9	1.115	0.0448	53.6	3920	6299
Kia	Car	Car	2009	34.8	23.2	31.5	27.3	3114	115.5	124	142	10.8	1.143	0.0452	54.2	4026	6258
Kia	Car	Car	2010	36.1	24.2	32.0	28.1	3040	114.9	124	151	10.1	1.211	0.0494	54.9	4152	6302
Kia	Car	Car	2011	N/A	24.5	32.5	28.5	3124	118.8	125	162	9.9	1.283	0.0513	N/A	N/A	N/A
Kia	Car	Car	2012	N/A	24.6	32.7	28.7	3157	117.6	124	174	9.4	1.408	0.0548	N/A	N/A	N/A
Kia	Car	Car	2013	N/A	24.4	32.8	28.6	3204	117.0	127	177	9.4	1.395	0.0548	N/A	N/A	N/A

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	100.0%			100.0%			100.0%			100.0%			100.0%		
Kia	Car	Car	1994	100.0%		48.1%	51.9%			100.0%			100.0%			100.0%		
Kia	Car	Car	1995	100.0%		35.8%	64.2%			100.0%			100.0%			100.0%		
Kia	Car	Car	1996	100.0%		29.3%	70.7%			100.0%			100.0%			100.0%		
Kia	Car	Car	1997	100.0%		34.6%	65.4%			100.0%			100.0%			100.0%		
Kia	Car	Car	1998	100.0%		23.1%	76.9%			100.0%			100.0%			100.0%		
Kia	Car	Car	1999	100.0%		25.5%	74.5%			100.0%			100.0%			100.0%		
Kia	Car	Car	2000	100.0%		26.1%	73.9%			100.0%			100.0%			100.0%		
Kia	Car	Car	2001	100.0%		24.3%	75.7%			100.0%			100.0%			84.2%	15.8%	
Kia	Car	Car	2002	100.0%		20.0%	80.0%			100.0%			100.0%			82.4%	17.6%	
Kia	Car	Car	2003	100.0%		19.9%	80.1%			100.0%			100.0%			83.2%	16.8%	
Kia	Car	Car	2004	100.0%		13.3%	86.7%			100.0%			100.0%	40.1%		31.2%	57.3%	11.5%
Kia	Car	Car	2005	100.0%		12.2%	87.8%			100.0%			100.0%	59.4%		19.7%	63.2%	17.1%
Kia	Car	Car	2006	100.0%		12.9%	87.1%			100.0%			100.0%	95.1%		20.4%	74.7%	4.9%
Kia	Car	Car	2007	100.0%		7.0%	93.0%			100.0%			100.0%	18.7%		18.7%	78.7%	2.6%
Kia	Car	Car	2008	100.0%		9.2%	90.8%			100.0%			100.0%			20.7%	77.3%	2.0%
Kia	Car	Car	2009	100.0%		6.8%	93.2%			100.0%			100.0%	38.8%		26.4%	73.0%	0.6%
Kia	Car	Car	2010	100.0%		9.2%	90.8%			100.0%			100.0%	100.0%		87.8%	12.2%	
Kia	Car	Car	2011	100.0%		7.7%	90.9%		26.3%	73.7%			100.0%	100.0%	1.4%	53.2%	46.8%	
Kia	Car	Car	2012	100.0%		5.1%	91.4%		53.1%	46.9%			100.0%	100.0%	3.5%			
Kia	Car	Car	2013	100.0%		9.4%	89.5%		67.7%	32.3%			100.0%	100.0%	1.1%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Kia	Car	Car SUV	1975														
Kia	Car	Car SUV	1976														
Kia	Car	Car SUV	1977														
Kia	Car	Car SUV	1978														
Kia	Car	Car SUV	1979														
Kia	Car	Car SUV	1980														
Kia	Car	Car SUV	1981														
Kia	Car	Car SUV	1982														
Kia	Car	Car SUV	1983														
Kia	Car	Car SUV	1984														
Kia	Car	Car SUV	1985														
Kia	Car	Car SUV	1986														
Kia	Car	Car SUV	1987														
Kia	Car	Car SUV	1988														
Kia	Car	Car SUV	1989														
Kia	Car	Car SUV	1990														
Kia	Car	Car SUV	1991														
Kia	Car	Car SUV	1992														
Kia	Car	Car SUV	1993														
Kia	Car	Car SUV	1994														
Kia	Car	Car SUV	1995	25.6	18.8	23.5	21.0	3500		122	94	16.0	0.770	0.0269	44.7		
Kia	Car	Car SUV	1996	24.9	18.4	22.4	20.3	3500		122	130	12.4	1.066	0.0371	43.5		
Kia	Car	Car SUV	1997	23.3	17.5	20.4	18.9	3500		122	130	12.6	1.066	0.0371	40.8		
Kia	Car	Car SUV	1998	24.4	17.9	21.7	19.7	3500		122	130	12.6	1.066	0.0371	42.7		
Kia	Car	Car SUV	1999	24.4	17.8	21.6	19.7	3500		122	130	12.6	1.066	0.0371	42.7		
Kia	Car	Car SUV	2000	23.3	17.1	20.4	18.7	3500		122	130	12.6	1.066	0.0371	40.9		
Kia	Car	Car SUV	2001	22.9	16.6	20.1	18.4	3500		122	130	12.6	1.066	0.0371	40.1		
Kia	Car	Car SUV	2002	23.1	16.7	20.2	18.4	3500		122	130	12.6	1.066	0.0371	40.5		
Kia	Car	Car SUV	2003														
Kia	Car	Car SUV	2004														
Kia	Car	Car SUV	2005	26.2	17.9	23.7	20.8	3851		150	163	11.4	1.097	0.0423	50.4		
Kia	Car	Car SUV	2006	26.4	18.0	23.8	20.9	3815		146	161	11.4	1.104	0.0420	50.3		
Kia	Car	Car SUV	2007	25.2	17.2	22.9	20.0	3963		169	191	10.6	1.136	0.0474	49.9		
Kia	Car	Car SUV	2008	25.1	17.1	23.0	20.0	4050		168	197	10.5	1.170	0.0478	50.7		
Kia	Car	Car SUV	2009	26.1	18.0	23.1	20.6	3989		168	196	10.5	1.164	0.0482	51.9		
Kia	Car	Car SUV	2010	28.7	20.0	24.6	22.4	3543		126	143	11.8	1.140	0.0403	50.8		
Kia	Car	Car SUV	2011	N/A	20.5	27.9	24.2	3923		163	202	10.0	1.233	0.0514	N/A		
Kia	Car	Car SUV	2012	N/A	20.3	27.8	24.0	3974		166	211	9.8	1.270	0.0528	N/A		
Kia	Car	Car SUV	2013	N/A	20.4	27.9	24.1	3957		162	207	9.9	1.278	0.0521	N/A		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Kia	Car	Car SUV	1975															
Kia	Car	Car SUV	1976															
Kia	Car	Car SUV	1977															
Kia	Car	Car SUV	1978															
Kia	Car	Car SUV	1979															
Kia	Car	Car SUV	1980															
Kia	Car	Car SUV	1981															
Kia	Car	Car SUV	1982															
Kia	Car	Car SUV	1983															
Kia	Car	Car SUV	1984															
Kia	Car	Car SUV	1985															
Kia	Car	Car SUV	1986															
Kia	Car	Car SUV	1987															
Kia	Car	Car SUV	1988															
Kia	Car	Car SUV	1989															
Kia	Car	Car SUV	1990															
Kia	Car	Car SUV	1991															
Kia	Car	Car SUV	1992															
Kia	Car	Car SUV	1993															
Kia	Car	Car SUV	1994															
Kia	Car	Car SUV	1995	100.0%		100.0%				100.0%							100.0%	
Kia	Car	Car SUV	1996			100.0%				100.0%			100.0%				100.0%	
Kia	Car	Car SUV	1997			33.8%	66.2%			100.0%			100.0%				100.0%	
Kia	Car	Car SUV	1998			28.7%	71.3%			100.0%			100.0%				100.0%	
Kia	Car	Car SUV	1999			20.2%	79.8%			100.0%			100.0%			100.0%		
Kia	Car	Car SUV	2000			18.4%	81.6%			100.0%			100.0%			100.0%		
Kia	Car	Car SUV	2001			17.0%	83.0%			100.0%			100.0%			100.0%		
Kia	Car	Car SUV	2002			19.2%	80.8%			100.0%			100.0%			100.0%		
Kia	Car	Car SUV	2003															
Kia	Car	Car SUV	2004															
Kia	Car	Car SUV	2005	100.0%		7.7%	92.3%			100.0%			100.0%				100.0%	
Kia	Car	Car SUV	2006	100.0%		8.4%	91.6%			100.0%			100.0%	37.0%			100.0%	
Kia	Car	Car SUV	2007	63.0%		4.4%	95.6%			100.0%			100.0%	44.4%			100.0%	
Kia	Car	Car SUV	2008	49.7%		2.2%	97.8%			100.0%			100.0%	92.6%			100.0%	
Kia	Car	Car SUV	2009	58.7%		3.0%	97.0%			100.0%			100.0%	63.4%			77.9%	22.1%
Kia	Car	Car SUV	2010	99.7%		3.4%	96.6%			100.0%			100.0%	91.9%			99.7%	0.3%
Kia	Car	Car SUV	2011	96.1%	3.9%	2.3%	97.7%		1.1%	98.9%			100.0%	100.0%			100.0%	0.0%
Kia	Car	Car SUV	2012	73.8%	26.2%	0.5%	99.5%		36.2%	63.8%			100.0%	100.0%				
Kia	Car	Car SUV	2013	67.9%	32.1%	0.9%	99.1%		45.9%	54.1%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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
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
Kia	Car	All	1995	30.9	22.2	29.3	25.4	2761	101.3	102	99	13.1	0.967	0.0358	42.8	3147	4328
Kia	Car	All	1996	28.6	20.5	26.9	23.4	2798	103.9	112	122	11.1	1.087	0.0436	40.1	3010	4139
Kia	Car	All	1997	29.1	20.9	27.1	23.7	2882	103.9	113	122	11.3	1.084	0.0428	42.1	3202	4403
Kia	Car	All	1998	29.5	20.8	27.9	24.0	2864	104.4	111	126	11.0	1.134	0.0442	42.3	3204	4405
Kia	Car	All	1999	29.3	20.5	27.5	23.7	2889	104.4	111	126	11.1	1.132	0.0439	42.3	3207	4409
Kia	Car	All	2000	27.9	19.4	26.2	22.6	2932	104.9	112	126	11.2	1.127	0.0434	40.9	3123	4293
Kia	Car	All	2001	28.9	20.1	26.5	23.2	2885	105.1	110	120	11.6	1.085	0.0415	41.7	3193	4412
Kia	Car	All	2002	28.4	19.7	25.9	22.7	3064	108.0	112	121	12.1	1.084	0.0392	43.6	3200	4764
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
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
Kia	Car	All	2005	28.9	19.1	27.3	23.0	3300	112.7	140	144	11.2	1.047	0.0434	47.6	3329	5341
Kia	Car	All	2006	31.4	20.8	29.2	24.9	3229	112.8	131	143	11.1	1.093	0.0440	50.9	3697	5752
Kia	Car	All	2007	30.7	20.6	28.2	24.3	3390	117.9	140	156	10.8	1.119	0.0456	52.3	3901	6248
Kia	Car	All	2008	30.9	20.6	28.3	24.4	3420	117.4	139	158	10.8	1.128	0.0455	52.9	3920	6299
Kia	Car	All	2009	32.6	21.9	29.3	25.6	3292	115.5	133	153	10.8	1.147	0.0458	53.8	4026	6258
Kia	Car	All	2010	35.8	24.1	31.7	27.9	3054	114.9	124	150	10.1	1.209	0.0492	54.8	4152	6302
Kia	Car	All	2011	N/A	22.8	30.6	26.7	3428	118.8	140	177	9.9	1.264	0.0513	N/A	N/A	N/A
Kia	Car	All	2012	N/A	23.1	31.0	27.1	3406	117.6	137	185	9.5	1.366	0.0542	N/A	N/A	N/A
Kia	Car	All	2013	N/A	23.3	31.6	27.4	3376	117.0	135	184	9.5	1.369	0.0542	N/A	N/A	N/A

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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%			100.0%		
Kia	Car	All	1994	100.0%		48.1%	51.9%			100.0%			100.0%			100.0%		
Kia	Car	All	1995	100.0%		36.8%	63.2%			100.0%			98.5%			98.5%	1.5%	
Kia	Car	All	1996	93.6%		33.8%	66.2%			100.0%			100.0%			93.6%	6.4%	
Kia	Car	All	1997	82.4%		34.5%	65.5%			100.0%			100.0%			82.4%	17.6%	
Kia	Car	All	1998	84.8%		24.0%	76.0%			100.0%			100.0%			84.8%	15.2%	
Kia	Car	All	1999	81.4%		24.5%	75.5%			100.0%			100.0%			100.0%		
Kia	Car	All	2000	75.8%		24.3%	75.7%			100.0%			100.0%			100.0%		
Kia	Car	All	2001	85.1%		23.2%	76.8%			100.0%			100.0%			86.6%	13.4%	
Kia	Car	All	2002	86.5%		19.9%	80.1%			100.0%			100.0%			84.8%	15.2%	
Kia	Car	All	2003	100.0%		19.9%	80.1%			100.0%			100.0%			83.2%	16.8%	
Kia	Car	All	2004	100.0%		13.3%	86.7%			100.0%			100.0%	40.1%		31.2%	57.3%	11.5%
Kia	Car	All	2005	100.0%		11.8%	88.2%			100.0%			100.0%	53.5%		17.8%	66.8%	15.4%
Kia	Car	All	2006	100.0%		12.3%	87.7%			100.0%			100.0%	87.1%		17.6%	78.3%	4.2%
Kia	Car	All	2007	91.3%		6.4%	93.6%			100.0%			100.0%	24.8%		14.3%	83.7%	2.0%
Kia	Car	All	2008	88.1%		7.5%	92.5%			100.0%			100.0%	22.0%		15.8%	82.7%	1.5%
Kia	Car	All	2009	91.6%		6.0%	94.0%			100.0%			100.0%	43.8%		21.0%	74.0%	5.0%
Kia	Car	All	2010	100.0%		9.1%	90.9%			100.0%			100.0%	99.8%		85.3%	14.7%	0.0%
Kia	Car	All	2011	98.5%	1.5%	5.6%	93.5%		16.7%	83.3%			100.0%	100.0%	0.9%	33.0%	67.0%	0.0%
Kia	Car	All	2012	92.0%	8.0%	3.7%	93.9%		47.9%	52.1%			100.0%	100.0%	2.5%			
Kia	Car	All	2013	92.7%	7.3%	7.5%	91.7%		62.7%	37.3%			100.0%	100.0%	0.9%			



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Kia	Truck	Van	2003	20.0	13.9	18.6	16.2	5000		213	193	12.3	0.906	0.0386	50.0		
Kia	Truck	Van	2004	21.1	14.1	20.8	17.3	5000		213	195	12.2	0.915	0.0390	52.9		
Kia	Truck	Van	2005	21.3	14.2	20.7	17.3	5000		213	195	12.2	0.915	0.0390	53.3		
Kia	Truck	Van	2006	23.8	15.9	22.7	19.2	4500		231	244	9.3	1.056	0.0542	53.5		
Kia	Truck	Van	2007	23.8	15.9	22.7	19.2	4500		231	244	9.3	1.056	0.0542	53.5		
Kia	Truck	Van	2008	23.8	15.9	22.7	19.2	4500		231	244	9.3	1.056	0.0542	53.5		
Kia	Truck	Van	2009	23.8	15.9	22.7	19.2	4500		231	250	9.1	1.082	0.0556	53.5		
Kia	Truck	Van	2010	24.7	16.6	23.3	19.8	4500		232	250	9.1	1.078	0.0556	55.6		
Kia	Truck	Van	2011	N/A	18.1	24.7	21.3	4500		214	271	8.6	1.266	0.0602	N/A		
Kia	Truck	Van	2012	N/A	18.1	24.7	21.3	4500		214	271	8.6	1.269	0.0602	N/A		
Kia	Truck	Van	2013														

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				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%				100.0%	
Kia	Truck	Van	2003	100.0%			100.0%			100.0%			100.0%				100.0%	
Kia	Truck	Van	2004	100.0%			100.0%			100.0%			100.0%				100.0%	
Kia	Truck	Van	2005	100.0%			100.0%			100.0%			100.0%				100.0%	
Kia	Truck	Van	2006	100.0%			100.0%			100.0%			100.0%				100.0%	
Kia	Truck	Van	2007	100.0%			100.0%			100.0%			100.0%				100.0%	
Kia	Truck	Van	2008	100.0%			100.0%			100.0%			100.0%				100.0%	
Kia	Truck	Van	2009	100.0%			100.0%			100.0%			100.0%				100.0%	
Kia	Truck	Van	2010	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Kia	Truck	Van	2011	100.0%			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	Van	2013															

**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Kia	Truck	Truck SUV	1996	23.0	17.2	20.5	18.8	3500		122	130	12.6	1.066	0.0371	40.3		
Kia	Truck	Truck SUV	1997	24.0	17.8	21.4	19.5	3500		122	130	12.6	1.066	0.0371	42.0		
Kia	Truck	Truck SUV	1998	24.4	17.9	21.7	19.7	3500		122	130	12.6	1.066	0.0371	42.7		
Kia	Truck	Truck SUV	1999	24.4	17.8	21.6	19.7	3500		122	130	12.6	1.066	0.0371	42.7		
Kia	Truck	Truck SUV	2000	23.6	17.3	20.5	18.9	3500		122	130	12.6	1.066	0.0371	41.3		
Kia	Truck	Truck SUV	2001	22.9	16.6	20.2	18.4	3500		122	130	12.6	1.066	0.0371	40.2		
Kia	Truck	Truck SUV	2002	23.3	16.8	20.3	18.6	3500		122	130	12.6	1.066	0.0371	40.8		
Kia	Truck	Truck SUV	2003	19.3	13.6	17.8	15.6	4500		213	192	11.3	0.901	0.0427	43.6		
Kia	Truck	Truck SUV	2004	19.9	14.0	18.0	16.0	4500		213	192	11.3	0.901	0.0427	44.9		
Kia	Truck	Truck SUV	2005	20.7	14.1	19.5	16.7	4428		206	189	11.3	0.926	0.0427	46.0		
Kia	Truck	Truck SUV	2006	21.1	14.3	19.8	17.0	4389		201	187	11.3	0.939	0.0427	46.4		
Kia	Truck	Truck SUV	2007	23.2	16.0	20.9	18.5	4245		194	216	10.1	1.104	0.0503	49.2		
Kia	Truck	Truck SUV	2008	23.4	16.0	21.3	18.7	4239		184	208	10.3	1.127	0.0488	49.5		
Kia	Truck	Truck SUV	2009	24.3	16.7	22.0	19.4	4245		189	215	10.1	1.129	0.0502	51.7		
Kia	Truck	Truck SUV	2010	25.7	17.9	22.5	20.3	4000		164	173	11.2	1.050	0.0431	51.4		
Kia	Truck	Truck SUV	2011	N/A	19.8	26.0	22.9	4056		169	212	9.8	1.252	0.0518	N/A		
Kia	Truck	Truck SUV	2012	N/A	20.2	26.6	23.4	3541		144	183	9.8	1.278	0.0515	N/A		
Kia	Truck	Truck SUV	2013	N/A	20.2	26.6	23.4	3538		145	182	9.8	1.273	0.0514	N/A		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		100.0%	60.7%	39.3%			100.0%			52.1%				100.0%	
Kia	Truck	Truck SUV	1996		100.0%	28.9%	71.1%			100.0%			100.0%				100.0%	
Kia	Truck	Truck SUV	1997		100.0%	37.2%	62.8%			100.0%			100.0%				100.0%	
Kia	Truck	Truck SUV	1998		100.0%	27.6%	72.4%			100.0%			100.0%				100.0%	
Kia	Truck	Truck SUV	1999		100.0%	27.3%	72.7%			100.0%			100.0%			100.0%		
Kia	Truck	Truck SUV	2000		100.0%	25.2%	74.8%			100.0%			100.0%				100.0%	
Kia	Truck	Truck SUV	2001		100.0%	20.4%	79.6%			100.0%			100.0%				100.0%	
Kia	Truck	Truck SUV	2002		100.0%	26.0%	74.0%			100.0%			100.0%				100.0%	
Kia	Truck	Truck SUV	2003		53.8%		100.0%			100.0%			100.0%				100.0%	
Kia	Truck	Truck SUV	2004		52.7%	8.2%	91.8%			100.0%			100.0%				100.0%	
Kia	Truck	Truck SUV	2005		53.5%	7.5%	92.5%			100.0%			100.0%				100.0%	
Kia	Truck	Truck SUV	2006		53.4%	6.9%	93.1%			100.0%			100.0%	1.0%			100.0%	
Kia	Truck	Truck SUV	2007		100.0%	3.5%	96.5%			100.0%			100.0%	3.5%			100.0%	
Kia	Truck	Truck SUV	2008		100.0%	2.6%	97.4%			100.0%			100.0%	89.2%			100.0%	
Kia	Truck	Truck SUV	2009		100.0%	2.0%	98.0%			100.0%			100.0%	24.7%			74.6%	25.4%
Kia	Truck	Truck SUV	2010		100.0%	1.4%	98.6%			100.0%			100.0%	1.4%			100.0%	
Kia	Truck	Truck SUV	2011		100.0%		100.0%		2.2%	97.8%			100.0%	100.0%			100.0%	
Kia	Truck	Truck SUV	2012		100.0%		100.0%		8.3%	91.7%			100.0%	100.0%				
Kia	Truck	Truck SUV	2013		100.0%	1.1%	98.9%		7.7%	92.3%			100.0%	100.0%				



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Kia	Truck	All	1996	23.0	17.2	20.5	18.8	3500		122	130	12.6	1.066	0.0371	40.3		
Kia	Truck	All	1997	24.0	17.8	21.4	19.5	3500		122	130	12.6	1.066	0.0371	42.0		
Kia	Truck	All	1998	24.4	17.9	21.7	19.7	3500		122	130	12.6	1.066	0.0371	42.7		
Kia	Truck	All	1999	24.4	17.8	21.6	19.7	3500		122	130	12.6	1.066	0.0371	42.7		
Kia	Truck	All	2000	23.6	17.3	20.5	18.9	3500		122	130	12.6	1.066	0.0371	41.3		
Kia	Truck	All	2001	22.9	16.6	20.2	18.4	3500		122	130	12.6	1.066	0.0371	40.2		
Kia	Truck	All	2002	20.9	14.8	19.1	16.9	4532		185	173	12.4	0.956	0.0381	47.1		
Kia	Truck	All	2003	19.7	13.8	18.2	15.9	4773		213	193	11.8	0.904	0.0404	47.1		
Kia	Truck	All	2004	20.6	14.1	19.4	16.6	4764		213	194	11.7	0.909	0.0407	49.1		
Kia	Truck	All	2005	21.0	14.1	20.1	17.0	4733		210	192	11.7	0.920	0.0407	49.9		
Kia	Truck	All	2006	22.1	15.0	20.9	17.9	4436		214	211	10.5	0.989	0.0476	49.4		
Kia	Truck	All	2007	23.6	15.9	22.1	18.9	4423		220	235	9.5	1.071	0.0530	52.2		
Kia	Truck	All	2008	23.6	15.9	22.1	19.0	4393		212	229	9.7	1.085	0.0520	51.9		
Kia	Truck	All	2009	24.1	16.4	22.3	19.3	4359		208	231	9.7	1.108	0.0526	52.5		
Kia	Truck	All	2010	25.0	16.9	23.1	20.0	4362		213	229	9.7	1.070	0.0521	54.5		
Kia	Truck	All	2011	N/A	19.5	25.7	22.6	4141		177	223	9.6	1.255	0.0534	N/A		
Kia	Truck	All	2012	N/A	18.7	25.3	22.0	4200		192	243	9.0	1.272	0.0575	N/A		
Kia	Truck	All	2013	N/A	20.2	26.6	23.4	3538		145	182	9.8	1.273	0.0514	N/A		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		100.0%	60.7%	39.3%			100.0%			52.1%				100.0%	
Kia	Truck	All	1996		100.0%	28.9%	71.1%			100.0%			100.0%				100.0%	
Kia	Truck	All	1997		100.0%	37.2%	62.8%			100.0%			100.0%				100.0%	
Kia	Truck	All	1998		100.0%	27.6%	72.4%			100.0%			100.0%				100.0%	
Kia	Truck	All	1999		100.0%	27.3%	72.7%			100.0%			100.0%			100.0%		
Kia	Truck	All	2000		100.0%	25.2%	74.8%			100.0%			100.0%				100.0%	
Kia	Truck	All	2001		100.0%	20.4%	79.6%			100.0%			100.0%				100.0%	
Kia	Truck	All	2002	68.8%	31.2%	8.1%	91.9%			100.0%			100.0%				100.0%	
Kia	Truck	All	2003	54.6%	24.4%		100.0%			100.0%			100.0%				100.0%	
Kia	Truck	All	2004	52.9%	24.9%	3.9%	96.1%			100.0%			100.0%				100.0%	
Kia	Truck	All	2005	53.3%	25.0%	3.5%	96.5%			100.0%			100.0%				100.0%	
Kia	Truck	All	2006	42.2%	30.9%	4.0%	96.0%			100.0%			100.0%	0.6%			100.0%	
Kia	Truck	All	2007	69.8%	30.2%	1.1%	98.9%			100.0%			100.0%	1.1%			100.0%	
Kia	Truck	All	2008	59.1%	40.9%	1.1%	98.9%			100.0%			100.0%	36.5%			100.0%	
Kia	Truck	All	2009	44.5%	55.5%	1.1%	98.9%			100.0%			100.0%	13.7%			85.9%	14.1%
Kia	Truck	All	2010	72.4%	27.6%	0.4%	99.6%			100.0%			100.0%	72.8%			100.0%	
Kia	Truck	All	2011	19.0%	81.0%		100.0%		1.8%	98.2%			100.0%	100.0%			100.0%	
Kia	Truck	All	2012	68.7%	31.3%		100.0%		2.6%	97.4%			100.0%	100.0%				
Kia	Truck	All	2013		100.0%	1.1%	98.9%		7.7%	92.3%			100.0%	100.0%				



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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
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
Kia	All	All	1995	28.3	20.7	26.4	23.3	3006	101.3	109	103	13.5	0.946	0.0344	42.7	3147	4328
Kia	All	All	1996	27.3	19.8	25.4	22.4	2932	103.9	114	123	11.4	1.083	0.0424	40.1	3010	4139
Kia	All	All	1997	27.8	20.1	25.6	22.7	3016	103.9	115	124	11.5	1.080	0.0415	42.1	3202	4403
Kia	All	All	1998	28.0	20.0	26.0	22.8	3024	104.4	114	127	11.4	1.117	0.0424	42.4	3204	4405
Kia	All	All	1999	27.8	19.7	25.6	22.5	3051	104.4	114	127	11.5	1.114	0.0421	42.4	3207	4409
Kia	All	All	2000	26.9	18.9	24.8	21.7	3048	104.9	114	127	11.5	1.115	0.0422	41.0	3123	4293
Kia	All	All	2001	27.9	19.5	25.4	22.4	2972	105.1	112	121	11.7	1.082	0.0409	41.5	3193	4412
Kia	All	All	2002	25.7	18.0	23.5	20.7	3483	108.0	132	136	12.2	1.048	0.0389	44.6	3200	4764
Kia	All	All	2003	24.8	17.0	23.1	19.9	3721	106.4	153	151	11.8	1.021	0.0407	45.9	3213	4813
Kia	All	All	2004	25.1	16.9	23.7	20.2	3822	111.6	165	160	11.5	0.989	0.0419	47.8	3250	5257
Kia	All	All	2005	24.4	16.3	23.2	19.6	4005	112.7	174	168	11.5	0.985	0.0421	48.7	3329	5341
Kia	All	All	2006	27.0	18.1	25.3	21.6	3698	112.8	163	169	10.8	1.052	0.0454	50.3	3697	5752
Kia	All	All	2007	28.3	19.0	26.1	22.5	3686	117.9	163	179	10.5	1.105	0.0477	52.3	3901	6248
Kia	All	All	2008	28.8	19.3	26.6	22.9	3647	117.4	156	175	10.6	1.118	0.0470	52.7	3920	6299
Kia	All	All	2009	30.7	20.7	27.8	24.2	3481	115.5	146	167	10.6	1.140	0.0470	53.5	4026	6258
Kia	All	All	2010	34.5	23.2	30.7	27.0	3169	114.9	132	157	10.1	1.197	0.0494	54.8	4152	6302
Kia	All	All	2011	N/A	22.1	29.5	25.8	3563	118.8	147	186	9.8	1.262	0.0517	N/A	N/A	N/A
Kia	All	All	2012	N/A	22.6	30.4	26.5	3485	117.6	142	191	9.4	1.356	0.0545	N/A	N/A	N/A
Kia	All	All	2013	N/A	23.2	31.4	27.3	3381	117.0	135	183	9.5	1.366	0.0541	N/A	N/A	N/A

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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%			100.0%		
Kia	All	All	1994	100.0%		48.1%	51.9%			100.0%			100.0%			100.0%		
Kia	All	All	1995	66.9%	33.1%	44.7%	55.3%			100.0%			83.1%			65.9%	34.1%	
Kia	All	All	1996	75.8%	19.1%	32.9%	67.1%			100.0%			100.0%			75.8%	24.2%	
Kia	All	All	1997	64.5%	21.7%	35.1%	64.9%			100.0%			100.0%			64.5%	35.5%	
Kia	All	All	1998	63.4%	25.2%	24.9%	75.1%			100.0%			100.0%			63.4%	36.6%	
Kia	All	All	1999	59.9%	26.4%	25.3%	74.7%			100.0%			100.0%			100.0%		
Kia	All	All	2000	60.3%	20.4%	24.4%	75.6%			100.0%			100.0%			79.6%	20.4%	
Kia	All	All	2001	73.0%	14.2%	22.8%	77.2%			100.0%			100.0%			74.3%	25.7%	
Kia	All	All	2002	81.5%	8.9%	16.5%	83.5%			100.0%			100.0%			60.6%	39.4%	
Kia	All	All	2003	81.6%	9.9%	11.8%	88.2%			100.0%			100.0%			49.5%	50.5%	
Kia	All	All	2004	82.3%	9.3%	9.8%	90.2%			100.0%			100.0%	25.1%		19.5%	73.3%	7.2%
Kia	All	All	2005	77.0%	12.3%	7.7%	92.3%			100.0%			100.0%	27.2%		9.0%	83.1%	7.8%
Kia	All	All	2006	77.5%	12.0%	9.1%	90.9%			100.0%			100.0%	53.5%		10.7%	86.7%	2.6%
Kia	All	All	2007	85.2%	8.6%	4.9%	95.1%			100.0%			100.0%	18.0%		10.2%	88.3%	1.4%
Kia	All	All	2008	81.3%	9.6%	6.0%	94.0%			100.0%			100.0%	25.4%		12.1%	86.7%	1.2%
Kia	All	All	2009	83.2%	9.8%	5.1%	94.9%			100.0%			100.0%	38.5%		17.3%	76.1%	6.6%
Kia	All	All	2010	97.6%	2.4%	8.3%	91.7%			100.0%			100.0%	97.4%		77.8%	22.2%	0.0%
Kia	All	All	2011	83.4%	16.6%	4.6%	94.7%		13.9%	86.1%			100.0%	100.0%	0.7%	26.7%	73.3%	0.0%
Kia	All	All	2012	89.7%	10.3%	3.3%	94.5%		43.4%	56.6%			100.0%	100.0%	2.2%			
Kia	All	All	2013	89.9%	10.1%	7.3%	91.9%		61.1%	38.9%			100.0%	100.0%	0.9%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Mazda	Car	Car	1975	17.1	13.3	16.6	14.6	2812		140	115	12.1	0.810	0.0404	24.6		
Mazda	Car	Car	1976	21.9	17.0	21.2	18.7	2853		140	115	12.6	0.801	0.0397	32.0		
Mazda	Car	Car	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	Car	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	Car	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	Car	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	Car	1981	31.1	24.8	28.7	26.4	2449	87.2	111	77	14.4	0.692	0.0315	38.7	2872	3453
Mazda	Car	Car	1982	29.4	23.4	27.3	25.0	2523	82.5	116	79	14.5	0.683	0.0314	38.0	2602	3243
Mazda	Car	Car	1983	28.9	22.6	27.5	24.6	2493	82.3	119	85	13.6	0.713	0.0339	37.6	2650	3278
Mazda	Car	Car	1984	30.0	23.4	28.9	25.6	2548	90.2	118	85	13.9	0.720	0.0332	39.7	2943	3726
Mazda	Car	Car	1985	29.7	23.1	28.6	25.3	2547	88.9	118	85	13.8	0.719	0.0332	39.2	2877	3642
Mazda	Car	Car	1986	29.4	22.6	28.5	25.0	2693	99.3	122	102	12.6	0.836	0.0377	40.2	3027	4031
Mazda	Car	Car	1987	29.2	22.2	28.5	24.7	2716	92.5	122	104	12.6	0.847	0.0380	40.3	2863	3804
Mazda	Car	Car	1988	28.4	21.5	27.6	24.0	2870	100.5	129	113	12.2	0.875	0.0390	41.1	2959	4184
Mazda	Car	Car	1989	29.5	22.2	28.2	24.7	2857	106.6	125	108	12.6	0.858	0.0374	42.2	3190	4523
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Mazda	Car	Car	2004	28.0	19.0	25.7	22.3	3292	107.5	152	184	9.2	1.218	0.0558	46.4	3061	5022
Mazda	Car	Car	2005	29.5	20.0	26.6	23.3	3238	108.8	136	171	9.5	1.329	0.0529	48.0	3250	5245
Mazda	Car	Car	2006	30.3	20.4	27.6	23.9	3216	107.4	138	172	9.5	1.267	0.0534	49.0	3283	5297
Mazda	Car	Car	2007	31.0	20.9	28.1	24.5	3194	109.0	134	165	9.7	1.257	0.0519	49.7	3406	5449
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
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
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
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
Mazda	Car	Car	2012	37.8	24.9	34.4	29.5	3089	107.7	128	157	10.0	1.225	0.0505	59.0	4147	6386
Mazda	Car	Car	2013	37.2	24.7	33.7	29.1	3088	106.3	128	156	10.1	1.221	0.0504	58.2	4044	6216

