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Technical Report

Light-Duty Automotive Technology and Fuel Economy Trends Through 1996

by

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NOTICE

Technical Reports do not necessarily represent final EPA decisions or positions. They are intended to present technical analysis of issues using data which 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 which may form the basis for a final EPA decision, position, or regulatory action.

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Table of Contents

	Page Number
I. Introduction	1
II. General Car and Truck Trends	3
III. Technology Trends	13
IV. Trends by Market Segment	24
V. Fuel Economy Improvement Potential	32
VI. Conclusions	36
VII. Acknowledgments	37
VIII. References	38
APPENDIX A - Vehicle Classification System	A-1
APPENDIX B - 1994, 1995, 1996 Nameplate MPG Listings	B-1
APPENDIX C - Relative Importance of Light Truck Fuel Consumption	C-1
APPENDIX D - Data Stratified by Cylinder Count	D-1
APPENDIX E - Data Stratified by Domestic, European, and Asian Source	E-1
APPENDIX F - Data Stratified by Transmission Type	F-1
APPENDIX G - Data Stratified by Size Class	G-1
APPENDIX H - Data Stratified by Valves Per Cylinder	H-1
APPENDIX I - Data Stratified by Weight Class	I-1

I. Introduction

Light-duty automotive technology and fuel economy trends are examined herein, as in preceding papers in this series, [1-25],* using the latest and most complete EPA data available. The source database was frozen in April 1996.

Through model year 1994, the fuel economy and vehicle sales database used for this report was formed from the most complete database used for MPG standards and "Gas Guzzler" regulatory compliance purposes. For all practical purposes, these databases are stable and are not expected to change in the future. For model years 1995 and 1996, the fuel economy database used for this report was formed from the database used for the government's fuel economy public information programs: the Gas Mileage Guide and the MPG labels that are placed on new vehicles. The vehicle sales database for 1994, 1995, and 1996 used for this report was adjusted as necessary to take into account sales data available in trade publications at the time the database was frozen.

The MPG data in this series and this paper are unadjusted data values, with no correction factors for laboratory to on-road shortfall or "test procedure adjustment." Because the test procedure adjustments have not been made, the MPG values in this report are always lower than those reported by the Department of Transportation. This difference for the combined car and truck fleet historically has been about 0.3 MPG. This systematic difference does not influence the fuel economy and technology trends in this report. Where only one MPG value is presented, it is 55/45 combined MPG. All vehicle weight data are based on inertia weight class (nominally curb weight plus 300 lbs). The light truck data in this paper include vehicles classified as light-duty trucks with gross vehicle weight ratings (GVWR) up to 8,500 lbs for all years shown.

This paper includes an estimate of 0-60 MPH acceleration time, calculated from engine rated horsepower and vehicle inertia weight, as in reference 26. This estimate provides a quantitative "index" of vehicle performance capability.

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* Numbers in brackets denote references listed at the end of the text.

Vehicle classification as to vehicle type, size class, and manufacturer/origin generally follows fuel economy label, Gas Mileage Guide, and MPG Standards protocols; exceptions are listed in Appendix A. In some passenger car tables, large sedans and wagons are aggregated as "Large," midsize sedans and wagons are aggregated as "Midsize," and "Small" includes all other cars. Pickups, vans and utility trucks are sometimes each subdivided as "Small," and "Large." The truck classification scheme used in this paper is explained in reference 14.

Grouping all vehicles into classes and then constructing time trends of parameters of interest, like MPG, can provide interesting and useful results. The results, however, are a strong function of the definitions used to define the classes. Nowhere is this more important than in the definition of Domestic and Import or Domestic and European and Asian vehicles used in this series of papers.

Classes based on other definitions are possible, and results from these other classifications may also be useful.

Appendix B lists the model year 1994, 1995, and 1996 nameplates and their average 55/45 MPG as of the data freeze date.

Appendix C contains a discussion of the fuel consumption importance of light-duty trucks with special emphasis on how light-duty truck fuel consumption compares to that of passenger cars.

Appendix D contains a series of tables in which the fleet is grouped into classes based on the number of engine cylinders.

Appendix E contains information about the fleet grouped into classes which reflect Domestic, European, and Asian design source.

Appendix F contains data on fleet by transmission class.

Appendix G contains data stratified by vehicle size class.

Appendix H contains data stratified by the number of engine valves per cylinder.

Appendix I contains data stratified by inertia weight class.

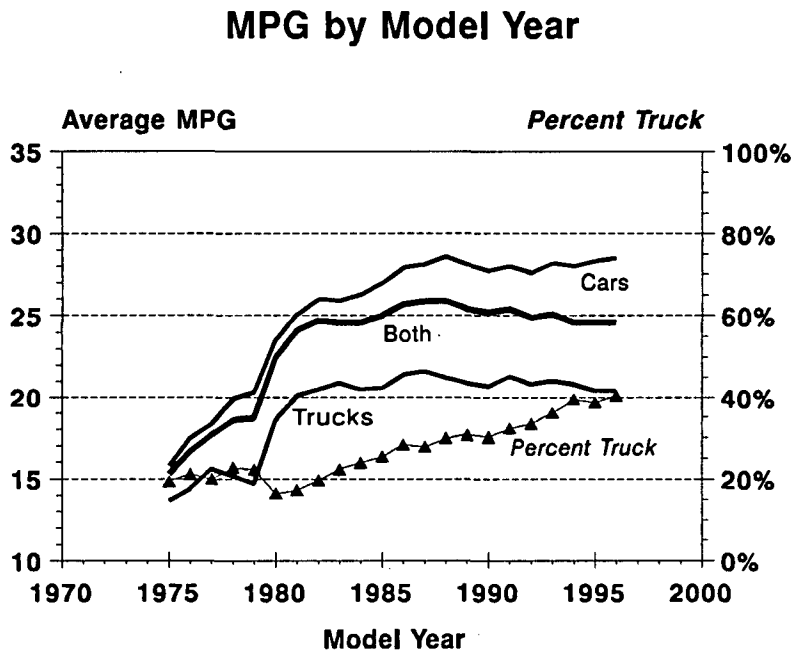

Figure 1

II. General Car and Truck Trends

Table 1 gives characteristics of passenger cars, light trucks, and all light-duty vehicles (cars and light trucks) for model years 1975 to 1996. Figure 1 shows that car and light truck combined fuel economy has been constant for the past three years at 24.6 MPG. This represents a decline from the peak of 25.9 attained in 1987 and 1988. For the past 10 years, cars have been within 0.5 MPG of 28 and light trucks with 0.6 MPG of 21.

The increase in the share of the market taken by light trucks is the most important trend in the light vehicle fleet over the past sixteen years and one which has not yet leveled off. Data in Table 1 can be used to estimate that the light-truck share of the market, now 40 percent, will exceed 45 percent in the year 2000.

Light Duty Truck Fuel Consumption Share

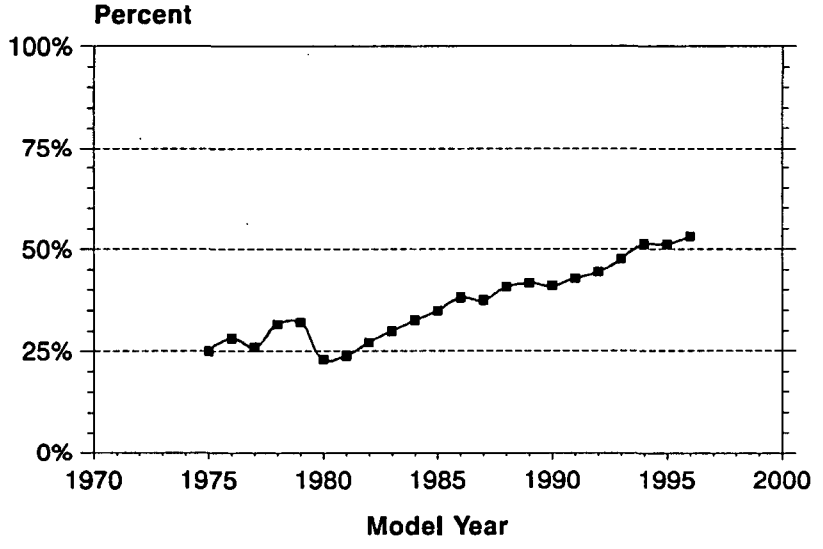

Figure 2

The fraction of total passenger car and light-truck fuel consumption that is attributable to light trucks depends on the ratio of light-truck sales to passenger car sales, the ratio of light-truck MPG to passenger car MPG, and the ratio of light-truck miles traveled to passenger car miles traveled.

The sales and MPG data are presented in Table 1, and as explained in Appendix C, we used the ratio of light-truck regulatory "useful life" (120,000 miles) to passenger car "useful life" (100,000 miles) as the miles traveled factor. The fuel consumption share shown in figure 2, therefore, represents a useful lifetime fuel consumption share.

Considering the fuel used by both passenger cars and light trucks as 100 percent, figure 2 shows that the share of the fuel consumed by light trucks has exceeded 50 percent for the past three years and might exceed 60 percent in model-year 2000.

Weight and Performance Trend
Passenger Cars

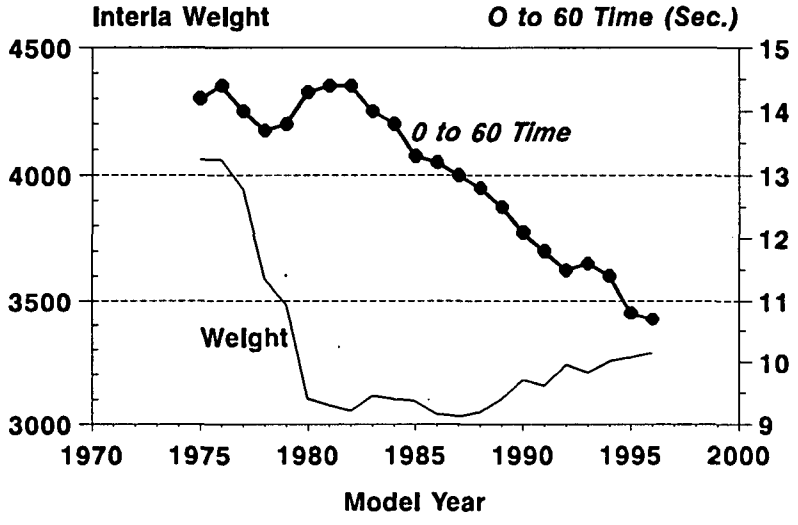

Figure 3

Weight and Performance Trend
Light Duty Trucks

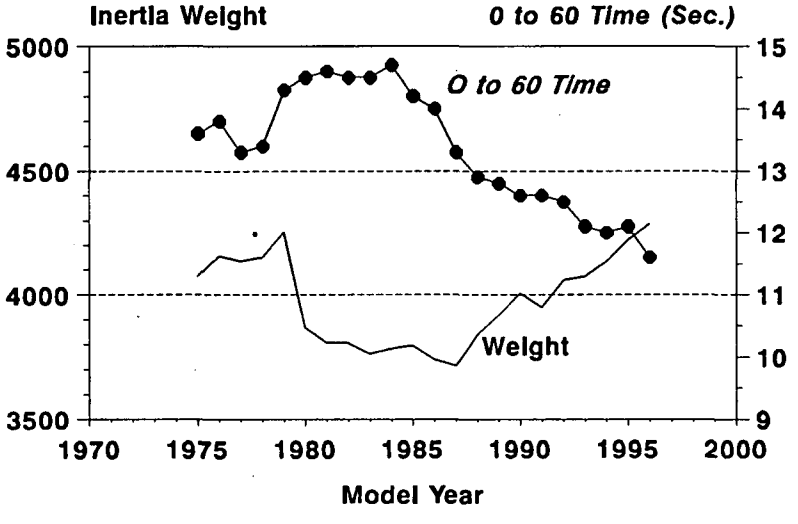

Figure 4

Figures 3 and 4 show that inertia weight for cars and trucks is on an upward trend, with light trucks averaging 1000 lb more than passenger cars. Regerring to table 1, one can see that the weight increase has not caused a substantial reduction in MPG. Cars and light trucks are getting more efficient at moving their weight around. Accounting for vehicle weight in a measure of vehicle efficiency can be done by looking at ton·MPG which is plotted in figure 5. Since 1975, cars have improved in ton·MPG by 45 percent; trucks by 55 percent. On a ton·MPG basis, trucks lag behind the performance of cars by about six years, while on an MPG basis (see figure 1), trucks are 15 years behind.

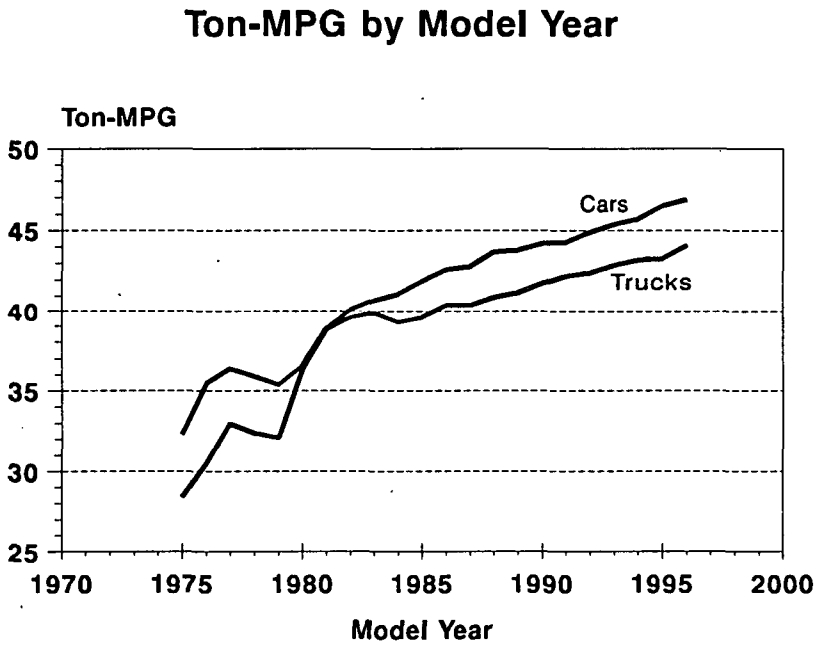

Figure 5

In addition to the market share of trucks, an MPG-related vehicle attribute which has changed significantly in the last decade is performance, which is also shown in figures 3 and 4.