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Mazda	Car	Car	1975			61.3%										100.0%		
Mazda	Car	Car	1976			51.5%										100.0%		
Mazda	Car	Car	1977			80.7%										100.0%		
Mazda	Car	Car	1978			75.2%										100.0%		
Mazda	Car	Car	1979			80.2%										100.0%		
Mazda	Car	Car	1980			79.0%										100.0%		
Mazda	Car	Car	1981	35.6%		78.2%										100.0%		
Mazda	Car	Car	1982	29.7%		75.6%										100.0%		
Mazda	Car	Car	1983	58.6%		78.2%										100.0%		
Mazda	Car	Car	1984	74.9%		70.4%	2.1%				5.4%	0.6%				100.0%		
Mazda	Car	Car	1985	72.4%		68.0%	3.4%			3.9%		0.6%				100.0%		
Mazda	Car	Car	1986	76.2%		64.4%	3.9%			98.5%						100.0%		
Mazda	Car	Car	1987	76.3%		62.1%	22.6%			100.0%						100.0%		
Mazda	Car	Car	1988	75.6%		54.3%	45.1%			100.0%			50.7%			50.7%	49.3%	
Mazda	Car	Car	1989	86.2%	0.0%	47.2%	52.5%			100.0%			58.0%			42.1%	57.9%	
Mazda	Car	Car	1990	67.2%	0.7%	54.8%	45.2%			100.0%			72.5%			54.4%	45.6%	
Mazda	Car	Car	1991	75.2%	0.1%	51.4%	48.6%			100.0%			73.3%			52.9%	47.1%	
Mazda	Car	Car	1992	72.8%		45.2%	54.8%			100.0%			83.4%			69.8%	30.2%	
Mazda	Car	Car	1993	83.6%		43.7%	56.3%			100.0%			79.2%			58.6%	41.4%	
Mazda	Car	Car	1994	79.8%		35.9%	64.1%			100.0%			98.7%			63.8%	36.2%	
Mazda	Car	Car	1995	89.7%		25.6%	74.4%			100.0%			99.5%			64.0%	36.0%	
Mazda	Car	Car	1996	89.1%		30.6%	69.4%			100.0%			100.0%			55.7%	44.3%	
Mazda	Car	Car	1997	89.4%		28.2%	71.8%			100.0%			100.0%			54.5%	45.5%	
Mazda	Car	Car	1998	100.0%		16.7%	83.3%			100.0%			100.0%			46.7%	53.3%	
Mazda	Car	Car	1999	100.0%		23.6%	76.4%			100.0%			100.0%			58.3%	41.7%	
Mazda	Car	Car	2000	91.5%		20.2%	79.8%			100.0%			100.0%			59.8%	40.2%	
Mazda	Car	Car	2001	86.6%		20.0%	80.0%			100.0%			100.0%			62.0%	38.0%	
Mazda	Car	Car	2002	92.5%		22.3%	77.7%			100.0%			100.0%			72.9%	27.1%	
Mazda	Car	Car	2003	91.8%		29.1%	70.9%			100.0%			100.0%	36.1%		63.9%	36.1%	
Mazda	Car	Car	2004	76.4%		32.8%	67.2%			100.0%			82.3%	80.7%		60.2%	38.2%	1.6%
Mazda	Car	Car	2005	87.7%		25.0%	75.0%			100.0%			90.0%	90.0%		61.3%	38.7%	
Mazda	Car	Car	2006	83.8%	3.3%	28.8%	71.2%			100.0%			96.9%	87.3%		58.3%	41.7%	
Mazda	Car	Car	2007	89.8%	1.0%	22.2%	77.8%			100.0%			97.2%	97.2%		64.6%	35.4%	
Mazda	Car	Car	2008	90.5%		22.2%	77.8%		4.2%	95.8%			98.9%	98.9%		72.7%	27.3%	
Mazda	Car	Car	2009	92.3%		18.9%	81.1%		3.0%	97.0%			96.8%	96.8%		55.2%	44.8%	
Mazda	Car	Car	2010	96.1%		16.8%	83.2%		2.6%	97.4%			99.4%	99.4%		76.0%	24.0%	
Mazda	Car	Car	2011	95.8%		15.4%	84.6%		2.1%	97.9%			99.5%	99.5%		80.6%	19.4%	
Mazda	Car	Car	2012	96.8%		13.7%	86.3%		48.5%	51.5%			100.0%	100.0%				
Mazda	Car	Car	2013	96.3%		17.6%	82.4%		43.1%	56.9%			100.0%	100.0%				



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Mazda	Car	Car SUV	1975														
Mazda	Car	Car SUV	1976														
Mazda	Car	Car SUV	1977														
Mazda	Car	Car SUV	1978														
Mazda	Car	Car SUV	1979														
Mazda	Car	Car SUV	1980														
Mazda	Car	Car SUV	1981														
Mazda	Car	Car SUV	1982														
Mazda	Car	Car SUV	1983														
Mazda	Car	Car SUV	1984														
Mazda	Car	Car SUV	1985														
Mazda	Car	Car SUV	1986														
Mazda	Car	Car SUV	1987														
Mazda	Car	Car SUV	1988														
Mazda	Car	Car SUV	1989														
Mazda	Car	Car SUV	1990														
Mazda	Car	Car SUV	1991														
Mazda	Car	Car SUV	1992	21.4	15.8	20.6	17.9	4000		231	170	11.3	0.736	0.0425	42.8		
Mazda	Car	Car SUV	1993	21.8	15.9	21.1	18.2	4000		231	170	11.3	0.736	0.0425	43.6		
Mazda	Car	Car SUV	1994	21.4	15.6	20.6	17.8	4000		231	170	11.3	0.736	0.0425	42.9		
Mazda	Car	Car SUV	1995														
Mazda	Car	Car SUV	1996														
Mazda	Car	Car SUV	1997														
Mazda	Car	Car SUV	1998														
Mazda	Car	Car SUV	1999														
Mazda	Car	Car SUV	2000														
Mazda	Car	Car SUV	2001	24.6	17.0	23.4	20.0	3500		176	193	9.3	1.095	0.0550	43.3		
Mazda	Car	Car SUV	2002	25.1	17.4	23.4	20.2	3500		178	195	9.2	1.097	0.0557	44.0		
Mazda	Car	Car SUV	2003	25.2	17.2	23.6	20.3	3500		179	196	9.1	1.097	0.0561	44.1		
Mazda	Car	Car SUV	2004	25.2	17.1	23.6	20.2	3500		178	195	9.2	1.097	0.0558	44.2		
Mazda	Car	Car SUV	2005	26.5	18.3	23.3	20.9	3500		164	180	9.8	1.096	0.0515	46.5		
Mazda	Car	Car SUV	2006	27.2	18.9	23.5	21.3	3500		156	171	10.3	1.095	0.0487	47.7		
Mazda	Car	Car SUV	2007	24.2	16.5	22.1	19.3	4000		140	244	8.5	1.743	0.0610	48.4		
Mazda	Car	Car SUV	2008	26.6	18.1	24.0	21.1	3767		143	204	9.5	1.433	0.0538	50.2		
Mazda	Car	Car SUV	2009	26.9	18.4	24.1	21.3	3839		145	221	9.0	1.537	0.0574	51.9		
Mazda	Car	Car SUV	2010	29.4	19.7	27.2	23.4	3564		151	173	10.3	1.148	0.0483	52.4		
Mazda	Car	Car SUV	2011	29.7	19.9	27.4	23.6	3518		153	165	10.5	1.082	0.0468	52.3		
Mazda	Car	Car SUV	2012	29.5	19.7	26.7	23.2	4000		152	162	11.9	1.066	0.0406	59.1		
Mazda	Car	Car SUV	2013	38.5	26.4	32.4	29.5	3500		122	155	11.0	1.270	0.0443	67.4		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Mazda	Car	Car SUV	1975															
Mazda	Car	Car SUV	1976															
Mazda	Car	Car SUV	1977															
Mazda	Car	Car SUV	1978															
Mazda	Car	Car SUV	1979															
Mazda	Car	Car SUV	1980															
Mazda	Car	Car SUV	1981															
Mazda	Car	Car SUV	1982															
Mazda	Car	Car SUV	1983															
Mazda	Car	Car SUV	1984															
Mazda	Car	Car SUV	1985															
Mazda	Car	Car SUV	1986															
Mazda	Car	Car SUV	1987															
Mazda	Car	Car SUV	1988															
Mazda	Car	Car SUV	1989															
Mazda	Car	Car SUV	1990															
Mazda	Car	Car SUV	1991															
Mazda	Car	Car SUV	1992			31.5%	68.5%			100.0%							100.0%	
Mazda	Car	Car SUV	1993			24.6%	75.4%			100.0%							100.0%	
Mazda	Car	Car SUV	1994			31.7%	68.3%			100.0%							100.0%	
Mazda	Car	Car SUV	1995															
Mazda	Car	Car SUV	1996															
Mazda	Car	Car SUV	1997															
Mazda	Car	Car SUV	1998															
Mazda	Car	Car SUV	1999															
Mazda	Car	Car SUV	2000															
Mazda	Car	Car SUV	2001	100.0%		10.6%	89.4%			100.0%			100.0%				100.0%	
Mazda	Car	Car SUV	2002	100.0%		7.1%	92.9%			100.0%			100.0%				100.0%	
Mazda	Car	Car SUV	2003	100.0%		5.3%	94.7%			100.0%			100.0%				100.0%	
Mazda	Car	Car SUV	2004	100.0%		6.6%	93.4%			100.0%			100.0%				100.0%	
Mazda	Car	Car SUV	2005	100.0%		5.6%	94.4%			100.0%			100.0%				100.0%	
Mazda	Car	Car SUV	2006	100.0%		7.8%	92.2%			100.0%			100.0%				100.0%	
Mazda	Car	Car SUV	2007	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Mazda	Car	Car SUV	2008	100.0%		2.8%	96.2%	1.0%	52.4%	47.6%			100.0%	100.0%	1.0%		100.0%	
Mazda	Car	Car SUV	2009	100.0%		2.9%	95.6%	1.5%	66.3%	33.7%			100.0%	100.0%	1.5%		100.0%	
Mazda	Car	Car SUV	2010	100.0%		0.4%	99.5%	0.0%	12.7%	87.3%			100.0%	100.0%	0.0%		100.0%	
Mazda	Car	Car SUV	2011	100.0%		0.4%	99.6%		3.6%	96.4%			100.0%	100.0%			100.0%	
Mazda	Car	Car SUV	2012	100.0%			100.0%		1.5%	98.5%			100.0%	100.0%				
Mazda	Car	Car SUV	2013	100.0%		4.6%	95.4%		100.0%				100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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
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
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
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
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
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
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
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
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
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
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
Mazda	Car	All	1992	30.2	22.4	28.6	25.1	2921	99.6	123	120	11.9	0.971	0.0404	44.1	3075	4446
Mazda	Car	All	1993	30.0	22.0	28.6	24.8	2895	99.5	125	123	11.5	0.986	0.0424	43.8	3047	4398
Mazda	Car	All	1994	30.2	21.9	28.7	24.9	2885	100.6	124	120	11.7	0.972	0.0414	43.9	3098	4460
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
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
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
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
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
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
Mazda	Car	All	2001	28.4	19.8	26.2	22.9	3109	100.3	131	144	10.8	1.097	0.0461	44.4	2964	4503
Mazda	Car	All	2002	28.9	20.1	26.3	23.1	3125	105.0	133	145	10.7	1.089	0.0460	45.4	3124	4806
Mazda	Car	All	2003	29.2	20.1	26.5	23.2	3207	105.1	140	158	10.2	1.123	0.0489	46.9	3167	5019
Mazda	Car	All	2004	27.8	18.9	25.5	22.1	3308	107.5	154	185	9.2	1.209	0.0558	46.3	3061	5022
Mazda	Car	All	2005	29.0	19.7	26.0	22.9	3277	108.8	140	173	9.6	1.294	0.0527	47.8	3250	5245
Mazda	Car	All	2006	30.0	20.2	27.1	23.6	3245	107.4	140	172	9.5	1.250	0.0529	48.8	3283	5297
Mazda	Car	All	2007	29.9	20.1	27.1	23.6	3305	109.0	135	176	9.5	1.324	0.0531	49.5	3406	5449
Mazda	Car	All	2008	30.9	20.8	27.9	24.4	3238	105.5	133	169	9.7	1.277	0.0521	50.2	3399	5344
Mazda	Car	All	2009	30.7	20.6	28.0	24.2	3354	110.1	144	181	9.5	1.283	0.0535	51.6	3470	5714
Mazda	Car	All	2010	32.8	21.8	29.9	25.8	3293	109.0	140	165	10.0	1.185	0.0501	54.1	3669	5950
Mazda	Car	All	2011	33.4	22.3	30.4	26.3	3205	107.2	135	156	10.3	1.164	0.0485	53.6	3723	5811
Mazda	Car	All	2012	37.4	24.6	34.1	29.3	3122	107.7	129	157	10.1	1.219	0.0501	59.0	4147	6386
Mazda	Car	All	2013	37.4	24.8	33.6	29.2	3132	106.3	127	156	10.2	1.226	0.0497	59.2	4044	6216

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	35.6%		78.2%										100.0%		
Mazda	Car	All	1982	29.7%		75.6%										100.0%		
Mazda	Car	All	1983	58.6%		78.2%										100.0%		
Mazda	Car	All	1984	74.9%		70.4%	2.1%				5.4%	0.6%				100.0%		
Mazda	Car	All	1985	72.4%		68.0%	3.4%			3.9%		0.6%				100.0%		
Mazda	Car	All	1986	76.2%		64.4%	3.9%			98.5%						100.0%		
Mazda	Car	All	1987	76.3%		62.1%	22.6%			100.0%						100.0%		
Mazda	Car	All	1988	75.6%		54.3%	45.1%			100.0%			50.7%			50.7%	49.3%	
Mazda	Car	All	1989	86.2%	0.0%	47.2%	52.5%			100.0%			58.0%			42.1%	57.9%	
Mazda	Car	All	1990	67.2%	0.7%	54.8%	45.2%			100.0%			72.5%			54.4%	45.6%	
Mazda	Car	All	1991	75.2%	0.1%	51.4%	48.6%			100.0%			73.3%			52.9%	47.1%	
Mazda	Car	All	1992	71.3%		44.9%	55.1%			100.0%			81.7%			68.4%	31.6%	
Mazda	Car	All	1993	83.2%		43.6%	56.4%			100.0%			78.8%			58.2%	41.8%	
Mazda	Car	All	1994	79.2%		35.8%	64.2%			100.0%			98.0%			63.4%	36.6%	
Mazda	Car	All	1995	89.7%		25.6%	74.4%			100.0%			99.5%			64.0%	36.0%	
Mazda	Car	All	1996	89.1%		30.6%	69.4%			100.0%			100.0%			55.7%	44.3%	
Mazda	Car	All	1997	89.4%		28.2%	71.8%			100.0%			100.0%			54.5%	45.5%	
Mazda	Car	All	1998	100.0%		16.7%	83.3%			100.0%			100.0%			46.7%	53.3%	
Mazda	Car	All	1999	100.0%		23.6%	76.4%			100.0%			100.0%			58.3%	41.7%	
Mazda	Car	All	2000	91.5%		20.2%	79.8%			100.0%			100.0%			59.8%	40.2%	
Mazda	Car	All	2001	88.8%		18.5%	81.5%			100.0%			100.0%			52.1%	47.9%	
Mazda	Car	All	2002	93.4%		20.5%	79.5%			100.0%			100.0%			64.4%	35.6%	
Mazda	Car	All	2003	92.9%		25.8%	74.2%			100.0%			100.0%	31.2%		55.0%	45.0%	
Mazda	Car	All	2004	78.2%		30.9%	69.1%			100.0%			83.6%	74.6%		55.7%	42.8%	1.5%
Mazda	Car	All	2005	89.5%		22.1%	77.9%			100.0%			91.5%	76.4%		52.0%	48.0%	
Mazda	Car	All	2006	85.5%	2.9%	26.6%	73.4%			100.0%			97.3%	78.3%		52.3%	47.7%	
Mazda	Car	All	2007	91.2%	0.8%	19.1%	80.9%			100.0%			97.6%	97.6%		55.6%	44.4%	
Mazda	Car	All	2008	92.1%		19.0%	80.8%	0.2%	12.2%	87.8%			99.1%	99.1%	0.2%	60.6%	39.4%	
Mazda	Car	All	2009	93.1%		17.1%	82.8%	0.2%	10.1%	89.9%			97.2%	97.2%	0.2%	49.0%	51.0%	
Mazda	Car	All	2010	96.7%		14.3%	85.7%	0.0%	4.1%	95.9%			99.5%	99.5%	0.0%	64.7%	35.3%	
Mazda	Car	All	2011	96.6%		12.4%	87.6%		2.4%	97.6%			99.6%	99.6%		64.6%	35.4%	
Mazda	Car	All	2012	97.0%		13.2%	86.8%		46.8%	53.2%			100.0%	100.0%				
Mazda	Car	All	2013	96.7%		16.2%	83.8%		49.2%	50.8%			100.0%	100.0%				



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Mazda	Truck	Van	1990	20.2	15.3	19.3	17.0	4000		177	147	12.8	0.825	0.0366	40.6		
Mazda	Truck	Van	1991	20.3	15.2	19.3	17.0	3999		177	146	12.8	0.824	0.0365	40.8		
Mazda	Truck	Van	1992	21.3	15.7	20.6	17.8	4081		179	153	12.6	0.855	0.0375	43.5		
Mazda	Truck	Van	1993	21.4	15.7	20.7	17.9	4050		180	155	12.3	0.861	0.0383	43.4		
Mazda	Truck	Van	1994	21.3	15.5	20.7	17.7	4067		179	151	12.7	0.841	0.0371	43.4		
Mazda	Truck	Van	1995	20.9	15.1	20.1	17.3	4089		180	152	12.6	0.844	0.0372	42.7		
Mazda	Truck	Van	1996	20.8	15.0	20.0	17.2	4133		180	152	12.7	0.844	0.0369	42.9		
Mazda	Truck	Van	1997	20.5	14.8	19.5	16.9	4178		180	152	12.8	0.844	0.0365	42.9		
Mazda	Truck	Van	1998	20.0	14.4	18.9	16.4	4287		180	152	13.1	0.844	0.0356	42.9		
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		
Mazda	Truck	Van	2001	23.2	16.3	21.4	18.7	4000		152	160	11.9	1.053	0.0400	46.3		
Mazda	Truck	Van	2002	23.7	16.2	22.9	19.3	4000		183	200	10.0	1.093	0.0500	47.4		
Mazda	Truck	Van	2003	23.8	16.1	22.9	19.3	4000		183	200	10.0	1.093	0.0500	47.5		
Mazda	Truck	Van	2004	23.7	16.0	22.8	19.2	4000		183	200	10.0	1.093	0.0500	47.5		
Mazda	Truck	Van	2005	23.7	15.8	22.6	19.1	4000		183	200	10.0	1.093	0.0500	47.4		
Mazda	Truck	Van	2006	23.6	15.8	22.5	19.0	4000		183	200	10.0	1.093	0.0500	47.2		
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		
Mazda	Truck	Van	2009	30.3	20.7	26.8	23.8	3500		140	153	11.1	1.093	0.0437	53.0		
Mazda	Truck	Van	2010	30.7	20.9	27.3	24.1	3500		140	153	11.1	1.093	0.0437	53.7		
Mazda	Truck	Van	2011														
Mazda	Truck	Van	2012	32.3	21.6	27.8	24.7	3500		153	157	10.9	1.029	0.0449	56.5		
Mazda	Truck	Van	2013	32.2	21.6	27.9	24.8	3500		153	157	10.9	1.029	0.0449	56.4		



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		4.8%	5.7%	94.3%			100.0%							100.0%	
Mazda	Truck	Van	1990		88.0%	3.5%	96.5%			100.0%							100.0%	
Mazda	Truck	Van	1991		86.7%	2.4%	97.6%			100.0%							100.0%	
Mazda	Truck	Van	1992		16.3%		100.0%			100.0%							100.0%	
Mazda	Truck	Van	1993		10.1%		100.0%			100.0%							100.0%	
Mazda	Truck	Van	1994		95.5%		100.0%			100.0%			100.0%				100.0%	
Mazda	Truck	Van	1995		100.0%		100.0%			100.0%			100.0%				100.0%	
Mazda	Truck	Van	1996		26.6%		100.0%			100.0%			100.0%				100.0%	
Mazda	Truck	Van	1997		35.6%		100.0%			100.0%			100.0%				100.0%	
Mazda	Truck	Van	1998		57.4%		100.0%			100.0%			100.0%				100.0%	
Mazda	Truck	Van	1999															
Mazda	Truck	Van	2000	100.0%			100.0%			100.0%			100.0%				100.0%	
Mazda	Truck	Van	2001	100.0%			100.0%			100.0%			100.0%				100.0%	
Mazda	Truck	Van	2002	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Mazda	Truck	Van	2003	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Mazda	Truck	Van	2004	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Mazda	Truck	Van	2005	100.0%			100.0%			100.0%			100.0%				100.0%	
Mazda	Truck	Van	2006	100.0%			100.0%			100.0%			100.0%	100.0%			100.0%	
Mazda	Truck	Van	2007															
Mazda	Truck	Van	2008	100.0%		4.9%	95.1%			100.0%			100.0%	100.0%		100.0%		
Mazda	Truck	Van	2009	100.0%		4.8%	95.2%			100.0%			100.0%	100.0%		100.0%		
Mazda	Truck	Van	2010	100.0%		6.7%	93.3%			100.0%			100.0%	100.0%		100.0%		
Mazda	Truck	Van	2011															
Mazda	Truck	Van	2012	100.0%		3.7%	96.3%			100.0%			100.0%	100.0%				
Mazda	Truck	Van	2013	100.0%		5.5%	94.5%			100.0%			100.0%	100.0%				



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	20.5	15.2	19.8	17.2	4330		231	170	12.0	0.736	0.0394	44.3		
Mazda	Truck	Truck SUV	1992	20.5	15.3	19.5	17.1	4500		231	170	12.4	0.736	0.0378	46.2		
Mazda	Truck	Truck SUV	1993	20.6	15.1	19.7	17.1	4500		231	170	12.4	0.736	0.0378	46.3		
Mazda	Truck	Truck SUV	1994	20.3	14.9	19.4	16.9	4383		231	170	12.2	0.736	0.0389	44.6		
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		
Mazda	Truck	Truck SUV	2002	23.8	16.5	22.2	19.2	3500		180	198	9.0	1.098	0.0566	41.7		
Mazda	Truck	Truck SUV	2003	23.6	16.2	22.0	19.0	3500		181	199	9.0	1.098	0.0569	41.4		
Mazda	Truck	Truck SUV	2004	23.7	16.2	21.8	19.0	3500		181	199	9.0	1.098	0.0568	41.4		
Mazda	Truck	Truck SUV	2005	24.0	16.8	21.2	19.0	3916		175	192	10.1	1.098	0.0489	47.1		
Mazda	Truck	Truck SUV	2006	24.8	17.3	21.8	19.6	3850		169	186	10.3	1.096	0.0480	47.8		
Mazda	Truck	Truck SUV	2007	23.2	15.7	21.6	18.6	4211		171	252	8.6	1.527	0.0599	48.9		
Mazda	Truck	Truck SUV	2008	23.5	16.0	21.6	18.8	4303		199	256	8.7	1.324	0.0593	50.5		
Mazda	Truck	Truck SUV	2009	23.1	15.7	21.5	18.5	4357		202	263	8.6	1.343	0.0604	50.4		
Mazda	Truck	Truck SUV	2010	23.2	15.7	21.6	18.6	4408		211	266	8.6	1.292	0.0604	51.1		
Mazda	Truck	Truck SUV	2011	24.6	16.7	22.6	19.6	4423		215	268	8.5	1.263	0.0605	54.5		
Mazda	Truck	Truck SUV	2012	24.5	16.6	22.7	19.6	4497		225	273	8.6	1.212	0.0607	55.1		
Mazda	Truck	Truck SUV	2013	29.6	20.2	26.3	23.3	3982		172	211	9.9	1.236	0.0520	60.0		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		100.0%	34.1%	65.9%			100.0%							100.0%	
Mazda	Truck	Truck SUV	1992		100.0%	46.0%	54.0%			100.0%							100.0%	
Mazda	Truck	Truck SUV	1993		100.0%	32.1%	67.9%			100.0%							100.0%	
Mazda	Truck	Truck SUV	1994		100.0%	23.4%	76.6%			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		100.0%	4.1%	95.9%			100.0%			100.0%				100.0%	
Mazda	Truck	Truck SUV	2002		100.0%	2.9%	97.1%			100.0%			100.0%				100.0%	
Mazda	Truck	Truck SUV	2003		100.0%	1.2%	98.8%			100.0%			100.0%				100.0%	
Mazda	Truck	Truck SUV	2004		100.0%	1.7%	98.3%			100.0%			100.0%				100.0%	
Mazda	Truck	Truck SUV	2005		100.0%	0.9%	99.1%			100.0%			100.0%				100.0%	
Mazda	Truck	Truck SUV	2006		100.0%	4.4%	95.1%	0.5%		100.0%			100.0%		0.5%		100.0%	
Mazda	Truck	Truck SUV	2007	22.0%	78.0%		100.0%			100.0%			100.0%	100.0%			57.9%	42.1%
Mazda	Truck	Truck SUV	2008	31.4%	68.6%		99.9%	0.1%	23.9%	76.1%			100.0%	100.0%	0.1%		34.3%	65.7%
Mazda	Truck	Truck SUV	2009	31.1%	68.9%		99.8%	0.2%	25.3%	74.7%			100.0%	96.9%	0.2%		28.6%	71.4%
Mazda	Truck	Truck SUV	2010	37.4%	62.6%		100.0%	0.0%	15.7%	84.3%			100.0%	100.0%	0.0%		18.5%	81.5%
Mazda	Truck	Truck SUV	2011	37.5%	62.5%		100.0%		10.4%	89.6%			100.0%	100.0%			13.3%	86.7%
Mazda	Truck	Truck SUV	2012	45.3%	54.7%		100.0%		0.6%	99.4%			100.0%	100.0%				
Mazda	Truck	Truck SUV	2013	19.8%	80.2%		100.0%		51.8%	48.2%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Mazda	Truck	Pickup	1987	26.2	20.2	25.1	22.2	3062		131	85	15.7	0.648	0.0276	40.3		
Mazda	Truck	Pickup	1988	26.4	20.2	25.1	22.2	3030		135	86	15.3	0.639	0.0284	40.0		
Mazda	Truck	Pickup	1989	26.2	20.0	24.7	22.0	3055		136	89	15.1	0.653	0.0290	40.0		
Mazda	Truck	Pickup	1990	25.9	19.7	24.1	21.6	3116		140	95	14.7	0.675	0.0303	40.4		
Mazda	Truck	Pickup	1991	25.6	19.5	23.8	21.4	3166		142	98	14.5	0.687	0.0309	40.6		
Mazda	Truck	Pickup	1992	25.6	19.3	23.6	21.2	3178		142	98	14.6	0.684	0.0306	40.6		
Mazda	Truck	Pickup	1993	25.9	19.4	23.9	21.4	3091		137	91	15.0	0.663	0.0295	40.1		
Mazda	Truck	Pickup	1994	24.5	18.0	23.1	20.2	3573		181	136	12.5	0.749	0.0377	44.0		
Mazda	Truck	Pickup	1995	26.8	19.6	25.0	22.0	3592		157	123	13.4	0.789	0.0340	48.4		
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		
Mazda	Truck	Pickup	1999	24.0	17.2	22.2	19.5	3664		177	134	12.8	0.763	0.0364	44.6		
Mazda	Truck	Pickup	2000	23.8	16.9	21.8	19.3	3638		177	139	12.4	0.787	0.0381	43.8		
Mazda	Truck	Pickup	2001	23.1	16.3	21.2	18.6	3617		180	147	11.8	0.822	0.0406	42.2		
Mazda	Truck	Pickup	2002	23.5	16.6	21.3	18.9	3734		178	151	11.9	0.858	0.0404	44.6		
Mazda	Truck	Pickup	2003	24.9	17.5	22.2	19.8	3720		171	150	11.9	0.890	0.0403	47.0		
Mazda	Truck	Pickup	2004	25.0	17.4	22.4	19.9	3699		171	153	11.7	0.908	0.0412	47.0		
Mazda	Truck	Pickup	2005	25.0	17.3	22.2	19.8	3699		170	153	11.7	0.912	0.0412	46.8		
Mazda	Truck	Pickup	2006	26.0	17.9	23.3	20.6	3643		161	150	11.6	0.949	0.0412	48.0		
Mazda	Truck	Pickup	2007	26.2	18.1	23.2	20.7	3628		157	149	11.6	0.967	0.0412	48.1		
Mazda	Truck	Pickup	2008	26.3	18.3	23.1	20.8	3598		160	155	11.2	0.987	0.0429	48.2		
Mazda	Truck	Pickup	2009	28.5	19.9	24.4	22.3	3545		149	149	11.4	1.006	0.0418	51.6		
Mazda	Truck	Pickup	2010														
Mazda	Truck	Pickup	2011														
Mazda	Truck	Pickup	2012														
Mazda	Truck	Pickup	2013														

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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%	
Mazda	Truck	Pickup	1987		12.0%	92.2%	7.8%										100.0%	
Mazda	Truck	Pickup	1988		6.1%	88.6%	11.4%										100.0%	
Mazda	Truck	Pickup	1989		11.0%	87.2%	12.8%			11.0%							100.0%	
Mazda	Truck	Pickup	1990		12.4%	79.3%	20.7%			38.0%							100.0%	
Mazda	Truck	Pickup	1991		13.0%	79.8%	20.2%			46.6%							100.0%	
Mazda	Truck	Pickup	1992		15.0%	82.1%	17.9%			41.5%							100.0%	
Mazda	Truck	Pickup	1993		16.5%	85.6%	14.4%			25.5%							100.0%	
Mazda	Truck	Pickup	1994		20.6%	68.9%	31.1%			100.0%							100.0%	
Mazda	Truck	Pickup	1995		13.0%	83.4%	16.6%			100.0%							100.0%	
Mazda	Truck	Pickup	1996															
Mazda	Truck	Pickup	1997															
Mazda	Truck	Pickup	1998		21.2%	57.3%	42.7%			100.0%							100.0%	
Mazda	Truck	Pickup	1999		20.2%	53.4%	46.6%			100.0%							100.0%	
Mazda	Truck	Pickup	2000		17.5%	48.1%	51.9%			100.0%							100.0%	
Mazda	Truck	Pickup	2001		14.4%	40.8%	59.2%			100.0%			12.7%				100.0%	
Mazda	Truck	Pickup	2002		16.1%	35.4%	64.6%			100.0%			30.6%				100.0%	
Mazda	Truck	Pickup	2003		8.3%	40.3%	59.7%			100.0%			44.7%				100.0%	
Mazda	Truck	Pickup	2004		13.9%	44.0%	56.0%			100.0%			51.1%				100.0%	
Mazda	Truck	Pickup	2005		16.8%	33.9%	66.1%			100.0%			53.3%				100.0%	
Mazda	Truck	Pickup	2006		10.9%	42.0%	58.0%			100.0%			66.8%				100.0%	
Mazda	Truck	Pickup	2007		8.3%	46.0%	54.0%			100.0%			72.6%	72.6%			89.5%	10.5%
Mazda	Truck	Pickup	2008		18.2%	47.4%	52.6%			100.0%			80.4%	80.4%			80.4%	19.6%
Mazda	Truck	Pickup	2009		9.1%	47.3%	52.7%			100.0%			90.9%	90.9%			90.9%	9.1%
Mazda	Truck	Pickup	2010															
Mazda	Truck	Pickup	2011															
Mazda	Truck	Pickup	2012															
Mazda	Truck	Pickup	2013															

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
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		
Mazda	Truck	All	1988	26.4	20.2	25.1	22.2	3030		135	86	15.3	0.639	0.0284	40.0		
Mazda	Truck	All	1989	25.2	19.1	23.9	21.1	3291		145	102	14.6	0.693	0.0307	41.3		
Mazda	Truck	All	1990	23.3	17.7	21.9	19.5	3472		155	116	13.9	0.736	0.0328	40.5		
Mazda	Truck	All	1991	22.8	17.2	21.4	19.0	3608		165	124	13.6	0.743	0.0340	41.1		
Mazda	Truck	All	1992	23.2	17.3	21.9	19.3	3653		163	126	13.6	0.764	0.0341	42.2		
Mazda	Truck	All	1993	23.3	17.3	22.0	19.4	3616		163	125	13.6	0.757	0.0340	42.0		
Mazda	Truck	All	1994	23.6	17.3	22.4	19.5	3708		183	140	12.5	0.766	0.0376	43.9		
Mazda	Truck	All	1995	24.4	17.7	23.1	20.1	3768		165	133	13.1	0.809	0.0351	46.4		
Mazda	Truck	All	1996	20.8	15.0	20.0	17.2	4133		180	152	12.7	0.844	0.0369	42.9		
Mazda	Truck	All	1997	20.5	14.8	19.5	16.9	4178		180	152	12.8	0.844	0.0365	42.9		
Mazda	Truck	All	1998	23.4	16.8	21.6	19.1	3785		178	138	12.8	0.780	0.0365	44.7		
Mazda	Truck	All	1999	24.0	17.2	22.2	19.5	3664		177	134	12.8	0.763	0.0364	44.6		
Mazda	Truck	All	2000	23.3	16.6	21.6	18.9	3861		162	158	11.8	0.991	0.0408	45.2		
Mazda	Truck	All	2001	23.3	16.3	21.6	18.8	3727		169	168	11.0	1.000	0.0454	43.5		
Mazda	Truck	All	2002	23.7	16.4	22.1	19.1	3744		181	184	10.2	1.023	0.0494	44.5		
Mazda	Truck	All	2003	24.0	16.5	22.4	19.3	3778		179	187	10.1	1.043	0.0496	45.5		
Mazda	Truck	All	2004	24.0	16.3	22.4	19.3	3782		180	190	10.0	1.056	0.0502	45.5		
Mazda	Truck	All	2005	24.0	16.4	21.9	19.2	3924		178	190	10.3	1.073	0.0484	47.2		
Mazda	Truck	All	2006	24.5	16.7	22.4	19.5	3877		174	185	10.4	1.069	0.0476	47.6		
Mazda	Truck	All	2007	23.4	15.9	21.7	18.8	4168		170	245	8.8	1.486	0.0586	48.8		
Mazda	Truck	All	2008	24.8	16.9	22.7	19.8	4105		185	230	9.3	1.264	0.0554	51.2		
Mazda	Truck	All	2009	26.5	18.0	24.0	21.0	3896		169	204	9.9	1.207	0.0514	51.8		
Mazda	Truck	All	2010	25.2	17.1	23.2	20.1	4110		188	229	9.4	1.227	0.0549	52.0		
Mazda	Truck	All	2011	24.6	16.7	22.6	19.6	4423		215	268	8.5	1.263	0.0605	54.5		
Mazda	Truck	All	2012	27.8	18.7	25.0	21.9	4003		189	215	9.7	1.121	0.0528	55.8		
Mazda	Truck	All	2013	30.2	20.5	26.7	23.6	3870		167	199	10.1	1.188	0.0504	59.1		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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%	
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		12.0%	92.2%	7.8%										100.0%	
Mazda	Truck	All	1988		6.1%	88.6%	11.4%										100.0%	
Mazda	Truck	All	1989		9.5%	66.9%	33.1%			33.2%							100.0%	
Mazda	Truck	All	1990		42.9%	48.7%	51.3%			63.0%							100.0%	
Mazda	Truck	All	1991		50.3%	45.9%	54.1%			72.5%							100.0%	
Mazda	Truck	All	1992		19.9%	43.2%	56.8%			70.9%							100.0%	
Mazda	Truck	All	1993		19.0%	43.4%	56.6%			64.0%							100.0%	
Mazda	Truck	All	1994		38.9%	53.4%	46.6%			100.0%			19.2%				100.0%	
Mazda	Truck	All	1995		43.8%	53.9%	46.1%			100.0%			35.4%				100.0%	
Mazda	Truck	All	1996		26.6%		100.0%			100.0%			100.0%				100.0%	
Mazda	Truck	All	1997		35.6%		100.0%			100.0%			100.0%				100.0%	
Mazda	Truck	All	1998		30.4%	42.6%	57.4%			100.0%			25.6%				100.0%	
Mazda	Truck	All	1999		20.2%	53.4%	46.6%			100.0%							100.0%	
Mazda	Truck	All	2000	61.5%	6.8%	18.5%	81.5%			100.0%			61.5%				100.0%	
Mazda	Truck	All	2001	38.6%	36.4%	13.2%	86.8%			100.0%			74.5%				100.0%	
Mazda	Truck	All	2002	34.5%	40.0%	11.8%	88.2%			100.0%			78.8%	34.5%			100.0%	
Mazda	Truck	All	2003	44.3%	32.2%	10.6%	89.4%			100.0%			85.9%	44.3%			100.0%	
Mazda	Truck	All	2004	48.1%	33.8%	9.8%	90.2%			100.0%			89.7%	48.1%			100.0%	
Mazda	Truck	All	2005	41.4%	48.2%	4.6%	95.4%			100.0%			94.2%				100.0%	
Mazda	Truck	All	2006	42.3%	41.9%	9.2%	90.6%	0.2%		100.0%			94.1%	42.3%	0.2%		100.0%	
Mazda	Truck	All	2007	20.4%	72.9%	3.3%	96.7%			100.0%			98.0%	98.0%			60.2%	39.8%
Mazda	Truck	All	2008	45.9%	52.0%	2.3%	97.6%	0.1%	18.0%	82.0%			99.5%	99.5%	0.1%	22.4%	27.8%	49.8%
Mazda	Truck	All	2009	66.7%	31.9%	3.2%	96.7%	0.1%	11.7%	88.3%			99.9%	98.5%	0.1%	52.3%	14.6%	33.1%
Mazda	Truck	All	2010	58.0%	42.0%	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	37.5%	62.5%		100.0%		10.4%	89.6%			100.0%	100.0%			13.3%	86.7%
Mazda	Truck	All	2012	72.4%	27.6%	1.8%	98.2%		0.3%	99.7%			100.0%	100.0%				
Mazda	Truck	All	2013	38.4%	61.6%	1.3%	98.7%		39.8%	60.2%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	86.5	104	81	15.6	0.759	0.0303	38.2	2652	3284
Mazda	All	All	1978	35.3	28.7	31.6	29.9	2312	86.3	82	55	18.0	0.664	0.0236	41.2	3112	3520
Mazda	All	All	1979	25.8	20.0	25.1	22.0	2574	75.8	113	91	13.7	0.789	0.0349	34.4	2167	2678
Mazda	All	All	1980	26.2	20.4	25.3	22.3	2578	80.9	113	78	14.8	0.699	0.0303	34.8	2292	2858
Mazda	All	All	1981	31.1	24.8	28.8	26.4	2493	87.2	112	76	14.6	0.686	0.0310	39.3	2872	3453
Mazda	All	All	1982	29.7	23.6	27.6	25.2	2578	82.5	117	78	14.9	0.670	0.0305	39.2	2602	3243
Mazda	All	All	1983	29.4	23.0	27.9	25.0	2614	82.3	120	82	14.4	0.686	0.0316	39.7	2650	3278
Mazda	All	All	1984	29.9	23.4	28.4	25.4	2702	90.2	119	81	14.9	0.680	0.0301	41.1	2943	3726
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
Mazda	All	All	1986	28.7	22.1	27.7	24.3	2828	99.3	122	93	14.1	0.757	0.0328	40.8	3027	4031
Mazda	All	All	1987	27.7	21.2	26.8	23.4	2882	92.5	126	95	14.1	0.751	0.0330	40.3	2863	3804
Mazda	All	All	1988	27.9	21.2	26.9	23.5	2909	100.5	130	107	13.0	0.819	0.0364	40.8	2959	4184
Mazda	All	All	1989	27.7	20.9	26.4	23.2	3022	106.6	133	106	13.4	0.795	0.0348	41.9	3190	4523
Mazda	All	All	1990	27.4	20.6	26.2	22.9	3063	95.4	133	115	12.6	0.871	0.0374	42.3	2898	4176
Mazda	All	All	1991	27.1	20.3	25.8	22.6	3123	98.5	137	117	12.6	0.863	0.0374	42.6	3018	4335
Mazda	All	All	1992	27.7	20.5	26.2	23.0	3143	99.6	135	122	12.4	0.908	0.0385	43.6	3075	4446
Mazda	All	All	1993	28.6	21.0	27.1	23.6	3023	99.5	132	124	11.9	0.945	0.0409	43.5	3047	4398
Mazda	All	All	1994	27.5	20.1	26.1	22.7	3170	100.6	144	127	12.0	0.901	0.0401	43.9	3098	4460
Mazda	All	All	1995	29.5	21.1	28.3	24.3	3096	103.4	126	125	12.0	0.996	0.0401	46.0	3226	4791
Mazda	All	All	1996	30.3	21.6	28.8	24.8	2991	102.5	120	120	12.1	1.006	0.0403	45.8	3293	4780
Mazda	All	All	1997	29.8	21.1	28.2	24.3	3004	103.1	120	121	12.1	1.010	0.0403	45.0	3222	4710
Mazda	All	All	1998	27.9	19.8	26.1	22.7	3219	109.9	134	128	12.1	0.979	0.0398	45.2	3331	4985
Mazda	All	All	1999	28.9	20.4	26.7	23.4	3054	100.1	128	129	11.4	1.032	0.0427	44.3	3044	4477
Mazda	All	All	2000	27.6	19.5	25.4	22.3	3228	103.1	131	138	11.4	1.061	0.0427	44.7	3124	4611
Mazda	All	All	2001	26.3	18.4	24.3	21.2	3338	100.3	145	153	10.8	1.061	0.0458	44.1	2964	4503
Mazda	All	All	2002	27.4	19.0	25.1	21.9	3287	105.0	145	155	10.6	1.072	0.0469	45.2	3124	4806
Mazda	All	All	2003	27.4	18.8	25.1	21.9	3379	105.1	152	167	10.2	1.099	0.0491	46.5	3167	5019
Mazda	All	All	2004	27.0	18.4	24.9	21.5	3392	107.5	158	186	9.4	1.182	0.0548	46.1	3061	5022
Mazda	All	All	2005	27.9	19.0	25.2	22.1	3394	108.8	147	176	9.7	1.254	0.0519	47.7	3250	5245
Mazda	All	All	2006	29.4	19.9	26.6	23.2	3303	107.4	143	173	9.6	1.233	0.0525	48.7	3283	5297
Mazda	All	All	2007	28.6	19.3	26.1	22.7	3442	109.0	140	187	9.4	1.350	0.0540	49.4	3406	5449
Mazda	All	All	2008	29.2	19.7	26.5	23.1	3448	105.5	145	184	9.6	1.274	0.0529	50.4	3399	5344
Mazda	All	All	2009	29.3	19.8	26.7	23.2	3509	110.1	151	187	9.6	1.261	0.0529	51.6	3470	5714
Mazda	All	All	2010	30.9	20.7	28.3	24.4	3454	109.0	150	178	9.9	1.193	0.0510	53.6	3669	5950
Mazda	All	All	2011	31.7	21.2	28.8	25.0	3394	107.2	147	173	10.0	1.180	0.0503	53.7	3723	5811
Mazda	All	All	2012	34.6	22.9	31.4	27.1	3330	107.7	143	171	10.0	1.196	0.0508	58.3	4147	6386
Mazda	All	All	2013	35.2	23.5	31.4	27.5	3326	106.3	138	167	10.2	1.216	0.0499	59.2	4044	6216

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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%	
Mazda	All	All	1981	32.0%		80.4%										89.8%	10.2%	
Mazda	All	All	1982	25.6%		79.0%						3.1%				86.1%	13.9%	
Mazda	All	All	1983	41.5%		83.7%						1.5%				70.8%	29.2%	
Mazda	All	All	1984	38.1%		80.8%	1.1%				2.8%	1.2%				50.8%	49.2%	
Mazda	All	All	1985	72.4%		68.0%	3.4%			3.9%		0.6%				100.0%		
Mazda	All	All	1986	42.7%		80.0%	2.2%			55.3%						56.1%	43.9%	
Mazda	All	All	1987	39.7%	5.8%	76.6%	15.5%			52.0%						52.0%	48.0%	
Mazda	All	All	1988	57.5%	1.5%	62.5%	37.0%			76.0%			38.5%			38.5%	61.5%	
Mazda	All	All	1989	53.4%	3.6%	54.7%	45.1%			74.6%			35.9%			26.1%	73.9%	
Mazda	All	All	1990	45.7%	14.2%	52.9%	47.1%			88.2%			49.3%			37.0%	63.0%	
Mazda	All	All	1991	49.1%	17.5%	49.5%	50.5%			90.4%			47.8%			34.5%	65.5%	
Mazda	All	All	1992	49.6%	6.0%	44.4%	55.6%			91.1%			56.9%			47.6%	52.4%	
Mazda	All	All	1993	68.5%	3.4%	43.6%	56.4%			93.6%			64.8%			47.9%	52.1%	
Mazda	All	All	1994	51.8%	13.5%	41.9%	58.1%			100.0%			70.7%			41.4%	58.6%	
Mazda	All	All	1995	76.6%	6.4%	29.7%	70.3%			100.0%			90.2%			54.7%	45.3%	
Mazda	All	All	1996	82.3%	2.1%	28.2%	71.8%			100.0%			100.0%			51.4%	48.6%	
Mazda	All	All	1997	83.1%	2.5%	26.2%	73.8%			100.0%			100.0%			50.6%	49.4%	
Mazda	All	All	1998	73.7%	8.0%	23.5%	76.5%			100.0%			80.5%			34.5%	65.5%	
Mazda	All	All	1999	82.7%	3.5%	28.8%	71.2%			100.0%			82.7%			48.2%	51.8%	
Mazda	All	All	2000	82.5%	2.0%	19.7%	80.3%			100.0%			88.4%			41.8%	58.2%	
Mazda	All	All	2001	70.3%	13.4%	16.6%	83.4%			100.0%			90.6%			32.9%	67.1%	
Mazda	All	All	2002	77.9%	10.5%	18.2%	81.8%			100.0%			94.4%	9.0%		47.5%	52.5%	
Mazda	All	All	2003	78.3%	9.7%	21.2%	78.8%			100.0%			95.7%	35.1%		38.5%	61.5%	
Mazda	All	All	2004	72.8%	6.0%	27.1%	72.9%			100.0%			84.7%	69.9%		45.8%	53.0%	1.2%
Mazda	All	All	2005	80.9%	8.7%	18.9%	81.1%			100.0%			92.0%	62.7%		42.7%	57.3%	
Mazda	All	All	2006	81.5%	6.5%	25.0%	74.9%	0.0%		100.0%			97.0%	75.0%	0.0%	47.5%	52.5%	
Mazda	All	All	2007	80.0%	12.2%	16.6%	83.4%			100.0%			97.7%	97.7%		46.8%	46.9%	6.3%
Mazda	All	All	2008	80.9%	12.6%	15.0%	84.9%	0.1%	13.6%	86.4%			99.2%	99.2%	0.1%	51.4%	36.6%	12.0%
Mazda	All	All	2009	85.6%	9.1%	13.1%	86.7%	0.1%	10.5%	89.5%			97.9%	97.5%	0.1%	49.9%	40.6%	9.5%
Mazda	All	All	2010	89.0%	8.3%	11.9%	88.1%	0.0%	5.4%	94.6%			99.6%	99.6%	0.0%	58.4%	30.8%	10.8%
Mazda	All	All	2011	87.4%	9.7%	10.5%	89.5%		3.6%	96.4%			99.6%	99.6%		54.6%	32.0%	13.5%
Mazda	All	All	2012	91.2%	6.5%	10.5%	89.5%		35.8%	64.2%			100.0%	100.0%				
Mazda	All	All	2013	81.4%	16.2%	12.3%	87.7%		46.7%	53.3%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Subaru	Car	Car	1975	26.5	20.9	24.9	22.5	2346		83	58	17.1	0.699	0.0248	31.2		
Subaru	Car	Car	1976	29.7	23.8	27.3	25.3	2366		88	61	16.6	0.696	0.0259	35.3		
Subaru	Car	Car	1977	30.2	23.5	28.9	25.7	2353	90.0	97	65	15.6	0.674	0.0278	35.8	2737	3235
Subaru	Car	Car	1978	29.9	23.5	28.5	25.5	2376	89.6	97	67	15.4	0.691	0.0283	36.0	2709	3216
Subaru	Car	Car	1979	29.5	23.2	28.1	25.2	2404	93.0	97	67	15.6	0.691	0.0279	35.8	2761	3320
Subaru	Car	Car	1980	28.1	21.7	27.6	24.0	2402	97.0	99	69	15.3	0.694	0.0286	34.2	2761	3310
Subaru	Car	Car	1981	31.3	24.9	28.9	26.6	2400	98.0	107	70	15.0	0.658	0.0294	37.8	3083	3698
Subaru	Car	Car	1982	31.7	25.2	29.4	26.9	2526	98.6	108	71	15.5	0.655	0.0280	40.1	3136	3957
Subaru	Car	Car	1983	31.3	24.7	29.4	26.6	2557	98.8	108	73	15.3	0.675	0.0286	40.1	3098	3960
Subaru	Car	Car	1984	31.1	24.6	29.2	26.5	2583	97.9	108	73	15.4	0.679	0.0285	40.4	3063	3954
Subaru	Car	Car	1985	30.5	24.2	28.4	25.9	2632	106.3	109	86	13.9	0.791	0.0327	40.3	3251	4287
Subaru	Car	Car	1986	30.1	23.9	27.8	25.5	2672	106.7	108	89	13.7	0.819	0.0332	40.4	3222	4300
Subaru	Car	Car	1987	29.5	23.2	27.1	24.8	2727	108.7	107	90	13.9	0.842	0.0329	40.4	3226	4383
Subaru	Car	Car	1988	31.4	24.7	28.5	26.3	2613	104.7	104	90	13.4	0.863	0.0342	41.2	3326	4317
Subaru	Car	Car	1989	31.5	24.7	28.2	26.3	2621	102.4	102	88	13.8	0.865	0.0334	41.5	3262	4250
Subaru	Car	Car	1990	28.0	21.2	26.4	23.4	3080	114.4	124	116	12.5	0.933	0.0376	43.1	3215	4943
Subaru	Car	Car	1991	28.2	21.2	26.4	23.5	3079	113.0	123	115	12.7	0.932	0.0372	43.4	3203	4922
Subaru	Car	Car	1992	28.1	20.9	26.3	23.3	3188	112.9	131	147	11.2	1.148	0.0463	44.7	3194	5057
Subaru	Car	Car	1993	29.2	21.6	27.4	24.1	3037	109.6	122	117	12.3	0.957	0.0385	44.3	3202	4872
Subaru	Car	Car	1994	28.2	20.5	26.6	23.2	3172	113.0	129	127	12.1	0.976	0.0398	44.7	3205	5077
Subaru	Car	Car	1995	28.5	20.6	27.1	23.4	3193	115.5	132	132	11.6	1.000	0.0416	45.5	3289	5269
Subaru	Car	Car	1996	27.4	19.7	25.9	22.5	3333	123.1	140	142	11.3	1.012	0.0426	45.7	3379	5647
Subaru	Car	Car	1997	28.0	19.9	26.4	22.9	3325	122.8	143	152	10.7	1.060	0.0456	46.5	3439	5728
Subaru	Car	Car	1998	27.8	19.9	25.7	22.6	3363	123.8	145	155	10.6	1.069	0.0461	46.8	3446	5806
Subaru	Car	Car	1999	27.6	19.5	25.6	22.4	3396	123.5	145	157	10.6	1.083	0.0463	46.9	3410	5803
Subaru	Car	Car	2000	28.0	19.8	25.5	22.5	3431	122.5	148	163	10.4	1.095	0.0475	48.0	3426	5893
Subaru	Car	Car	2001	27.7	19.4	25.3	22.3	3776	124.2	154	170	10.8	1.106	0.0453	52.3	3443	6525
Subaru	Car	Car	2002	27.2	18.9	25.0	21.8	3698	116.8	147	185	10.1	1.287	0.0504	50.4	3185	5922
Subaru	Car	Car	2003	27.3	18.7	25.1	21.8	3749	120.2	150	180	10.4	1.215	0.0483	51.1	3281	6178
Subaru	Car	Car	2004	26.9	18.3	24.9	21.5	3706	116.5	149	192	9.9	1.308	0.0521	50.1	3154	5882
Subaru	Car	Car	2005	27.3	18.5	25.0	21.7	3575	119.0	151	198	9.3	1.317	0.0553	49.1	3283	5865
Subaru	Car	Car	2006	28.0	18.9	25.5	22.2	3544	118.6	152	194	9.4	1.277	0.0547	49.8	3338	5913
Subaru	Car	Car	2007	28.4	19.3	25.7	22.5	3531	115.6	151	188	9.5	1.244	0.0532	50.2	3293	5812
Subaru	Car	Car	2008	28.7	19.4	26.1	22.7	3533	118.1	151	182	9.8	1.204	0.0514	50.8	3400	6002
Subaru	Car	Car	2009	28.9	19.6	26.1	22.8	3518	115.9	151	179	9.9	1.185	0.0507	50.8	3352	5893
Subaru	Car	Car	2010	30.2	20.5	27.2	23.8	3519	113.7	156	181	9.8	1.163	0.0514	53.5	3467	6097
Subaru	Car	Car	2011	30.2	20.4	27.4	23.9	3520	113.9	156	194	9.5	1.247	0.0550	53.7	3485	6130
Subaru	Car	Car	2012	35.2	23.6	31.6	27.5	3451	116.2	138	170	10.4	1.235	0.0493	61.8	4173	7185
Subaru	Car	Car	2013	36.4	24.3	32.6	28.4	3417	113.5	137	171	10.2	1.249	0.0501	63.1	4195	7169

**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Subaru	Car	Car	1975	100.0%		91.3%										100.0%		
Subaru	Car	Car	1976	100.0%		63.9%										100.0%		
Subaru	Car	Car	1977	100.0%		82.5%										100.0%		
Subaru	Car	Car	1978	100.0%		81.0%										100.0%		
Subaru	Car	Car	1979	60.0%	40.0%	84.2%										100.0%		
Subaru	Car	Car	1980	66.0%	34.0%	84.0%										100.0%		
Subaru	Car	Car	1981	72.7%	27.3%	86.6%										100.0%		
Subaru	Car	Car	1982	73.6%	26.4%	81.2%										100.0%		
Subaru	Car	Car	1983	69.4%	30.6%	72.1%	27.9%			1.4%						100.0%		
Subaru	Car	Car	1984	66.7%	33.3%	67.1%	32.9%			3.4%						100.0%		
Subaru	Car	Car	1985	62.3%	37.7%	63.1%	26.1%			25.7%						91.0%	9.0%	
Subaru	Car	Car	1986	61.0%	39.0%	62.8%	25.4%			26.4%	18.2%					100.0%		
Subaru	Car	Car	1987	52.9%	47.1%	55.7%	27.0%			20.8%	37.1%		5.8%			100.0%		
Subaru	Car	Car	1988	57.7%	42.3%	61.1%	27.0%			19.7%	55.5%		20.5%			100.0%		
Subaru	Car	Car	1989	67.2%	32.8%	40.5%	37.3%	13.2%		16.7%	55.5%		26.2%			79.9%	20.1%	
Subaru	Car	Car	1990	46.5%	53.5%	35.2%	58.5%	2.3%		74.7%	23.3%		74.9%			100.0%		
Subaru	Car	Car	1991	14.3%	85.7%	32.6%	59.3%	3.6%		71.6%	25.7%		72.6%			100.0%		
Subaru	Car	Car	1992	45.1%	54.9%	32.7%	61.5%	0.2%		81.4%	17.9%		65.2%			100.0%		
Subaru	Car	Car	1993	33.1%	66.9%	32.0%	65.9%	0.6%		85.7%	14.3%		85.7%			100.0%		
Subaru	Car	Car	1994	45.0%	55.0%	35.7%	63.0%			100.0%			41.0%			100.0%		
Subaru	Car	Car	1995	14.1%	85.9%	24.9%	75.1%			100.0%			100.0%			53.9%	46.1%	
Subaru	Car	Car	1996	0.2%	99.8%	28.1%	71.9%			100.0%			100.0%			31.8%	68.2%	
Subaru	Car	Car	1997	0.9%	99.1%	25.9%	74.1%			100.0%			100.0%			35.5%	64.5%	
Subaru	Car	Car	1998	0.0%	100.0%	25.2%	74.8%			100.0%			100.0%			31.8%	68.2%	
Subaru	Car	Car	1999		100.0%	25.2%	74.8%			100.0%			100.0%			33.1%	66.9%	
Subaru	Car	Car	2000		100.0%	24.9%	75.1%			100.0%			100.0%			29.4%	70.6%	
Subaru	Car	Car	2001		100.0%	18.8%	81.2%			100.0%			100.0%			22.2%	77.8%	
Subaru	Car	Car	2002		100.0%	36.4%	63.6%			100.0%			100.0%			50.6%	49.4%	
Subaru	Car	Car	2003		100.0%	25.6%	74.4%			100.0%			100.0%			37.3%	62.7%	
Subaru	Car	Car	2004		100.0%	35.0%	65.0%			100.0%			100.0%	12.1%		50.5%	49.5%	
Subaru	Car	Car	2005		100.0%	27.6%	72.4%			100.0%			100.0%	31.8%		43.2%	56.8%	
Subaru	Car	Car	2006		100.0%	27.9%	72.1%			100.0%			100.0%	33.3%		50.4%	49.6%	
Subaru	Car	Car	2007		100.0%	27.9%	72.1%			100.0%			100.0%	33.5%		55.1%	44.9%	
Subaru	Car	Car	2008		100.0%	23.7%	76.3%			100.0%			100.0%	12.8%		57.3%	42.7%	
Subaru	Car	Car	2009		100.0%	20.3%	79.7%			100.0%			100.0%	44.2%		65.4%	34.6%	
Subaru	Car	Car	2010		100.0%	19.5%	40.9%	39.6%		100.0%			100.0%	100.0%		52.3%	47.7%	
Subaru	Car	Car	2011		100.0%	24.6%	30.5%	44.9%		100.0%			100.0%	100.0%		49.2%	50.8%	
Subaru	Car	Car	2012		100.0%	17.3%	82.7%	80.3%		100.0%			100.0%	100.0%				
Subaru	Car	Car	2013		95.3%	19.2%	80.8%	75.9%		100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Subaru	Car	All	1975	26.5	20.9	24.9	22.5	2346		83	58	17.1	0.699	0.0248	31.2		
Subaru	Car	All	1976	29.7	23.8	27.3	25.3	2366		88	61	16.6	0.696	0.0259	35.3		
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Subaru	Car	All	2012	35.2	23.6	31.6	27.5	3451	116.2	138	170	10.4	1.235	0.0493	61.8	4173	7185
Subaru	Car	All	2013	36.4	24.3	32.6	28.4	3417	113.5	137	171	10.2	1.249	0.0501	63.1	4195	7169