In figures 6 and 7, the actual MPG trends for passenger cars and light-duty trucks are reproduced from figure 1. Also indicated on the figures are estimates of what the MPG would be if: a) the weight mix of vehicles were the same as in 1984, b) if the 0-60 performance of vehicles were the same as in 1984, and c) if both weight mix and performance were the same as in 1984. The trends

Passenger Car MPG

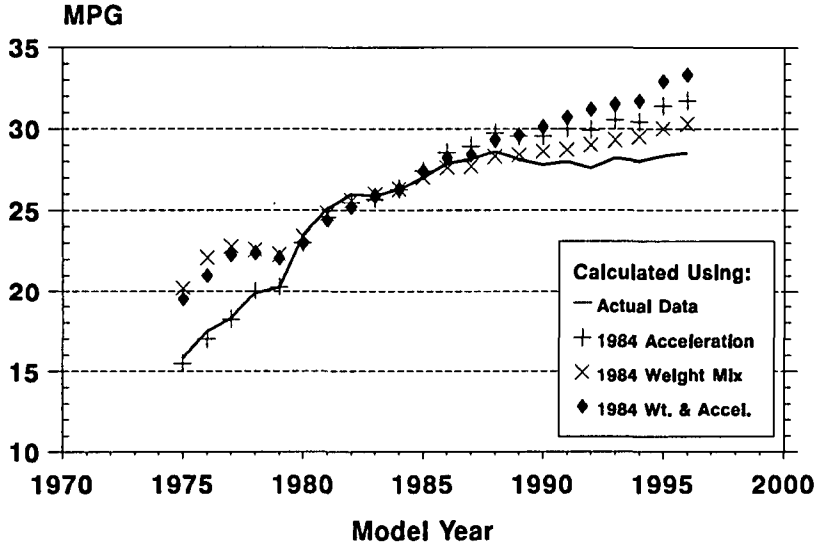

Figure 5

Light Truck MPG

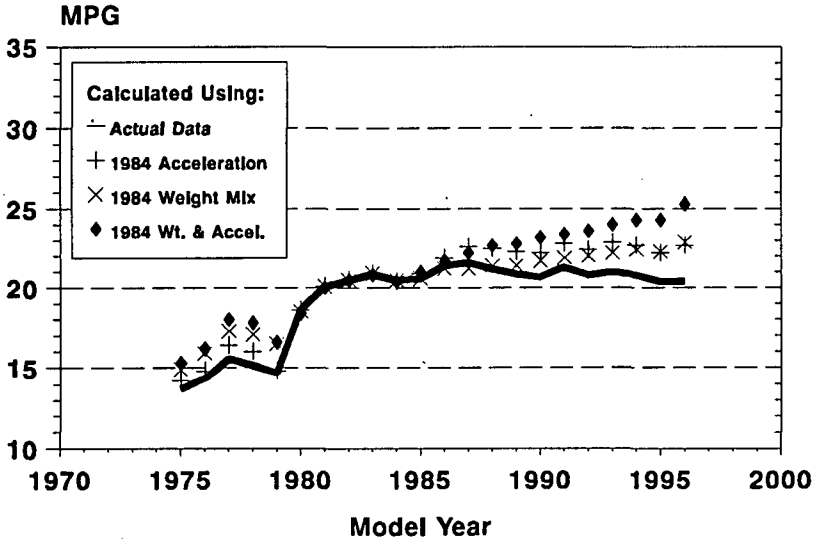

Figure 6

for both passenger cars and light trucks are the same: in recent years, the trends in weight and performance shown in figures 3 and 4 have resulted in lower fuel economy than if weight and performance had remained constant. The weight and perforamnce normalized fuel-economy values for 1995 for passenger cars (33.3 MPG) and light-duty trucks (25.3 MPG) are higher by 17 percent and 24 percent, respectively, than their actual 1996 values, and the overall fleet value of 29.5 MPG is 20 percent greater than the value of 24.6 shown in table 1.

Figures 8, 9, and 10 show car, truck, and MPG trends for domestic and import vehicles. On average, imported vehicles have consistently shown MPG levels exceeding those of domestic vehicles, but the rate of MPG improvement for domestics has exceeded that for imports. Import truck MPG has declined over 20 percent since 1981.

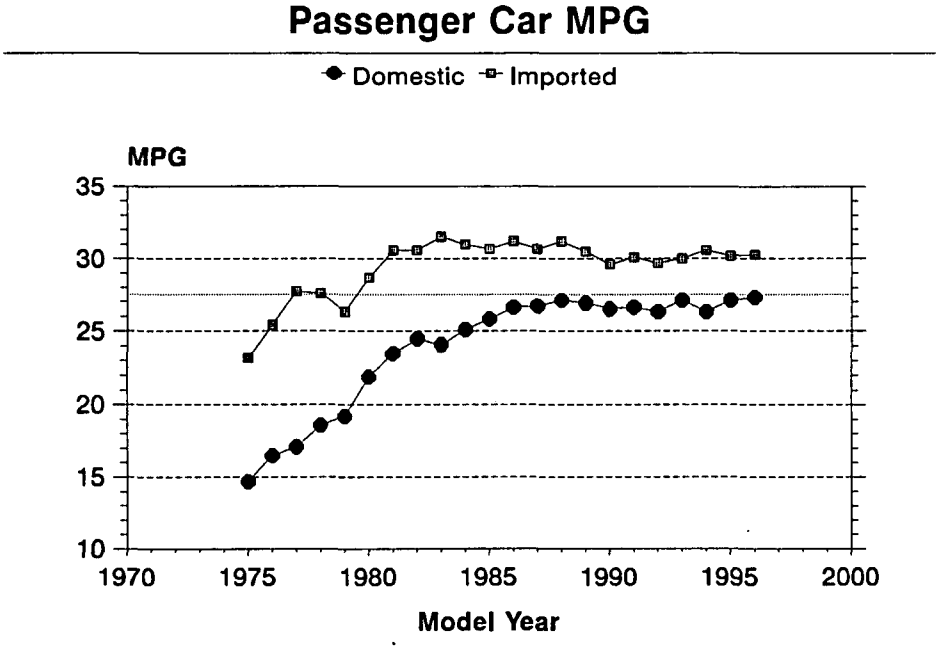

Figure 8

Light Truck MPG

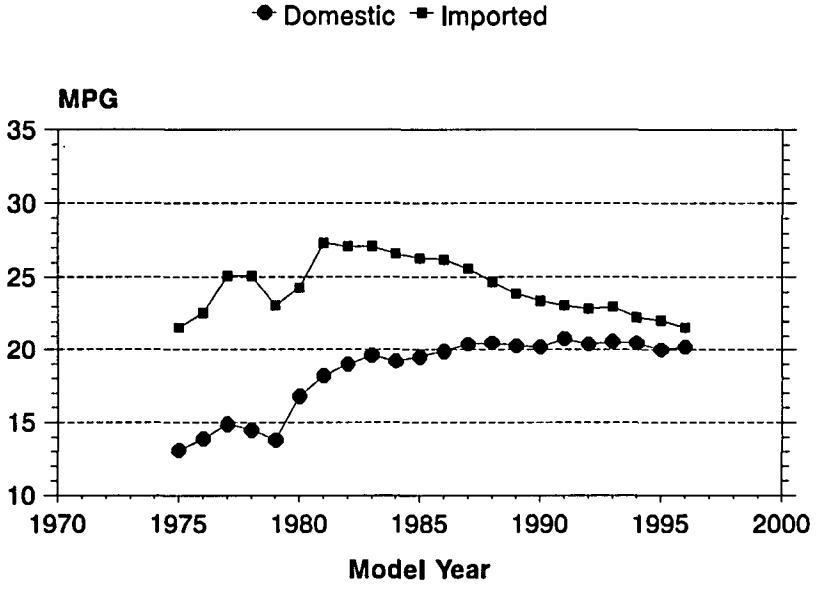

Figure 9

Car and Light Truck MPG

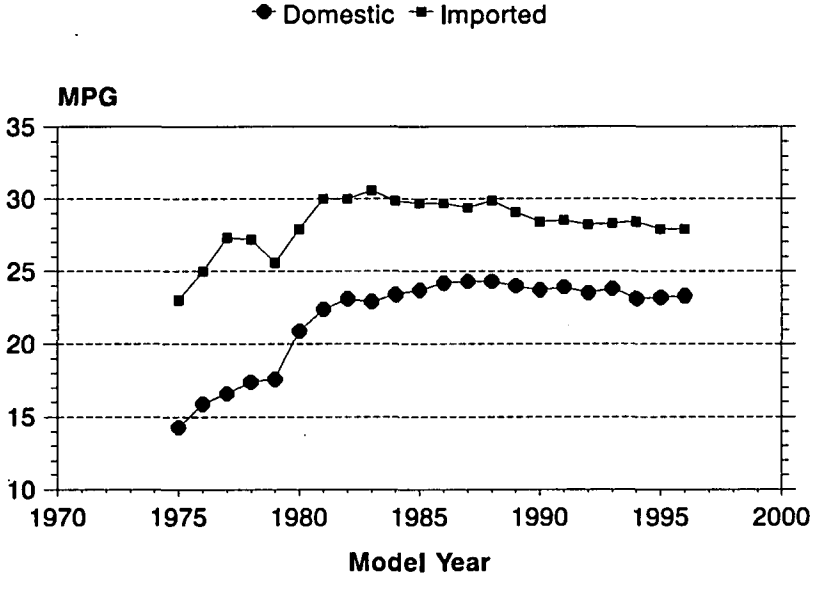

Figure 10

Passenger Car Horsepower, CID and HP/CID

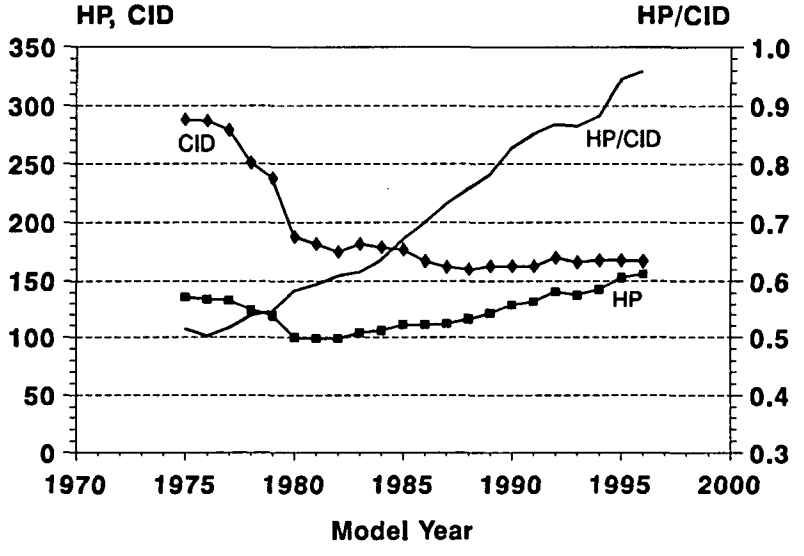

Figure 11

Light Duty Truck Horsepower, CID and HP/CID

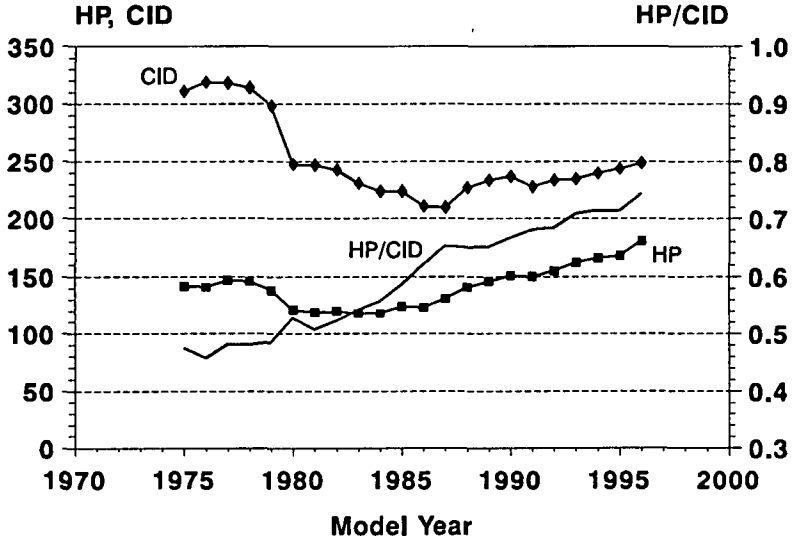

Figure 12

III. Technology Trends

Overall trends in horsepower, displacement, and specific power or horsepower per cubic inch (HP/CID) are presented for passenger cars and light trucks in figures 11 and 12, respectively. Engines in both vehicle types have improved in HP/CID since 1975, with the engines in passenger cars improving at a rate about twice that of truck engines. Current engine-related data are summarized in table 2.

Table 2

Car and Light Truck Engine Characteristics - 1996			
Vehicle Type	**Horsepower (HP)**	**Displacement (CID)**	**HP/CID**
Passenger Car	156	167	0.96
Light Truck	181	249	0.74

The difference in specific power between passenger cars and light trucks does not disappear when the data are stratified by domestic and import vehicles as demonstrated in figure 13.