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Subaru	Car	All	1975	100.0%		91.3%										100.0%		
Subaru	Car	All	1976	100.0%		63.9%										100.0%		
Subaru	Car	All	1977	100.0%		82.5%										100.0%		
Subaru	Car	All	1978	100.0%		81.0%										100.0%		
Subaru	Car	All	1979	60.0%	40.0%	84.2%										100.0%		
Subaru	Car	All	1980	66.0%	34.0%	84.0%										100.0%		
Subaru	Car	All	1981	72.7%	27.3%	86.6%										100.0%		
Subaru	Car	All	1982	73.6%	26.4%	81.2%										100.0%		
Subaru	Car	All	1983	69.4%	30.6%	72.1%	27.9%			1.4%						100.0%		
Subaru	Car	All	1984	66.7%	33.3%	67.1%	32.9%			3.4%						100.0%		
Subaru	Car	All	1985	62.3%	37.7%	63.1%	26.1%			25.7%						91.0%	9.0%	
Subaru	Car	All	1986	61.0%	39.0%	62.8%	25.4%			26.4%	18.2%					100.0%		
Subaru	Car	All	1987	52.9%	47.1%	55.7%	27.0%			20.8%	37.1%		5.8%			100.0%		
Subaru	Car	All	1988	57.7%	42.3%	61.1%	27.0%			19.7%	55.5%		20.5%			100.0%		
Subaru	Car	All	1989	67.2%	32.8%	40.5%	37.3%	13.2%		16.7%	55.5%		26.2%			79.9%	20.1%	
Subaru	Car	All	1990	46.5%	53.5%	35.2%	58.5%	2.3%		74.7%	23.3%		74.9%			100.0%		
Subaru	Car	All	1991	14.3%	85.7%	32.6%	59.3%	3.6%		71.6%	25.7%		72.6%			100.0%		
Subaru	Car	All	1992	45.1%	54.9%	32.7%	61.5%	0.2%		81.4%	17.9%		65.2%			100.0%		
Subaru	Car	All	1993	33.1%	66.9%	32.0%	65.9%	0.6%		85.7%	14.3%		85.7%			100.0%		
Subaru	Car	All	1994	45.0%	55.0%	35.7%	63.0%			100.0%			41.0%			100.0%		
Subaru	Car	All	1995	14.1%	85.9%	24.9%	75.1%			100.0%			100.0%			53.9%	46.1%	
Subaru	Car	All	1996	0.2%	99.8%	28.1%	71.9%			100.0%			100.0%			31.8%	68.2%	
Subaru	Car	All	1997	0.9%	99.1%	25.9%	74.1%			100.0%			100.0%			35.5%	64.5%	
Subaru	Car	All	1998	0.0%	100.0%	25.2%	74.8%			100.0%			100.0%			31.8%	68.2%	
Subaru	Car	All	1999		100.0%	25.2%	74.8%			100.0%			100.0%			33.1%	66.9%	
Subaru	Car	All	2000		100.0%	24.9%	75.1%			100.0%			100.0%			29.4%	70.6%	
Subaru	Car	All	2001		100.0%	18.8%	81.2%			100.0%			100.0%			22.2%	77.8%	
Subaru	Car	All	2002		100.0%	36.4%	63.6%			100.0%			100.0%			50.6%	49.4%	
Subaru	Car	All	2003		100.0%	25.6%	74.4%			100.0%			100.0%			37.3%	62.7%	
Subaru	Car	All	2004		100.0%	35.0%	65.0%			100.0%			100.0%	12.1%		50.5%	49.5%	
Subaru	Car	All	2005		100.0%	27.6%	72.4%			100.0%			100.0%	31.8%		43.2%	56.8%	
Subaru	Car	All	2006		100.0%	27.9%	72.1%			100.0%			100.0%	33.3%		50.4%	49.6%	
Subaru	Car	All	2007		100.0%	27.9%	72.1%			100.0%			100.0%	33.5%		55.1%	44.9%	
Subaru	Car	All	2008		100.0%	23.7%	76.3%			100.0%			100.0%	12.8%		57.3%	42.7%	
Subaru	Car	All	2009		100.0%	20.3%	79.7%			100.0%			100.0%	44.2%		65.4%	34.6%	
Subaru	Car	All	2010		100.0%	19.5%	40.9%	39.6%		100.0%			100.0%	100.0%		52.3%	47.7%	
Subaru	Car	All	2011		100.0%	24.6%	30.5%	44.9%		100.0%			100.0%	100.0%		49.2%	50.8%	
Subaru	Car	All	2012		100.0%	17.3%	82.7%	80.3%		100.0%			100.0%	100.0%				
Subaru	Car	All	2013		95.3%	19.2%	80.8%	75.9%		100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	19.2	24.7	21.8	3500		150	165	10.4	1.100	0.0471	46.9		
Subaru	Truck	Truck SUV	1999	27.0	19.3	24.5	21.8	3500		150	165	10.4	1.100	0.0471	47.3		
Subaru	Truck	Truck SUV	2000	27.8	19.7	25.4	22.4	3500		150	165	10.4	1.100	0.0471	48.7		
Subaru	Truck	Truck SUV	2001	27.9	19.7	25.0	22.3	3500		150	165	10.4	1.100	0.0471	48.8		
Subaru	Truck	Truck SUV	2002	28.0	19.5	25.2	22.3	3500		150	165	10.4	1.100	0.0471	48.9		
Subaru	Truck	Truck SUV	2003	27.5	19.1	24.7	21.9	3500		150	165	10.4	1.100	0.0471	48.2		
Subaru	Truck	Truck SUV	2004	27.1	18.7	24.5	21.6	3500		150	173	10.1	1.153	0.0494	47.7		
Subaru	Truck	Truck SUV	2005	28.6	19.5	25.6	22.6	3500		150	170	10.2	1.134	0.0486	50.2		
Subaru	Truck	Truck SUV	2006	26.4	18.1	23.7	20.9	3856		162	203	9.6	1.243	0.0522	50.9		
Subaru	Truck	Truck SUV	2007	27.3	18.7	24.4	21.6	3708		157	191	9.7	1.213	0.0514	50.6		
Subaru	Truck	Truck SUV	2008	26.4	18.1	23.7	20.9	3882		178	206	9.6	1.161	0.0526	51.2		
Subaru	Truck	Truck SUV	2009	28.4	19.4	25.3	22.4	3571		155	179	10.0	1.152	0.0499	50.7		
Subaru	Truck	Truck SUV	2010	29.6	20.1	26.4	23.3	3694		157	176	10.4	1.123	0.0477	54.9		
Subaru	Truck	Truck SUV	2011	30.4	20.6	27.2	23.9	3815		160	181	10.5	1.128	0.0475	58.3		
Subaru	Truck	Truck SUV	2012	30.5	20.7	27.2	24.0	3800		159	179	10.6	1.123	0.0472	58.1		
Subaru	Truck	Truck SUV	2013	31.9	21.7	28.1	25.0	3797		158	180	10.6	1.143	0.0475	61.4		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		100.0%	24.8%	75.2%			100.0%			100.0%			100.0%		
Subaru	Truck	Truck SUV	1999		100.0%	23.3%	76.7%			100.0%			100.0%			100.0%		
Subaru	Truck	Truck SUV	2000		100.0%	23.7%	76.3%			100.0%			100.0%			100.0%		
Subaru	Truck	Truck SUV	2001		100.0%	20.1%	79.9%			100.0%			100.0%			100.0%		
Subaru	Truck	Truck SUV	2002		100.0%	17.8%	82.2%			100.0%			100.0%			100.0%		
Subaru	Truck	Truck SUV	2003		100.0%	16.7%	83.3%			100.0%			100.0%			100.0%		
Subaru	Truck	Truck SUV	2004		100.0%	17.2%	82.8%			100.0%			100.0%			100.0%		
Subaru	Truck	Truck SUV	2005		100.0%	17.0%	83.0%			100.0%			100.0%			100.0%		
Subaru	Truck	Truck SUV	2006		100.0%	8.6%	91.4%			100.0%			100.0%	39.4%		64.4%	35.6%	
Subaru	Truck	Truck SUV	2007		100.0%	11.2%	88.8%			100.0%			100.0%	24.8%		79.2%	20.8%	
Subaru	Truck	Truck SUV	2008		100.0%	7.9%	92.1%			100.0%			100.0%	40.7%		61.8%	38.2%	
Subaru	Truck	Truck SUV	2009		100.0%	9.3%	90.7%			100.0%			100.0%	11.8%			100.0%	
Subaru	Truck	Truck SUV	2010		100.0%	7.6%	60.1%	32.3%		100.0%			100.0%	100.0%			100.0%	
Subaru	Truck	Truck SUV	2011		100.0%	4.7%	44.5%	50.7%		100.0%			100.0%	100.0%			100.0%	
Subaru	Truck	Truck SUV	2012		100.0%	4.6%	95.4%	48.8%		100.0%			100.0%	100.0%				
Subaru	Truck	Truck SUV	2013		100.0%	6.1%	93.9%	52.7%		100.0%			100.0%	100.0%				



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Subaru	Truck	Pickup	1979	27.5	21.7	26.1	23.5	2500		97	67	16.0	0.691	0.0268	34.5		
Subaru	Truck	Pickup	1980	26.0	20.1	25.5	22.2	2500		97	67	16.0	0.691	0.0268	32.5		
Subaru	Truck	Pickup	1981	28.4	22.8	26.0	24.1	2500		109	71	15.3	0.651	0.0284	35.5		
Subaru	Truck	Pickup	1982	29.8	24.1	27.0	25.3	2500		109	74	14.8	0.683	0.0298	37.3		
Subaru	Truck	Pickup	1983	29.5	23.6	27.2	25.1	2513		109	74	15.0	0.680	0.0295	37.2		
Subaru	Truck	Pickup	1984	29.7	23.6	27.7	25.3	2514		109	74	14.9	0.681	0.0295	37.4		
Subaru	Truck	Pickup	1985	29.6	23.5	27.4	25.2	2500		109	73	15.0	0.670	0.0292	37.0		
Subaru	Truck	Pickup	1986	30.0	23.6	27.9	25.4	2500		109	73	15.0	0.670	0.0292	37.5		
Subaru	Truck	Pickup	1987	29.8	23.4	27.5	25.1	2500		109	73	15.0	0.670	0.0292	37.2		
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		
Subaru	Truck	Pickup	2004	25.4	17.4	23.3	20.3	4000		150	187	10.6	1.247	0.0468	51.3		
Subaru	Truck	Pickup	2005	25.8	17.6	23.5	20.5	4000		150	184	10.7	1.229	0.0461	52.0		
Subaru	Truck	Pickup	2006	26.9	18.3	24.3	21.3	3921		150	178	10.8	1.187	0.0455	52.9		
Subaru	Truck	Pickup	2007														
Subaru	Truck	Pickup	2008														
Subaru	Truck	Pickup	2009														
Subaru	Truck	Pickup	2010														
Subaru	Truck	Pickup	2011														
Subaru	Truck	Pickup	2012														
Subaru	Truck	Pickup	2013														



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Subaru	Truck	Pickup	1975															
Subaru	Truck	Pickup	1976															
Subaru	Truck	Pickup	1977															
Subaru	Truck	Pickup	1978		100.0%	100.0%										100.0%		
Subaru	Truck	Pickup	1979		100.0%	100.0%										100.0%		
Subaru	Truck	Pickup	1980		100.0%	100.0%										100.0%		
Subaru	Truck	Pickup	1981		100.0%	100.0%										100.0%		
Subaru	Truck	Pickup	1982		100.0%	100.0%										100.0%		
Subaru	Truck	Pickup	1983		100.0%	75.4%	24.6%				5.2%					100.0%		
Subaru	Truck	Pickup	1984		100.0%	82.1%	17.9%			5.8%						100.0%		
Subaru	Truck	Pickup	1985		100.0%	95.6%	4.4%									100.0%		
Subaru	Truck	Pickup	1986		100.0%	100.0%										100.0%		
Subaru	Truck	Pickup	1987		100.0%	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		100.0%	28.3%	71.7%			100.0%			100.0%			100.0%		
Subaru	Truck	Pickup	2004		100.0%	21.6%	78.4%			100.0%			100.0%			100.0%		
Subaru	Truck	Pickup	2005		100.0%	20.6%	79.4%			100.0%			100.0%			100.0%		
Subaru	Truck	Pickup	2006		100.0%	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	Truck	Pickup	2013															



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
Subaru	Truck	All	1979	27.5	21.7	26.1	23.5	2500		97	67	16.0	0.691	0.0268	34.5		
Subaru	Truck	All	1980	26.0	20.1	25.5	22.2	2500		97	67	16.0	0.691	0.0268	32.5		
Subaru	Truck	All	1981	28.4	22.8	26.0	24.1	2500		109	71	15.3	0.651	0.0284	35.5		
Subaru	Truck	All	1982	29.8	24.1	27.0	25.3	2500		109	74	14.8	0.683	0.0298	37.3		
Subaru	Truck	All	1983	29.5	23.6	27.2	25.1	2513		109	74	15.0	0.680	0.0295	37.2		
Subaru	Truck	All	1984	29.7	23.6	27.7	25.3	2514		109	74	14.9	0.681	0.0295	37.4		
Subaru	Truck	All	1985	29.6	23.5	27.4	25.2	2500		109	73	15.0	0.670	0.0292	37.0		
Subaru	Truck	All	1986	30.0	23.6	27.9	25.4	2500		109	73	15.0	0.670	0.0292	37.5		
Subaru	Truck	All	1987	29.8	23.4	27.5	25.1	2500		109	73	15.0	0.670	0.0292	37.2		
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		
Subaru	Truck	All	1999	27.0	19.3	24.5	21.8	3500		150	165	10.4	1.100	0.0471	47.3		
Subaru	Truck	All	2000	27.8	19.7	25.4	22.4	3500		150	165	10.4	1.100	0.0471	48.7		
Subaru	Truck	All	2001	27.9	19.7	25.0	22.3	3500		150	165	10.4	1.100	0.0471	48.8		
Subaru	Truck	All	2002	28.0	19.5	25.2	22.3	3500		150	165	10.4	1.100	0.0471	48.9		
Subaru	Truck	All	2003	27.3	19.0	24.5	21.7	3567		150	165	10.6	1.100	0.0464	48.7		
Subaru	Truck	All	2004	27.1	18.6	24.5	21.5	3517		150	173	10.1	1.156	0.0493	47.8		
Subaru	Truck	All	2005	28.2	19.2	25.3	22.3	3570		150	172	10.3	1.147	0.0482	50.4		
Subaru	Truck	All	2006	26.5	18.2	23.7	21.0	3861		161	201	9.7	1.239	0.0517	51.1		
Subaru	Truck	All	2007	27.3	18.7	24.4	21.6	3708		157	191	9.7	1.213	0.0514	50.6		
Subaru	Truck	All	2008	26.4	18.1	23.7	20.9	3882		178	206	9.6	1.161	0.0526	51.2		
Subaru	Truck	All	2009	28.4	19.4	25.3	22.4	3571		155	179	10.0	1.152	0.0499	50.7		
Subaru	Truck	All	2010	29.6	20.1	26.4	23.3	3694		157	176	10.4	1.123	0.0477	54.9		
Subaru	Truck	All	2011	30.4	20.6	27.2	23.9	3815		160	181	10.5	1.128	0.0475	58.3		
Subaru	Truck	All	2012	30.5	20.7	27.2	24.0	3800		159	179	10.6	1.123	0.0472	58.1		
Subaru	Truck	All	2013	31.9	21.7	28.1	25.0	3797		158	180	10.6	1.143	0.0475	61.4		



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Subaru	Truck	All	1975															
Subaru	Truck	All	1976															
Subaru	Truck	All	1977															
Subaru	Truck	All	1978		100.0%	100.0%										100.0%		
Subaru	Truck	All	1979		100.0%	100.0%										100.0%		
Subaru	Truck	All	1980		100.0%	100.0%										100.0%		
Subaru	Truck	All	1981		100.0%	100.0%										100.0%		
Subaru	Truck	All	1982		100.0%	100.0%										100.0%		
Subaru	Truck	All	1983		100.0%	75.4%	24.6%				5.2%					100.0%		
Subaru	Truck	All	1984		100.0%	82.1%	17.9%			5.8%						100.0%		
Subaru	Truck	All	1985		100.0%	95.6%	4.4%									100.0%		
Subaru	Truck	All	1986		100.0%	100.0%										100.0%		
Subaru	Truck	All	1987		100.0%	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		100.0%	24.8%	75.2%			100.0%			100.0%			100.0%		
Subaru	Truck	All	1999		100.0%	23.3%	76.7%			100.0%			100.0%			100.0%		
Subaru	Truck	All	2000		100.0%	23.7%	76.3%			100.0%			100.0%			100.0%		
Subaru	Truck	All	2001		100.0%	20.1%	79.9%			100.0%			100.0%			100.0%		
Subaru	Truck	All	2002		100.0%	17.8%	82.2%			100.0%			100.0%			100.0%		
Subaru	Truck	All	2003		100.0%	18.8%	81.2%			100.0%			100.0%			100.0%		
Subaru	Truck	All	2004		100.0%	17.3%	82.7%			100.0%			100.0%			100.0%		
Subaru	Truck	All	2005		100.0%	17.5%	82.5%			100.0%			100.0%			100.0%		
Subaru	Truck	All	2006		100.0%	9.6%	90.4%			100.0%			100.0%	36.2%		67.3%	32.7%	
Subaru	Truck	All	2007		100.0%	11.2%	88.8%			100.0%			100.0%	24.8%		79.2%	20.8%	
Subaru	Truck	All	2008		100.0%	7.9%	92.1%			100.0%			100.0%	40.7%		61.8%	38.2%	
Subaru	Truck	All	2009		100.0%	9.3%	90.7%			100.0%			100.0%	11.8%			100.0%	
Subaru	Truck	All	2010		100.0%	7.6%	60.1%	32.3%		100.0%			100.0%	100.0%			100.0%	
Subaru	Truck	All	2011		100.0%	4.7%	44.5%	50.7%		100.0%			100.0%	100.0%			100.0%	
Subaru	Truck	All	2012		100.0%	4.6%	95.4%	48.8%		100.0%			100.0%	100.0%				
Subaru	Truck	All	2013		100.0%	6.1%	93.9%	52.7%		100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Subaru	All	All	1975	26.5	20.9	24.9	22.5	2346		83	58	17.1	0.699	0.0248	31.2		
Subaru	All	All	1976	29.7	23.8	27.3	25.3	2366		88	61	16.6	0.696	0.0259	35.3		
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
Subaru	All	All	1978	29.3	23.0	28.0	25.0	2401	89.6	97	67	15.5	0.691	0.0280	35.7	2709	3216
Subaru	All	All	1979	28.9	22.7	27.5	24.6	2432	93.0	97	67	15.7	0.691	0.0276	35.4	2761	3320
Subaru	All	All	1980	27.9	21.5	27.3	23.8	2412	97.0	99	68	15.3	0.693	0.0284	34.0	2761	3310
Subaru	All	All	1981	30.9	24.7	28.6	26.3	2410	98.0	107	70	15.0	0.657	0.0293	37.5	3083	3698
Subaru	All	All	1982	31.6	25.1	29.3	26.8	2525	98.6	108	71	15.5	0.657	0.0281	40.0	3136	3957
Subaru	All	All	1983	31.2	24.7	29.3	26.6	2556	98.8	108	73	15.3	0.675	0.0287	40.0	3098	3960
Subaru	All	All	1984	31.1	24.6	29.2	26.4	2581	97.9	108	73	15.4	0.679	0.0285	40.3	3063	3954
Subaru	All	All	1985	30.5	24.2	28.4	25.9	2629	106.3	109	86	13.9	0.788	0.0326	40.2	3251	4287
Subaru	All	All	1986	30.1	23.8	27.8	25.5	2668	106.7	108	88	13.8	0.816	0.0331	40.3	3222	4300
Subaru	All	All	1987	29.5	23.2	27.1	24.8	2726	108.7	107	90	13.9	0.841	0.0329	40.4	3226	4383
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
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
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
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
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
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
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
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
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
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
Subaru	All	All	1998	27.5	19.7	25.4	22.4	3401	123.8	146	158	10.6	1.078	0.0464	46.8	3446	5806
Subaru	All	All	1999	27.4	19.5	25.3	22.2	3427	123.5	146	159	10.5	1.088	0.0465	47.0	3410	5803
Subaru	All	All	2000	28.0	19.8	25.5	22.5	3445	122.5	149	163	10.4	1.096	0.0474	48.1	3426	5893
Subaru	All	All	2001	27.8	19.5	25.2	22.3	3674	124.2	152	168	10.7	1.104	0.0460	51.0	3443	6525
Subaru	All	All	2002	27.4	19.1	25.0	22.0	3644	116.8	148	180	10.2	1.236	0.0495	50.0	3185	5922
Subaru	All	All	2003	27.3	18.8	24.9	21.8	3671	120.2	150	174	10.5	1.166	0.0475	50.1	3281	6178
Subaru	All	All	2004	27.0	18.4	24.7	21.5	3632	116.5	149	184	10.0	1.249	0.0510	49.2	3154	5882
Subaru	All	All	2005	27.6	18.7	25.1	21.9	3573	119.0	151	191	9.6	1.270	0.0533	49.5	3283	5865
Subaru	All	All	2006	27.3	18.6	24.7	21.6	3680	118.6	156	197	9.5	1.260	0.0534	50.3	3338	5913
Subaru	All	All	2007	28.0	19.1	25.2	22.1	3595	115.6	153	189	9.6	1.233	0.0525	50.3	3293	5812
Subaru	All	All	2008	28.1	19.1	25.4	22.3	3620	118.1	158	188	9.8	1.193	0.0517	50.9	3400	6002
Subaru	All	All	2009	28.7	19.5	25.7	22.6	3543	115.9	153	179	9.9	1.169	0.0503	50.8	3352	5893
Subaru	All	All	2010	29.7	20.2	26.6	23.4	3645	113.7	156	177	10.2	1.134	0.0488	54.5	3467	6097
Subaru	All	All	2011	30.4	20.6	27.3	23.9	3719	113.9	159	185	10.2	1.167	0.0500	56.8	3485	6130
Subaru	All	All	2012	32.2	21.7	28.8	25.2	3663	116.2	151	176	10.5	1.167	0.0480	59.6	4173	7185
Subaru	All	All	2013	33.6	22.7	29.7	26.2	3646	113.5	150	177	10.4	1.185	0.0485	62.0	4195	7169

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Subaru	All	All	1975	100.0%		91.3%										100.0%		
Subaru	All	All	1976	100.0%		63.9%										100.0%		
Subaru	All	All	1977	100.0%		82.5%										100.0%		
Subaru	All	All	1978	80.1%	19.9%	84.7%										100.0%		
Subaru	All	All	1979	42.4%	57.6%	88.9%										100.0%		
Subaru	All	All	1980	59.4%	40.6%	85.6%										100.0%		
Subaru	All	All	1981	65.1%	34.9%	88.0%										100.0%		
Subaru	All	All	1982	70.2%	29.8%	82.1%										100.0%		
Subaru	All	All	1983	67.1%	32.9%	72.2%	27.8%			1.4%	0.2%					100.0%		
Subaru	All	All	1984	64.6%	35.4%	67.5%	32.5%			3.5%						100.0%		
Subaru	All	All	1985	60.8%	39.2%	63.9%	25.5%			25.1%						91.2%	8.8%	
Subaru	All	All	1986	59.7%	40.3%	63.6%	24.8%			25.9%	17.8%					100.0%		
Subaru	All	All	1987	52.6%	47.4%	56.0%	26.9%			20.7%	36.9%		5.8%			100.0%		
Subaru	All	All	1988	57.7%	42.3%	61.1%	27.0%			19.7%	55.5%		20.5%			100.0%		
Subaru	All	All	1989	67.2%	32.8%	40.5%	37.3%	13.2%		16.7%	55.5%		26.2%			79.9%	20.1%	
Subaru	All	All	1990	46.5%	53.5%	35.2%	58.5%	2.3%		74.7%	23.3%		74.9%			100.0%		
Subaru	All	All	1991	14.3%	85.7%	32.6%	59.3%	3.6%		71.6%	25.7%		72.6%			100.0%		
Subaru	All	All	1992	45.1%	54.9%	32.7%	61.5%	0.2%		81.4%	17.9%		65.2%			100.0%		
Subaru	All	All	1993	33.1%	66.9%	32.0%	65.9%	0.6%		85.7%	14.3%		85.7%			100.0%		
Subaru	All	All	1994	45.0%	55.0%	35.7%	63.0%			100.0%			41.0%			100.0%		
Subaru	All	All	1995	14.1%	85.9%	24.9%	75.1%			100.0%			100.0%			53.9%	46.1%	
Subaru	All	All	1996	0.2%	99.8%	28.1%	71.9%			100.0%			100.0%			31.8%	68.2%	
Subaru	All	All	1997	0.9%	99.1%	25.9%	74.1%			100.0%			100.0%			35.5%	64.5%	
Subaru	All	All	1998	0.0%	100.0%	25.1%	74.9%			100.0%			100.0%			50.6%	49.4%	
Subaru	All	All	1999		100.0%	24.6%	75.4%			100.0%			100.0%			52.9%	47.1%	
Subaru	All	All	2000		100.0%	24.6%	75.4%			100.0%			100.0%			43.7%	56.3%	
Subaru	All	All	2001		100.0%	19.3%	80.7%			100.0%			100.0%			50.9%	49.1%	
Subaru	All	All	2002		100.0%	31.3%	68.7%			100.0%			100.0%			64.0%	36.0%	
Subaru	All	All	2003		100.0%	22.7%	77.3%			100.0%			100.0%			64.1%	35.9%	
Subaru	All	All	2004		100.0%	28.0%	72.0%			100.0%			100.0%	7.3%		70.0%	30.0%	
Subaru	All	All	2005		100.0%	24.8%	75.2%			100.0%			100.0%	23.0%		59.0%	41.0%	
Subaru	All	All	2006		100.0%	20.0%	80.0%			100.0%			100.0%	34.6%		57.7%	42.3%	
Subaru	All	All	2007		100.0%	21.8%	78.2%			100.0%			100.0%	30.3%		63.9%	36.1%	
Subaru	All	All	2008		100.0%	19.8%	80.2%			100.0%			100.0%	19.7%		58.4%	41.6%	
Subaru	All	All	2009		100.0%	15.1%	84.9%			100.0%			100.0%	28.8%		34.3%	65.7%	
Subaru	All	All	2010		100.0%	11.0%	54.7%	34.3%		100.0%			100.0%	100.0%		14.7%	85.3%	
Subaru	All	All	2011		100.0%	11.2%	40.0%	48.8%		100.0%			100.0%	100.0%		16.1%	83.9%	
Subaru	All	All	2012		100.0%	9.6%	90.4%	61.2%		100.0%			100.0%	100.0%				
Subaru	All	All	2013		98.2%	11.3%	88.7%	61.9%		100.0%			100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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
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
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
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	19.9	3648	97.9	156	186	9.8	1.205	0.0509	43.4	2337	4256
BMW	Car	Car	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	Car	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	Car	Car	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	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	3676	96.2	179	199	9.5	1.115	0.0540	46.2	2422	4484
BMW	Car	Car	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	Car	2001	24.7	16.8	24.2	20.2	3734	96.7	184	220	8.8	1.206	0.0591	46.2	2399	4507
BMW	Car	Car	2002	26.0	17.6	25.2	21.1	3684	97.9	174	217	9.0	1.253	0.0585	48.0	2565	4724
BMW	Car	Car	2003	26.5	17.8	25.7	21.5	3586	94.7	168	210	9.1	1.259	0.0579	47.6	2528	4548
BMW	Car	Car	2004	26.2	17.4	25.5	21.2	3596	97.2	171	214	8.9	1.261	0.0589	47.2	2561	4597
BMW	Car	Car	2005	26.9	17.8	25.8	21.6	3509	93.1	163	208	9.0	1.300	0.0583	47.3	2526	4415
BMW	Car	Car	2006	27.0	17.8	26.1	21.7	3628	100.5	185	229	8.6	1.254	0.0623	49.2	2738	4955
BMW	Car	Car	2007	27.5	18.1	26.7	22.1	3697	100.6	185	243	8.3	1.327	0.0647	51.2	2801	5150
BMW	Car	Car	2008	27.2	17.8	26.4	21.9	3794	102.0	185	256	8.1	1.394	0.0666	52.0	2810	5300
BMW	Car	Car	2009	28.4	18.7	27.4	22.8	3692	99.1	172	242	8.4	1.411	0.0644	53.0	2868	5236
BMW	Car	Car	2010	28.5	18.8	27.3	22.8	3706	100.4	170	248	8.3	1.470	0.0655	53.3	2910	5344
BMW	Car	Car	2011	29.1	19.1	28.0	23.3	3857	103.0	177	255	8.2	1.442	0.0652	56.7	3052	5870
BMW	Car	Car	2012	32.2	21.2	29.5	25.3	3741	101.6	149	252	8.5	1.693	0.0652	60.9	3355	6236
BMW	Car	Car	2013	32.9	21.6	30.6	26.0	3791	103.5	146	266	8.2	1.833	0.0684	63.0	3472	6571

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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%				99.1%	0.8%	0.0%
BMW	Car	Car	1987			56.9%	42.1%			100.0%						99.3%	0.7%	0.0%
BMW	Car	Car	1988	1.9%		31.1%	67.7%			100.0%			6.7%			69.7%	30.3%	0.0%
BMW	Car	Car	1989		3.4%	26.2%	72.5%			100.0%			1.3%			85.0%	15.0%	
BMW	Car	Car	1990		1.0%	27.8%	71.4%			100.0%			1.4%			80.5%	19.5%	
BMW	Car	Car	1991			41.3%	57.6%			100.0%			54.4%	22.8%		87.7%	12.3%	
BMW	Car	Car	1992			33.0%	67.0%			100.0%			82.5%	71.8%		95.3%	4.7%	
BMW	Car	Car	1993			28.9%	71.1%			100.0%			96.7%	65.7%		85.5%	14.5%	0.0%
BMW	Car	Car	1994			24.9%	75.1%			100.0%			99.4%	62.8%		88.2%	11.8%	0.0%
BMW	Car	Car	1995			27.0%	73.0%			100.0%			99.2%	59.5%		84.8%	15.2%	0.0%
BMW	Car	Car	1996			37.9%	62.1%			100.0%			97.6%	99.7%		89.1%	0.3%	10.6%
BMW	Car	Car	1997			30.9%	69.1%			100.0%			99.4%	99.9%		86.4%	3.5%	10.1%
BMW	Car	Car	1998			32.0%	68.0%			100.0%			99.1%	100.0%		84.8%	4.0%	11.1%
BMW	Car	Car	1999			32.1%	67.9%			100.0%			99.4%	99.7%		92.4%	2.2%	5.4%
BMW	Car	Car	2000			27.9%	72.1%			100.0%			99.9%	99.9%		90.3%	3.0%	6.7%
BMW	Car	Car	2001		7.1%	23.6%	76.4%			100.0%			99.6%	99.9%		87.4%	4.1%	8.5%
BMW	Car	Car	2002	8.7%	9.0%	28.9%	69.5%	1.6%		100.0%			99.9%	91.3%		90.7%	0.0%	9.3%
BMW	Car	Car	2003	14.4%	9.4%	25.4%	70.7%	3.9%		100.0%			100.0%	85.6%		90.7%		9.3%
BMW	Car	Car	2004	13.7%	8.5%	22.9%	72.9%	4.2%		100.0%			100.0%	86.3%		71.4%	21.4%	7.2%
BMW	Car	Car	2005	28.0%	6.6%	25.9%	66.6%	7.5%		100.0%			100.0%	72.0%		78.6%	17.0%	4.4%
BMW	Car	Car	2006	16.7%		17.6%	78.5%	3.9%		100.0%			100.0%	83.4%		74.1%	16.7%	9.1%
BMW	Car	Car	2007	14.3%	18.6%	15.9%	83.5%	0.6%	7.8%	92.2%			100.0%	97.5%		74.2%	19.9%	5.9%
BMW	Car	Car	2008	13.9%	20.2%	14.9%	84.5%	0.5%	10.0%	90.0%			100.0%	98.1%		67.1%	28.3%	4.7%
BMW	Car	Car	2009	22.1%	20.8%	18.3%	81.7%		30.5%	68.8%		0.6%	100.0%	100.0%		82.6%	12.9%	4.5%
BMW	Car	Car	2010	28.4%	24.6%	13.9%	86.1%		36.8%	62.0%		1.2%	100.0%	98.8%		70.2%	23.3%	6.5%
BMW	Car	Car	2011	14.0%	29.5%	10.5%	85.5%		38.8%	59.0%		2.2%	100.0%	97.8%	0.2%	74.8%	20.0%	5.2%
BMW	Car	Car	2012	31.1%	21.9%	13.1%	83.8%		73.1%	26.9%			100.0%	100.0%	0.2%			
BMW	Car	Car	2013	25.3%	26.8%	12.6%	84.1%		82.7%	17.3%			100.0%	100.0%	0.9%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
BMW	Car	All	2012	32.2	21.2	29.5	25.3	3741	101.6	149	252	8.5	1.693	0.0652	60.9	3355	6236
BMW	Car	All	2013	32.9	21.6	30.6	26.0	3791	103.5	146	266	8.2	1.833	0.0684	63.0	3472	6571

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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%				99.1%	0.8%	0.0%
BMW	Car	All	1987			56.9%	42.1%			100.0%						99.3%	0.7%	0.0%
BMW	Car	All	1988	1.9%		31.1%	67.7%			100.0%			6.7%			69.7%	30.3%	0.0%
BMW	Car	All	1989		3.4%	26.2%	72.5%			100.0%			1.3%			85.0%	15.0%	
BMW	Car	All	1990		1.0%	27.8%	71.4%			100.0%			1.4%			80.5%	19.5%	
BMW	Car	All	1991			41.3%	57.6%			100.0%			54.4%	22.8%		87.7%	12.3%	
BMW	Car	All	1992			33.0%	67.0%			100.0%			82.5%	71.8%		95.3%	4.7%	
BMW	Car	All	1993			28.9%	71.1%			100.0%			96.7%	65.7%		85.5%	14.5%	0.0%
BMW	Car	All	1994			24.9%	75.1%			100.0%			99.4%	62.8%		88.2%	11.8%	0.0%
BMW	Car	All	1995			27.0%	73.0%			100.0%			99.2%	59.5%		84.8%	15.2%	0.0%
BMW	Car	All	1996			37.9%	62.1%			100.0%			97.6%	99.7%		89.1%	0.3%	10.6%
BMW	Car	All	1997			30.9%	69.1%			100.0%			99.4%	99.9%		86.4%	3.5%	10.1%
BMW	Car	All	1998			32.0%	68.0%			100.0%			99.1%	100.0%		84.8%	4.0%	11.1%
BMW	Car	All	1999			32.1%	67.9%			100.0%			99.4%	99.7%		92.4%	2.2%	5.4%
BMW	Car	All	2000			27.9%	72.1%			100.0%			99.9%	99.9%		90.3%	3.0%	6.7%
BMW	Car	All	2001		7.1%	23.6%	76.4%			100.0%			99.6%	99.9%		87.4%	4.1%	8.5%
BMW	Car	All	2002	8.7%	9.0%	28.9%	69.5%	1.6%		100.0%			99.9%	91.3%		90.7%	0.0%	9.3%
BMW	Car	All	2003	14.4%	9.4%	25.4%	70.7%	3.9%		100.0%			100.0%	85.6%		90.7%		9.3%
BMW	Car	All	2004	13.7%	8.5%	22.9%	72.9%	4.2%		100.0%			100.0%	86.3%		71.4%	21.4%	7.2%
BMW	Car	All	2005	28.0%	6.6%	25.9%	66.6%	7.5%		100.0%			100.0%	72.0%		78.6%	17.0%	4.4%
BMW	Car	All	2006	16.7%		17.6%	78.5%	3.9%		100.0%			100.0%	83.4%		74.1%	16.7%	9.1%
BMW	Car	All	2007	14.3%	18.6%	15.9%	83.5%	0.6%	7.8%	92.2%			100.0%	97.5%		74.2%	19.9%	5.9%
BMW	Car	All	2008	13.9%	20.2%	14.9%	84.5%	0.5%	10.0%	90.0%			100.0%	98.1%		67.1%	28.3%	4.7%
BMW	Car	All	2009	22.1%	20.8%	18.3%	81.7%		30.5%	68.8%		0.6%	100.0%	100.0%		82.6%	12.9%	4.5%
BMW	Car	All	2010	28.4%	24.6%	13.9%	86.1%		36.8%	62.0%		1.2%	100.0%	98.8%		70.2%	23.3%	6.5%
BMW	Car	All	2011	14.0%	29.5%	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	31.1%	21.9%	13.1%	83.8%		73.1%	26.9%			100.0%	100.0%	0.2%			
BMW	Car	All	2013	25.3%	26.8%	12.6%	84.1%		82.7%	17.3%			100.0%	100.0%	0.9%			



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	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		
BMW	Truck	Truck SUV	2002	20.1	14.0	18.9	16.3	5000		203	243	10.3	1.211	0.0485	50.4		
BMW	Truck	Truck SUV	2003	20.0	13.9	18.7	16.2	5000		205	244	10.2	1.206	0.0488	50.2		
BMW	Truck	Truck SUV	2004	21.5	14.5	20.7	17.4	4508		185	228	10.0	1.231	0.0506	48.3		
BMW	Truck	Truck SUV	2005	21.3	14.3	20.4	17.2	4562		194	239	9.6	1.237	0.0526	48.4		
BMW	Truck	Truck SUV	2006	21.2	14.2	20.4	17.2	4543		196	242	9.5	1.239	0.0536	48.1		
BMW	Truck	Truck SUV	2007	23.4	15.8	22.0	18.8	4581		204	275	8.6	1.363	0.0603	53.5		
BMW	Truck	Truck SUV	2008	22.9	15.5	21.6	18.5	4753		204	278	8.8	1.383	0.0588	54.4		
BMW	Truck	Truck SUV	2009	22.7	15.3	21.4	18.3	4984		205	284	8.7	1.404	0.0571	56.9		
BMW	Truck	Truck SUV	2010	23.6	15.9	22.0	18.9	4935		199	292	8.3	1.460	0.0592	59.0		
BMW	Truck	Truck SUV	2011	25.3	17.0	23.9	20.3	4964		193	300	8.0	1.548	0.0604	63.4		
BMW	Truck	Truck SUV	2012	25.0	16.7	23.7	20.1	5027		191	300	8.3	1.563	0.0596	63.5		
BMW	Truck	Truck SUV	2013	25.1	16.8	23.8	20.2	4890		187	307	8.5	1.669	0.0626	62.0		



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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				100.0%			100.0%			100.0%	100.0%				100.0%
BMW	Truck	Truck SUV	2001		100.0%	4.1%	95.9%			100.0%			100.0%	100.0%				100.0%
BMW	Truck	Truck SUV	2002		100.0%	2.0%	98.0%			100.0%			100.0%	100.0%				100.0%
BMW	Truck	Truck SUV	2003		100.0%	1.6%	98.4%			100.0%			100.0%	100.0%				100.0%
BMW	Truck	Truck SUV	2004		100.0%	8.7%	91.3%			100.0%			100.0%	100.0%			100.0%	
BMW	Truck	Truck SUV	2005		100.0%	1.9%	98.1%			100.0%			100.0%	100.0%			83.7%	16.3%
BMW	Truck	Truck SUV	2006		100.0%	1.2%	98.8%			100.0%			100.0%	100.0%			45.7%	54.3%
BMW	Truck	Truck SUV	2007		100.0%	1.0%	99.0%			100.0%			100.0%	100.0%				100.0%
BMW	Truck	Truck SUV	2008		100.0%	0.7%	99.3%		6.3%	93.7%			100.0%	100.0%				100.0%
BMW	Truck	Truck SUV	2009		100.0%	0.2%	99.8%		12.9%	79.0%		8.1%	100.0%	100.0%				100.0%
BMW	Truck	Truck SUV	2010		100.0%	0.5%	98.4%		14.5%	67.1%		18.4%	100.0%	81.6%	1.2%			100.0%
BMW	Truck	Truck SUV	2011		100.0%		99.9%		60.2%	24.0%		15.9%	100.0%	84.1%	0.1%			100.0%
BMW	Truck	Truck SUV	2012		100.0%		100.0%		65.5%	16.8%		17.7%	100.0%	82.3%				
BMW	Truck	Truck SUV	2013		100.0%		100.0%		100.0%				100.0%	90.1%				



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	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		
BMW	Truck	All	2002	20.1	14.0	18.9	16.3	5000		203	243	10.3	1.211	0.0485	50.4		
BMW	Truck	All	2003	20.0	13.9	18.7	16.2	5000		205	244	10.2	1.206	0.0488	50.2		
BMW	Truck	All	2004	21.5	14.5	20.7	17.4	4508		185	228	10.0	1.231	0.0506	48.3		
BMW	Truck	All	2005	21.3	14.3	20.4	17.2	4562		194	239	9.6	1.237	0.0526	48.4		
BMW	Truck	All	2006	21.2	14.2	20.4	17.2	4543		196	242	9.5	1.239	0.0536	48.1		
BMW	Truck	All	2007	23.4	15.8	22.0	18.8	4581		204	275	8.6	1.363	0.0603	53.5		
BMW	Truck	All	2008	22.9	15.5	21.6	18.5	4753		204	278	8.8	1.383	0.0588	54.4		
BMW	Truck	All	2009	22.7	15.3	21.4	18.3	4984		205	284	8.7	1.404	0.0571	56.9		
BMW	Truck	All	2010	23.6	15.9	22.0	18.9	4935		199	292	8.3	1.460	0.0592	59.0		
BMW	Truck	All	2011	25.3	17.0	23.9	20.3	4964		193	300	8.0	1.548	0.0604	63.4		
BMW	Truck	All	2012	25.0	16.7	23.7	20.1	5027		191	300	8.3	1.563	0.0596	63.5		
BMW	Truck	All	2013	25.1	16.8	23.8	20.2	4890		187	307	8.5	1.669	0.0626	62.0		



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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				100.0%			100.0%			100.0%	100.0%				100.0%
BMW	Truck	All	2001		100.0%	4.1%	95.9%			100.0%			100.0%	100.0%				100.0%
BMW	Truck	All	2002		100.0%	2.0%	98.0%			100.0%			100.0%	100.0%				100.0%
BMW	Truck	All	2003		100.0%	1.6%	98.4%			100.0%			100.0%	100.0%				100.0%
BMW	Truck	All	2004		100.0%	8.7%	91.3%			100.0%			100.0%	100.0%			100.0%	
BMW	Truck	All	2005		100.0%	1.9%	98.1%			100.0%			100.0%	100.0%			83.7%	16.3%
BMW	Truck	All	2006		100.0%	1.2%	98.8%			100.0%			100.0%	100.0%			45.7%	54.3%
BMW	Truck	All	2007		100.0%	1.0%	99.0%			100.0%			100.0%	100.0%				100.0%
BMW	Truck	All	2008		100.0%	0.7%	99.3%		6.3%	93.7%			100.0%	100.0%				100.0%
BMW	Truck	All	2009		100.0%	0.2%	99.8%		12.9%	79.0%		8.1%	100.0%	100.0%				100.0%
BMW	Truck	All	2010		100.0%	0.5%	98.4%		14.5%	67.1%		18.4%	100.0%	81.6%	1.2%			100.0%
BMW	Truck	All	2011		100.0%		99.9%		60.2%	24.0%		15.9%	100.0%	84.1%	0.1%			100.0%
BMW	Truck	All	2012		100.0%		100.0%		65.5%	16.8%		17.7%	100.0%	82.3%				
BMW	Truck	All	2013		100.0%		100.0%		100.0%				100.0%	90.1%				



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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
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
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
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	95.4	182	201	9.5	1.107	0.0538	45.3	2357	4380
BMW	All	All	2001	23.3	16.0	22.6	19.0	3959	96.7	190	226	9.0	1.201	0.0574	46.2	2399	4507
BMW	All	All	2002	24.7	16.8	23.9	20.1	3911	97.9	179	222	9.2	1.246	0.0568	48.4	2565	4724
BMW	All	All	2003	25.2	17.0	24.2	20.4	3811	94.7	174	215	9.2	1.250	0.0565	48.1	2528	4548
BMW	All	All	2004	24.9	16.6	24.2	20.2	3807	97.2	174	217	9.2	1.254	0.0570	47.4	2561	4597
BMW	All	All	2005	25.1	16.7	24.0	20.2	3803	93.1	171	217	9.2	1.283	0.0567	47.6	2526	4415
BMW	All	All	2006	25.8	17.1	24.9	20.8	3779	100.5	187	231	8.7	1.252	0.0608	49.0	2738	4955
BMW	All	All	2007	26.7	17.6	25.7	21.5	3860	100.6	189	249	8.3	1.334	0.0639	51.6	2801	5150
BMW	All	All	2008	26.3	17.4	25.4	21.2	3961	102.0	188	260	8.3	1.392	0.0652	52.4	2810	5300
BMW	All	All	2009	27.3	18.0	26.2	21.9	3903	99.1	178	249	8.4	1.410	0.0632	53.6	2868	5236
BMW	All	All	2010	27.6	18.3	26.3	22.1	3899	100.4	174	255	8.3	1.468	0.0645	54.2	2910	5344
BMW	All	All	2011	28.4	18.7	27.2	22.7	4045	103.0	180	262	8.2	1.460	0.0644	57.9	3052	5870
BMW	All	All	2012	30.0	19.8	27.8	23.7	4071	101.6	160	264	8.4	1.660	0.0637	61.6	3355	6236
BMW	All	All	2013	30.8	20.3	28.8	24.4	4041	103.5	155	275	8.2	1.796	0.0671	62.8	3472	6571

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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%				99.1%	0.8%	0.0%
BMW	All	All	1987			56.9%	42.1%			100.0%						99.3%	0.7%	0.0%
BMW	All	All	1988	1.9%		31.1%	67.7%			100.0%			6.7%			69.7%	30.3%	0.0%
BMW	All	All	1989		3.4%	26.2%	72.5%			100.0%			1.3%			85.0%	15.0%	
BMW	All	All	1990		1.0%	27.8%	71.4%			100.0%			1.4%			80.5%	19.5%	
BMW	All	All	1991			41.3%	57.6%			100.0%			54.4%	22.8%		87.7%	12.3%	
BMW	All	All	1992			33.0%	67.0%			100.0%			82.5%	71.8%		95.3%	4.7%	
BMW	All	All	1993			28.9%	71.1%			100.0%			96.7%	65.7%		85.5%	14.5%	0.0%
BMW	All	All	1994			24.9%	75.1%			100.0%			99.4%	62.8%		88.2%	11.8%	0.0%
BMW	All	All	1995			27.0%	73.0%			100.0%			99.2%	59.5%		84.8%	15.2%	0.0%
BMW	All	All	1996			37.9%	62.1%			100.0%			97.6%	99.7%		89.1%	0.3%	10.6%
BMW	All	All	1997			30.9%	69.1%			100.0%			99.4%	99.9%		86.4%	3.5%	10.1%
BMW	All	All	1998			32.0%	68.0%			100.0%			99.1%	100.0%		84.8%	4.0%	11.1%
BMW	All	All	1999			32.1%	67.9%			100.0%			99.4%	99.7%		92.4%	2.2%	5.4%
BMW	All	All	2000			27.1%	72.9%			100.0%			99.9%	99.9%		87.6%	2.9%	9.5%
BMW	All	All	2001		26.7%	19.5%	80.5%			100.0%			99.7%	100.0%		69.0%	3.2%	27.8%
BMW	All	All	2002	7.2%	24.7%	24.2%	74.4%	1.3%		100.0%			100.0%	92.8%		75.1%	0.0%	24.9%
BMW	All	All	2003	12.1%	23.8%	21.6%	75.1%	3.2%		100.0%			100.0%	87.9%		76.3%		23.7%
BMW	All	All	2004	10.6%	29.6%	19.7%	77.1%	3.2%		100.0%			100.0%	89.4%		54.9%	39.6%	5.5%
BMW	All	All	2005	20.2%	32.6%	19.2%	75.4%	5.4%		100.0%			100.0%	79.8%		56.7%	35.6%	7.7%
BMW	All	All	2006	14.0%	16.5%	14.9%	81.9%	3.2%		100.0%			100.0%	86.1%		61.9%	21.5%	16.6%
BMW	All	All	2007	11.7%	33.6%	13.1%	86.4%	0.5%	6.3%	93.7%			100.0%	98.0%		60.5%	16.2%	23.3%
BMW	All	All	2008	11.5%	34.1%	12.4%	87.1%	0.4%	9.4%	90.6%			100.0%	98.4%		55.4%	23.3%	21.3%
BMW	All	All	2009	18.5%	33.7%	15.4%	84.6%		27.7%	70.5%		1.9%	100.0%	100.0%		69.1%	10.8%	20.1%
BMW	All	All	2010	23.9%	36.5%	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	11.6%	41.5%	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	23.1%	41.9%	9.7%	87.9%		71.2%	24.3%		4.5%	100.0%	95.5%	0.2%			
BMW	All	All	2013	19.5%	43.5%	9.7%	87.8%		86.7%	13.3%			100.0%	97.7%	0.7%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	20.5	16.4	18.9	17.4	3950	97.0	203	119	16.5	0.569	0.0296	43.7	2236	4359
Daimler	Car	Car	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	Car	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	Car	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	Car	1983	26.4	21.4	23.9	22.4	3478	106.5	167	107	15.0	0.638	0.0308	46.7	2878	4973
Daimler	Car	Car	1984	26.0	20.9	23.8	22.1	3330	106.8	166	114	13.7	0.694	0.0343	44.0	2847	4692
Daimler	Car	Car	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	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	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	Car	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	Car	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	Car	1990	21.2	16.1	20.1	17.8	3829	102.5	204	190	10.2	0.952	0.0493	41.0	2215	4191
Daimler	Car	Car	1991	22.2	16.5	21.3	18.6	3836	99.4	204	188	10.5	0.937	0.0484	43.1	2274	4292
Daimler	Car	Car	1992	21.8	16.1	21.0	18.2	3996	103.5	206	213	10.0	1.023	0.0524	43.9	2315	4552
Daimler	Car	Car	1993	22.7	16.7	21.9	18.9	4147	106.2	206	216	10.0	1.043	0.0515	47.4	2456	5048
Daimler	Car	Car	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	Car	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	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	0.0557	50.4	2688	5355
Daimler	Car	Car	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	Car	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	Car	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	Car	2001	24.9	17.0	24.1	20.3	3941	101.2	223	241	8.6	1.092	0.0608	49.1	2517	4989
Daimler	Car	Car	2002	24.6	16.8	23.5	20.0	3887	102.2	208	229	8.9	1.122	0.0586	47.9	2524	4913
Daimler	Car	Car	2003	24.4	16.6	23.3	19.8	3920	97.8	220	248	8.5	1.161	0.0626	48.3	2432	4752
Daimler	Car	Car	2004	24.5	16.5	23.3	19.8	3949	100.7	213	243	8.8	1.186	0.0610	48.8	2518	4951
Daimler	Car	Car	2005	25.0	16.8	23.6	20.1	3869	97.3	201	239	8.8	1.258	0.0613	48.9	2489	4808
Daimler	Car	Car	2006	24.0	16.1	22.9	19.4	4159	111.8	225	267	8.3	1.207	0.0645	50.4	2713	5699
Daimler	Car	Car	2007	23.2	15.5	22.4	18.8	4272	108.5	241	295	8.0	1.237	0.0686	49.8	2532	5449
Daimler	Car	Car	2008	25.3	16.8	24.0	20.3	3998	101.6	219	268	8.4	1.226	0.0652	50.7	2579	5188
Daimler	Car	Car	2009	25.6	17.0	24.4	20.6	3930	95.1	212	261	8.5	1.229	0.0645	50.6	2464	4845
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
Daimler	Car	Car	2011	25.2	16.8	24.2	20.3	4148	102.9	219	270	8.2	1.239	0.0646	52.5	2615	5433
Daimler	Car	Car	2012	28.6	18.8	27.5	22.9	4049	99.7	191	277	8.2	1.489	0.0671	58.2	2885	5862
Daimler	Car	Car	2013	29.6	19.4	28.5	23.7	4114	99.1	200	288	8.0	1.470	0.0689	61.1	2956	6111

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				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			8.1%				34.7%		65.3%				85.4%	14.6%	
Daimler	Car	Car	1980			9.2%				25.3%		74.7%				89.0%	11.0%	
Daimler	Car	Car	1981			10.5%				23.1%		76.9%				92.3%	7.7%	
Daimler	Car	Car	1982			9.0%				20.4%		79.6%				89.9%	10.1%	
Daimler	Car	Car	1983	47.8%		3.6%				11.7%	18.9%	40.5%				46.5%	53.5%	
Daimler	Car	Car	1984	54.4%		2.8%				29.2%	12.7%	25.0%				42.0%	58.0%	
Daimler	Car	Car	1985			3.2%				61.1%		38.9%				86.7%	13.3%	
Daimler	Car	Car	1986			3.9%				92.2%		7.8%	1.5%			66.7%	33.3%	
Daimler	Car	Car	1987			1.2%				79.0%		21.0%	0.9%			66.8%	33.2%	
Daimler	Car	Car	1988			0.5%				99.2%		0.8%				72.8%	27.2%	
Daimler	Car	Car	1989			0.4%				99.6%		0.4%				73.9%	26.1%	
Daimler	Car	Car	1990		0.9%	0.6%				96.5%		3.5%	13.2%			72.7%	27.3%	
Daimler	Car	Car	1991		1.6%	2.8%				91.8%		8.2%	15.9%			76.3%	23.7%	
Daimler	Car	Car	1992		3.3%	0.4%				93.9%		6.1%	35.9%	31.4%		72.9%	3.6%	23.5%
Daimler	Car	Car	1993		1.1%	1.6%				100.0%			65.6%	27.6%		70.4%	2.4%	27.2%
Daimler	Car	Car	1994							98.8%		1.2%	98.8%	27.8%		77.8%	4.3%	17.9%
Daimler	Car	Car	1995							94.4%		5.6%	99.6%	23.9%		75.4%	4.6%	20.0%
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%	100.0%	32.2%		36.1%	49.1%	14.8%
Daimler	Car	Car	1998				100.0%			97.0%		3.0%	100.0%	16.0%		54.1%	37.8%	8.1%
Daimler	Car	Car	1999			1.8%	98.2%			96.7%		3.3%	100.0%	9.5%		53.9%	37.6%	8.5%
Daimler	Car	Car	2000			0.5%	99.5%			100.0%			100.0%	0.2%		39.5%	32.1%	28.5%
Daimler	Car	Car	2001		6.6%	2.2%	97.8%			100.0%			100.0%	4.4%		46.7%	32.4%	20.9%
Daimler	Car	Car	2002		5.6%	3.0%	97.0%			100.0%			100.0%	13.1%		65.1%	18.5%	16.4%
Daimler	Car	Car	2003		2.8%	0.7%	99.3%			100.0%			100.0%	10.8%		59.5%	30.0%	10.5%
Daimler	Car	Car	2004		18.5%	1.0%	99.0%			100.0%			100.0%	16.3%		59.1%	30.1%	10.8%
Daimler	Car	Car	2005		18.0%	0.6%	99.4%			96.1%		3.9%	100.0%	33.2%		69.2%	24.2%	6.6%
Daimler	Car	Car	2006		24.2%	1.1%	98.9%			97.4%		2.6%	100.0%	69.2%		54.5%	29.4%	16.1%
Daimler	Car	Car	2007		24.8%	0.6%	99.4%			98.0%		2.0%	100.0%	38.4%		46.4%	26.4%	27.3%
Daimler	Car	Car	2008		28.9%	0.2%	89.9%			97.9%		2.1%	100.0%	27.3%		63.5%	19.6%	16.8%
Daimler	Car	Car	2009		27.8%	0.1%	89.5%			98.9%		1.1%	100.0%	57.5%		76.4%	13.8%	9.8%
Daimler	Car	Car	2010		38.1%	0.3%	97.4%			100.0%			100.0%	100.0%	1.0%	51.5%	37.6%	10.9%
Daimler	Car	Car	2011		39.3%	0.2%	97.9%		0.8%	97.0%		2.2%	100.0%	99.9%	0.2%	55.8%	38.0%	6.2%
Daimler	Car	Car	2012		34.9%	0.0%	96.9%		74.2%	23.8%		2.0%	100.0%	97.9%	0.0%			
Daimler	Car	Car	2013		36.4%	0.2%	96.9%		96.2%	2.9%		0.8%	100.0%	99.2%	0.2%			

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
Daimler	Car	Car SUV	1975														
Daimler	Car	Car SUV	1976														
Daimler	Car	Car SUV	1977														
Daimler	Car	Car SUV	1978														
Daimler	Car	Car SUV	1979														
Daimler	Car	Car SUV	1980														
Daimler	Car	Car SUV	1981														
Daimler	Car	Car SUV	1982														
Daimler	Car	Car SUV	1983														
Daimler	Car	Car SUV	1984														
Daimler	Car	Car SUV	1985														
Daimler	Car	Car SUV	1986														
Daimler	Car	Car SUV	1987														
Daimler	Car	Car SUV	1988														
Daimler	Car	Car SUV	1989														
Daimler	Car	Car SUV	1990														
Daimler	Car	Car SUV	1991														
Daimler	Car	Car SUV	1992														
Daimler	Car	Car SUV	1993														
Daimler	Car	Car SUV	1994														
Daimler	Car	Car SUV	1995														
Daimler	Car	Car SUV	1996														
Daimler	Car	Car SUV	1997														
Daimler	Car	Car SUV	1998														
Daimler	Car	Car SUV	1999														
Daimler	Car	Car SUV	2000														
Daimler	Car	Car SUV	2001														
Daimler	Car	Car SUV	2002														
Daimler	Car	Car SUV	2003														
Daimler	Car	Car SUV	2004														
Daimler	Car	Car SUV	2005														
Daimler	Car	Car SUV	2006														
Daimler	Car	Car SUV	2007														
Daimler	Car	Car SUV	2008														
Daimler	Car	Car SUV	2009														
Daimler	Car	Car SUV	2010	23.8	16.1	22.1	19.1	4500		213	268	8.6	1.258	0.0596	53.6		
Daimler	Car	Car SUV	2011	23.5	15.9	22.0	18.9	4000		213	268	7.9	1.258	0.0670	47.0		
Daimler	Car	Car SUV	2012	23.5	16.0	21.9	18.9	4157		213	268	8.2	1.255	0.0647	48.9		
Daimler	Car	Car SUV	2013	28.1	19.2	24.9	22.1	4500		213	302	7.9	1.415	0.0671	63.3		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
Daimler	Car	Car SUV	1975															
Daimler	Car	Car SUV	1976															
Daimler	Car	Car SUV	1977															
Daimler	Car	Car SUV	1978															
Daimler	Car	Car SUV	1979															
Daimler	Car	Car SUV	1980															
Daimler	Car	Car SUV	1981															
Daimler	Car	Car SUV	1982															
Daimler	Car	Car SUV	1983															
Daimler	Car	Car SUV	1984															
Daimler	Car	Car SUV	1985															
Daimler	Car	Car SUV	1986															
Daimler	Car	Car SUV	1987															
Daimler	Car	Car SUV	1988															
Daimler	Car	Car SUV	1989															
Daimler	Car	Car SUV	1990															
Daimler	Car	Car SUV	1991															
Daimler	Car	Car SUV	1992															
Daimler	Car	Car SUV	1993															
Daimler	Car	Car SUV	1994															
Daimler	Car	Car SUV	1995															
Daimler	Car	Car SUV	1996															
Daimler	Car	Car SUV	1997															
Daimler	Car	Car SUV	1998															
Daimler	Car	Car SUV	1999															
Daimler	Car	Car SUV	2000															
Daimler	Car	Car SUV	2001															
Daimler	Car	Car SUV	2002															
Daimler	Car	Car SUV	2003															
Daimler	Car	Car SUV	2004															
Daimler	Car	Car SUV	2005															
Daimler	Car	Car SUV	2006															
Daimler	Car	Car SUV	2007															
Daimler	Car	Car SUV	2008															
Daimler	Car	Car SUV	2009															
Daimler	Car	Car SUV	2010				100.0%			100.0%			100.0%	100.0%			100.0%	
Daimler	Car	Car SUV	2011				100.0%			100.0%			100.0%	100.0%			100.0%	
Daimler	Car	Car SUV	2012				100.0%			100.0%			100.0%	100.0%				
Daimler	Car	Car SUV	2013				100.0%		100.0%				100.0%	100.0%				

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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
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
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
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
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
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
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	0.0557	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
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
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
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
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
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
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
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
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
Daimler	Car	All	2010	24.7	16.5	23.6	19.9	4170	104.7	222	273	8.2	1.237	0.0649	51.8	2608	5410
Daimler	Car	All	2011	25.1	16.7	24.0	20.2	4139	102.9	218	270	8.2	1.240	0.0647	52.2	2615	5433
Daimler	Car	All	2012	28.2	18.6	27.0	22.6	4057	99.7	192	276	8.2	1.474	0.0669	57.6	2885	5862
Daimler	Car	All	2013	29.6	19.3	28.3	23.6	4133	99.1	201	289	8.0	1.468	0.0688	61.2	2956	6111

**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	47.8%		3.6%				11.7%	18.9%	40.5%				46.5%	53.5%	
Daimler	Car	All	1984	54.4%		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%	1.5%			66.7%	33.3%	
Daimler	Car	All	1987			1.2%				79.0%		21.0%	0.9%			66.8%	33.2%	
Daimler	Car	All	1988			0.5%				99.2%		0.8%				72.8%	27.2%	
Daimler	Car	All	1989			0.4%				99.6%		0.4%				73.9%	26.1%	
Daimler	Car	All	1990		0.9%	0.6%				96.5%		3.5%	13.2%			72.7%	27.3%	
Daimler	Car	All	1991		1.6%	2.8%				91.8%		8.2%	15.9%			76.3%	23.7%	
Daimler	Car	All	1992		3.3%	0.4%				93.9%		6.1%	35.9%	31.4%		72.9%	3.6%	23.5%
Daimler	Car	All	1993		1.1%	1.6%				100.0%			65.6%	27.6%		70.4%	2.4%	27.2%
Daimler	Car	All	1994							98.8%		1.2%	98.8%	27.8%		77.8%	4.3%	17.9%
Daimler	Car	All	1995							94.4%		5.6%	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%	100.0%	32.2%		36.1%	49.1%	14.8%
Daimler	Car	All	1998				100.0%			97.0%		3.0%	100.0%	16.0%		54.1%	37.8%	8.1%
Daimler	Car	All	1999			1.8%	98.2%			96.7%		3.3%	100.0%	9.5%		53.9%	37.6%	8.5%
Daimler	Car	All	2000			0.5%	99.5%			100.0%			100.0%	0.2%		39.5%	32.1%	28.5%
Daimler	Car	All	2001		6.6%	2.2%	97.8%			100.0%			100.0%	4.4%		46.7%	32.4%	20.9%
Daimler	Car	All	2002		5.6%	3.0%	97.0%			100.0%			100.0%	13.1%		65.1%	18.5%	16.4%
Daimler	Car	All	2003		2.8%	0.7%	99.3%			100.0%			100.0%	10.8%		59.5%	30.0%	10.5%
Daimler	Car	All	2004		18.5%	1.0%	99.0%			100.0%			100.0%	16.3%		59.1%	30.1%	10.8%
Daimler	Car	All	2005		18.0%	0.6%	99.4%			96.1%		3.9%	100.0%	33.2%		69.2%	24.2%	6.6%
Daimler	Car	All	2006		24.2%	1.1%	98.9%			97.4%		2.6%	100.0%	69.2%		54.5%	29.4%	16.1%
Daimler	Car	All	2007		24.8%	0.6%	99.4%			98.0%		2.0%	100.0%	38.4%		46.4%	26.4%	27.3%
Daimler	Car	All	2008		28.9%	0.2%	89.9%			97.9%		2.1%	100.0%	27.3%		63.5%	19.6%	16.8%
Daimler	Car	All	2009		27.8%	0.1%	89.5%			98.9%		1.1%	100.0%	57.5%		76.4%	13.8%	9.8%
Daimler	Car	All	2010		35.4%	0.3%	97.6%			100.0%			100.0%	100.0%	1.0%	47.9%	42.0%	10.1%
Daimler	Car	All	2011		37.0%	0.1%	98.0%		0.7%	97.2%		2.1%	100.0%	99.9%	0.2%	52.6%	41.5%	5.9%
Daimler	Car	All	2012		32.6%	0.0%	97.1%		69.2%	28.9%		1.9%	100.0%	98.0%	0.0%			
Daimler	Car	All	2013		34.6%	0.2%	97.1%		96.4%	2.8%		0.8%	100.0%	99.2%	0.2%			

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	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		
Daimler	Truck	Truck SUV	2000	20.4	14.8	18.5	16.6	5500		214	231	11.6	1.084	0.0419	56.3		
Daimler	Truck	Truck SUV	2001	20.8	14.8	19.0	16.8	5500		214	231	11.6	1.085	0.0420	57.2		
Daimler	Truck	Truck SUV	2002	19.1	13.7	17.0	15.4	5000		227	237	10.5	1.059	0.0475	47.8		
Daimler	Truck	Truck SUV	2003	18.8	13.5	16.6	15.1	5138		239	243	10.5	1.024	0.0472	48.3		
Daimler	Truck	Truck SUV	2004	18.8	13.5	16.4	15.0	5535		245	246	11.0	1.007	0.0444	52.0		
Daimler	Truck	Truck SUV	2005	18.7	13.3	16.4	14.9	5048		247	252	10.1	1.018	0.0497	47.3		
Daimler	Truck	Truck SUV	2006	20.9	14.4	19.2	16.8	5005		233	276	9.2	1.201	0.0551	52.7		
Daimler	Truck	Truck SUV	2007	20.2	14.0	18.4	16.2	5290		252	303	8.7	1.204	0.0570	53.9		
Daimler	Truck	Truck SUV	2008	20.8	14.3	19.0	16.6	5478		248	298	8.9	1.208	0.0543	57.4		
Daimler	Truck	Truck SUV	2009	20.8	14.3	19.0	16.7	5385		244	295	8.9	1.215	0.0547	56.4		
Daimler	Truck	Truck SUV	2010	21.4	14.7	19.6	17.2	5121		232	284	8.9	1.231	0.0557	55.1		
Daimler	Truck	Truck SUV	2011	21.1	14.5	19.3	16.9	5302		236	288	9.0	1.222	0.0544	56.4		
Daimler	Truck	Truck SUV	2012	23.1	15.9	20.8	18.4	5287		228	295	8.6	1.298	0.0561	61.9		
Daimler	Truck	Truck SUV	2013	24.3	16.7	21.8	19.3	5269		228	316	8.4	1.393	0.0601	64.8		

2013 FE Trends Report  
Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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		31.6%		100.0%			100.0%			100.0%				68.4%	31.6%
Daimler	Truck	Truck SUV	2000		25.2%		100.0%			100.0%			100.0%					100.0%
Daimler	Truck	Truck SUV	2001		100.0%		100.0%			100.0%			100.0%					100.0%
Daimler	Truck	Truck SUV	2002		100.0%		100.0%			100.0%			100.0%					100.0%
Daimler	Truck	Truck SUV	2003		100.0%		100.0%			100.0%			100.0%				1.4%	98.6%
Daimler	Truck	Truck SUV	2004		100.0%		100.0%			100.0%			100.0%					100.0%
Daimler	Truck	Truck SUV	2005		100.0%		100.0%			100.0%			100.0%					100.0%
Daimler	Truck	Truck SUV	2006		100.0%		100.0%			100.0%			100.0%	77.8%				100.0%
Daimler	Truck	Truck SUV	2007		100.0%		100.0%			91.5%		8.5%	100.0%					100.0%
Daimler	Truck	Truck SUV	2008		100.0%		100.0%			83.3%		16.7%	100.0%					100.0%
Daimler	Truck	Truck SUV	2009		94.5%		100.0%			86.0%		14.0%	100.0%	75.0%				100.0%
Daimler	Truck	Truck SUV	2010		90.3%		99.0%	1.0%		92.3%		7.7%	100.0%	100.0%	1.0%		33.8%	66.2%
Daimler	Truck	Truck SUV	2011		61.6%		99.9%	0.1%		88.1%		11.9%	100.0%	87.0%	0.1%		16.0%	84.0%
Daimler	Truck	Truck SUV	2012		100.0%		100.0%		39.8%	43.2%		17.0%	100.0%	83.0%				
Daimler	Truck	Truck SUV	2013		87.9%		100.0%		89.8%	0.4%		9.8%	100.0%	90.2%				