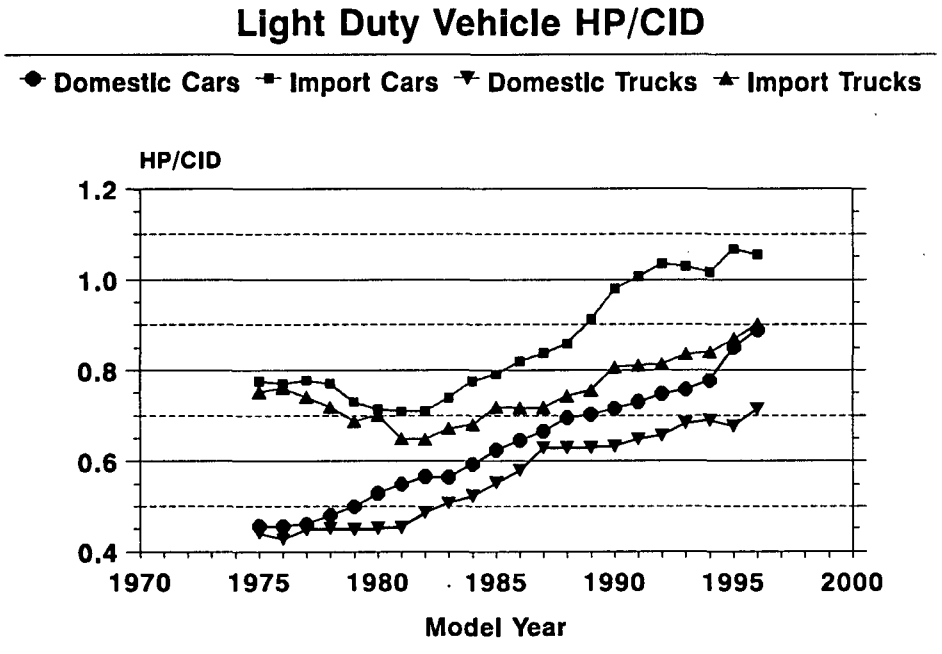

Figure 13

HP/CID by Number of Valves Per Cylinder
Passenger Cars

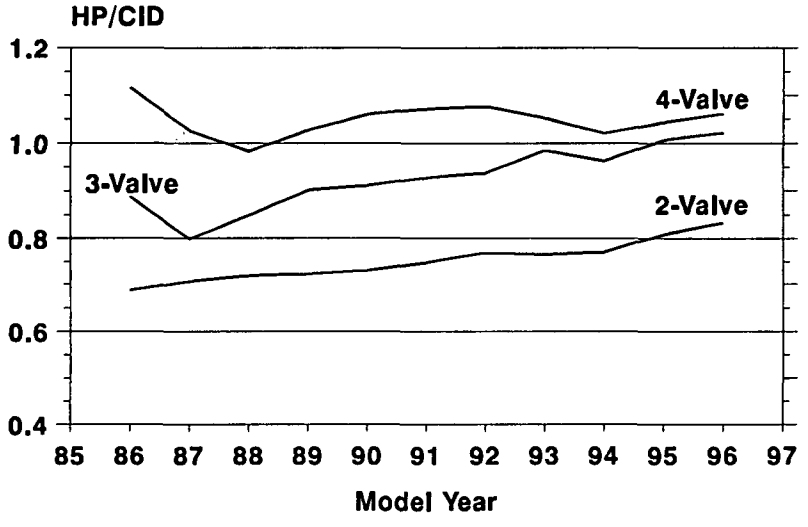

Figure 14

HP/CID by Number of Valves Per Cylinder
Light Duty Trucks

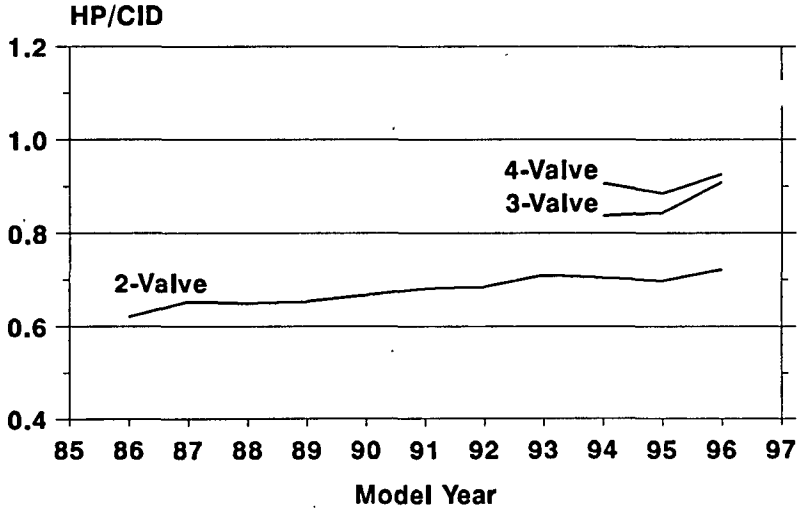

Figure 15

Passenger car engines have high values of HP per CID because HP per CID is improving for different engine types, and the fraction of the higher specific power engines is increasing. Figures 14 and 15 show HP/CID for engines with 2-, 3-, and 4-valve-per-cylinder cylinder-head configurations for cars and trucks. Trucks with the same cylinder-head configuration have lower specific power than do the corresponding passenger car engines. Figures 16 and 17 show the market share by number of valves per cylinder for cars and trucks. Almost all truck engines still have two valves per cylinder, but the market share of 4-valve-per-cylinder passenger car engines is now over 50 percent and is estimated to be over 66 percent by the year 2000.

For model-year 1996, light-truck engines average about 16 percent more horsepower and 49 percent greater displacement, compared to the average passenger car engine.

The use of four valves per cylinder in passenger car engines appears to be a trend that continues to grow. The use of this engine technology belongs with technologies like port fuel injection, front-wheel drive, and the lockup 4-speed transmission (see figure 18). In contrast, 3-valve-per-cylinder engines are grouped with technologies like throttle body fuel injection (TBI) and lockup 3-speed (L3) transmissions for which market share has peaked and declined (See figure 19). It is too early to predict what the future engine technology trends will be for light trucks.

Number of Valves Per Cylinder
Passenger Cars

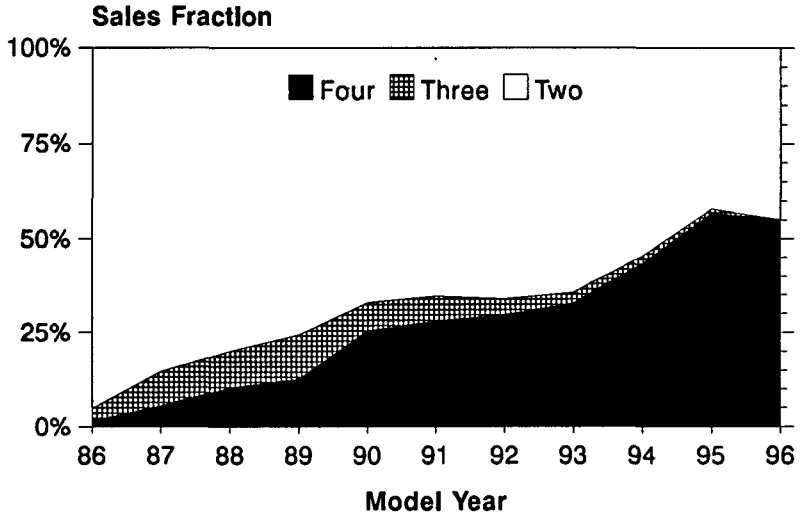

Figure 16

Number of Valves Per Cylinder
Light Duty Trucks

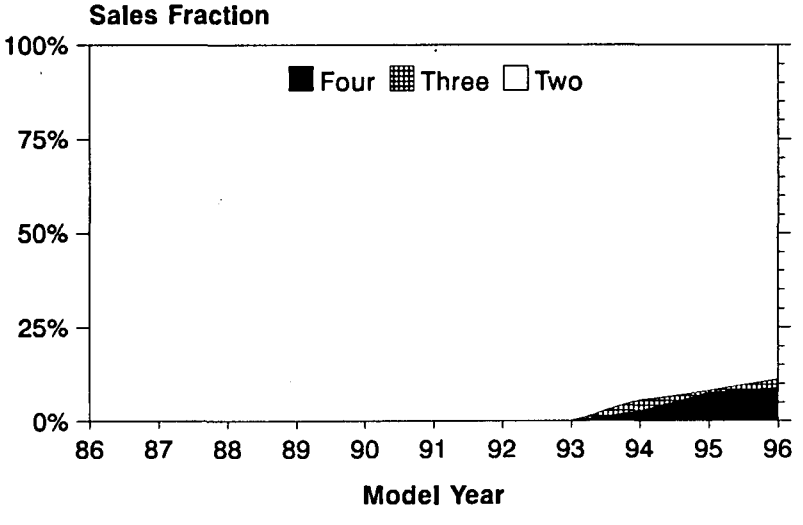

Figure 17

Passenger Car Technology Penetration
Years After First Significant Use

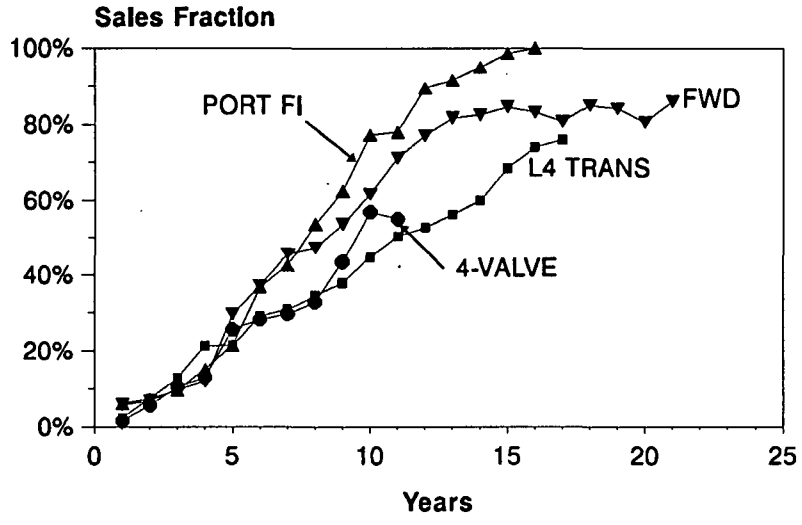

Figure 18

Passenger Car Technology Penetration
Years After First Significant Use

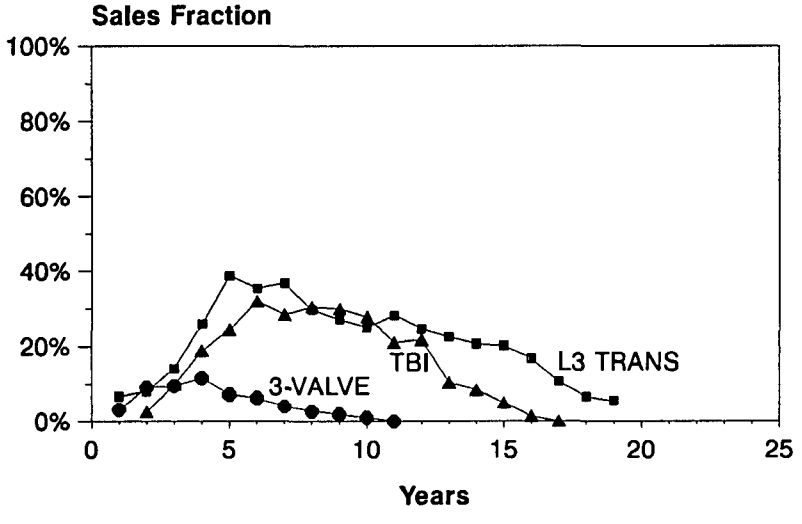

Figure 19

Passenger Car Ton-MPG

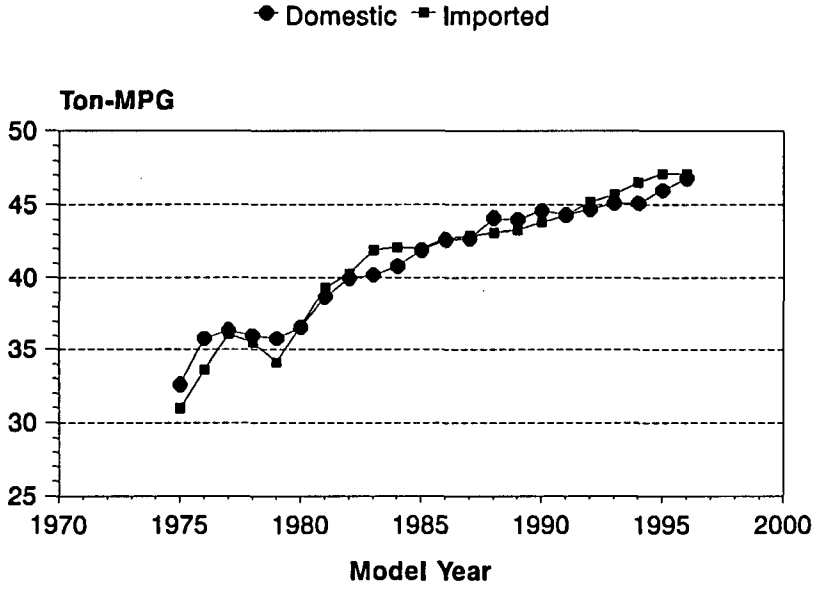

Figure 20

Light Duty Truck Ton-MPG

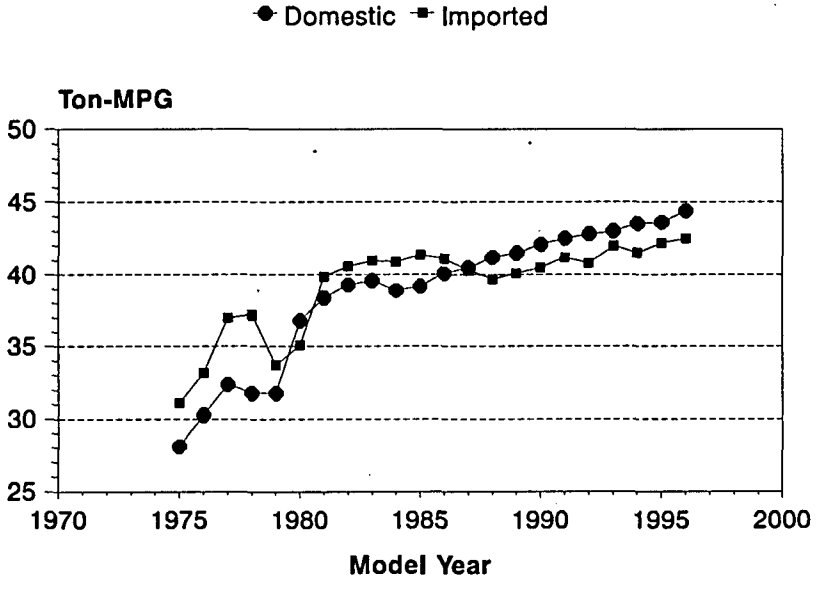

Figure 21

The increasing trend in ton·MPG discussed earlier persists even when the fleet is grouped into domestic and import classes (see figures 20 and 21). Domestic and import groups are shown to have similar ton·MPG trends and, perhaps more importantly, the same ton·MPG values. Clearly, the engine and transmission--the powertrain--are being designed to work more efficiently. This increased efficiency could be attributed to more efficient engines, better matching of the engine to the load required, or some combination of effects.

Powertrains are matched to the load better when the engine operates closer to its best efficiency point more of the time. For many conventional engines, this point is approximately 2000 RPM and 2/3 of the maximum torque at that speed. One way to make the engine operate more closely to its best efficiency point is to increase the number of gears in the transmission and for automatic transmissions, using a lockup torque converter.

If lockup automatic transmissions with more gears enable better powertrain matching, the ton·MPG should be better with such transmissions as part of the powertrain. Figures 22 and 23 do indicate that ton·MPG improves when more transmission gears and lockup torque converters are used. For both passenger cars and light trucks, ton·MPG improves by about 10 percent with the addition of one gear and a lockup torque converter. Figures 24 and 25 indicate that the L4 transmission has become the predominant transmission for both cars and trucks. Trucks have not lagged cars in the introduction of L4 transmissions. Where manual transmissions are used, the 5-speed (M-5) transmission now predominates.

In figures 26 and 27, the differences between cars and trucks in drivetrain configuration are apparent. Most cars are front-wheel drive; the largest drivetrain class for trucks remains rear-wheel drive, but almost 40 percent of trucks are 4-wheel drive, compared to 1 percent of passenger cars.

Passenger Car Ton-MPG
By Transmission and Number of Gears

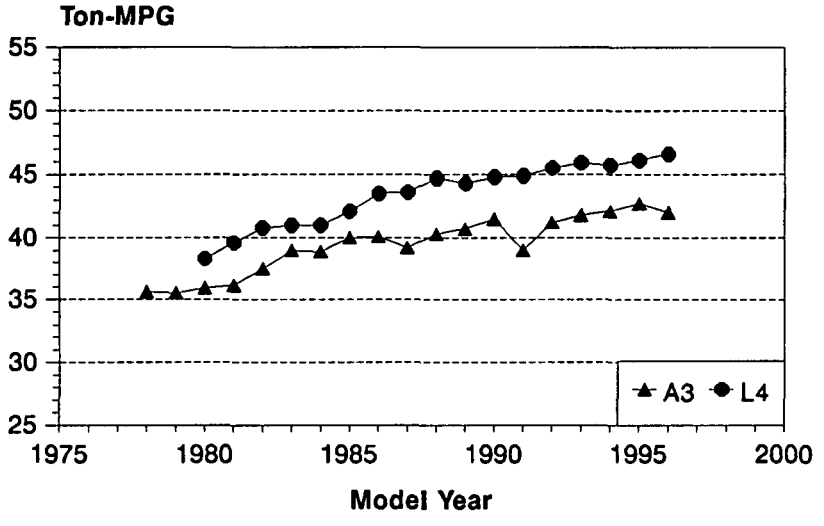

Figure 22

Light Truck Ton-MPG
By Transmission and Number of Gears

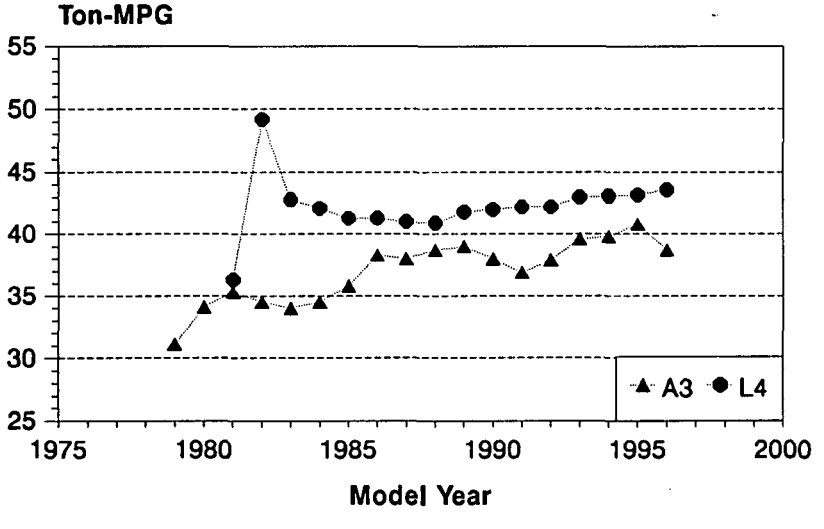

Figure 23

Transmission Sales Fraction
Passenger Cars

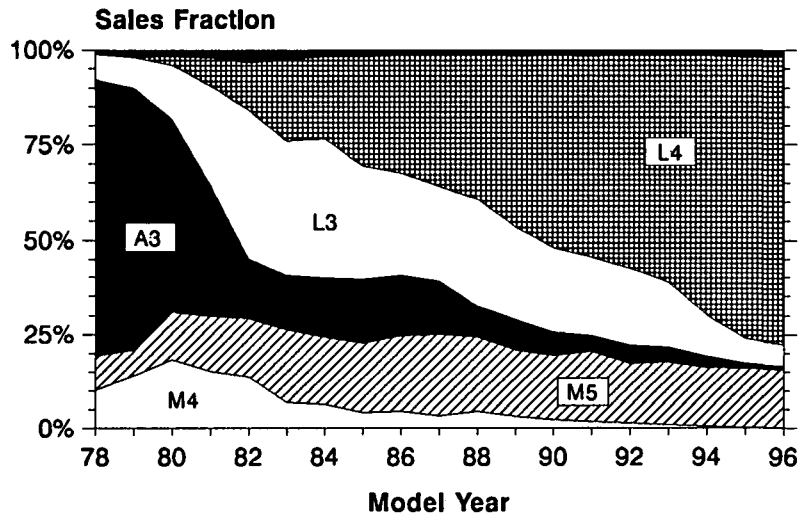

Figure 24

Transmission Sales Fraction
Light Duty Trucks

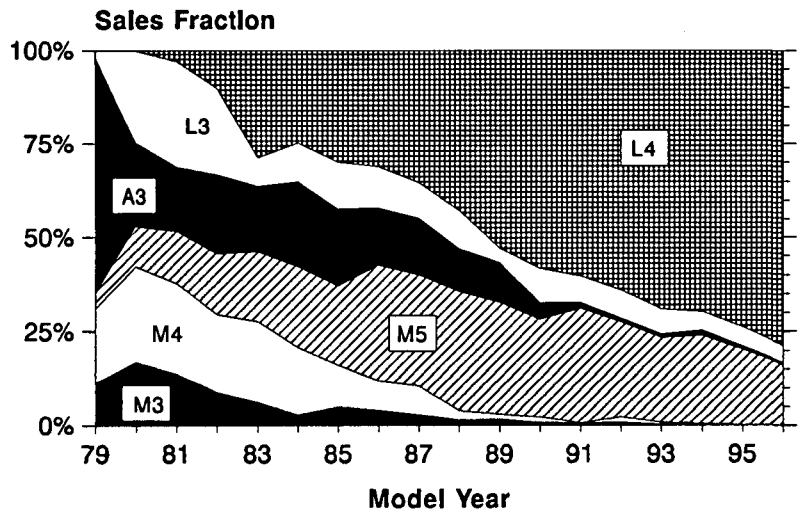

Figure 25

Front, Rear and Four Wheel Drive Sales Fraction
Passenger Cars

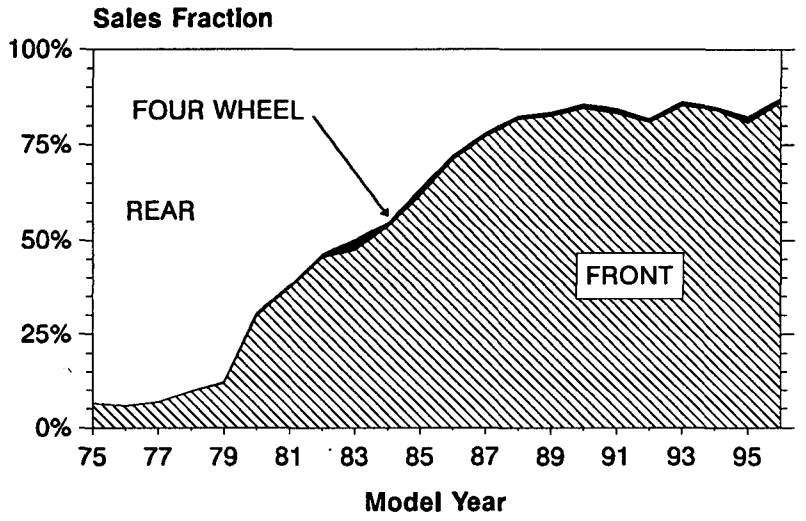

Figure 26

Front, Rear and Four Wheel Drive Sales Fraction
Light Duty Trucks

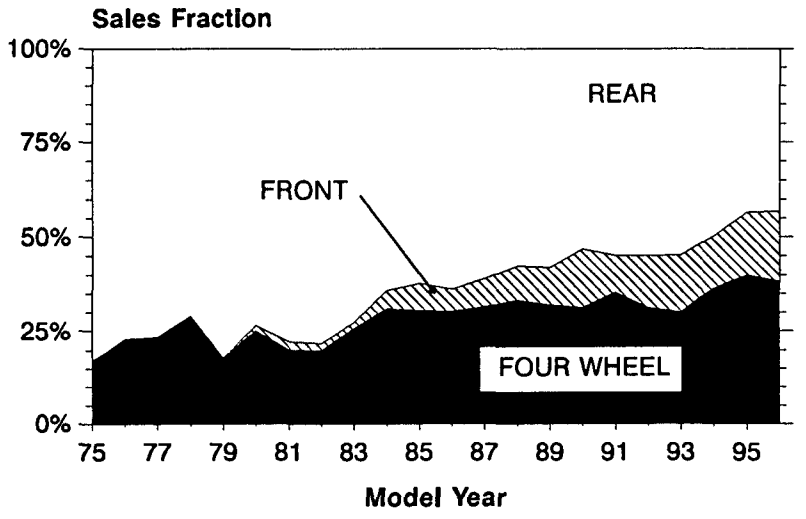

Figure 27

Passenger Car Sales Fraction

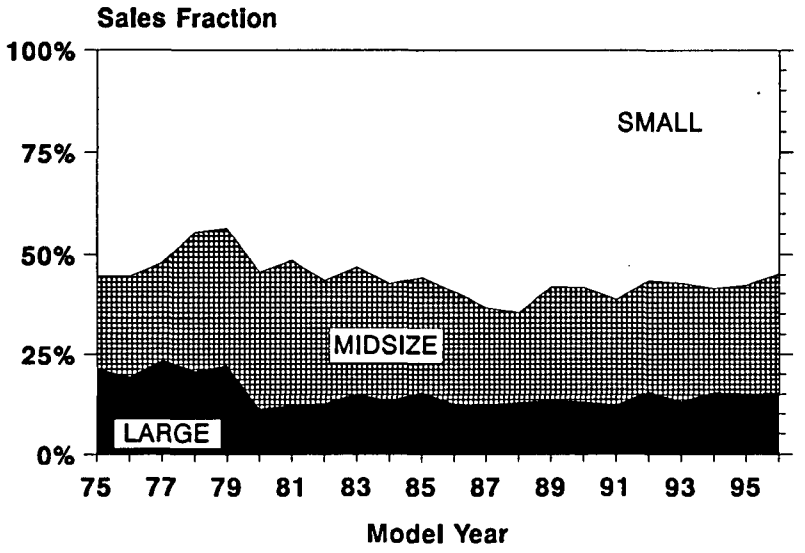

Figure 28

Light Duty Truck Sales Fraction

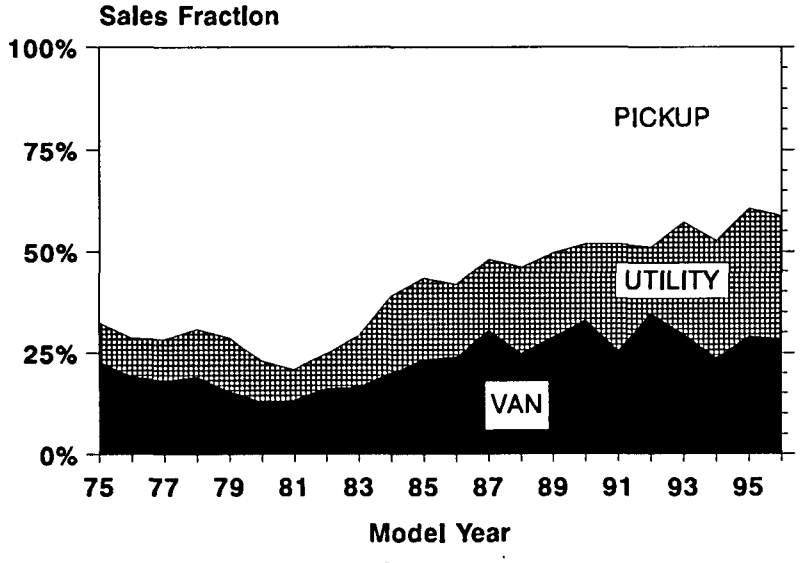

Figure 29

Car and Truck Sales by Size Class

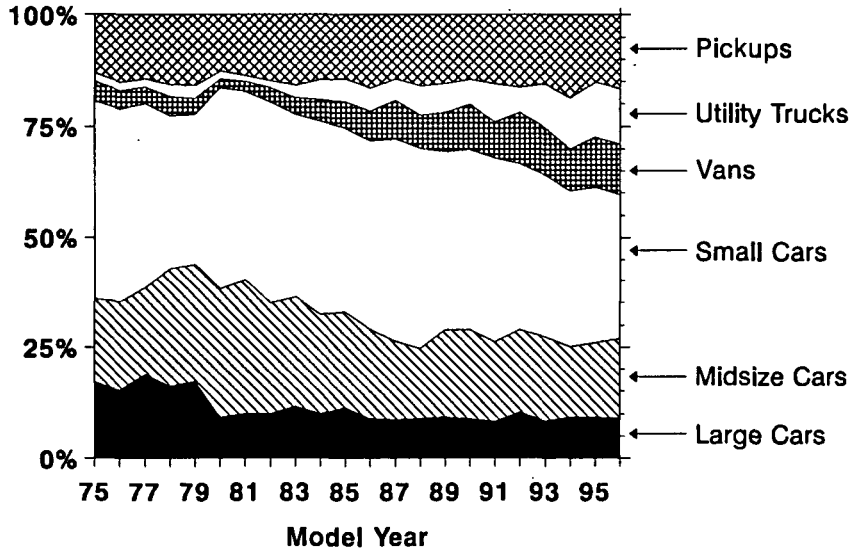

Figure 30

IV. <u>Trends by Market Segment and MPG Strata</u>

Figure 1 shows the increased market penetration of light trucks. In figures 28 and 29, the passenger cars and light trucks are subdivided into size classes, and the trends in the share of each vehicle type are shown over time. The sales mix of passenger cars has been relatively stable for several years. In contrast, in the light-duty truck market, pickup trucks have lost market share to vans and utility vehicles even though their share of the total market has remained stable (see figure 30). The whole fleet is shown in figure 30, which shows that there are six major classes of vehicles.

Figures 31 and 32 show the relative proportions of the passenger car and light truck market apportioned into domestic and import categories. Domestic manufacturers dominate the light truck category. Figures 33, 34, and 35 show the domestic and import percentages for pickups, vans, and utility trucks. The greatest import penetration has occurred in the utility segment. Figures 36, 37, and 38 show domestic and import fuel economy in the three classes. For vans and utilities, import and domestic MPG values are about the same, whereas imports lead in pickup trucks because they are lighter.