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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	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		
Daimler	Truck	All	2000	20.4	14.8	18.5	16.6	5500		214	231	11.6	1.084	0.0419	56.3		
Daimler	Truck	All	2001	20.8	14.8	19.0	16.8	5500		214	231	11.6	1.085	0.0420	57.2		
Daimler	Truck	All	2002	19.1	13.7	17.0	15.4	5000		227	237	10.5	1.059	0.0475	47.8		
Daimler	Truck	All	2003	18.8	13.5	16.6	15.1	5138		239	243	10.5	1.024	0.0472	48.3		
Daimler	Truck	All	2004	18.8	13.5	16.4	15.0	5535		245	246	11.0	1.007	0.0444	52.0		
Daimler	Truck	All	2005	18.7	13.3	16.4	14.9	5048		247	252	10.1	1.018	0.0497	47.3		
Daimler	Truck	All	2006	20.9	14.4	19.2	16.8	5005		233	276	9.2	1.201	0.0551	52.7		
Daimler	Truck	All	2007	20.2	14.0	18.4	16.2	5290		252	303	8.7	1.204	0.0570	53.9		
Daimler	Truck	All	2008	20.8	14.3	19.0	16.6	5478		248	298	8.9	1.208	0.0543	57.4		
Daimler	Truck	All	2009	20.8	14.3	19.0	16.7	5385		244	295	8.9	1.215	0.0547	56.4		
Daimler	Truck	All	2010	21.4	14.7	19.6	17.2	5121		232	284	8.9	1.231	0.0557	55.1		
Daimler	Truck	All	2011	21.1	14.5	19.3	16.9	5302		236	288	9.0	1.222	0.0544	56.4		
Daimler	Truck	All	2012	23.1	15.9	20.8	18.4	5287		228	295	8.6	1.298	0.0561	61.9		
Daimler	Truck	All	2013	24.3	16.7	21.8	19.3	5269		228	316	8.4	1.393	0.0601	64.8		

## 2013 FE Trends Report

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				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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				100.0%			100.0%			100.0%					100.0%
Daimler	Truck	All	1999		31.6%		100.0%			100.0%			100.0%				68.4%	31.6%
Daimler	Truck	All	2000		25.2%		100.0%			100.0%			100.0%					100.0%
Daimler	Truck	All	2001		100.0%		100.0%			100.0%			100.0%					100.0%
Daimler	Truck	All	2002		100.0%		100.0%			100.0%			100.0%					100.0%
Daimler	Truck	All	2003		100.0%		100.0%			100.0%			100.0%				1.4%	98.6%
Daimler	Truck	All	2004		100.0%		100.0%			100.0%			100.0%					100.0%
Daimler	Truck	All	2005		100.0%		100.0%			100.0%			100.0%					100.0%
Daimler	Truck	All	2006		100.0%		100.0%			100.0%			100.0%	77.8%				100.0%
Daimler	Truck	All	2007		100.0%		100.0%			91.5%		8.5%	100.0%					100.0%
Daimler	Truck	All	2008		100.0%		100.0%			83.3%		16.7%	100.0%					100.0%
Daimler	Truck	All	2009		94.5%		100.0%			86.0%		14.0%	100.0%	75.0%				100.0%
Daimler	Truck	All	2010		90.3%		99.0%	1.0%		92.3%		7.7%	100.0%	100.0%	1.0%		33.8%	66.2%
Daimler	Truck	All	2011		61.6%		99.9%	0.1%		88.1%		11.9%	100.0%	87.0%	0.1%		16.0%	84.0%
Daimler	Truck	All	2012		100.0%		100.0%		39.8%	43.2%		17.0%	100.0%	83.0%				
Daimler	Truck	All	2013		87.9%		100.0%		89.8%	0.4%		9.8%	100.0%	90.2%				

## 2013 FE Trends Report

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Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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
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
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
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
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
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
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	0.0557	50.4	2688	5355
Daimler	All	All	1998	25.3	17.7	24.4	20.7	4040	97.9	192	213	9.7	1.118	0.0526	51.5	2697	5209
Daimler	All	All	1999	24.4	17.1	23.3	20.0	4171	98.3	202	225	9.4	1.132	0.0545	51.2	2615	5074
Daimler	All	All	2000	23.6	16.5	22.5	19.3	4390	105.2	219	239	9.4	1.113	0.0555	51.8	2645	5309
Daimler	All	All	2001	23.9	16.5	22.8	19.4	4266	101.2	221	239	9.2	1.091	0.0569	50.8	2517	4989
Daimler	All	All	2002	23.2	16.1	21.7	18.8	4120	102.2	212	231	9.3	1.109	0.0563	47.9	2524	4913
Daimler	All	All	2003	23.4	16.0	22.0	18.9	4098	97.8	223	247	8.8	1.141	0.0604	48.3	2432	4752
Daimler	All	All	2004	23.7	16.1	22.3	19.1	4131	100.7	217	244	9.0	1.166	0.0591	49.2	2518	4951
Daimler	All	All	2005	24.1	16.3	22.5	19.3	4001	97.3	207	241	8.9	1.231	0.0600	48.7	2489	4808
Daimler	All	All	2006	23.4	15.7	22.1	18.8	4323	111.8	226	269	8.5	1.206	0.0627	50.8	2713	5699
Daimler	All	All	2007	22.4	15.1	21.3	18.1	4516	108.5	244	297	8.1	1.229	0.0659	50.8	2532	5449
Daimler	All	All	2008	24.0	16.2	22.6	19.3	4351	101.6	226	275	8.5	1.221	0.0626	52.3	2579	5188
Daimler	All	All	2009	24.3	16.3	23.0	19.5	4263	95.1	220	269	8.6	1.226	0.0623	51.9	2464	4845
Daimler	All	All	2010	23.6	15.9	22.1	18.9	4474	104.7	225	277	8.5	1.235	0.0619	52.8	2608	5410
Daimler	All	All	2011	23.7	16.0	22.3	19.1	4501	102.9	224	276	8.5	1.235	0.0615	53.5	2615	5433
Daimler	All	All	2012	26.3	17.6	24.7	21.1	4450	99.7	204	282	8.3	1.417	0.0635	59.0	2885	5862
Daimler	All	All	2013	27.9	18.5	26.2	22.2	4447	99.1	208	296	8.1	1.447	0.0664	62.2	2956	6111

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	47.8%		3.6%				11.7%	18.9%	40.5%				46.5%	53.5%	
Daimler	All	All	1984	54.4%		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%	1.5%			66.7%	33.3%	
Daimler	All	All	1987			1.2%				79.0%		21.0%	0.9%			66.8%	33.2%	
Daimler	All	All	1988			0.5%				99.2%		0.8%				72.8%	27.2%	
Daimler	All	All	1989			0.4%				99.6%		0.4%				73.9%	26.1%	
Daimler	All	All	1990		0.9%	0.6%				96.5%		3.5%	13.2%			72.7%	27.3%	
Daimler	All	All	1991		1.6%	2.8%				91.8%		8.2%	15.9%			76.3%	23.7%	
Daimler	All	All	1992		3.3%	0.4%				93.9%		6.1%	35.9%	31.4%		72.9%	3.6%	23.5%
Daimler	All	All	1993		1.1%	1.6%				100.0%			65.6%	27.6%		70.4%	2.4%	27.2%
Daimler	All	All	1994							98.8%		1.2%	98.8%	27.8%		77.8%	4.3%	17.9%
Daimler	All	All	1995							94.4%		5.6%	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%	100.0%	32.2%		36.1%	49.1%	14.8%
Daimler	All	All	1998				100.0%			97.8%		2.2%	100.0%	11.8%		40.0%	28.0%	32.0%
Daimler	All	All	1999		8.2%	1.4%	98.6%			97.6%		2.4%	100.0%	7.0%		39.9%	45.6%	14.5%
Daimler	All	All	2000		6.3%	0.4%	99.6%			100.0%			100.0%	0.2%		29.5%	24.0%	46.4%
Daimler	All	All	2001		26.1%	1.7%	98.3%			100.0%			100.0%	3.4%		36.9%	25.7%	37.4%
Daimler	All	All	2002		25.4%	2.4%	97.6%			100.0%			100.0%	10.4%		51.4%	14.6%	34.0%
Daimler	All	All	2003		17.0%	0.6%	99.4%			100.0%			100.0%	9.2%		50.8%	25.8%	23.4%
Daimler	All	All	2004		27.8%	0.9%	99.1%			100.0%			100.0%	14.4%		52.3%	26.6%	21.0%
Daimler	All	All	2005		27.1%	0.6%	99.4%			96.5%		3.5%	100.0%	29.5%		61.5%	21.5%	17.0%
Daimler	All	All	2006		38.9%	0.9%	99.1%			97.9%		2.1%	100.0%	70.9%		43.9%	23.7%	32.4%
Daimler	All	All	2007		42.8%	0.4%	99.6%			96.5%		3.5%	100.0%	29.2%		35.3%	20.0%	44.7%
Daimler	All	All	2008		45.9%	0.2%	92.3%			94.4%		5.6%	100.0%	20.8%		48.4%	14.9%	36.7%
Daimler	All	All	2009		43.0%	0.1%	91.9%			95.9%		4.1%	100.0%	61.5%		58.9%	10.7%	30.4%
Daimler	All	All	2010		53.0%	0.2%	98.0%	0.3%		97.5%		2.5%	100.0%	100.0%	1.0%	32.6%	39.4%	28.1%
Daimler	All	All	2011		44.6%	0.1%	98.6%	0.0%	0.5%	94.4%		5.1%	100.0%	95.9%	0.1%	36.3%	33.6%	30.1%
Daimler	All	All	2012		54.1%	0.0%	98.0%		59.8%	33.5%		6.7%	100.0%	93.2%	0.0%			
Daimler	All	All	2013		49.3%	0.2%	97.9%		94.6%	2.1%		3.3%	100.0%	96.7%	0.2%			



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
All	Car	Car	1975	15.8	12.3	15.2	13.5	4058		288	136	14.2	0.515	0.0331	32.3		
All	Car	Car	1976	17.5	13.7	16.6	14.9	4059		287	134	14.4	0.502	0.0324	35.5		
All	Car	Car	1977	18.3	14.4	17.4	15.6	3944	110.4	279	133	14.0	0.516	0.0335	36.4	2091	4021
All	Car	Car	1978	19.9	15.5	19.1	16.9	3588	109.0	251	124	13.7	0.538	0.0342	35.9	2240	3926
All	Car	Car	1979	20.3	15.9	19.2	17.2	3485	108.9	238	119	13.8	0.545	0.0338	35.4	2258	3878
All	Car	Car	1980	23.5	18.3	22.6	20.0	3101	104.2	188	100	14.3	0.583	0.0322	36.6	2507	3841
All	Car	Car	1981	25.1	19.6	24.2	21.4	3076	106.5	182	99	14.4	0.594	0.0320	38.9	2744	4161
All	Car	Car	1982	26.0	20.1	25.5	22.2	3054	106.1	175	99	14.4	0.609	0.0320	40.1	2836	4273
All	Car	Car	1983	25.9	19.9	25.5	22.1	3112	108.7	182	104	14.0	0.615	0.0330	40.7	2904	4426
All	Car	Car	1984	26.3	20.2	26.0	22.4	3099	107.5	179	106	13.8	0.637	0.0339	41.1	2910	4425
All	Car	Car	1985	27.0	20.7	26.8	23.0	3093	108.2	177	111	13.3	0.671	0.0355	42.0	2992	4551
All	Car	Car	1986	27.9	21.2	27.6	23.7	3041	107.3	167	111	13.2	0.701	0.0360	42.6	3057	4585
All	Car	Car	1987	28.1	21.2	27.7	23.8	3031	106.6	162	112	13.0	0.732	0.0365	42.8	3051	4569
All	Car	Car	1988	28.6	21.4	28.2	24.1	3047	107.0	160	116	12.8	0.759	0.0375	43.7	3119	4693
All	Car	Car	1989	28.1	20.9	27.9	23.7	3099	107.7	163	121	12.5	0.783	0.0387	43.8	3080	4723
All	Car	Car	1990	27.8	20.5	27.5	23.3	3176	107.1	163	129	12.1	0.829	0.0401	44.2	3014	4746
All	Car	Car	1991	28.0	20.5	27.6	23.4	3154	106.8	163	132	11.8	0.851	0.0413	44.3	3040	4746
All	Car	Car	1992	27.6	20.0	27.5	23.1	3240	108.4	170	141	11.5	0.868	0.0428	44.9	3040	4877
All	Car	Car	1993	28.2	20.3	27.9	23.5	3207	108.4	166	138	11.6	0.865	0.0425	45.4	3107	4929
All	Car	Car	1994	28.0	20.0	27.7	23.3	3250	108.2	168	143	11.4	0.884	0.0432	45.7	3086	4955
All	Car	Car	1995	28.3	20.0	28.1	23.4	3263	108.7	167	152	10.9	0.945	0.0460	46.4	3130	5045
All	Car	Car	1996	28.3	19.8	28.0	23.3	3282	109.0	165	154	10.8	0.958	0.0464	46.5	3125	5080
All	Car	Car	1997	28.4	19.8	28.0	23.4	3274	108.7	164	156	10.7	0.974	0.0469	46.7	3127	5076
All	Car	Car	1998	28.5	19.7	28.0	23.4	3306	108.6	164	159	10.6	0.993	0.0475	47.3	3138	5145
All	Car	Car	1999	28.2	19.4	27.5	23.0	3365	109.1	166	164	10.5	1.009	0.0481	47.5	3106	5191
All	Car	Car	2000	28.2	19.3	27.3	22.9	3369	109.6	165	168	10.4	1.032	0.0492	47.6	3121	5224
All	Car	Car	2001	28.4	19.4	27.3	23.0	3380	109.3	165	168	10.3	1.042	0.0492	48.4	3159	5292
All	Car	Car	2002	28.6	19.4	27.2	23.1	3391	110.0	166	173	10.2	1.066	0.0504	48.9	3200	5382
All	Car	Car	2003	29.0	19.5	27.5	23.3	3417	109.6	165	176	10.0	1.087	0.0510	49.9	3237	5481
All	Car	Car	2004	28.9	19.3	27.4	23.1	3462	110.4	168	183	9.8	1.106	0.0521	50.5	3261	5587
All	Car	Car	2005	29.5	19.6	27.6	23.5	3463	111.4	166	182	9.8	1.115	0.0518	51.8	3384	5790
All	Car	Car	2006	29.2	19.4	27.5	23.3	3534	111.5	172	194	9.6	1.146	0.0540	52.4	3351	5855
All	Car	Car	2007	30.3	20.1	28.3	24.1	3507	110.2	165	189	9.6	1.157	0.0531	54.2	3468	5994
All	Car	Car	2008	30.5	20.2	28.5	24.3	3527	109.9	165	193	9.6	1.178	0.0536	54.9	3490	6056
All	Car	Car	2009	32.1	21.3	29.6	25.3	3464	110.0	155	184	9.8	1.190	0.0520	56.5	3645	6228
All	Car	Car	2010	33.2	22.0	30.5	26.2	3474	110.5	156	187	9.6	1.197	0.0527	59.8	3863	6629
All	Car	Car	2011	32.8	21.6	30.8	26.0	3559	111.1	159	199	9.4	1.252	0.0548	59.9	3795	6665
All	Car	Car	2012	35.3	23.2	32.6	27.8	3448	110.7	148	189	9.6	1.279	0.0537	62.4	4067	6927
All	Car	Car	2013	35.7	23.4	32.9	28.0	3504	110.2	148	199	9.4	1.343	0.0555	64.7	4136	7160

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
All	Car	Car	1975	6.5%		19.6%	0.3%			5.1%		0.2%				55.4%	23.3%	21.3%
All	Car	Car	1976	5.8%		17.1%				3.2%		0.3%				55.4%	25.2%	19.4%
All	Car	Car	1977	6.8%		16.8%				4.2%		0.5%				51.9%	24.5%	23.5%
All	Car	Car	1978	9.6%		19.8%	7.1%			5.1%		0.9%				44.7%	34.4%	21.0%
All	Car	Car	1979	11.9%	0.3%	21.1%	8.8%			4.7%		2.1%				43.7%	34.2%	22.1%
All	Car	Car	1980	29.7%	0.9%	30.9%	16.8%			6.2%	0.7%	4.4%				54.4%	34.4%	11.3%
All	Car	Car	1981	37.0%	0.7%	29.9%	33.3%			6.1%	2.6%	5.9%				51.5%	36.4%	12.2%
All	Car	Car	1982	45.6%	0.8%	29.2%	51.4%			7.2%	9.8%	4.7%				56.5%	31.0%	12.5%
All	Car	Car	1983	47.3%	3.1%	26.1%	56.7%			9.5%	18.9%	2.1%				53.1%	31.8%	15.1%
All	Car	Car	1984	53.7%	1.0%	24.1%	58.3%			15.0%	24.4%	1.7%				57.4%	29.4%	13.2%
All	Car	Car	1985	61.6%	2.1%	22.8%	58.7%			21.4%	32.0%	0.9%				55.7%	28.9%	15.4%
All	Car	Car	1986	71.1%	1.1%	24.8%	58.0%			36.7%	28.4%	0.3%	4.8%			59.5%	27.9%	12.6%
All	Car	Car	1987	77.0%	1.1%	24.9%	59.5%			42.5%	30.5%	0.3%	14.7%			63.5%	24.3%	12.2%
All	Car	Car	1988	81.7%	0.8%	24.3%	66.1%			53.7%	30.0%	0.0%	19.9%			64.8%	22.3%	12.8%
All	Car	Car	1989	82.5%	1.0%	21.0%	69.3%	0.1%		62.4%	27.8%	0.0%	24.4%			58.3%	28.2%	13.5%
All	Car	Car	1990	84.6%	1.0%	19.6%	72.9%	0.0%		77.5%	21.1%	0.0%	33.0%	0.6%		58.6%	28.7%	12.8%
All	Car	Car	1991	83.2%	1.4%	20.5%	73.6%	0.0%		78.0%	21.8%	0.1%	34.1%	2.4%		61.5%	26.2%	12.3%
All	Car	Car	1992	80.8%	1.1%	17.4%	76.4%	0.0%		89.5%	10.4%	0.1%	35.0%	4.6%		56.5%	27.8%	15.6%
All	Car	Car	1993	85.1%	1.2%	17.8%	77.0%	0.0%		91.6%	8.4%		36.7%	4.8%		57.2%	29.5%	13.3%
All	Car	Car	1994	84.4%	0.4%	16.7%	79.3%			94.9%	5.1%	0.0%	41.0%	8.0%		58.5%	26.1%	15.4%
All	Car	Car	1995	82.0%	1.2%	16.3%	81.9%			98.8%	1.2%	0.1%	52.2%	9.8%		57.3%	28.6%	14.0%
All	Car	Car	1996	86.5%	1.5%	14.9%	83.6%	0.0%		98.8%	1.1%	0.1%	57.3%	11.7%		54.3%	32.0%	13.6%
All	Car	Car	1997	86.5%	1.7%	13.5%	85.8%	0.1%		99.1%	0.8%	0.1%	58.6%	11.3%		55.1%	30.6%	14.3%
All	Car	Car	1998	87.0%	2.3%	12.3%	87.3%	0.1%		99.7%	0.1%	0.2%	61.4%	18.4%		49.4%	39.1%	11.4%
All	Car	Car	1999	87.2%	2.2%	10.9%	88.4%	0.0%		99.7%	0.1%	0.2%	64.7%	17.1%		47.7%	39.7%	12.6%
All	Car	Car	2000	84.9%	2.1%	11.2%	87.7%	0.0%		99.7%	0.1%	0.2%	65.1%	23.4%	0.1%	47.5%	34.3%	18.2%
All	Car	Car	2001	84.1%	3.2%	11.4%	87.5%	0.2%		99.7%		0.3%	67.3%	28.3%	0.0%	50.8%	32.3%	16.8%
All	Car	Car	2002	84.9%	3.8%	11.2%	88.2%	0.4%		99.6%		0.4%	69.9%	33.9%	0.3%	48.6%	36.3%	15.1%
All	Car	Car	2003	82.0%	3.5%	11.2%	87.9%	0.9%		99.6%		0.4%	73.8%	41.3%	0.6%	50.6%	33.5%	15.9%
All	Car	Car	2004	80.8%	5.4%	10.2%	88.2%	1.4%		99.7%		0.3%	77.3%	44.2%	0.9%	47.4%	35.6%	17.0%
All	Car	Car	2005	79.8%	5.8%	9.3%	88.0%	2.6%		99.6%		0.4%	78.2%	51.6%	2.1%	44.2%	38.9%	16.9%
All	Car	Car	2006	75.8%	5.8%	9.4%	88.1%	2.4%		99.4%		0.6%	80.8%	60.6%	1.5%	46.2%	32.9%	20.9%
All	Car	Car	2007	80.5%	5.7%	8.5%	81.1%	10.4%	0.3%	99.6%		0.0%	84.8%	65.2%	3.4%	44.6%	40.0%	15.4%
All	Car	Car	2008	77.7%	7.3%	8.0%	80.2%	11.5%	3.2%	96.8%		0.1%	87.8%	63.5%	3.4%	44.6%	35.8%	19.5%
All	Car	Car	2009	82.6%	6.7%	6.8%	82.0%	10.8%	4.5%	94.8%		0.7%	92.0%	79.7%	3.0%	47.6%	35.4%	17.0%
All	Car	Car	2010	81.6%	5.9%	5.7%	77.7%	14.8%	6.6%	92.4%		1.0%	92.8%	90.5%	6.1%	48.8%	37.5%	13.7%
All	Car	Car	2011	78.2%	8.4%	5.4%	81.2%	12.8%	16.4%	82.4%		1.1%	93.5%	93.9%	4.1%	38.5%	43.4%	18.2%
All	Car	Car	2012	84.2%	6.2%	5.6%	87.8%	15.3%	25.8%	73.0%		1.2%	98.2%	97.6%	5.3%			
All	Car	Car	2013	79.7%	8.0%	7.7%	84.3%	18.3%	35.9%	62.6%		1.5%	97.9%	97.7%	7.1%			



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
All	Car	Car SUV	1975	13.1	10.1	12.6	11.1	4000		262	113	15.6	0.430	0.0282	26.5		
All	Car	Car SUV	1976	12.4	9.4	12.5	10.6	3986		263	123	14.6	0.467	0.0309	25.9		
All	Car	Car SUV	1977	14.3	11.2	13.6	12.2	4000		261	124	14.4	0.477	0.0311	29.5		
All	Car	Car SUV	1978	13.6	10.4	13.5	11.6	4000		262	126	14.2	0.481	0.0315	27.9		
All	Car	Car SUV	1979	16.8	13.9	14.8	14.3	3271		185	99	14.9	0.576	0.0300	27.8		
All	Car	Car SUV	1980	17.2	13.9	15.5	14.6	4000		280	122	15.1	0.436	0.0305	34.6		
All	Car	Car SUV	1981	17.3	13.7	16.1	14.7	4000		318	140	13.3	0.440	0.0350	34.5		
All	Car	Car SUV	1982	23.4	20.2	19.3	19.8	2630		159	88	13.7	0.557	0.0335	30.7		
All	Car	Car SUV	1983	24.3	19.5	22.4	20.7	3124		163	101	14.1	0.617	0.0325	38.4		
All	Car	Car SUV	1984	22.6	17.5	22.1	19.3	3487		179	109	14.5	0.615	0.0313	39.7		
All	Car	Car SUV	1985	23.5	17.6	24.2	20.1	3469		171	109	14.4	0.637	0.0314	40.8		
All	Car	Car SUV	1986	22.3	17.1	21.7	18.9	3479		170	121	13.3	0.713	0.0348	38.9		
All	Car	Car SUV	1987	22.9	17.1	23.1	19.4	3492		179	131	12.7	0.730	0.0374	40.0		
All	Car	Car SUV	1988	22.7	17.1	22.5	19.2	3495		199	142	11.9	0.719	0.0405	39.9		
All	Car	Car SUV	1989	22.7	17.1	22.1	19.1	3497		226	148	11.4	0.668	0.0422	39.8		
All	Car	Car SUV	1990	22.5	16.9	21.5	18.8	3518		209	146	11.7	0.714	0.0415	39.6		
All	Car	Car SUV	1991	21.8	16.4	20.5	18.2	3733		215	145	12.6	0.680	0.0385	40.7		
All	Car	Car SUV	1992	21.4	16.1	20.1	17.8	3713		210	153	12.0	0.734	0.0409	39.9		
All	Car	Car SUV	1993	20.4	15.0	19.6	17.0	3848		238	179	10.8	0.757	0.0462	39.5		
All	Car	Car SUV	1994	21.8	16.1	20.5	18.0	3735		209	163	11.3	0.791	0.0434	40.6		
All	Car	Car SUV	1995	21.5	15.7	20.5	17.8	3763		214	165	11.4	0.783	0.0436	40.6		
All	Car	Car SUV	1996	22.4	16.2	21.1	18.4	3710		215	167	11.0	0.802	0.0448	41.7		
All	Car	Car SUV	1997	23.5	17.1	21.7	19.2	3549		190	159	11.0	0.875	0.0446	41.9		
All	Car	Car SUV	1998	22.3	16.0	20.8	18.2	3824		218	168	11.1	0.802	0.0439	42.8		
All	Car	Car SUV	1999	22.7	16.3	21.0	18.5	3831		211	170	11.1	0.846	0.0442	43.7		
All	Car	Car SUV	2000	22.0	15.7	20.3	17.9	3870		211	174	11.0	0.857	0.0448	42.8		
All	Car	Car SUV	2001	23.3	16.4	21.4	18.8	3765		194	180	10.5	0.961	0.0477	44.2		
All	Car	Car SUV	2002	24.0	16.8	22.0	19.3	3747		183	179	10.4	1.003	0.0479	45.3		
All	Car	Car SUV	2003	24.8	17.2	22.7	19.9	3716		181	181	10.3	1.014	0.0486	46.4		
All	Car	Car SUV	2004	24.9	17.0	23.1	20.0	3854		191	198	9.9	1.039	0.0511	48.2		
All	Car	Car SUV	2005	25.4	17.3	23.2	20.2	3848		186	192	10.1	1.040	0.0498	49.0		
All	Car	Car SUV	2006	25.7	17.5	23.5	20.5	3876		184	192	10.2	1.051	0.0493	50.0		
All	Car	Car SUV	2007	25.9	17.6	23.8	20.6	3935		185	208	9.7	1.127	0.0524	51.2		
All	Car	Car SUV	2008	26.6	18.1	24.4	21.2	3902		179	204	9.8	1.141	0.0518	52.4		
All	Car	Car SUV	2009	27.8	18.8	25.3	22.0	3846		175	206	9.6	1.174	0.0534	53.9		
All	Car	Car SUV	2010	29.1	19.6	26.5	23.0	3949		172	213	9.5	1.240	0.0538	57.8		
All	Car	Car SUV	2011	29.9	20.0	27.4	23.6	3890		166	207	9.7	1.243	0.0530	58.5		
All	Car	Car SUV	2012	29.6	19.8	27.1	23.4	3913		167	211	9.6	1.259	0.0536	58.5		
All	Car	Car SUV	2013	31.2	20.7	28.5	24.5	3951		159	210	9.8	1.335	0.0528	61.9		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
All	Car	Car SUV	1975			68.3%										61.4%	38.6%	
All	Car	Car SUV	1976			69.1%										63.1%	36.9%	
All	Car	Car SUV	1977			82.5%										79.5%	20.5%	
All	Car	Car SUV	1978			84.2%										81.6%	18.4%	
All	Car	Car SUV	1979			37.7%	3.9%									83.5%	16.5%	
All	Car	Car SUV	1980			3.9%	86.8%										100.0%	
All	Car	Car SUV	1981				100.0%										100.0%	
All	Car	Car SUV	1982			4.6%	8.9%									86.5%	13.5%	
All	Car	Car SUV	1983			19.3%	43.2%									37.6%	62.4%	
All	Car	Car SUV	1984			19.4%	64.8%									5.6%	94.4%	
All	Car	Car SUV	1985			15.9%	84.1%				5.3%						100.0%	
All	Car	Car SUV	1986			18.1%	81.9%			0.0%	86.8%	0.0%				0.0%	100.0%	
All	Car	Car SUV	1987			14.3%	85.7%			32.8%	67.2%					24.1%	75.9%	
All	Car	Car SUV	1988			24.6%	75.4%			48.2%	51.8%					35.2%	64.8%	
All	Car	Car SUV	1989			27.4%	72.6%			44.7%	53.9%					32.0%	68.0%	
All	Car	Car SUV	1990			35.1%	63.0%			63.3%	31.6%					41.2%	58.8%	
All	Car	Car SUV	1991			22.2%	77.7%			49.3%	49.9%					20.9%	79.1%	
All	Car	Car SUV	1992			24.6%	75.4%			68.4%	30.3%					19.9%	80.1%	
All	Car	Car SUV	1993			10.9%	89.1%			90.6%	8.7%					10.2%	89.8%	
All	Car	Car SUV	1994	2.6%		21.5%	70.9%			92.1%	7.9%		11.5%			18.7%	81.3%	
All	Car	Car SUV	1995	0.1%		17.4%	82.6%			90.8%	9.2%		19.1%			11.5%	88.5%	
All	Car	Car SUV	1996	6.3%		15.4%	84.6%			100.0%			32.4%			14.4%	85.6%	
All	Car	Car SUV	1997	20.3%		23.2%	70.7%			100.0%			54.6%			41.3%	58.7%	
All	Car	Car SUV	1998	10.3%		11.1%	88.9%			100.0%			29.2%			18.4%	81.6%	
All	Car	Car SUV	1999	15.4%		8.4%	91.6%			100.0%			38.4%	4.6%		13.5%	85.6%	0.9%
All	Car	Car SUV	2000	12.7%		5.7%	94.3%			100.0%			34.0%	5.0%		21.2%	78.1%	0.6%
All	Car	Car SUV	2001	37.1%		6.2%	93.8%			100.0%			43.1%	10.0%		18.7%	75.3%	6.0%
All	Car	Car SUV	2002	55.5%		7.5%	92.3%	0.2%		100.0%			70.3%	18.2%		18.3%	75.3%	6.4%
All	Car	Car SUV	2003	65.9%		7.2%	84.3%	8.5%		100.0%			68.1%	19.6%		10.0%	83.4%	6.6%
All	Car	Car SUV	2004	72.9%	3.4%	5.8%	87.9%	6.3%		100.0%			75.5%	37.9%		7.0%	78.4%	14.6%
All	Car	Car SUV	2005	74.0%	14.5%	3.7%	91.9%	4.5%		100.0%			67.5%	27.3%	0.5%	5.0%	58.8%	36.2%
All	Car	Car SUV	2006	77.7%	8.6%	3.1%	91.7%	5.2%		100.0%			86.8%	33.4%	1.1%		65.8%	34.2%
All	Car	Car SUV	2007	85.4%	4.7%	1.6%	94.5%	3.9%		100.0%			82.7%	46.8%	1.6%	0.2%	66.3%	33.4%
All	Car	Car SUV	2008	87.0%	5.3%	0.7%	93.6%	5.7%	2.2%	97.8%			89.6%	56.4%	2.3%		72.8%	27.2%
All	Car	Car SUV	2009	92.2%	2.8%	0.6%	85.9%	13.5%	1.3%	98.7%			94.1%	73.7%	2.7%		75.2%	24.8%
All	Car	Car SUV	2010	88.4%	8.9%	0.2%	91.5%	8.3%	26.2%	73.8%			100.0%	99.9%	1.4%		58.9%	41.1%
All	Car	Car SUV	2011	88.8%	9.7%	0.5%	91.5%	8.0%	27.6%	72.4%			100.0%	99.8%	0.6%		61.3%	38.7%
All	Car	Car SUV	2012	81.7%	14.5%	0.4%	98.5%	11.1%	39.4%	60.6%			98.0%	98.0%	0.4%			
All	Car	Car SUV	2013	86.1%	12.2%	0.5%	99.1%	8.6%	47.5%	52.5%			100.0%	99.5%	0.3%			