Passenger Car Sales Fraction

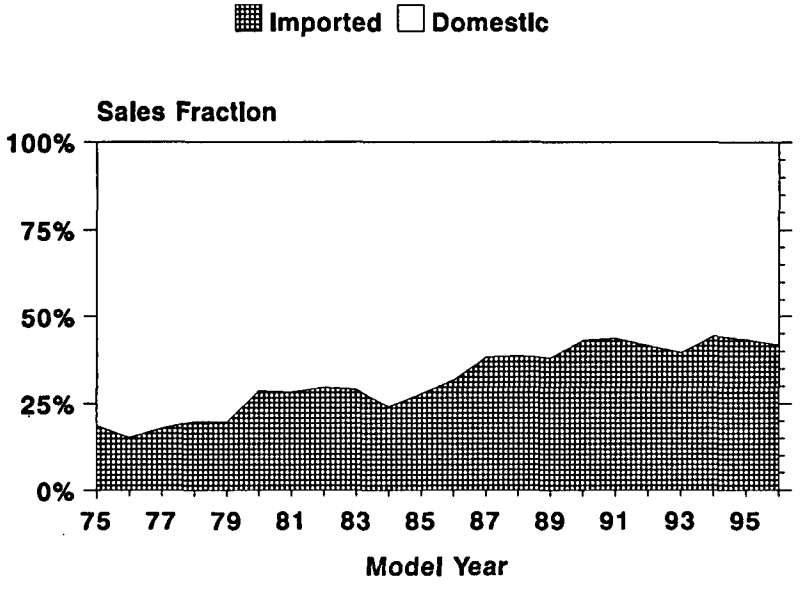

Figure 31

Light Duty Truck Sales Fraction

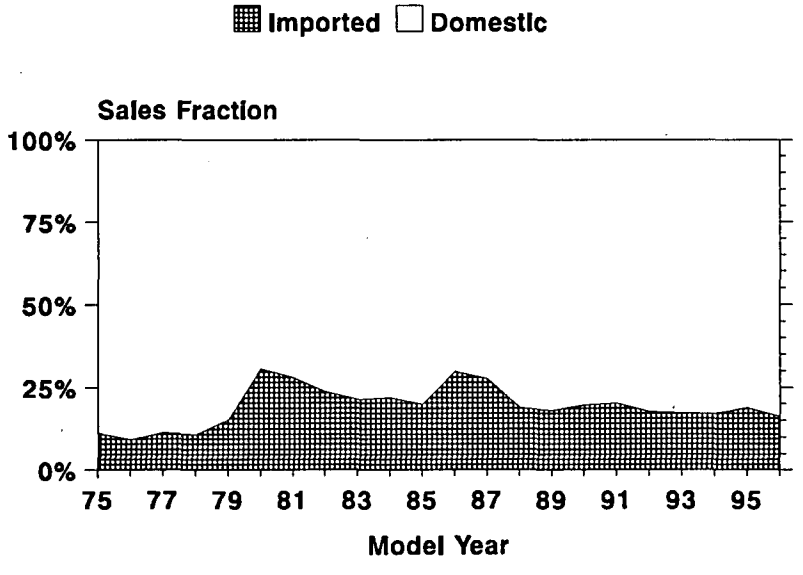

Figure 32

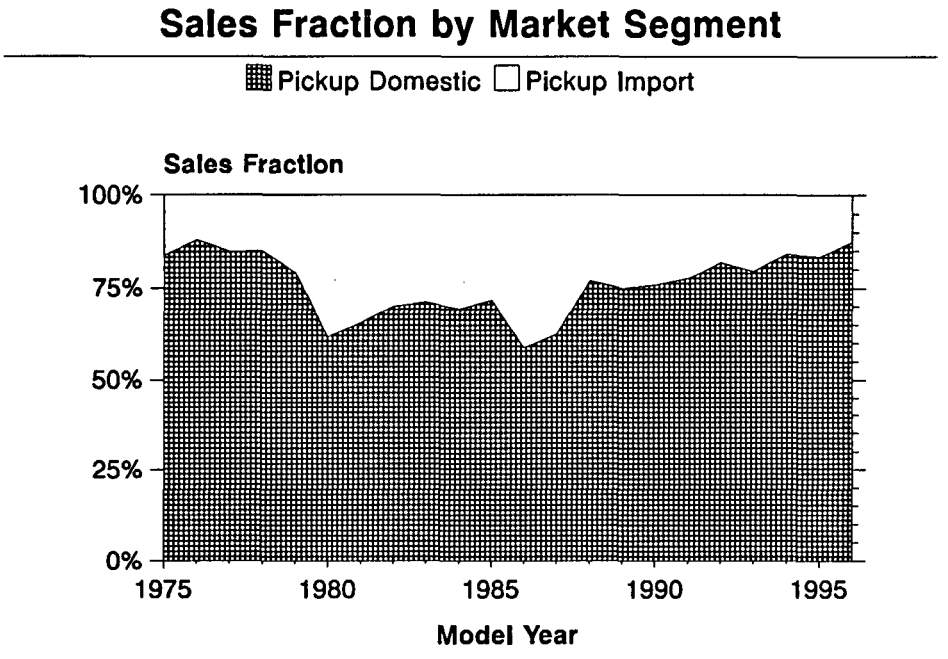

Figure 33

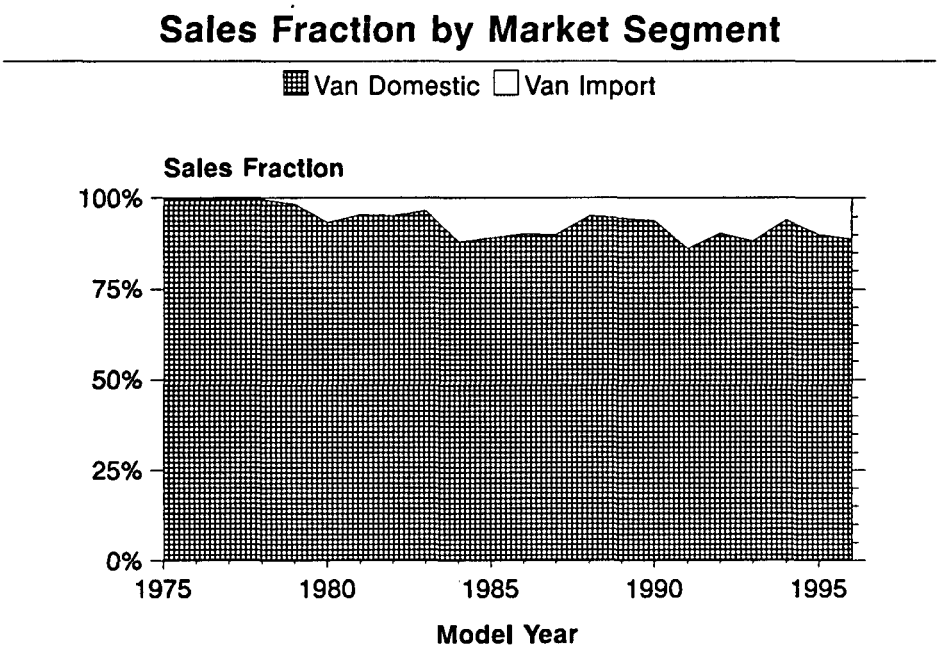

Figure 34

Sales Fraction by Market Segment

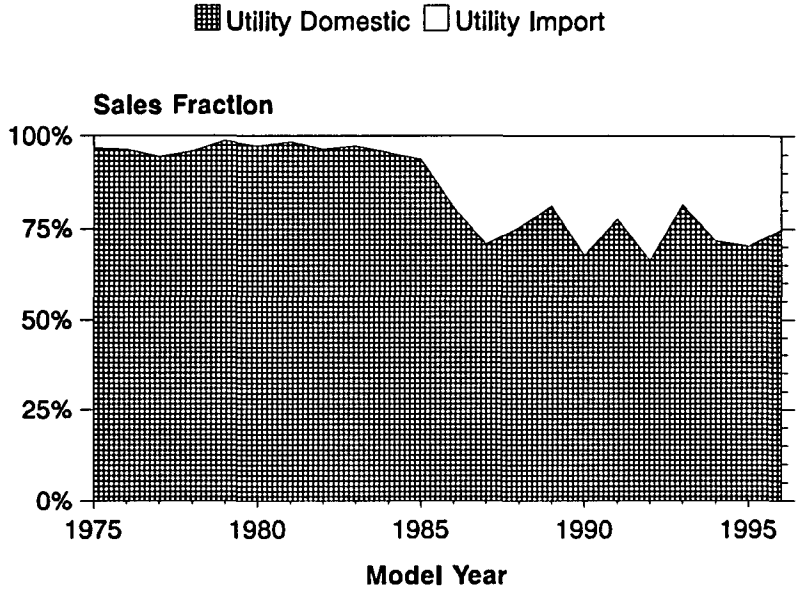

Figure 35

MPG by Market Segment

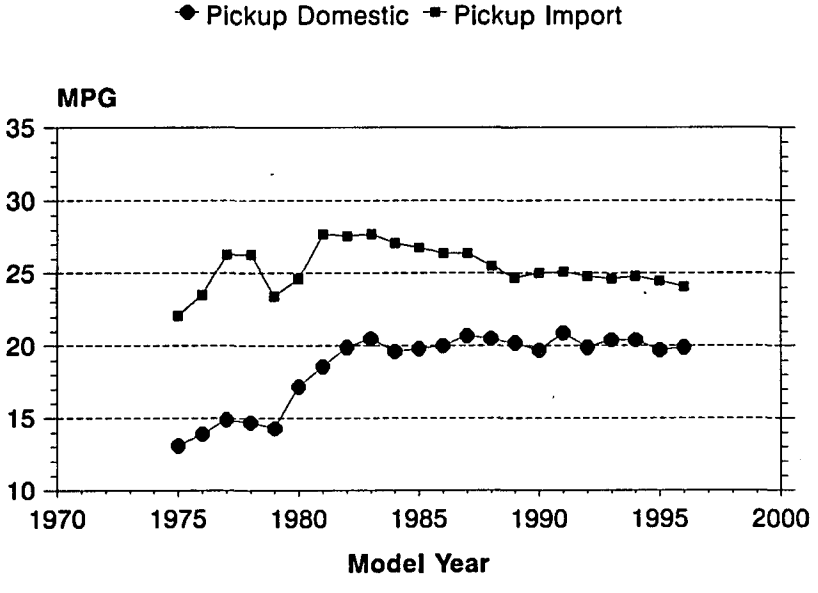

Figure 36

MPG by Market Segment

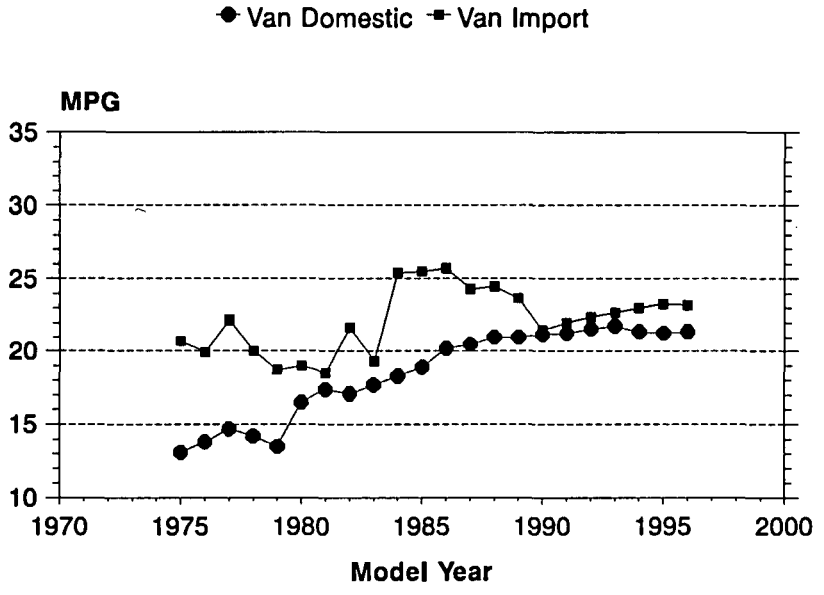

Figure 37

MPG by Market Segment

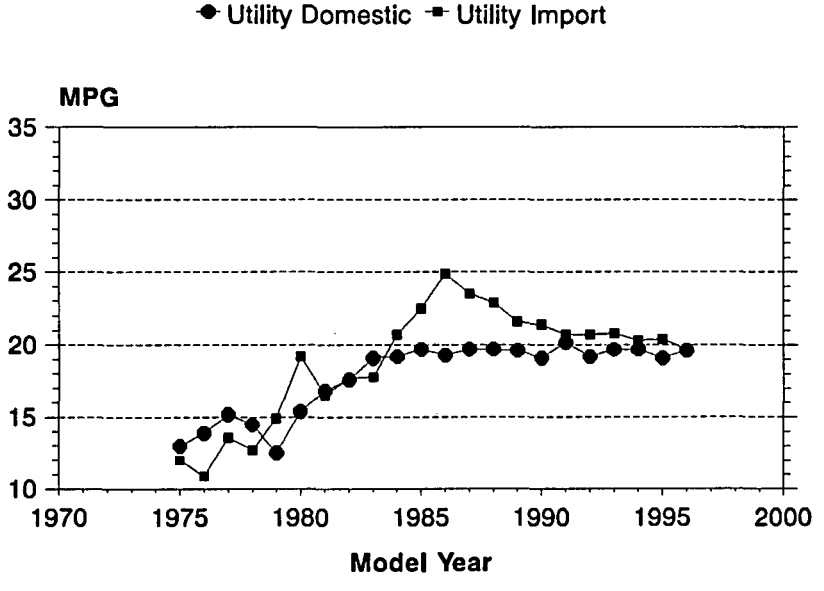

Figure 38

Light Duty Vehicle MPG

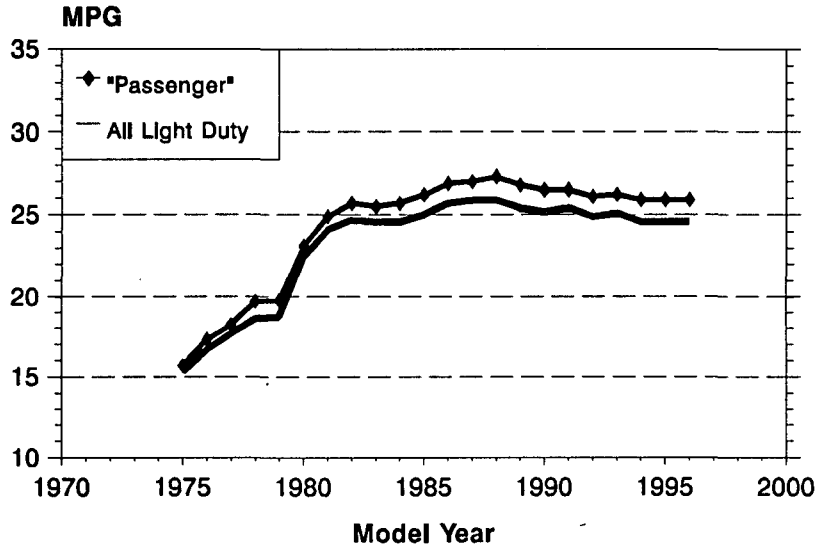

Figure 39

Vehicles are used to carry people and to carry cargo. Sometimes the regulatory and market classifications tend to obscure some of the more basic trends. As an estimate as to what would constitute a passenger-carrying class, we combined 1) all passenger cars, 2) all passenger vans, and 3) all sport/utility trucks. This grouping excludes cargo vans, all pickups, and other small classes, such as cab-chassis vehicles. The MPG trend for this primarily passenger-carrying class is shown in figure 39 which also shows the overall total passenger car plus light truck MPG trend from figure 1. Both curves show a similar trend in recent years, a decline from an early 1980's high.

Increasing the emphasis on light trucks and comparing them to passenger cars brings up differences between how the two vehicle types are regulated. The difference in average fuel economy standards is certainly one substantial regulatory difference between the two vehicle groups, but there is another one: the Gas Guzzler Tax (GGT) which applies to passenger cars having 55/45-MPG values below 22.5 MPG but not to light trucks. Passenger cars that have MPG values below the threshold are labeled "Gas Guzzlers" or "Guzzlers" for short. There is no corresponding term for light trucks that have similar fuel economy performance.

How this requirement might have impacted some market segment trends can be seen by looking at different vehicle classes:

1. The large car class, because these cars have generally had the poorest fuel economy of the sales-significant passenger car classes,

2. The small van,

3. The small utility, and

4. The small pickup.

The three light-truck classes were selected because they have the best chance of showing good fuel economy in the light-truck fleet since their large counterparts have lower fuel economy.

The relative market share of those large cars, small vans, small utilities, and small pickups that achieve less than 22.5 (55/45) MPG is shown in figure 40 for model years of interest. If cars with MPG less than 22.5 (55/45) MPG are Guzzlers, then it is obvious that there are not many Guzzlers left. If the light trucks are looked at from the same perspective, it would appear that the trend for light trucks is different from the passenger-car Guzzler trend--low fuel economy trucks are on the rise. In fact, if the entire light-truck class were to be considered versus the 22.5-MPG value, nearly 4 million light trucks (two out of three) could be considered Guzzlers, as shown on figure 41.

Sales Fraction of Vehicles with Less Than 22.5 MPG

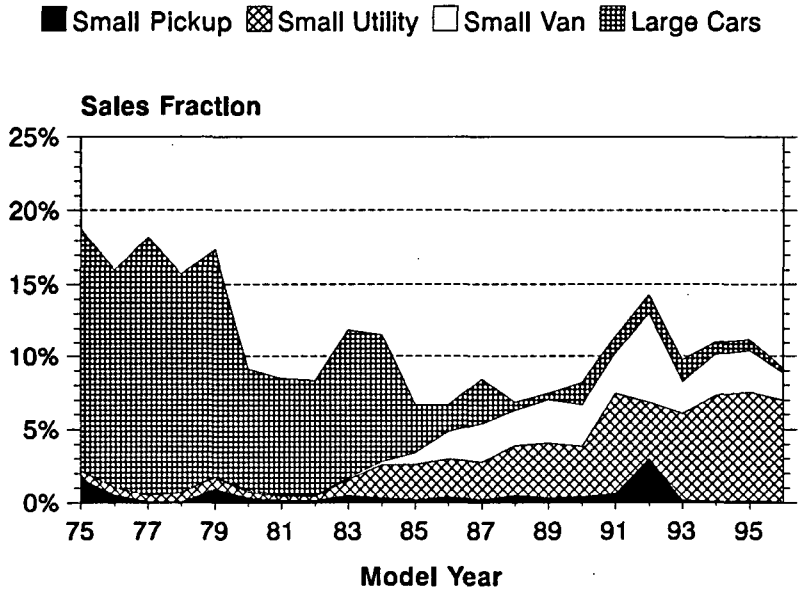

Figure 40

Sales Fraction of Light Trucks with MPG <22.5

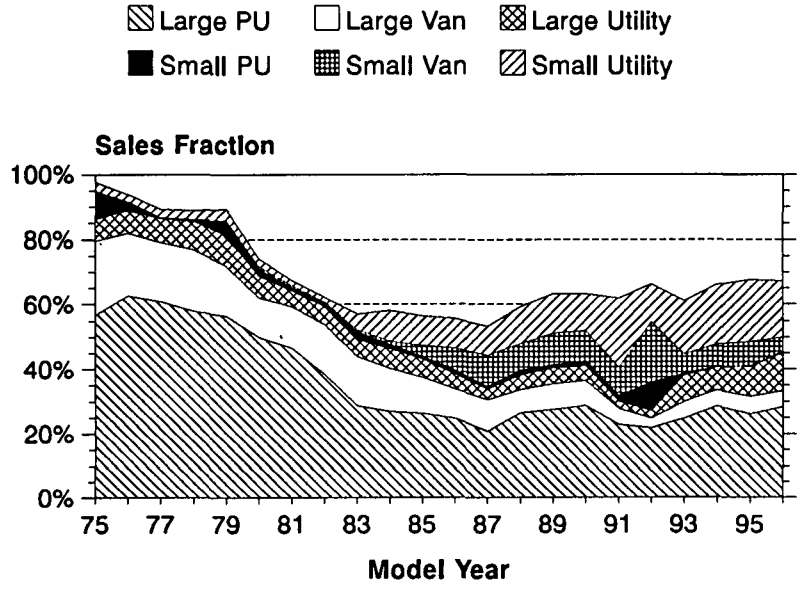

Figure 41

V. Fuel Economy Improvement Potential

In references 20 and 24, MPG capability contained in the then current fleet was examined using a method called the "best-in-class" (BIC) analysis. In a BIC analysis, one divides the baseline fleet of vehicles into classes and then examines the MPG characteristics of each class. If one selects the MPG performance of the best cars in the class (hence the name), one can recompute a fleet average using the best cars' MPG and the same relative sales proportions of the fleet that existed in the baseline. The BIC analysis was one of the methods used to investigate future fleet MPG capability when the original fuel economy standards were set.

The classes may be generated in any way, but the most common classes are those that are based on the car classes used for the EPA/DOE Gas Mileage Guide and the inertia weight classes used for EPA's emission certification program. We have chosen to use inertia weight classes, since if the sales proportions in each inertia weight class (IWC) are held constant, the average weight of the fleet does not change. The MPG values of the best dozen vehicles in each class were averaged, and the resulting values were used to re-calculate the fleet MPG values using the same relative proportions in each of the weight classes that constitute the fleet.

The results of the analysis are summarized in table 3, which shows that almost a 3-MPG increase in both passenger car and light truck MPG results from the BIC analysis. The vehicles used for the BIC analysis have less powerful engines and are more likely to be equipped with manual transmissions, compared to the fleet as a whole.

If the BIC MPG values for passenger cars and trucks are used to compute a total fleet MPG value, the result is 27.0 MPG compared to the actual 24.6 value found in table 1, roughly a 10-percent increase.

Table 3

1996 BEST-IN-CLASS (BIC) RESULTS MODEL YEAR 1996				
	Passenger Cars		Light Trucks	
	BIC	MPG Average	BIC	MPG Average
55/45 MPG	31.4	28.5	23.2	20.4
Weight	3285	3285	4286	4286
Volume	103	109	-	-
CID	136	167	224	249
HP	145	156	163	181
0-60 Time	11.3	10.7	12.5	11.6
% FWD	79	86	26	18
% Auto Transm.	41	84	61	84
% Domestic	30	58	85	84

The best-in-class analysis is only one of several methods that can be used to make inferences about the potential for obtaining other fuel economy levels. The major use of such methods is to investigate the potential for higher than current fuel economy levels. There is no interest in projections of lower than current fuel economy levels. In addition to the best-in-class approach, regression analysis, learning curve approaches, the menu method, the Delphi method, and engine map-based methods are the primary methods used.

Using regression analysis, in determining the relationship between fuel economy and variables that can explain it, is frequently used. Armed with an equation that describes MPG, one can alter one or more of the variables considered to be independent and examine what the MPG effect would be. Such approaches have been used, for example, to infer the effect reduced weight and reduced engine displacement would have on fuel economy. In most regression studies, the variables and the functional forms for them

are very often not based on any physical or engineering hypothesis, so the mechanistic cause-and-effect relationships are not sought and, consequently, not found.

Like best-in-class analyses, the regression approach cannot infer what would be the effect of a technical change that was not resent in the database, or inaccurately represented in the analysis with respect to its causal strength. For example, if the original database did not contain the results for shutting off the engine at idle or multi-valve engine use, then both the best-in-class and the regression methods would fail to predict the MPG benefit of using these technologies. Another limitation to both the best-in-class and regression analysis methods is that neither method predicts when the predicted MPG improvement can be attained.

Learning curve studies have been used a great deal in cost studies, but not very much in MPG projections. The basic theory used is that the more a given process is done, the more efficiently it can be performed. In cost studies, "more" is translated into cumulative production, and the "more efficiently" is translated into piece cost for a mass-produced item. Many manufacturing systems show behavior that can be modeled well enough to make projections concerning the cost reduction due to each doubling of cumulative production volume. When the "more-efficiently" variable is changed to fuel consumption (1/MPG), the fuel consumption versus cumulative production approach yields results that can be interpreted to imply changes in fleet MPG in the future. Learning curve analysis, like best-in-class and regression analysis, cannot explain from an engineering perspective how the forecast MPG improvement will occur. In addition, like any time series study, the results can be confounded by time trends in other factors affecting MPG.

One of the difficulties with the learning-curve approach is that the improvements in fuel economy seen over time may be due to reasons other than simply the industry getting better at doing the same thing. An example could be the introduction of new and different technology. The improvement seen over time could be due to increased penetration into the market of new, more fuel-efficient technologies, and the learning curve approach might be inappropriate.

The menu method derives its name from the list of fuel economy improving technologies or approaches available. In order to use the method, the technological characteristics of the baseline fleet are used as the starting point. To make a future projection of higher MPG, the fleet penetrations of technologies that result in fuel-economy improvements are increased, and new technologies can be added. The addition of new technologies is an important characteristic of this approach. If a fuel economy improving technology (e.g., a lean-burn engine or a 6-speed automatic transmission with lockup) can have a numerical fuel economy

improvement assigned to it, then on paper it can be introduced into the fleet, and its percent market penetration increased with resulting fleet fuel economy improvements. Points of (sometimes controversial) discussion with the menu method are: which technologies should be on the menu, what the fuel-economy impact of each technology is, how to model the results of combining more than one technology, and how fast the technologies on the list can penetrate into the new car fleet. Much of the analysis work for studies of automobile fuel economy have been of this type, many supported by the Department of Energy.

The Delphi method is another methodology that can be used to study future fuel economy levels. In this approach, a panel of experts is formed, each of whom possesses in-depth knowledge of the subject area. The panelists independently answer questions that deal with fuel economy potential. After the results are tabulated, the answers are sent back to each of the panel members so that the panelists can see how their answers compared to the consensus of, or the distribution of, the other answers. The panelists are then given a chance to change their answers, and the second-round results obtained are generally considered to be representative of "informed opinion" on the subject. This type of methodology requires the least amount of experimental data and tends to be the most subjective.

The engine map method utilizes hard data about the measured fuel consumption of an engine as a function of engine speed and engine load (an engine map) and vehicle characteristics such as weight, drag coefficient, frontal area, the rolling resistance of its tires, and the characteristics of its transmission and predicts the fuel consumed over a given vehicle duty cycle. If the duty cycle is the same one that is used to generate MPG values for the government's regulatory and public information programs dealing with MPG, then forecasts can be made of likely MPG improvements due to changes in engine efficiency or vehicle characteristics. Most of the public development of this method was done by the U.S. Department of Transportation (DOT). This method uses, as input data, fuel consumption maps and so is limited by the availability of engine maps. DOT has generated several engine maps for analysis purposes, but the engine mapping work stopped more than 10 years ago.

All of the methods for making estimates of future MPG potential have pros and cons. A robust approach could utilize some or all of the usual analysis methods, gaining improved understanding from both the similarities and differences in the resultant projections.

VI. Conclusions

1. The fuel economy of the light vehicle fleet has remained the same for the last three years.

2. Ton·MPG, as a measure of efficiency, has increased for 15 years.

3. The share of the market comprised by light trucks has been increasing for 15 years and is now 40 percent.

4. For the last three years, lifetime light-truck fuel consumption has exceeded that of passenger cars; now light trucks consume 53 percent of the total.

5. Two out of three light trucks have 55/45 MPG values below 22.5 MPG. Less than one percent of passenger cars are included in this Guzzler category.

6. Using a Best-in-Class methodology, the combined passenger-car and light-truck fleet has the potential to attain at least 27 MPG, ten percent greater than the current value.

VII. Acknowledgments

The authors wish to express their thanks and sincere appreciation to those who reviewed this report and to Lillian Johnson for word processing, editing, and report preparation. The authors would also like to take this opportunity to acknowledge the efforts and work of the late Gilbert Way in providing automotive engine specifications. The work Gil did made our efforts to prepare the database studied in this series of reports that much easier.

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APPENDIX A

Light Duty Vehicle Classification Convention

Manufacturer/Vehicles	Years	Are Classified As:
Chrysler Vehicles by Diamond Star	All	Asian Import
Chrysler Vehicles by Maserati	All	European Import
Chrysler Vehicles by Mitsubishi	All	Asian Import
Chrysler Colt 4wd Wagon	All	Small Wagon
Chrysler Colt Vista	All	Small Van
Chrysler Summit Wagon	All	Small Van
Mitsubishi Expo	All	Small Van
Mitsubishi Eclipse (2.0 l Na Engine)	96	Domestic
Mitsubishi Space Wagon	All	Small Van
Dodge Monaco	75-77	Domestic
Dodge Monaco	90-93	European Import
Eagle Premier	90-93	European Import
Eagle 4wd Wagon	All	Passenger Car
Dodge Ramcharger	All	Passenger Car
Ford Vehicles by Mazda	All	Asian Import
Ford Festiva	All	Asian Import
Ford Merkur/Scorpio	All	European Import
Ford Probe	All	Asian Import
Mercury Aspire	All	Asian Import
Ford Contor/Mystique (2.0 l Engine)	All	European Import
Ford Contor/Mystique (2.5 l Engine)	All	Domestic
Mercury Capri	75-86	Domestic
Mercury Capri	86-94	Asian Import
Ford Escort (All)	81-90	Domestic
Ford Escort (1.8 l)	91-96	Asian Import
Ford Escort (1.9 l)	91-96	Domestic
Mercury Tracer (1.8 l)	91-96	Asian Import
Mercury Tracer (1.9 l)	91-96	Domestic
Ford Taurus SHO	All	Asian Import
Ford Pinto Van	All	Passenger Car
Mercury Villager	All	Asian Import
General Motors vehicles by Isuzu	All	Asian Import
General Motors vehicles by Nummi	All	Asian Import
General Motors vehicles by Suzuki	All	Asian Import
Pontiac Lemans	75-81	Domestic
Pontiac Lemans	91-93	Asian Import
Cadillac Allante	All	Domestic
Isuzu Hombre	All	Domestic
Mazda Navajo	All	Domestic
Sterling	All	Asian Import
Subaru 4wd Sedans/Wagons	All	Passenger Cars
Suzuki X-90	All	Small Utility

Note: Classification of a vehicle as Domestic, European Import, or Asian Import is based on the authors' judgement of where the majority of the engine and emission control system development work was done. It is meant to be a tracking system for technical parameters related to engine and emission control development and is not a replacement for Domestic/Import definitions used in implementing automotive standards legislation.

APPENDIX B

1994, 1995 and 1996 Nameplate MPG Listing

1994 TWO-SEATER	MPG
Honda CIVIC DEL SOL	37.1
Alfa Romeo SPIDER	28.9
Mazda MX-5 MIATA	28.4
Toyota MR2	27.7
Honda NSX	23.9
Nissan 300ZX	23.8
Mazda RX-7	23.5
Porsche 968	23.3
Mercedes-Benz SL320	23.3
GM CORVETTE	22.9
Morgan PLUS 8	22.2
Ford Import XJS CONVERT	21.2
Porsche 911 CARRERA 4/2	21.2
Mercedes-Benz SL500	20.1
Chrysler VIPER	19.3
Ferrari 348	17.0
Mercedes-Benz SL600	17.0
Ferrari 512 TR	14.5
Chrysler Import DIABLO	12.9

1995 TWO-SEATER	MPG
Honda CIVIC DEL SOL	37.1
Mazda MX-5 MIATA	30.0
Toyota MR2	28.3
Panoz PANOZ ROADSTER	24.2
GM Import LOTUS ESPRIT	24.2
Nissan 300ZX	23.8
Honda NSX	23.8
Porsche 968	23.2
GM CORVETTE	23.2
Mercedes-Benz SL320	23.1
Mazda RX-7	22.9
Mercedes-Benz SL500	20.7
Chrysler VIPER	17.4
Mercedes-Benz SL600	17.3
Ferrari 348	17.1
Ferrari F512M	14.5
Ferrari F355	13.7
Chrysler Import DIABLO	12.8
Ferrari F50	10.3

1996 TWO-SEATER	MPG
Honda DEL SOL	37.9
BMW Z3 ROADSTER	30.2
Mazda MX-5 MIATA	29.6
Nissan 300ZX	23.9
Honda NSX	23.3
GM CORVETTE	23.2
Mercedes-Benz SL320	23.1
Mazda RX-7	22.9
Mercedes-Benz SL500	21.8
Chrysler VIPER	18.3
Mercedes-Benz SL600	18.2
Chrysler Import DIABLO	12.7
Vector AVTECH	12.0