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
All	Car	All	1975	15.8	12.3	15.2	13.5	4057		288	136	14.2	0.515	0.0331	32.3		
All	Car	All	1976	17.5	13.7	16.6	14.9	4059		287	134	14.4	0.502	0.0324	35.5		
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	2091	4021
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	2240	3926
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	2258	3878
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
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	2744	4161
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	4273
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	2904	4426
All	Car	All	1984	26.3	20.2	25.9	22.4	3101	107.5	179	106	13.8	0.637	0.0338	41.1	2910	4425
All	Car	All	1985	26.9	20.6	26.7	23.0	3096	108.2	177	111	13.3	0.671	0.0354	41.9	2992	4551
All	Car	All	1986	27.9	21.2	27.6	23.7	3043	107.3	167	111	13.2	0.701	0.0360	42.6	3057	4585
All	Car	All	1987	28.0	21.2	27.7	23.8	3035	106.6	162	113	13.0	0.732	0.0365	42.7	3051	4569
All	Car	All	1988	28.5	21.4	28.1	24.1	3051	107.0	161	116	12.8	0.758	0.0375	43.7	3119	4693
All	Car	All	1989	28.1	20.8	27.8	23.6	3104	107.7	163	121	12.4	0.782	0.0387	43.7	3080	4723
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	3014	4746
All	Car	All	1991	27.8	20.4	27.4	23.3	3168	106.8	164	133	11.9	0.847	0.0413	44.2	3040	4746
All	Car	All	1992	27.4	19.8	27.2	22.9	3254	108.4	171	141	11.5	0.864	0.0427	44.7	3040	4877
All	Car	All	1993	27.6	19.9	27.3	23.0	3241	108.4	170	140	11.5	0.859	0.0427	45.1	3107	4929
All	Car	All	1994	27.7	19.8	27.4	23.0	3268	108.2	169	144	11.4	0.880	0.0432	45.5	3086	4955
All	Car	All	1995	28.1	19.8	27.9	23.3	3274	108.7	168	153	10.9	0.941	0.0460	46.2	3130	5045
All	Car	All	1996	28.0	19.7	27.6	23.1	3297	109.0	167	155	10.8	0.952	0.0463	46.4	3125	5080
All	Car	All	1997	28.2	19.7	27.6	23.2	3285	108.7	165	156	10.7	0.970	0.0468	46.5	3127	5076
All	Car	All	1998	28.1	19.5	27.5	23.0	3334	108.6	167	160	10.6	0.983	0.0473	47.1	3138	5145
All	Car	All	1999	27.8	19.2	27.0	22.7	3390	109.1	168	164	10.5	1.000	0.0479	47.3	3106	5191
All	Car	All	2000	27.7	19.0	26.7	22.5	3401	109.6	168	168	10.4	1.021	0.0489	47.3	3121	5224
All	Car	All	2001	27.9	19.1	26.7	22.6	3411	109.3	167	169	10.3	1.035	0.0491	48.0	3159	5292
All	Car	All	2002	28.3	19.2	26.8	22.8	3415	110.0	167	173	10.2	1.061	0.0502	48.6	3200	5382
All	Car	All	2003	28.7	19.3	27.1	23.0	3437	109.6	166	176	10.0	1.082	0.0508	49.7	3237	5481
All	Car	All	2004	28.5	19.1	27.0	22.9	3492	110.4	170	184	9.8	1.101	0.0520	50.3	3261	5587
All	Car	All	2005	29.1	19.4	27.2	23.1	3498	111.4	168	183	9.9	1.108	0.0516	51.5	3384	5790
All	Car	All	2006	28.9	19.2	27.1	23.0	3563	111.5	173	194	9.6	1.138	0.0536	52.2	3351	5855
All	Car	All	2007	29.8	19.8	27.8	23.7	3551	110.2	167	191	9.6	1.154	0.0530	53.9	3468	5994
All	Car	All	2008	30.1	20.0	28.0	23.9	3569	109.9	166	194	9.6	1.174	0.0534	54.6	3490	6056
All	Car	All	2009	31.6	21.0	29.2	25.0	3502	110.0	157	186	9.8	1.189	0.0522	56.3	3645	6228
All	Car	All	2010	32.6	21.7	29.9	25.7	3536	110.5	158	190	9.6	1.203	0.0528	59.6	3863	6629
All	Car	All	2011	32.3	21.3	30.1	25.6	3617	111.1	161	200	9.5	1.250	0.0544	59.6	3795	6665
All	Car	All	2012	34.3	22.6	31.7	27.0	3516	110.7	151	192	9.6	1.276	0.0537	61.9	4067	6927
All	Car	All	2013	34.8	22.9	32.1	27.4	3578	110.2	150	201	9.4	1.341	0.0550	64.2	4136	7160

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
All	Car	All	1975	6.5%		19.7%	0.3%			5.1%		0.2%				55.4%	23.3%	21.2%
All	Car	All	1976	5.8%		17.2%				3.2%		0.3%				55.4%	25.2%	19.4%
All	Car	All	1977	6.8%		16.9%				4.2%		0.5%				52.0%	24.5%	23.5%
All	Car	All	1978	9.6%		19.9%	7.1%			5.1%		0.9%				44.7%	34.4%	20.9%
All	Car	All	1979	11.9%	0.3%	21.1%	8.8%			4.7%		2.1%				43.7%	34.2%	22.1%
All	Car	All	1980	29.7%	0.9%	30.9%	16.8%			6.2%	0.7%	4.4%				54.4%	34.4%	11.3%
All	Car	All	1981	37.0%	0.7%	29.9%	33.3%			6.1%	2.6%	5.9%				51.5%	36.4%	12.2%
All	Car	All	1982	45.6%	0.8%	29.2%	51.3%			7.2%	9.8%	4.7%				56.6%	30.9%	12.5%
All	Car	All	1983	47.1%	3.1%	26.0%	56.7%			9.4%	18.8%	2.1%				53.0%	31.9%	15.0%
All	Car	All	1984	53.5%	1.0%	24.1%	58.3%			14.9%	24.3%	1.7%				57.1%	29.7%	13.2%
All	Car	All	1985	61.1%	2.1%	22.8%	58.9%			21.3%	31.8%	0.9%				55.3%	29.5%	15.2%
All	Car	All	1986	70.7%	1.0%	24.7%	58.1%			36.5%	28.7%	0.3%	4.7%			59.2%	28.3%	12.5%
All	Car	All	1987	76.4%	1.1%	24.8%	59.7%			42.4%	30.8%	0.2%	14.6%			63.2%	24.8%	12.1%
All	Car	All	1988	80.9%	0.8%	24.3%	66.2%			53.7%	30.2%	0.0%	19.7%			64.5%	22.8%	12.7%
All	Car	All	1989	81.6%	1.0%	21.1%	69.3%	0.1%		62.2%	28.1%	0.0%	24.1%			58.0%	28.7%	13.4%
All	Car	All	1990	84.0%	1.0%	19.8%	72.8%	0.0%		77.4%	21.2%	0.0%	32.8%	0.6%		58.4%	28.9%	12.7%
All	Car	All	1991	81.1%	1.3%	20.6%	73.7%	0.0%		77.2%	22.6%	0.1%	33.2%	2.4%		60.4%	27.6%	12.0%
All	Car	All	1992	78.4%	1.1%	17.6%	76.4%	0.0%		88.9%	11.0%	0.1%	34.0%	4.4%		55.5%	29.4%	15.2%
All	Car	All	1993	80.6%	1.1%	17.5%	77.6%	0.0%		91.5%	8.5%		34.8%	4.5%		54.7%	32.7%	12.6%
All	Car	All	1994	81.3%	0.4%	16.9%	78.9%			94.8%	5.2%	0.0%	39.9%	7.7%		57.0%	28.2%	14.8%
All	Car	All	1995	80.1%	1.1%	16.3%	81.9%			98.6%	1.3%	0.1%	51.4%	9.6%		56.3%	30.0%	13.7%
All	Car	All	1996	83.7%	1.4%	14.9%	83.6%	0.0%		98.8%	1.1%	0.1%	56.4%	11.3%		52.9%	33.9%	13.2%
All	Car	All	1997	83.8%	1.7%	13.9%	85.2%	0.1%		99.2%	0.8%	0.1%	58.4%	10.8%		54.5%	31.7%	13.7%
All	Car	All	1998	82.9%	2.1%	12.2%	87.4%	0.1%		99.7%	0.1%	0.2%	59.6%	17.4%		47.7%	41.4%	10.8%
All	Car	All	1999	83.2%	2.1%	10.8%	88.6%	0.0%		99.8%	0.1%	0.2%	63.2%	16.4%		45.8%	42.2%	12.0%
All	Car	All	2000	80.4%	2.0%	10.8%	88.1%	0.0%		99.7%	0.1%	0.2%	63.2%	22.2%	0.1%	45.8%	37.1%	17.1%
All	Car	All	2001	80.3%	3.0%	11.0%	88.0%	0.2%		99.8%		0.2%	65.3%	26.9%	0.0%	48.2%	35.8%	16.0%
All	Car	All	2002	82.9%	3.6%	10.9%	88.4%	0.4%		99.6%		0.4%	69.9%	32.8%	0.3%	46.6%	39.0%	14.5%
All	Car	All	2003	80.9%	3.2%	10.9%	87.7%	1.4%		99.7%		0.3%	73.4%	39.8%	0.6%	47.8%	36.9%	15.3%
All	Car	All	2004	80.2%	5.3%	9.8%	88.2%	1.7%		99.7%		0.3%	77.1%	43.7%	0.9%	44.3%	38.9%	16.8%
All	Car	All	2005	79.2%	6.6%	8.8%	88.4%	2.8%		99.6%		0.4%	77.2%	49.4%	1.9%	40.6%	40.7%	18.6%
All	Car	All	2006	75.9%	6.0%	8.8%	88.4%	2.7%		99.4%		0.6%	81.3%	58.2%	1.5%	42.2%	35.8%	22.1%
All	Car	All	2007	81.0%	5.6%	7.8%	82.5%	9.7%	0.3%	99.7%		0.0%	84.6%	63.3%	3.2%	40.0%	42.7%	17.3%
All	Car	All	2008	78.8%	7.1%	7.2%	81.7%	10.8%	3.1%	96.9%		0.1%	88.0%	62.7%	3.3%	39.6%	40.0%	20.4%
All	Car	All	2009	83.5%	6.3%	6.2%	82.4%	11.1%	4.2%	95.2%		0.6%	92.2%	79.1%	2.9%	43.0%	39.3%	17.8%
All	Car	All	2010	82.5%	6.3%	5.0%	79.5%	13.9%	9.2%	89.9%		0.9%	93.8%	91.8%	5.5%	42.4%	40.3%	17.3%
All	Car	All	2011	80.1%	8.6%	4.6%	83.0%	11.9%	18.4%	80.7%		0.9%	94.6%	94.9%	3.4%	31.8%	46.5%	21.7%
All	Car	All	2012	83.8%	7.4%	4.9%	89.4%	14.6%	27.8%	71.2%		1.0%	98.2%	97.7%	4.6%			
All	Car	All	2013	80.8%	8.7%	6.5%	86.8%	16.7%	37.8%	60.9%		1.2%	98.3%	98.0%	6.0%			



**2013 FE Trends Report**  
**Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type**

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
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		
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		
All	Truck	Van	1984	18.9	15.0	17.7	16.1	4075		249	126	14.9	0.538	0.0307	39.3		
All	Truck	Van	1985	19.5	15.5	18.1	16.5	3975		236	129	14.3	0.578	0.0322	39.3		
All	Truck	Van	1986	20.6	16.1	19.4	17.5	3998		228	127	14.5	0.588	0.0317	41.5		
All	Truck	Van	1987	20.9	16.2	19.8	17.7	3972		226	142	13.3	0.657	0.0356	41.7		
All	Truck	Van	1988	21.2	16.2	20.3	17.9	4053		229	147	13.0	0.671	0.0363	43.2		
All	Truck	Van	1989	21.1	16.1	20.2	17.8	4057		225	146	13.1	0.680	0.0360	43.2		
All	Truck	Van	1990	21.2	16.0	20.4	17.8	4095		225	149	13.0	0.682	0.0363	43.8		
All	Truck	Van	1991	21.4	16.0	20.5	17.9	4133		220	149	13.1	0.701	0.0359	44.5		
All	Truck	Van	1992	21.5	15.9	20.5	17.9	4151		222	152	12.9	0.705	0.0366	44.8		
All	Truck	Van	1993	21.9	16.0	21.0	18.2	4105		218	155	12.6	0.730	0.0378	45.0		
All	Truck	Van	1994	21.5	15.7	20.5	17.8	4156		226	159	12.4	0.721	0.0384	44.9		
All	Truck	Van	1995	21.8	15.8	21.0	18.1	4110		231	159	12.3	0.708	0.0387	45.0		
All	Truck	Van	1996	22.2	15.9	21.4	18.3	4195		220	171	11.8	0.790	0.0408	46.8		
All	Truck	Van	1997	22.1	15.7	21.2	18.2	4240		220	174	11.8	0.802	0.0410	46.9		
All	Truck	Van	1998	22.7	16.0	22.0	18.7	4183		217	180	11.3	0.840	0.0431	47.7		
All	Truck	Van	1999	22.3	15.6	21.5	18.3	4306		223	183	11.4	0.832	0.0424	48.1		
All	Truck	Van	2000	22.8	15.9	21.8	18.6	4276		217	183	11.4	0.858	0.0428	48.9		
All	Truck	Van	2001	22.1	15.3	21.1	18.0	4518		229	202	10.9	0.897	0.0447	50.3		
All	Truck	Van	2002	23.1	15.9	21.9	18.7	4394		218	199	10.8	0.929	0.0455	50.9		
All	Truck	Van	2003	23.5	16.0	22.2	19.0	4393		219	202	10.7	0.929	0.0459	51.7		
All	Truck	Van	2004	23.7	16.0	22.7	19.2	4487		219	214	10.4	0.988	0.0477	53.4		
All	Truck	Van	2005	24.0	16.1	22.8	19.3	4430		216	209	10.5	0.976	0.0472	53.2		
All	Truck	Van	2006	24.3	16.2	23.1	19.5	4475		216	211	10.5	0.984	0.0472	54.4		
All	Truck	Van	2007	24.2	16.1	23.1	19.5	4479		219	225	10.0	1.034	0.0503	54.3		
All	Truck	Van	2008	24.6	16.4	23.5	19.8	4527		220	221	10.4	1.010	0.0488	55.9		
All	Truck	Van	2009	25.0	16.7	23.7	20.1	4572		215	220	10.4	1.033	0.0482	57.2		
All	Truck	Van	2010	25.0	16.7	23.7	20.1	4533		214	212	10.6	1.001	0.0467	56.8		
All	Truck	Van	2011	26.3	17.5	24.7	21.0	4501		212	259	9.0	1.224	0.0574	59.2		
All	Truck	Van	2012	26.7	17.7	25.3	21.4	4440		210	254	9.2	1.211	0.0570	59.3		
All	Truck	Van	2013	26.2	17.4	24.9	21.0	4626		215	264	9.1	1.226	0.0569	60.7		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
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	0.3%		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	0.2%		12.0%	59.3%				3.5%	4.5%				3.7%	60.1%	36.2%
All	Truck	Van	1984	22.3%		15.5%	45.6%			6.6%	3.1%	1.2%				12.2%	62.1%	25.7%
All	Truck	Van	1985	30.4%	0.3%	10.0%	47.4%			6.3%	2.9%	0.3%				10.9%	70.1%	19.0%
All	Truck	Van	1986	24.4%	1.3%	8.5%	60.1%			21.8%	16.3%	0.4%				9.8%	74.9%	15.3%
All	Truck	Van	1987	27.5%	1.9%	6.4%	67.6%			45.8%	30.2%	0.1%				11.3%	76.2%	12.5%
All	Truck	Van	1988	36.3%	0.8%	3.7%	78.7%			56.9%	42.8%	0.1%				4.9%	83.0%	12.1%
All	Truck	Van	1989	34.4%	0.7%	2.9%	76.5%			58.1%	41.8%	0.1%				2.8%	86.1%	11.1%
All	Truck	Van	1990	46.8%	6.6%	1.8%	93.5%			58.1%	41.9%	0.1%				2.4%	89.1%	8.5%
All	Truck	Van	1991	38.2%	10.9%	1.4%	96.5%			63.3%	36.6%	0.1%				1.5%	91.2%	7.3%
All	Truck	Van	1992	45.4%	5.5%	1.6%	96.4%			71.9%	28.1%	0.1%				3.3%	89.1%	7.6%
All	Truck	Van	1993	49.8%	4.5%	1.2%	97.2%			79.0%	21.0%					0.8%	91.8%	7.4%
All	Truck	Van	1994	52.3%	6.4%	0.5%	97.4%			81.2%	18.8%		3.5%			0.8%	91.4%	7.9%
All	Truck	Van	1995	61.3%	9.1%	0.1%	98.2%			87.4%	12.6%		4.5%			0.4%	93.4%	6.3%
All	Truck	Van	1996	73.8%	2.3%	0.0%	98.4%			100.0%			5.7%			0.1%	92.1%	7.8%
All	Truck	Van	1997	64.8%	4.7%		99.6%			100.0%			6.3%				89.0%	11.0%
All	Truck	Van	1998	78.3%	3.2%		100.0%			100.0%			10.4%				91.1%	8.9%
All	Truck	Van	1999	76.0%	2.7%		100.0%			100.0%			12.5%	8.2%			88.3%	11.7%
All	Truck	Van	2000	80.6%	2.7%		100.0%			100.0%			21.6%	15.0%			90.0%	10.0%
All	Truck	Van	2001	69.3%	8.7%		100.0%			100.0%			22.6%	17.0%			76.2%	23.8%
All	Truck	Van	2002	84.3%	3.0%		100.0%			100.0%			28.4%	20.9%			91.0%	9.0%
All	Truck	Van	2003	83.5%	5.0%		100.0%			100.0%			25.8%	19.6%			91.0%	9.0%
All	Truck	Van	2004	86.6%	4.9%		100.0%			100.0%			52.3%	46.1%			93.7%	6.3%
All	Truck	Van	2005	89.2%	5.5%		94.9%	5.1%		100.0%			38.0%	25.0%			96.3%	3.7%
All	Truck	Van	2006	89.8%	4.5%		95.3%	4.7%		100.0%			46.8%	36.4%			94.0%	6.0%
All	Truck	Van	2007	93.8%	2.9%		95.5%	4.5%		100.0%			53.1%	48.7%			96.3%	3.7%
All	Truck	Van	2008	92.9%	4.0%	0.1%	99.9%			100.0%			52.8%	48.1%		2.1%	94.5%	3.4%
All	Truck	Van	2009	94.1%	2.5%	0.3%	99.7%			100.0%			58.9%	47.1%		6.0%	89.9%	4.1%
All	Truck	Van	2010	96.3%	1.6%	0.2%	99.8%			100.0%			51.8%	37.7%		3.6%	93.7%	2.7%
All	Truck	Van	2011	91.5%	5.6%		96.9%	3.1%		100.0%			96.6%	92.5%			96.6%	3.4%
All	Truck	Van	2012	93.5%	3.1%	0.2%	99.8%	3.2%		100.0%			96.1%	91.7%				
All	Truck	Van	2013	92.5%	3.3%	0.2%	99.8%	5.7%		100.0%			95.3%	97.0%				



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
All	Truck	Truck SUV	1975	13.0	10.6	11.5	11.0	4214		332	148	13.2	0.443	0.0361	27.2		
All	Truck	Truck SUV	1976	13.9	11.2	12.5	11.8	4328		339	142	14.0	0.415	0.0333	29.8		
All	Truck	Truck SUV	1977	15.1	12.2	13.7	12.8	4248		337	145	13.5	0.428	0.0345	32.0		
All	Truck	Truck SUV	1978	14.5	11.6	13.2	12.3	4282		342	150	13.2	0.435	0.0353	30.8		
All	Truck	Truck SUV	1979	12.4	10.3	10.8	10.5	4561		337	145	14.4	0.433	0.0323	28.3		
All	Truck	Truck SUV	1980	15.5	12.5	14.1	13.2	4237		295	131	14.7	0.453	0.0307	32.9		
All	Truck	Truck SUV	1981	16.8	13.4	15.5	14.3	4208		290	132	14.4	0.460	0.0315	35.4		
All	Truck	Truck SUV	1982	17.3	13.7	16.2	14.7	4494		305	133	15.1	0.444	0.0300	39.9		
All	Truck	Truck SUV	1983	18.5	14.5	17.7	15.8	4270		265	127	15.1	0.507	0.0300	40.3		
All	Truck	Truck SUV	1984	19.0	14.9	18.0	16.2	4049		231	122	15.0	0.554	0.0300	39.0		
All	Truck	Truck SUV	1985	19.4	15.1	18.7	16.5	4092		222	123	15.1	0.583	0.0299	40.2		
All	Truck	Truck SUV	1986	20.1	15.6	19.1	17.0	3958		210	128	14.2	0.653	0.0323	40.0		
All	Truck	Truck SUV	1987	20.4	15.8	19.5	17.3	3882		212	137	13.4	0.680	0.0353	39.7		
All	Truck	Truck SUV	1988	20.2	15.5	19.2	17.0	3906		222	144	12.9	0.682	0.0369	39.4		
All	Truck	Truck SUV	1989	19.7	15.0	18.6	16.6	4086		244	156	12.5	0.665	0.0384	40.3		
All	Truck	Truck SUV	1990	19.6	14.8	18.6	16.4	4098		235	155	12.6	0.694	0.0381	40.1		
All	Truck	Truck SUV	1991	20.0	15.0	19.1	16.7	4157		233	162	12.3	0.709	0.0391	41.6		
All	Truck	Truck SUV	1992	19.4	14.5	18.5	16.2	4204		235	170	11.9	0.738	0.0408	40.8		
All	Truck	Truck SUV	1993	19.6	14.5	18.6	16.3	4331		244	179	11.7	0.753	0.0419	42.3		
All	Truck	Truck SUV	1994	19.3	14.3	18.2	16.0	4331		245	180	11.6	0.756	0.0420	41.8		
All	Truck	Truck SUV	1995	19.3	14.2	18.2	16.0	4323		245	177	11.7	0.751	0.0414	41.8		
All	Truck	Truck SUV	1996	19.6	14.2	18.7	16.2	4386		259	189	11.3	0.744	0.0432	43.1		
All	Truck	Truck SUV	1997	19.6	14.2	18.4	16.1	4463		255	190	11.4	0.765	0.0427	43.7		
All	Truck	Truck SUV	1998	19.7	14.1	18.5	16.2	4450		252	192	11.3	0.786	0.0432	43.9		
All	Truck	Truck SUV	1999	19.6	14.1	18.4	16.1	4518		253	204	10.9	0.837	0.0452	44.4		
All	Truck	Truck SUV	2000	19.6	14.0	18.2	16.0	4602		253	206	10.9	0.839	0.0449	45.2		
All	Truck	Truck SUV	2001	20.2	14.4	18.6	16.4	4546		239	213	10.6	0.920	0.0469	46.0		
All	Truck	Truck SUV	2002	20.1	14.1	18.7	16.3	4636		245	229	10.2	0.952	0.0493	46.6		
All	Truck	Truck SUV	2003	20.3	14.1	18.8	16.4	4754		247	233	10.2	0.967	0.0492	48.2		
All	Truck	Truck SUV	2004	20.4	14.1	19.0	16.5	4756		252	240	10.0	0.973	0.0505	48.5		
All	Truck	Truck SUV	2005	20.8	14.3	19.2	16.7	4756		244	244	9.8	1.018	0.0512	49.6		
All	Truck	Truck SUV	2006	21.4	14.7	19.7	17.2	4715		236	240	9.8	1.028	0.0507	50.9		
All	Truck	Truck SUV	2007	22.0	15.1	20.3	17.7	4797		240	252	9.7	1.068	0.0523	53.1		
All	Truck	Truck SUV	2008	22.7	15.5	20.9	18.2	4727		230	250	9.6	1.105	0.0525	54.0		
All	Truck	Truck SUV	2009	24.1	16.4	22.2	19.3	4547		211	244	9.5	1.170	0.0532	55.1		
All	Truck	Truck SUV	2010	24.7	16.8	22.6	19.7	4555		212	243	9.5	1.163	0.0531	56.6		
All	Truck	Truck SUV	2011	24.9	16.9	22.9	19.8	4665		217	257	9.4	1.203	0.0547	58.2		
All	Truck	Truck SUV	2012	25.1	17.0	23.1	20.0	4639		214	261	9.2	1.232	0.0558	58.5		
All	Truck	Truck SUV	2013	26.1	17.7	24.1	20.8	4626		209	261	9.2	1.295	0.0561	60.7		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
All	Truck	Truck SUV	1975		88.9%	39.8%										26.7%	67.3%	6.1%
All	Truck	Truck SUV	1976		89.5%	32.2%										22.6%	70.5%	6.9%
All	Truck	Truck SUV	1977		88.4%	32.6%										21.5%	71.9%	6.6%
All	Truck	Truck SUV	1978		92.4%	32.1%										21.4%	73.3%	5.4%
All	Truck	Truck SUV	1979		72.2%	33.1%	0.4%					0.2%				23.7%	48.0%	28.3%
All	Truck	Truck SUV	1980		88.9%	43.6%	26.1%					2.3%				32.9%	54.3%	12.8%
All	Truck	Truck SUV	1981		90.5%	41.0%	41.1%									31.4%	58.2%	10.4%
All	Truck	Truck SUV	1982		86.2%	31.9%	45.0%					16.6%				21.1%	64.4%	14.5%
All	Truck	Truck SUV	1983		91.3%	33.7%	52.3%					7.6%				16.7%	71.4%	11.9%
All	Truck	Truck SUV	1984		93.3%	30.3%	40.8%					2.5%				24.9%	66.5%	8.6%
All	Truck	Truck SUV	1985		91.3%	29.5%	56.9%			4.4%	1.0%	1.7%				17.8%	73.3%	8.9%
All	Truck	Truck SUV	1986		93.3%	38.9%	53.6%			25.9%	20.6%	1.7%				24.7%	67.1%	8.2%
All	Truck	Truck SUV	1987		94.1%	39.6%	51.0%			33.1%	38.7%	0.5%				29.8%	62.9%	7.3%
All	Truck	Truck SUV	1988		94.3%	34.5%	57.5%			47.3%	34.8%	0.3%				29.1%	62.9%	8.1%
All	Truck	Truck SUV	1989		93.5%	26.0%	65.6%			46.3%	46.5%	0.3%				23.6%	67.3%	9.0%
All	Truck	Truck SUV	1990		92.5%	29.1%	66.8%			56.7%	37.8%	0.3%				25.3%	63.5%	11.2%
All	Truck	Truck SUV	1991		96.3%	21.8%	76.5%			62.2%	37.2%	0.2%				10.2%	83.5%	6.2%
All	Truck	Truck SUV	1992		95.4%	21.7%	77.4%			74.5%	25.5%					10.6%	79.5%	9.8%
All	Truck	Truck SUV	1993		93.1%	19.1%	79.9%			83.0%	17.0%					11.4%	73.2%	15.4%
All	Truck	Truck SUV	1994		95.7%	15.2%	84.8%			84.7%	15.3%		13.4%			9.8%	77.1%	13.1%
All	Truck	Truck SUV	1995		90.1%	15.0%	85.0%			84.9%	15.1%		15.1%			10.3%	75.3%	14.4%
All	Truck	Truck SUV	1996		83.8%	6.1%	93.9%			100.0%		0.0%	13.5%			4.9%	80.0%	15.0%
All	Truck	Truck SUV	1997		81.9%	9.7%	90.3%			100.0%		0.0%	19.1%			16.3%	56.9%	26.8%
All	Truck	Truck SUV	1998		86.2%	7.5%	92.5%			100.0%		0.0%	22.0%			10.9%	58.9%	30.2%
All	Truck	Truck SUV	1999		79.4%	5.9%	94.1%			100.0%			26.4%	2.9%		10.6%	57.4%	32.0%
All	Truck	Truck SUV	2000		83.5%	4.9%	95.1%			100.0%			22.7%	2.5%		10.6%	54.7%	34.7%
All	Truck	Truck SUV	2001	7.4%	76.5%	3.8%	96.2%			100.0%			39.6%	14.4%		9.3%	51.1%	39.6%
All	Truck	Truck SUV	2002	1.7%	74.5%	3.2%	96.7%	0.0%		100.0%			44.2%	25.0%		6.8%	37.6%	55.6%
All	Truck	Truck SUV	2003	2.6%	73.7%	2.2%	96.5%	1.3%		100.0%			51.6%	33.4%		5.8%	46.0%	48.2%
All	Truck	Truck SUV	2004	2.8%	74.8%	2.2%	96.7%	1.0%		100.0%		0.0%	53.2%	38.4%		5.2%	49.1%	45.7%
All	Truck	Truck SUV	2005	2.9%	77.2%	2.2%	96.3%	1.5%		99.7%		0.3%	64.3%	50.0%	0.2%	5.3%	49.0%	45.7%
All	Truck	Truck SUV	2006	5.1%	77.2%	2.4%	93.0%	4.6%		99.7%		0.3%	69.8%	60.2%	3.1%	4.4%	54.0%	41.6%
All	Truck	Truck SUV	2007	6.5%	75.3%	2.1%	92.1%	5.8%		99.7%		0.3%	61.8%	54.3%	1.4%	4.3%	46.4%	49.2%
All	Truck	Truck SUV	2008	10.1%	75.7%	1.7%	91.6%	6.7%	2.0%	97.6%		0.4%	71.8%	60.5%	2.4%	4.9%	51.1%	44.0%
All	Truck	Truck SUV	2009	17.5%	75.0%	1.2%	88.2%	10.7%	7.6%	91.9%		0.5%	82.3%	69.1%	1.6%	3.3%	56.3%	40.4%
All	Truck	Truck SUV	2010	14.2%	77.7%	1.8%	86.8%	10.6%	12.2%	87.2%		0.6%	82.7%	83.0%	1.5%	4.3%	56.8%	38.9%
All	Truck	Truck SUV	2011	13.8%	77.3%	1.2%	87.4%	11.4%	15.1%	84.1%		0.8%	83.6%	92.6%	0.6%		54.5%	45.5%
All	Truck	Truck SUV	2012	13.7%	79.9%	1.6%	95.5%	9.9%	18.3%	80.5%		1.2%	89.2%	95.8%	0.6%			
All	Truck	Truck SUV	2013	14.5%	78.9%	1.4%	97.7%	14.9%	23.3%	76.0%		0.7%	89.6%	96.8%	1.5%			