1994 MINI-COMPACT	MPG
Toyota PASEO	34.5
Ford Import CAPRI	30.1
BMW 318I CONVERTIBLE	28.6
BMW 325i CONVERTIBLE	26.1
Nissan 240SX	25.8
Mercedes-Benz E320	24.7
Volkswagen CABRIOLET	24.6
Toyota SUPRA	23.6
Porsche 968	23.4
Porsche 911 CARRERA 4/2	21.1
Porsche 911 TURBO	18.5
Porsche 928 GTS	18.4

1995 MINI-COMPACT	MPG
Toyota PASEO	35.0
Toyota CELICA CONVERT	29.2
BMW 318i CONVERTIBLE	28.6
Nissan 240SX	27.6
BMW 325i CONVERTIBLE	26.3
Mercedes-Benz E320	25.1
Volkswagen Cabriolet	24.4
Toyota SUPRA	23.6
Porsche 968	23.2
Porsche 911 CARRERA 4/2	22.5
Porsche 928 GTS	18.2

1996 MINI-COMPACT	MPG
Toyota PASEO	36.6
BMW 318i CONVERTIBLE	29.7
Mitsubishi ECLIPSE CON	28.6
Toyota CELICA CONVERT	28.2
Nissan 240SX	27.8
BMW 328i CONVERTIBLE	26.4
Volkswagen CABRIOLET	24.5
Toyota SUPRA	23.6
Ford Import JAGUAR XJS	23.2
Porsche 911 CARRERA 4/2	22.6
Porsche 911 TURBO	17.4

1994 SMALL WAGON	MPG
Ford Import ESCORT	35.8
Ford Import TRACER	35.1
Toyota COROLLA	33.8
GM SW	32.6
Subaru IMPREZA	30.6
Subaru IMPREZA AW	29.1
Honda ACCORD	29.0
GM CAVALIER	29.0
Subaru LEGACY	26.9
Subaru LEGACY AWD	26.6
BMW 525i TOURING	24.5
Volkswagen 100 QUATTRO	23.4
Volkswagen 100	23.4
BMW 530i TOURING	22.8

1995 SMALL WAGON	MPG
Toyota COROLLA	35.2
Ford ESCORT	34.8
Ford TRACER	34.1
GM SW	33.8
Subaru IMPREZA	30.7
Subaru IMPREZA AWD	28.8
Honda ACCORD	28.5
BMW 525i TOURING	24.4
Volkswagen A6	24.1
Volvo 960	23.5
Volkswagen A6 QUATTRO	23.5
Volkswagen S6	23.1
BMW 530i TOURING	23.0
Ford FEDERAL LINCOLN	20.8
GM FEDERAL CADILLAC	18.3

1996 SMALL WAGON	MPG
Toyota COROLLA	35.5
Ford ESCORT	34.3
GM SW	33.5
Ford TRACER	33.1
Hyundai ELANTRA	30.7
Subaru IMPREZA AW	28.9
Honda ACCORD	27.9
Volkswagen A6	25.0
Volkswagen A6 QUATTRO	24.1
Volvo 960	24.0

APPENDIX B (Continued)

1994, 1995 and 1996 Nameplate MPG Listing

1994 SUB-COMPACT	MPG
GM Import METRO XFi	65.8
Honda CIVIC HB VX	58.6
Suzuki SWIFT	52.3
GM Import FIREFLY	50.6
GM Import SPRINT	50.0
GM Import METRO	49.1
Ford Import ASPIRE	41.1
Subaru JUSTY	39.0
Honda CIVIC	38.3
Chrysler Import COLT	36.5
Hyundai X-2	36.2
Mitsubishi MIRAGE	36.0
Toyota TERCEL	35.6
Mitsubishi SUMMIT	35.4
Subaru JUSTY AWD	35.2
Mazda MX-3	35.0
Nissan SENTRA	34.8
Hyundai SLC	34.0
GM SC	33.2
Toyota CELICA	32.5
Honda INTEGRA	31.6
Subaru IMPREZA	30.9
GM CAVALIER	30.5
Mitsubishi ECLIPSE	30.2
GM SUNBIRD	30.2
Chrysler Import LASER	29.9
Chrysler Import TALON	29.8
Ford Import PROBE	29.4
Subaru IMPREZA AWD	29.0
BMW 318i, 318iS	28.7
Mazda MX-6	28.7
Honda PRELUDE	28.4
Subaru SVX AWD	27.8
Chrysler LEBARON CONVERT	26.5
BMW 325i, 325iS	26.1
GM Import SAAB CONVERT	25.6
Mercedes-Benz E32Q	24.7
GM CAMARO	24.7
Ford MUSTANG	24.6
GM FIREBIRD	24.5
Volkswagen 90 QUATTRO	24.4
Mitsubishi 3000 GT	24.3
Volkswagen CORRADO SLC	24.1
Chrysler Import STEALTH	24.0
Subaru SVX	23.7
Nissan J30	23.6
Nissan 300ZX 2+2	23.6
Toyota SC300/SC400	23.0
Ford Import XJS	21.3
BMW 840Ci	20.3
SALEEN	17.1
BMW 850CSi	16.6
Rolls-Royce CONTINENTAL	13.9
Rolls-Royce CORNICHE IV	13.9

1995 SUB-COMPACT	MPG
Honda CIVIC HB VX	58.6
Suzuki SWIFT	42.6
GM Import METRO	42.3
Ford Import ASPIRE	40.2
Toyota TERCEL	39.9
Honda CIVIC	39.0
Nissan SENTRA/200SX	37.2
Chrysler Import SUMMIT	36.8
Suzuki ESTEEM	36.8
Mitsubishi MIRAGE	36.1
Mazda MX-3	35.5
Nissan SENTRA CLASSIC	35.3
GM SC	34.3
Hyundai SCOUPE	34.2
Toyota CELICA	32.9
Honda INTEGRA	31.6
Subaru IMPREZA	31.2
Ford Import PROBE	29.7
Subaru IMPREZA AWD	29.2
Mazda MX-6	29.0
Mitsubishi ECLIPSE	28.6
BMW 318i, 318iS	28.4
Volkswagen Cabrio	28.3
Honda PRELUDE	28.2
GM Import SAAB CONVERT	28.2
Chrysler LEBARON CONVERTI	27.3
BMW 325i, 325iS	26.3
Chrysler Import TALON	26.2
BMW M3	25.6
GM CAMARO	25.2
Mercedes-Benz E320	25.1
Ford MUSTANG	24.8
GM FIREBIRD	24.7
Mitsubishi 3000 GT	24.3
Chrysler Import STEALTH	24.0
Subaru SVX	23.7
Nissan 300ZX 2+2	23.7
Nissan J30	23.6
Subaru SVX AWD	23.4
Toyota SC300/SC400	23.0
Mitsubishi 3000 GT SPYDER	22.9
Ford Import JAGUAR XJS COUP	22.8
Ford Import JAGUAR XJS CONV	22.8
BMW 840Ci	22.1
BMW 850Ci	18.7
Saleen MUSTANG S	17.1
BMW 850CSi	16.3
Ford Import JAGUAR XJS V12	16.2
Ferrari 456 GT	14.0
Rolls-Royce BENTLEY CONTINE	13.9
Rolls-Royce CORNICHE IV	13.9
Rolls-Royce ROLLS-ROYCE COR	13.9

1996 SUB-COMPACT	MPG
Honda CIVIC HX	45.6
GM Import METRO	44.4
Suzuki SWIFT	44.2
Ford Import ASPIRE	41.3
Toyota TERCEL	39.7
Honda CIVIC	38.4
Nissan SENTRA/200SX	36.7
Suzuki ESTEEM	36.7
Chrysler Import SUMMIT	35.9
Mazda MX-3	35.9
Mitsubishi MIRAGE	35.8
GM SC	34.5
Toyota CELICA	32.9
Honda INTEGRA	32.1
Subaru IMPREZA	31.3
Ford Import PROBE	31.2
BMW 318i, 318iS	29.8
Subaru IMPREZA AWD	29.1
Volkswagen CABRIO	29.1
Chrysler Import TALON	28.9
Mazda MX-6	28.9
Mitsubishi ECLIPSE	28.7
Honda PRELUDE	28.0
BMW M3	26.8
Ford PROBE	26.8
BMW 328i, 328iS	26.3
Ford MUSTANG	25.5
GM CAMARO	25.2
GM FIREBIRD	24.7
Mitsubishi 3000GT	24.3
Chrysler Import STEALTH	24.1
Nissan 300ZX 2+2	23.9
Toyota SC300/SC400	23.8
Nissan J30	23.7
Mitsubishi 3000GT SPYDER	23.6
Subaru SVX AWD	23.4
BMW 840Ci	19.7
BMW 850Ci	18.7
Rolls-Royce BENTLEY AZURE	14.9

APPENDIX B (Continued)

1994, 1995 and 1996 Nameplate MPG Listing

1994 COMPACT	MPG
Ford Import ESCORT	35.7
Hyundai PRECIS	35.6
Ford Import TRACER	35.2
Mazda 323	33.6
GM SL	33.4
Toyota COROLLA	33.1
GM Import PRIZM	33.1
Kia SEPHIA	32.9
Mazda PROTEGE	32.4
Honda ACCORD	30.3
Volkswagen GOLF III	29.9
Volkswagen JETTA III	29.3
Nissan G20	29.2
Chrysler SUNDANCE	29.0
Chrysler SHADOW	29.0
GM ACHIEVA	29.0
Hyundai J-1	28.9
GM BERETTA	28.7
Mercedes-Benz C220	28.7
Nissan STANZA ALTIMA	28.6
GM CORSICA	28.5
GM GRAND AM	28.4
Subaru LEGACY	28.3
Mitsubishi GALANT	28.2
Ford TEMPO	28.1
Ford TOPAZ	28.0
GM SKYLARK	27.4
Subaru LEGACY AWD	26.9
Chrysler LEBARON	26.3
Honda VIGOR	25.9
Mercedes-Benz C280	25.6
Volkswagen 90	24.9
Mercedes-Benz E320	24.7
BMW 525i	24.6
Subaru LEGACY AWD TURBO	24.2
Volkswagen JETTA III GLX	24.1
Volkswagen 100	24.0
Honda LEGEND	24.0
Toyota ES300	23.9
Volkswagen PASSAT	23.9
Mitsubishi DIAMANTE	23.8
Volkswagen 100 QUATTRO	23.5
Mercedes-Benz E420	23.4
Volkswagen S4	23.2
Ford Import XJ6	23.2
BMW 530i	22.6
Alfa Romeo 164	21.7
BMW 540i	21.3
Mercedes-Benz E500	19.7
Volkswagen V8	19.0
Mercedes-Benz S500	18.8
Mercedes-Benz S600	16.6
Ford Import XJ12	15.9
Rolls-Royce CONTINENTAL	14.1

1995 COMPACT	MPG
Hyundai ACCENT	36.9
Mazda PROTEGE	35.4
Ford ESCORT	35.1
Chrysler NEON	35.0
Mazda 323	34.7
GM SL	34.6
Ford TRACER	34.2
Toyota COROLLA	34.1
GM Import PRIZM	33.8
Kia KIA SEPHIA	32.3
Volkswagen Golf III	31.5
Volkswagen Jetta III	30.8
Ford Import ESCORT	30.6
Ford Import CONTOUR/MYST	30.6
Nissan G20	30.1
Subaru LEGACY	30.1
Ford Import TRACER	30.1
GM CAVALIER	29.6
GM SUNFIRE	29.5
Honda ACCORD	29.4
Mercedes-Benz C220	29.3
Hyundai ELANTRA	28.9
BMW 318Ti	28.8
Nissan STANZA ALTIMA	28.7
Subaru LEGACY AWD	28.6
GM BERETTA	28.5
Mitsubishi GALANT	28.0
GM GRAND AM/CORISCA	27.9
GM ACHIEVA	27.8
GM SKYLARK	27.5
Chrysler Import AVENGER	27.4
Chrysler Import SEBRING	27.1
Toyota ES300	27.0
Mazda MILLENIA	26.1
Honda 2.5TL	25.7
Mercedes-Benz C280	25.6
Volkswagen 90	25.4
Mercedes-Benz E320	25.1
Volkswagen 90 QUATTRO	25.0
BMW 525i	24.6
Volkswagen GTI VR6	24.6
Volkswagen Jetta III GLX	24.2
Volkswagen A6	24.2
Honda LEGEND	24.0
Mitsubishi DIAMANTE	24.0
Volvo 960	23.5
Volkswagen A6 QUATTRO	23.5
Mercedes-Benz E420	23.3
Volkswagen S6	23.1
Ford Import JAGUAR XJ6	23.0
Mercedes-Benz C36	22.9
BMW 540i	22.8
BMW 530i	22.7
Ferrari ALFA ROMEO 164	21.3
Ford Import JAGUAR XJR	19.7
Mercedes-Benz S500	19.4
Mercedes-Benz S600	16.5
Ford Import JAGUAR XJ12	15.4
Rolls-Royce BENTLEY CONTINE	14.1

1996 COMPACT	MPG
Mazda PROTEGE	36.1
Hyundai ACCENT	36.0
GM SL	34.6
Toyota COROLLA	34.5
Ford ESCORT	34.4
GM Import PRIZM	34.0
Hyundai ACCENT(SPORTY)	33.9
Chrysler NEON	33.5
Ford TRACER	33.1
GM CAVALIER	32.1
GM SUNFIRE	31.4
Subaru LEGACY	31.1
Hyundai ELANTRA(SEDAN)	30.8
Ford Import ESCORT	30.6
Ford Import CONTOUR	30.6
Ford Import MYSTIQUE	30.5
BMW 318Ti	30.3
Ford Import TRACER	30.1
Mercedes-Benz C220	30.0
GM BERETTA	29.9
Honda ACCORD	29.8
GM ACHIEVA	29.7
Kia KIA SEPHIA	29.6
Nissan G20	29.4
GM CORSICA	29.3
GM GRAND AM	29.1
GM SKYLARK	28.8
Volkswagen JETTA	28.7
Volkswagen GOLF/GTI	28.5
Nissan STANZA ALTIMA	28.4
Chrysler AVENGER	28.4
Ford CONTOUR	28.4
Ford MYSTIQUE	28.4
Subaru LEGACY AWD	28.3
Mitsubishi GALANT	28.1
Chrysler SEBRING	27.9
Toyota ES300	27.4
Chrysler Import AVENGER	26.2
Chrysler Import SEBRING	26.2
Mazda MILLENIA	26.0
Mercedes-Benz E320	25.4
Mercedes-Benz C280	25.3
Volkswagen A4	25.2
Volkswagen A6	25.1
Volkswagen GTI VR6	25.1
Volkswagen A4 QUATTRO	24.7
Volkswagen JETTA GLX	24.6
Honda 2.5TL/3.2TL	24.6
Volkswagen A6 QUATTRO	24.1
Volvo 960	24.1
Mitsubishi DIAMANTE	23.7
Ford Import JAGUAR XJ6	22.9
Mercedes-Benz C36 AMG	22.9
Mercedes-Benz S500 COUPE	20.7
Ford Import JAGUAR XJR	19.7
Mercedes-Benz S600 COUPE	18.2
Ford Import JAGUAR XJ12	15.4
Rolls-Royce BENTLEY CONT	15.1

APPENDIX B (Continued)