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
All	Truck	Pickup	1975	14.0	11.1	13.1	11.9	4012		306	141	13.5	0.491	0.0351	28.8		
All	Truck	Pickup	1976	14.6	11.7	13.4	12.4	4122		316	139	13.9	0.466	0.0339	30.9		
All	Truck	Pickup	1977	16.0	12.9	14.5	13.6	4092		313	146	13.3	0.496	0.0357	33.4		
All	Truck	Pickup	1978	15.7	12.8	14.1	13.3	4104		306	144	13.4	0.496	0.0350	33.1		
All	Truck	Pickup	1979	15.5	12.7	13.9	13.2	4142		287	136	14.2	0.502	0.0327	32.9		
All	Truck	Pickup	1980	19.4	15.5	17.9	16.5	3740		236	118	14.4	0.549	0.0315	36.7		
All	Truck	Pickup	1981	21.0	16.7	19.5	17.9	3679		237	115	14.5	0.521	0.0313	39.3		
All	Truck	Pickup	1982	21.7	17.2	20.3	18.5	3629		228	117	14.3	0.545	0.0322	40.1		
All	Truck	Pickup	1983	22.2	17.5	20.9	18.9	3544		212	112	14.4	0.566	0.0317	40.0		
All	Truck	Pickup	1984	21.5	16.9	20.2	18.3	3619		215	114	14.5	0.563	0.0314	39.4		
All	Truck	Pickup	1985	21.4	16.9	20.1	18.2	3642		221	123	13.7	0.588	0.0336	39.6		
All	Truck	Pickup	1986	22.2	17.5	20.8	18.9	3574		206	120	13.7	0.623	0.0336	40.1		
All	Truck	Pickup	1987	22.5	17.5	21.2	19.0	3526		202	123	13.4	0.639	0.0347	40.1		
All	Truck	Pickup	1988	21.5	16.5	20.4	18.1	3737		229	138	12.9	0.627	0.0365	40.5		
All	Truck	Pickup	1989	21.2	16.2	20.0	17.8	3803		236	143	12.7	0.633	0.0373	40.5		
All	Truck	Pickup	1990	20.7	15.7	19.7	17.4	3928		247	152	12.4	0.647	0.0384	41.1		
All	Truck	Pickup	1991	21.7	16.3	20.7	18.2	3779		232	146	12.4	0.658	0.0385	41.4		
All	Truck	Pickup	1992	20.9	15.5	20.0	17.5	3976		245	151	12.5	0.644	0.0379	41.8		
All	Truck	Pickup	1993	21.1	15.6	20.2	17.6	3996		244	156	12.2	0.666	0.0390	42.4		
All	Truck	Pickup	1994	21.0	15.5	19.9	17.4	4056		248	163	12.0	0.687	0.0401	43.0		
All	Truck	Pickup	1995	20.4	14.9	19.3	16.9	4182		257	167	12.0	0.687	0.0399	43.1		
All	Truck	Pickup	1996	20.8	15.1	19.7	17.1	4190		251	178	11.5	0.737	0.0422	43.9		
All	Truck	Pickup	1997	20.4	14.7	19.4	16.8	4415		264	196	11.1	0.756	0.0439	45.3		
All	Truck	Pickup	1998	20.7	14.8	19.6	17.0	4282		252	190	11.2	0.773	0.0439	44.6		
All	Truck	Pickup	1999	19.9	14.2	18.6	16.3	4486		267	205	10.9	0.776	0.0453	44.7		
All	Truck	Pickup	2000	20.5	14.6	18.9	16.7	4340		255	203	10.8	0.803	0.0462	44.4		
All	Truck	Pickup	2001	19.6	13.9	18.1	16.0	4551		269	216	10.6	0.812	0.0470	44.7		
All	Truck	Pickup	2002	19.5	13.8	17.8	15.8	4690		271	226	10.4	0.838	0.0480	45.6		
All	Truck	Pickup	2003	19.9	14.0	18.2	16.1	4642		264	223	10.5	0.847	0.0475	46.3		
All	Truck	Pickup	2004	19.6	13.7	17.8	15.7	4939		281	249	10.1	0.885	0.0501	48.2		
All	Truck	Pickup	2005	19.7	13.6	18.1	15.8	4988		284	260	9.8	0.917	0.0520	49.1		
All	Truck	Pickup	2006	20.1	13.9	18.4	16.1	4968		278	256	9.9	0.925	0.0514	49.8		
All	Truck	Pickup	2007	20.1	13.8	18.5	16.2	5144		286	269	9.8	0.938	0.0519	51.6		
All	Truck	Pickup	2008	20.5	14.1	18.9	16.5	5161		286	276	9.7	0.962	0.0531	53.0		
All	Truck	Pickup	2009	21.0	14.4	19.5	16.9	5176		287	278	9.5	0.971	0.0534	54.3		
All	Truck	Pickup	2010	20.9	14.3	19.4	16.9	5309		293	289	9.4	0.987	0.0542	55.5		
All	Truck	Pickup	2011	21.4	14.6	19.9	17.2	5268		282	304	9.1	1.086	0.0571	56.3		
All	Truck	Pickup	2012	21.3	14.5	19.9	17.2	5335		286	317	8.9	1.122	0.0590	56.9		
All	Truck	Pickup	2013	21.5	14.6	20.3	17.4	5471		287	330	8.8	1.175	0.0600	58.8		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
All	Truck	Pickup	1975		13.5%	41.1%										11.9%	4.2%	83.9%
All	Truck	Pickup	1976		20.9%	38.8%										9.3%	2.9%	87.8%
All	Truck	Pickup	1977		21.4%	35.9%										11.7%	3.4%	84.9%
All	Truck	Pickup	1978		27.0%	37.4%						1.2%				11.6%	3.3%	85.0%
All	Truck	Pickup	1979		12.6%	39.9%	1.3%					2.5%				16.2%	4.6%	79.2%
All	Truck	Pickup	1980	1.8%	21.1%	58.8%	21.9%				1.0%	4.2%				31.5%	6.8%	61.7%
All	Truck	Pickup	1981	2.3%	16.8%	57.7%	27.5%				0.6%	7.1%				25.6%	9.1%	65.3%
All	Truck	Pickup	1982	2.2%	17.7%	53.9%	29.5%				0.2%	10.3%				24.0%	21.9%	54.1%
All	Truck	Pickup	1983	1.9%	22.1%	56.3%	28.0%				0.1%	4.4%				19.2%	38.2%	42.7%
All	Truck	Pickup	1984	0.6%	24.7%	54.9%	29.3%			1.0%		2.7%				20.7%	34.4%	44.9%
All	Truck	Pickup	1985		25.4%	51.6%	33.7%			11.4%	4.5%	1.2%				23.9%	29.7%	46.4%
All	Truck	Pickup	1986		25.2%	58.4%	30.4%			21.2%	17.6%	0.6%				29.4%	31.1%	39.5%
All	Truck	Pickup	1987	0.0%	25.5%	58.5%	28.9%			26.9%	32.0%	0.3%				20.5%	49.0%	30.5%
All	Truck	Pickup	1988	0.0%	28.4%	51.0%	38.8%			35.4%	48.3%	0.2%				13.8%	42.9%	43.3%
All	Truck	Pickup	1989		28.9%	52.4%	41.5%			38.8%	51.1%	0.2%				15.9%	39.8%	44.4%
All	Truck	Pickup	1990		27.9%	45.8%	49.8%			52.4%	41.4%	0.2%				15.8%	32.7%	51.5%
All	Truck	Pickup	1991		24.8%	52.2%	46.4%			47.9%	48.7%	0.2%				16.1%	45.5%	38.4%
All	Truck	Pickup	1992		26.3%	47.1%	52.1%			58.0%	38.6%	0.1%				13.7%	38.9%	47.4%
All	Truck	Pickup	1993	0.0%	27.6%	43.9%	55.3%			61.2%	36.7%					13.1%	37.1%	49.7%
All	Truck	Pickup	1994		29.3%	40.0%	59.0%			69.5%	29.7%		2.2%			13.4%	39.0%	47.6%
All	Truck	Pickup	1995		33.0%	39.6%	59.5%			69.5%	30.5%		5.5%			13.1%	30.8%	56.0%
All	Truck	Pickup	1996		29.3%	34.6%	64.0%			99.8%		0.2%	13.3%			11.3%	35.7%	53.0%
All	Truck	Pickup	1997		34.7%	25.3%	74.7%			99.9%		0.1%	6.7%			5.4%	28.7%	65.9%
All	Truck	Pickup	1998		34.8%	27.3%	71.1%			100.0%		0.0%	11.2%			10.8%	34.3%	54.9%
All	Truck	Pickup	1999		45.3%	17.5%	81.5%			100.0%		0.0%	7.7%			8.4%	29.9%	61.7%
All	Truck	Pickup	2000		38.4%	16.7%	82.5%			100.0%			12.7%			3.9%	29.3%	66.8%
All	Truck	Pickup	2001		38.7%	12.0%	87.1%			100.0%			12.8%			3.2%	21.6%	75.1%
All	Truck	Pickup	2002		42.4%	9.5%	89.6%			100.0%			17.8%			8.3%	19.6%	72.1%
All	Truck	Pickup	2003		39.5%	10.3%	88.8%			100.0%			14.5%			7.9%	21.3%	70.8%
All	Truck	Pickup	2004		46.3%	7.0%	92.1%			100.0%			32.4%	18.9%	0.0%	6.4%	15.1%	78.5%
All	Truck	Pickup	2005		46.7%	5.7%	94.3%			100.0%			40.9%	39.1%	0.0%	0.4%	9.4%	90.2%
All	Truck	Pickup	2006		45.8%	6.2%	93.8%			100.0%			49.0%	47.5%	0.1%	0.3%	12.5%	87.1%
All	Truck	Pickup	2007		45.4%	4.4%	95.6%			100.0%			40.0%	40.0%	0.0%		12.5%	87.5%
All	Truck	Pickup	2008		47.5%	4.0%	96.0%			100.0%			41.3%	37.8%			15.5%	84.5%
All	Truck	Pickup	2009		50.6%	4.1%	95.7%	0.2%		100.0%			42.4%	36.8%	0.2%		18.6%	81.4%
All	Truck	Pickup	2010		57.0%	2.4%	97.5%	0.1%		100.0%			59.9%	62.2%	0.1%		12.0%	88.0%
All	Truck	Pickup	2011		60.3%	2.1%	97.8%	0.1%	7.6%	92.4%			50.1%	86.1%	0.1%		1.4%	98.6%
All	Truck	Pickup	2012		62.4%	1.5%	98.5%	0.1%	10.3%	89.7%			55.7%	94.6%	0.1%			
All	Truck	Pickup	2013		60.7%	1.3%	98.7%	0.3%	14.3%	85.7%			58.9%	96.8%	0.3%			



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
All	Truck	All	1975	13.7	10.9	12.7	11.6	4073		311	142	13.6	0.476	0.0349	28.5		
All	Truck	All	1976	14.4	11.6	13.2	12.2	4155		320	141	13.8	0.458	0.0340	30.5		
All	Truck	All	1977	15.6	12.6	14.2	13.3	4136		318	147	13.3	0.482	0.0356	33.0		
All	Truck	All	1978	15.3	12.4	13.7	12.9	4152		315	146	13.4	0.481	0.0351	32.4		
All	Truck	All	1979	14.7	12.1	13.1	12.5	4257		299	138	14.3	0.485	0.0325	32.1		
All	Truck	All	1980	18.6	14.8	17.1	15.8	3869		248	121	14.5	0.528	0.0313	36.3		
All	Truck	All	1981	20.1	16.0	18.6	17.1	3806		247	119	14.6	0.508	0.0311	38.8		
All	Truck	All	1982	20.5	16.3	19.0	17.4	3813		244	120	14.5	0.524	0.0317	39.7		
All	Truck	All	1983	20.8	16.5	19.6	17.7	3773		232	118	14.6	0.542	0.0313	39.9		
All	Truck	All	1984	20.4	16.1	19.3	17.4	3787		225	118	14.7	0.556	0.0310	39.3		
All	Truck	All	1985	20.5	16.2	19.3	17.5	3803		225	124	14.1	0.585	0.0326	39.6		
All	Truck	All	1986	21.4	16.8	20.1	18.2	3741		212	123	14.0	0.619	0.0330	40.4		
All	Truck	All	1987	21.6	16.8	20.4	18.3	3718		211	131	13.4	0.652	0.0351	40.5		
All	Truck	All	1988	21.1	16.2	20.1	17.8	3850		228	141	13.0	0.649	0.0365	40.9		
All	Truck	All	1989	20.9	15.9	19.8	17.6	3932		234	146	12.8	0.653	0.0371	41.3		
All	Truck	All	1990	20.7	15.6	19.8	17.4	4014		237	151	12.6	0.667	0.0377	41.8		
All	Truck	All	1991	21.2	15.9	20.2	17.8	3961		229	150	12.5	0.681	0.0379	42.3		
All	Truck	All	1992	20.8	15.4	19.9	17.3	4078		236	155	12.5	0.682	0.0380	42.6		
All	Truck	All	1993	21.0	15.5	20.1	17.5	4098		235	160	12.2	0.705	0.0391	43.2		
All	Truck	All	1994	20.7	15.2	19.6	17.2	4149		241	166	12.0	0.713	0.0401	43.2		
All	Truck	All	1995	20.5	14.9	19.4	17.0	4201		245	168	12.0	0.712	0.0400	43.3		
All	Truck	All	1996	20.8	15.0	19.8	17.2	4255		245	179	11.6	0.755	0.0421	44.5		
All	Truck	All	1997	20.5	14.7	19.4	16.8	4394		251	189	11.4	0.769	0.0428	45.1		
All	Truck	All	1998	20.8	14.8	19.7	17.1	4317		244	188	11.2	0.794	0.0435	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		
All	Truck	All	2000	20.7	14.7	19.3	16.8	4421		245	199	11.0	0.830	0.0448	45.8		
All	Truck	All	2001	20.3	14.4	18.8	16.5	4543		249	212	10.6	0.873	0.0465	46.3		
All	Truck	All	2002	20.3	14.3	18.8	16.5	4612		249	223	10.3	0.911	0.0482	47.0		
All	Truck	All	2003	20.7	14.4	19.1	16.7	4655		248	224	10.4	0.920	0.0481	48.1		
All	Truck	All	2004	20.5	14.2	18.9	16.5	4783		258	240	10.1	0.946	0.0500	49.0		
All	Truck	All	2005	21.0	14.4	19.5	16.9	4763		251	242	10.0	0.976	0.0506	50.2		
All	Truck	All	2006	21.4	14.6	19.7	17.2	4758		247	240	10.0	0.985	0.0503	51.2		
All	Truck	All	2007	21.6	14.8	20.0	17.4	4871		253	254	9.8	1.020	0.0519	52.8		
All	Truck	All	2008	22.2	15.1	20.5	17.8	4837		246	254	9.7	1.046	0.0522	53.9		
All	Truck	All	2009	23.1	15.7	21.4	18.5	4753		236	252	9.7	1.089	0.0527	55.1		
All	Truck	All	2010	23.4	15.9	21.7	18.8	4784		237	253	9.7	1.087	0.0526	56.3		
All	Truck	All	2011	23.9	16.2	22.1	19.1	4824		236	271	9.2	1.171	0.0557	57.8		
All	Truck	All	2012	24.1	16.3	22.3	19.3	4809		234	276	9.1	1.198	0.0569	58.2		
All	Truck	All	2013	24.5	16.6	22.9	19.7	4878		233	282	9.1	1.251	0.0573	60.1		

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
All	Truck	All	1975		17.2%	36.9%					0.1%					10.6%	24.1%	65.3%
All	Truck	All	1976		23.0%	34.7%					0.1%					8.7%	20.2%	71.0%
All	Truck	All	1977		23.8%	31.6%					0.1%					10.6%	20.4%	69.0%
All	Truck	All	1978		29.1%	32.1%					0.1%	0.8%				10.6%	22.7%	66.7%
All	Truck	All	1979		18.1%	35.1%	2.1%				0.3%	1.8%				14.9%	19.5%	65.6%
All	Truck	All	1980	1.4%	25.0%	53.0%	24.5%				1.7%	3.5%				28.4%	17.6%	54.0%
All	Truck	All	1981	1.9%	20.1%	51.6%	31.1%				1.1%	5.6%				23.2%	19.1%	57.7%
All	Truck	All	1982	1.7%	20.2%	45.9%	33.4%				0.7%	9.4%				20.6%	31.1%	48.2%
All	Truck	All	1983	1.4%	26.1%	46.3%	36.0%				0.6%	4.8%				16.3%	45.6%	38.1%
All	Truck	All	1984	5.0%	31.5%	42.5%	34.6%			2.0%	0.6%	2.4%				19.7%	45.6%	34.7%
All	Truck	All	1985	7.3%	31.3%	37.6%	41.1%			8.9%	3.5%	1.1%				19.7%	47.2%	33.1%
All	Truck	All	1986	5.9%	30.7%	43.0%	41.5%			22.1%	17.8%	0.7%				23.8%	47.8%	28.4%
All	Truck	All	1987	7.6%	32.2%	40.5%	43.8%			33.3%	32.8%	0.3%				19.8%	59.2%	21.1%
All	Truck	All	1988	9.2%	34.1%	35.8%	52.5%			43.2%	44.3%	0.2%				14.5%	57.0%	28.5%
All	Truck	All	1989	10.1%	32.8%	32.8%	56.4%			45.9%	47.5%	0.2%				13.5%	58.7%	27.9%
All	Truck	All	1990	15.8%	31.8%	28.1%	67.5%			55.0%	40.9%	0.2%				12.9%	57.0%	30.1%
All	Truck	All	1991	10.3%	37.3%	31.5%	66.8%			55.3%	42.8%	0.1%				10.8%	66.5%	22.7%
All	Truck	All	1992	14.5%	33.4%	27.5%	71.3%			65.7%	32.6%	0.1%				9.8%	63.0%	27.2%
All	Truck	All	1993	16.8%	32.7%	24.7%	74.2%			71.5%	27.5%					8.7%	62.6%	28.8%
All	Truck	All	1994	13.8%	39.2%	23.7%	75.3%			76.2%	23.4%		5.2%			9.2%	61.9%	28.9%
All	Truck	All	1995	18.4%	42.3%	20.7%	78.5%			79.4%	20.6%		8.0%			8.5%	62.5%	29.1%
All	Truck	All	1996	20.9%	39.2%	15.6%	83.4%			99.9%		0.1%	11.2%			6.1%	66.0%	27.9%
All	Truck	All	1997	14.2%	45.2%	14.1%	85.8%			100.0%		0.0%	11.1%			8.2%	52.2%	39.7%
All	Truck	All	1998	19.3%	45.1%	13.6%	85.8%			100.0%		0.0%	14.8%			8.2%	57.0%	34.8%
All	Truck	All	1999	17.5%	48.1%	9.2%	90.4%			100.0%		0.0%	15.7%	3.0%		7.3%	53.5%	39.2%
All	Truck	All	2000	20.0%	46.3%	8.2%	91.5%			100.0%			18.6%	4.6%		5.4%	53.7%	40.9%
All	Truck	All	2001	16.3%	48.8%	6.3%	93.4%			100.0%			25.9%	9.3%		5.2%	44.4%	50.4%
All	Truck	All	2002	15.4%	51.6%	4.7%	94.9%	0.0%		100.0%			32.8%	16.0%		6.1%	40.9%	53.0%
All	Truck	All	2003	15.4%	50.4%	4.6%	94.4%	0.6%		100.0%			34.6%	19.7%		5.5%	45.2%	49.3%
All	Truck	All	2004	12.5%	56.5%	3.5%	95.6%	0.6%		100.0%		0.0%	46.2%	32.9%	0.0%	4.9%	43.4%	51.6%
All	Truck	All	2005	20.1%	52.2%	2.9%	95.3%	1.8%		99.9%		0.1%	51.1%	41.2%	0.1%	2.6%	46.0%	51.4%
All	Truck	All	2006	18.9%	53.1%	3.3%	93.7%	3.1%		99.9%		0.1%	58.4%	51.5%	1.5%	2.2%	47.1%	50.7%
All	Truck	All	2007	16.1%	55.5%	2.6%	93.8%	3.7%		99.9%		0.1%	53.3%	48.7%	0.8%	2.3%	41.7%	56.0%
All	Truck	All	2008	18.4%	56.8%	2.2%	94.1%	3.6%	1.1%	98.7%		0.2%	59.5%	51.6%	1.3%	3.0%	45.9%	51.2%
All	Truck	All	2009	21.0%	58.4%	2.0%	92.0%	6.0%	4.2%	95.5%		0.3%	66.6%	56.0%	0.9%	2.6%	48.2%	49.2%
All	Truck	All	2010	20.9%	61.0%	1.8%	91.9%	5.9%	6.8%	92.9%		0.4%	71.5%	70.5%	0.9%	2.9%	48.0%	49.2%
All	Truck	All	2011	17.7%	65.0%	1.3%	91.4%	7.3%	11.3%	88.1%		0.5%	75.2%	90.7%	0.4%		43.4%	56.6%
All	Truck	All	2012	20.9%	64.4%	1.4%	97.0%	6.2%	13.5%	85.8%		0.7%	80.6%	94.9%	0.4%			
All	Truck	All	2013	18.8%	65.1%	1.2%	98.3%	9.5%	18.0%	81.6%		0.4%	81.1%	96.8%	1.0%			



## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Fuel Economy (MPG)				Weight (lb)	Volume (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 Comb			CID	HP						
All	All	All	1975	15.3	12.0	14.6	13.1	4060		293	137	14.1	0.507	0.0335	31.6		
All	All	All	1976	16.7	13.2	15.7	14.2	4079		294	135	14.3	0.493	0.0328	34.4		
All	All	All	1977	17.7	14.0	16.6	15.1	3982	110.4	287	136	13.8	0.510	0.0339	35.7	2091	4021
All	All	All	1978	18.6	14.7	17.5	15.8	3715	109.0	266	129	13.6	0.525	0.0344	35.1	2240	3926
All	All	All	1979	18.7	14.9	17.4	15.9	3655	108.9	252	124	13.9	0.532	0.0335	34.7	2258	3878
All	All	All	1980	22.5	17.6	21.5	19.2	3228	104.2	198	104	14.3	0.574	0.0320	36.6	2507	3841
All	All	All	1981	24.1	18.8	23.0	20.5	3202	106.5	193	102	14.4	0.580	0.0318	38.9	2744	4161
All	All	All	1982	24.7	19.2	23.9	21.1	3202	106.1	188	103	14.4	0.593	0.0320	40.0	2836	4273
All	All	All	1983	24.6	19.0	23.9	21.0	3257	108.7	193	107	14.1	0.599	0.0327	40.5	2904	4426
All	All	All	1984	24.6	19.1	24.0	21.0	3262	107.5	190	109	14.0	0.618	0.0332	40.7	2910	4425
All	All	All	1985	25.0	19.3	24.4	21.3	3271	108.2	189	114	13.5	0.650	0.0347	41.4	2992	4551
All	All	All	1986	25.7	19.8	25.0	21.8	3238	107.3	180	114	13.4	0.678	0.0351	42.0	3057	4585
All	All	All	1987	25.9	19.8	25.3	22.0	3221	106.6	175	118	13.1	0.710	0.0362	42.1	3051	4569
All	All	All	1988	25.9	19.6	25.2	21.9	3283	107.0	180	123	12.8	0.726	0.0372	42.9	3119	4693
All	All	All	1989	25.4	19.1	24.8	21.4	3351	107.7	185	129	12.5	0.743	0.0382	43.0	3080	4723
All	All	All	1990	25.2	18.7	24.6	21.2	3426	107.1	185	135	12.2	0.781	0.0394	43.5	3014	4746
All	All	All	1991	25.4	18.8	24.7	21.3	3410	106.8	184	138	12.1	0.796	0.0402	43.6	3040	4746
All	All	All	1992	24.9	18.2	24.4	20.8	3512	108.4	191	145	11.8	0.807	0.0413	44.1	3040	4877
All	All	All	1993	25.1	18.2	24.4	20.9	3519	108.4	191	147	11.8	0.809	0.0416	44.5	3107	4929
All	All	All	1994	24.6	17.8	23.8	20.4	3603	108.2	197	152	11.7	0.816	0.0420	44.6	3086	4955
All	All	All	1995	24.7	17.7	24.1	20.5	3613	108.7	196	158	11.3	0.857	0.0438	45.2	3130	5045
All	All	All	1996	24.8	17.6	24.0	20.4	3659	109.0	197	164	11.1	0.878	0.0447	45.6	3125	5080
All	All	All	1997	24.5	17.4	23.6	20.2	3727	108.7	199	169	11.0	0.890	0.0452	45.9	3127	5076
All	All	All	1998	24.5	17.2	23.6	20.1	3744	108.6	199	171	10.9	0.904	0.0457	46.3	3138	5145
All	All	All	1999	24.1	16.9	23.0	19.7	3835	109.1	203	179	10.7	0.921	0.0465	46.5	3106	5191
All	All	All	2000	24.3	16.9	23.0	19.8	3821	109.6	200	181	10.6	0.942	0.0472	46.7	3121	5224
All	All	All	2001	24.2	16.8	22.8	19.6	3879	109.3	201	187	10.5	0.968	0.0480	47.3	3159	5292
All	All	All	2002	24.1	16.6	22.5	19.5	3951	110.0	203	195	10.2	0.994	0.0493	47.9	3200	5382
All	All	All	2003	24.3	16.7	22.7	19.6	3999	109.6	204	199	10.2	1.007	0.0496	49.0	3237	5481
All	All	All	2004	24.0	16.3	22.4	19.3	4111	110.4	212	211	9.9	1.026	0.0511	49.7	3261	5587
All	All	All	2005	24.8	16.8	23.1	19.9	4059	111.4	205	209	9.9	1.049	0.0512	50.9	3384	5790
All	All	All	2006	25.2	17.0	23.4	20.1	4067	111.5	204	213	9.8	1.073	0.0522	51.7	3351	5855
All	All	All	2007	25.8	17.4	24.0	20.6	4093	110.2	203	217	9.7	1.099	0.0525	53.4	3468	5994
All	All	All	2008	26.3	17.7	24.4	21.0	4085	109.9	199	219	9.7	1.122	0.0529	54.4	3490	6056
All	All	All	2009	28.2	18.9	26.0	22.4	3914	110.0	183	208	9.7	1.156	0.0523	55.9	3645	6228
All	All	All	2010	28.4	19.1	26.2	22.6	4002	110.5	188	214	9.6	1.160	0.0527	58.3	3863	6629
All	All	All	2011	28.1	18.8	26.1	22.4	4127	111.1	192	230	9.4	1.217	0.0550	58.8	3795	6665
All	All	All	2012	29.8	19.9	27.6	23.6	3977	110.7	180	222	9.4	1.248	0.0548	60.5	4067	6927
All	All	All	2013	30.3	20.2	28.1	24.0	4041	110.2	179	230	9.3	1.309	0.0558	62.8	4136	7160

## 2013 FE Trends Report

### Appendix K: Fuel Economy Data Stratified by Manufacturer and Vehicle Type

Manufacturer	Truck	Vehicle Type	Model Year	Drivetrain		Transmission			Fuel Metering				Multi-Valve	VVT	Hybrid	Vehicle Size		
				Front	4WD	Manual	Lockup	CVT	GDI	Port	TBI	Diesel				Small	Mid	Large
All	All	All	1975	5.3%	3.3%	23.0%	0.2%			4.1%	0.0%	0.2%				46.8%	23.5%	29.8%
All	All	All	1976	4.6%	4.8%	20.9%				2.5%	0.0%	0.2%				45.6%	24.2%	30.3%
All	All	All	1977	5.5%	4.7%	19.8%				3.4%	0.0%	0.4%				43.7%	23.7%	32.5%
All	All	All	1978	7.4%	6.6%	22.7%	5.5%			3.9%	0.0%	0.9%				37.0%	31.7%	31.2%
All	All	All	1979	9.2%	4.3%	24.2%	7.3%			3.7%	0.1%	2.0%				37.3%	30.9%	31.7%
All	All	All	1980	25.0%	4.9%	34.6%	18.1%			5.2%	0.8%	4.3%				50.1%	31.6%	18.3%
All	All	All	1981	31.0%	4.0%	33.6%	33.0%			5.1%	2.4%	5.9%				46.6%	33.4%	20.0%
All	All	All	1982	37.0%	4.6%	32.4%	47.8%			5.8%	8.0%	5.6%				49.6%	31.0%	19.5%
All	All	All	1983	37.0%	8.1%	30.5%	52.1%			7.3%	14.8%	2.7%				44.9%	34.9%	20.1%
All	All	All	1984	42.1%	8.2%	28.4%	52.8%			11.9%	18.7%	1.8%				48.4%	33.4%	18.2%
All	All	All	1985	47.8%	9.3%	26.5%	54.5%			18.2%	24.8%	0.9%				46.5%	33.9%	19.7%
All	All	All	1986	52.6%	9.3%	29.8%	53.5%			32.5%	25.7%	0.4%	3.4%			49.3%	33.7%	17.0%
All	All	All	1987	57.7%	9.6%	29.1%	55.4%			39.9%	31.4%	0.3%	10.6%			51.4%	34.1%	14.5%
All	All	All	1988	60.0%	10.5%	27.6%	62.2%			50.6%	34.3%	0.1%	14.0%			50.0%	32.7%	17.3%
All	All	All	1989	60.2%	10.5%	24.6%	65.5%	0.1%		57.3%	33.9%	0.1%	16.9%			44.7%	37.6%	17.7%
All	All	All	1990	63.8%	10.1%	22.2%	71.2%	0.0%		70.8%	27.0%	0.1%	23.1%	0.4%		44.9%	37.2%	17.8%
All	All	All	1991	59.6%	12.3%	23.9%	71.6%	0.0%		70.6%	28.7%	0.1%	23.1%	1.7%		45.3%	39.4%	15.2%
All	All	All	1992	58.4%	11.2%	20.7%	74.8%	0.0%		81.6%	17.8%	0.1%	23.3%	3.0%		41.1%	39.9%	19.0%
All	All	All	1993	59.9%	11.3%	19.8%	76.5%	0.0%		85.0%	14.6%		23.5%	3.0%		39.8%	42.4%	17.8%
All	All	All	1994	55.6%	15.2%	19.5%	77.6%			87.7%	12.1%	0.0%	26.7%	4.8%		38.8%	41.0%	20.1%
All	All	All	1995	57.6%	16.2%	17.9%	80.7%			91.6%	8.4%	0.0%	35.6%	6.1%		38.8%	41.9%	19.3%
All	All	All	1996	60.0%	15.7%	15.2%	83.5%	0.0%		99.3%	0.7%	0.1%	39.3%	7.0%		35.2%	46.0%	18.7%
All	All	All	1997	56.1%	19.0%	14.0%	85.5%	0.0%		99.5%	0.5%	0.1%	39.6%	6.5%		36.0%	39.9%	24.1%
All	All	All	1998	56.4%	20.1%	12.8%	86.7%	0.0%		99.8%	0.1%	0.1%	40.9%	10.1%		31.2%	47.9%	20.8%
All	All	All	1999	55.8%	21.3%	10.1%	89.4%	0.0%		99.9%	0.1%	0.1%	43.4%	10.8%		29.7%	46.9%	23.4%
All	All	All	2000	55.5%	20.2%	9.7%	89.5%	0.0%		99.8%	0.0%	0.1%	44.8%	15.0%	0.0%	29.2%	43.9%	26.9%
All	All	All	2001	53.8%	22.0%	9.0%	90.3%	0.1%		99.9%		0.1%	49.0%	19.6%	0.0%	30.4%	39.4%	30.2%
All	All	All	2002	52.7%	25.0%	8.2%	91.4%	0.2%		99.8%		0.2%	53.3%	25.3%	0.2%	28.5%	39.8%	31.7%
All	All	All	2003	50.7%	25.0%	8.0%	90.8%	1.1%		99.8%		0.2%	55.5%	30.6%	0.3%	28.3%	40.7%	31.0%
All	All	All	2004	47.7%	29.8%	6.8%	91.8%	1.2%		99.9%		0.1%	62.3%	38.5%	0.5%	25.4%	41.1%	33.5%
All	All	All	2005	53.0%	26.8%	6.2%	91.5%	2.3%		99.7%		0.3%	65.6%	45.8%	1.1%	23.7%	43.1%	33.2%
All	All	All	2006	51.9%	25.8%	6.5%	90.6%	2.8%		99.6%		0.4%	71.7%	55.4%	1.5%	25.4%	40.5%	34.1%
All	All	All	2007	54.3%	26.1%	5.6%	87.1%	7.2%	0.2%	99.8%		0.1%	71.7%	57.3%	2.2%	24.5%	42.3%	33.2%
All	All	All	2008	54.2%	27.3%	5.2%	86.8%	7.9%	2.3%	97.6%		0.1%	76.4%	58.2%	2.5%	24.7%	42.4%	32.9%
All	All	All	2009	62.9%	23.5%	4.8%	85.5%	9.4%	4.2%	95.3%		0.5%	83.8%	71.5%	2.3%	29.7%	42.2%	28.1%
All	All	All	2010	59.5%	26.7%	3.8%	84.1%	10.9%	8.3%	91.0%		0.7%	85.5%	83.8%	3.8%	27.6%	43.2%	29.2%
All	All	All	2011	53.8%	32.4%	3.2%	86.6%	10.0%	15.4%	83.8%		0.8%	86.4%	93.1%	2.2%	18.4%	45.2%	36.5%
All	All	All	2012	61.4%	27.7%	3.6%	92.1%	11.6%	22.7%	76.4%		0.9%	91.9%	96.7%	3.1%			
All	All	All	2013	58.7%	28.8%	4.7%	90.9%	14.2%	30.8%	68.3%		0.9%	92.2%	97.6%	4.2%			