1994, 1995 and 1996 Nameplate MPG Listing

1994 MID-SIZE SEDAN	MPG
Mazda 626	29.2
Chrysler ACCLAIM	27.7
Chrysler SPIRIT	27.7
GM CENTURY	26.9
Ford TAURUS	26.7
Toyota CAMRY	26.5
GM CUTLASS CIERA	26.5
Volvo 850	26.3
Ford SABLE	26.2
GM LUMINA	25.9
GM GRAND PRIX	25.9
GM CUTLASS SUPREME	25.8
GM REGAL	25.7
GM Import SAAB 900	25.4
Nissan MAXIMA	25.2
Volvo 940	25.1
Hyundai Y-2	24.9
Mazda 929	24.4
Ford COUGAR	24.3
Ford Import TAURUS	24.2
Ford THUNDERBIRD	24.1
Ford MARK VIII	23.9
Volvo 960	23.2
Toyota LS400	23.1
Toyota GS300	22.8
Nissan Q45	22.2
GM ELDORADO	21.7
GM SEVILLE	21.7
BMW 740i	21.3
BMW 740iL	21.3
Nissan Q45 FULL-ACTIVE	19.8
BMW 750iL	16.9
Rolls-Royce TURBO	14.1
Rolls-Royce BROOKLANDS	14.0
Rolls-Royce SPIRIT III	14.0

1995 MID-SIZE SEDAN	MPG
Mazda 626	29.8
Chrysler SPIRIT	28.1
Chrysler ACCLAIM	28.0
Toyota CAMRY	27.8
Chrysler STRATUS	27.6
GM Import SAAB 900	27.5
Nissan MAXIMA	27.4
Chrysler CIRRUS	27.1
Volvo 850	26.7
Ford TAURUS	26.7
Ford SABLE	26.6
Ford TAURUS FFV	26.4
GM REGAL	26.1
GM CENTURY	25.8
GM CUTLASS CIERA	25.8
GM RIVIERA	25.8
Hyundai SONATA	25.7
GM CUTLASS SUPREME	25.6
GM GRAND PRIX	25.6
Volvo 940	25.1
GM LUMINA/MONTE CARLO	25.1
Toyota LS400	25.1
Volkswagen PASSAT	25.0
Mazda 929	24.4
Ford Import TAURUS	24.2
Ford COUGAR	23.9
Ford THUNDERBIRD	23.7
Ford MARK VIII	23.7
Toyota GS300	23.0
GM ELDORADO	22.6
GM AURORA	22.5
BMW 740i	22.1
BMW 740iL	22.1
Nissan Q45	22.0
Nissan Q45 FULL-ACTIVE	19.9
BMW 750iL	19.3
Rolls-Royce ROLLS-ROYCE FLY	14.5
Rolls-Royce TURBO R/RL BKLD	14.1
Rolls-Royce BENTLEY	14.0
Rolls-Royce SPIRIT III	14.0

1996 MID-SIZE SEDAN	MPG
Chrysler BREEZE	32.4
Mazda 626	29.5
Chrysler STRATUS	27.9
Nissan MAXIMA	27.5
Chrysler CIRRUS	27.4
Chrysler SEBRING CONVERT	27.4
Toyota CAMRY	27.2
GM Import SAAB 900	27.2
Nissan I30	27.1
Ford SABLE	26.9
Ford TAURUS	26.8
GM CENTURY	26.8
GM CIERA SL	26.8
GM REGAL	26.8
Chrysler Import SEBRING CON	26.6
Chrysler Import CIRRUS	26.6
Volvo 850	26.5
GM EIGHTY EIGHT	26.4
GM CUTLASS SUPREME	26.4
GM GRAND PRIX	26.2
Chrysler Import STRATUS	26.2
GM LUMINA/MONTE CARLO	25.9
Hyundai SONATA	25.7
Volkswagen PASSAT	25.6
Toyota LS400	25.5
GM RIVIERA	25.1
Honda 3.5RL	24.5
Ford COUGAR	24.1
Ford MARK VIII	24.1
Ford THUNDERBIRD	24.0
GM AURORA	23.7
Toyota GS300	23.5
GM ELDORADO	23.4
Ford Import TAURUS	23.1
Ford Import JAGUAR VANDEN	22.5
Nissan Q45	22.3
Rolls-Royce BENTLEY	15.9
Rolls-Royce SILVER SPUR	15.9
Rolls-Royce BENTLEY TURBO	15.1

1994 MID-SIZE WAGON	MPG
Ford TAURUS	26.5
GM CENTURY	26.4
Mitsubishi EXPO	26.1
Volvo 850	26.1
Ford SABLE	26.1
GM CUTLASS CRUISER	26.1
Toyota CAMRY	25.6
Volvo 940	25.0
Mercedes-Benz E320	24.7
Volkswagen PASSAT	23.9
Mitsubishi DIAMANTE	23.8
Volvo 960	23.3

1995 MID-SIZE WAGON	MPG
Subaru LEGACY	30.1
Subaru LEGACY AWD	28.0
Toyota CAMRY	27.5
Volvo 850	26.5
Ford TAURUS	26.2
Mitsubishi EXPO	26.1
GM CENTURY	25.8
GM CUTLASS CRUISER	25.8
Ford SABLE	25.8
Mercedes-Benz E320	25.1
Volvo 940	25.1
Volkswagen PASSAT	23.9

1996 MID-SIZE WAGON	MPG
Subaru LEGACY	31.0
Subaru LEGACY AWD	28.1
Chrysler Import SUMMIT	27.4
Toyota CAMRY	26.9
GM CENTURY	26.8
GM CIERA SL	26.8
Volvo 850	26.3
Mitsubishi EXPO	26.1
Ford TAURUS	25.6
Ford SABLE	25.6
Volkswagen PASSAT	24.4

APPENDIX B (Continued)

1994, 1995 and 1996 Nameplate MPG Listing

1994 LARGE SEDAN	MPG
GM EIGHTY EIGHT	25.6
GM LESABRE	25.6
GM BONNEVILLE	25.5
GM NINETY EIGHT	25.4
GM PARK AVENUE	25.1
GM Import SAAB 9000	25.1
Chrysler INTREPID	24.5
Chrysler CONCORDE	24.3
Chrysler VISION	24.2
GM CAPRICE	23.7
Ford GRAND MARQUIS	23.7
Ford LTD CROWN VICTORIA	23.7
Ford CONTINENTAL	23.6
Ford TOWN CAR	23.5
Chrysler NEW YORKER/LHS	23.5
GM ROADMASTER	22.9
Mercedes-Benz S320	22.6
GM FLEETWOOD	22.4
GM DEVILLE/CONC'RS	22.2
Mercedes-Benz S420	19.5
Mercedes-Benz S500	18.8
Mercedes-Benz S600	16.1
Rolls-Royce BENTLEY	13.6
Rolls-Royce SPUR III	13.6

1995 LARGE SEDAN	MPG
Mercedes-Benz S350	27.9
Toyota AVALON	27.0
GM EIGHTY EIGHT	26.1
GM LESABRE	26.1
GM NINETY EIGHT	25.8
GM PARK AVENUE	25.8
Chrysler INTREPID	25.6
Chrysler VISION	25.6
GM BONNEVILLE	25.6
GM Import SAAB 9000	25.5
Chrysler CONCORDE	24.8
Chrysler NEW YORKER/LHS	24.0
Ford TOWN CAR	23.5
Ford CROWN VICTORIA	23.5
Ford GRAND MARQUIS	23.5
GM CAPRICE	23.3
Mercedes-Benz S320	23.1
Ford CONTINENTAL	22.8
GM ROADMASTER	22.8
GM FLEETWOOD	22.8
GM SEVILLE	22.6
GM DEVILLE/CONCOURS	22.4
Ford CROWN VICTORIA	22.1
Ford FEDERAL LINCOLN	21.1
Mercedes-Benz S420	20.3
Mercedes-Benz S500	19.4

1996 LARGE SEDAN	MPG
Toyota AVALON	27.4
GM LESABRE	26.8
GM NINETY EIGHT	26.6
GM BONNEVILLE	26.0
GM PARK AVENUE	26.0
GM Import SAAB 9000	25.5
Chrysler INTREPID	24.8
Chrysler CONCORDE	24.6
Chrysler VISION	24.5
Chrysler NEW YORKER/LHS	23.9
GM CAPRICE	23.8
GM SEVILLE	23.4
GM DEVILLE	23.4
Ford CROWN VICTORIA	23.3
Ford TOWN CAR	23.3
Ford GRAND MARQUIS	23.3
GM ROADMASTER	23.2
GM FLEETWOOD	23.2
Mercedes-Benz S320	23.1
Ford CONTINENTAL	22.8
BMW 740iL	22.6
Ford CROWN VICTORIA	22.2
Mercedes-Benz S500	20.7
Mercedes-Benz S420	20.5
BMW 750iL	19.3
Mercedes-Benz S600	18.2

1994 LARGE WAGON	MPG
GM CAPRICE	22.9
GM ROADMASTER	22.9

1995 LARGE WAGON	MPG
GM ROADMASTER	22.8
GM CAPRICE	22.8

1996 LARGE WAGON	MPG
GM FUNERAL COACH	23.2
GM CAPRICE	23.2
GM ROADMASTER	23.2

APPENDIX B (Continued)

1994, 1995 and 1996 Nameplate MPG Listing

1994 SMALL VAN	MPG
Chrysler Import COLT VISTA	28.0
Chrysler Import SUMMIT WAGO	27.3
Mitsubishi EXPO.LRV	26.4
Chrysler CARAVAN C/V 2WD	24.2
Chrysler CARAVAN 2WD	23.9
Chrysler VOYAGER 2WD	23.8
GM LUMINA MV 2WD	23.4
GM TRANS SPORT 2WD	23.1
GM SILHOUETTE 2WD	23.1
Ford AEROSTAR VAN	22.8
Nissan QUEST	22.7
Toyota PREVIA	22.0
Ford AEROSTAR WAGON	21.9
GM SAFARI 2WD(CARGO)	21.9
GM ASTRO 2WD(CARGO)	21.9
Toyota PREVIA ALL-TRAC	21.8
GM ASTRO AWD(CARGO)	21.6
GM SAFARI AWD(CARGO)	21.5
Chrysler VOYAGER 4WD	21.4
Chrysler TOWN & COUNTRY 2W.	21.3
Chrysler CARAVAN 4WD	21.3
GM ASTRO 2WD(PASS)	21.2
GM SAFARI 2WD(PASS)	21.1
Ford AEROSTAR VAN ALL	20.3
Volkswagen EUROVAN	20.1
Ford AEROSTAR WAGON AWD	20.1
Chrysler TOWN & COUNTRY 4WD	20.1
GM ASTRO AWD(PASS)	19.3
GM SAFARI AWD(PASS)	19.2

1995 SMALL VAN	MPG
Mitsubishi EXPO.LRV	27.3
Chrysler Import SUMMIT WAGO	27.1
Honda ODYSSEY	25.8
Chrysler VOYAGER 2WD	25.1
Chrysler CARAVAN 2WD	25.0
Chrysler CARAVAN C/V 2WD	24.7
GM LUMINA MINIVAN 2WD	23.6
Ford WINDSTAR FWD VAN	23.5
Ford AEROSTAR VAN RWD	23.5
GM SILHOUETTE 2WD	23.5
GM TRANS SPORT 2WD	23.5
Ford WINDSTAR FWD WAG	23.0
Ford Import VILLAGER FWD VA	22.9
Ford Import VILLAGER FWD WA	22.9
GM COACHBUILDER WAG	22.8
Toyota PREVIA	22.7
Ford AEROSTAR WAGON R	22.4
Chrysler TOWN & COUNTRY 2WD	22.2
GM ASTRO 2WD (CARGO)	22.1
GM SAFARI 2WD (CARGO)	22.1
Toyota PREVIA ALL-TRAC	22.0
Ford AEROSTAR VAN	22.0
Mazda MPV	21.8
Chrysler VOYAGER 4WD	21.4
Chrysler CARAVAN 4WD	21.3
Chrysler TOWN & COUNTRY 4WD	21.3
GM SAFARI AWD (CARGO)	21.0
GM ASTRO AWD (CARGO)	21.0
GM ASTRO 2WD (PASS)	20.7
GM SAFARI 2WD (PASS)	20.7
Ford AEROSTAR WAGON AWD	19.8
Mazda MPV 4X4	19.4
GM ASTRO AWD (PASS)	19.1
GM SAFARI AWD (PASS)	19.1

1996 SMALL VAN	MPG
Honda OASIS	25.5
Honda ODYSSEY	25.5
Chrysler VOYAGER 2WD	23.7
Ford AEROSTAR VAN RWD	23.6
GM LUMINA MINIVAN 2WD	23.6
GM SILHOUETTE 2WD	23.5
GM TRANS SPORT 2WD	23.5
Chrysler CARAVAN 2WD	23.4
Chrysler TOWN & COUNTRY 2WD	23.1
Ford WINDSTAR FWD VAN	23.0
Ford WINDSTAR FWD WAG	23.0
Nissan QUEST	22.9
Ford Import VILLAGER FWD WA	22.9
Ford Import VILLAGER FWD VA	22.9
Toyota PREVIA	22.6
Ford AEROSTAR WAGON RWD	22.1
GM ASTRO 2WD (CARGO)	22.0
GM SAFARI 2WD (CARGO)	22.0
Mazda MPV	21.6
Toyota PREVIA ALL-TRAC	21.4
Chrysler CARAVAN 4WD	21.1
Chrysler VOYAGER 4WD	21.1
Chrysler TOWN & COUNTRY 4WD	21.1
GM ASTRO AWD (CARGO)	21.0
GM SAFARI AWD (CARGO)	21.0
GM SAFARI 2WD (PASS)	21.0
GM ASTRO 2WD (PASS)	21.0
Ford AEROSTAR WAGON AWD	19.9
GM SAFARI AWD (PASS)	19.8
GM ASTRO AWD (PASS)	19.8
Mazda MPV 4X4	19.2

1994 LARGE VAN	MPG
GM G35 VANDURA 2WD	19.5
GM G10/20 VAN 2WD	18.8
GM G15/25 VDRA 2WD	18.5
GM G30 CHEVY VAN	18.4
Chrysler B150/B250 VAN 2WD.	17.5
Ford E150 ECONOLINE 2	17.4
GM G10/20 SPVN 2WD	17.4
GM G15/25 RALLY 2WD	17.3
Chrysler B150/B250 WAGON	17.3
GM G30 SPORTVN 2WD	16.9
GM G35 RALLY 2WD	16.9
Chrysler B350 VAN 2WD	16.7
Ford E150 CLUB WAGON	16.5
Chrysler B350 WAGON 2WD	16.3
Ford E250 ECONOLINE 2WD	15.8

1995 LARGE VAN	MPG
Chrysler B1500/B2500 VAN	17.5
Ford E150 ECONOLINE 2	17.4
GM G10/20 VAN 2WD	17.1
Chrysler B1500/B2500 WAGO	17.1
Ford E150 CLUB WAGON	16.8
GM G35 VANDURA 2WD	16.8
Chrysler B3500 VAN 2WD	16.6
GM G15/25 VANDURA 2	16.6
GM G30 VAN 2WD	16.3
GM G10/20 SPORTVAN	16.2
GM G15/25 RALLY 2WD	16.0
Ford E250 ECONOLINE 2WD	15.9
GM G30 SPORTVAN 2WD	15.0
GM G35 RALLY 2WD	14.7
Chrysler B3500 WAGON 2WD	14.5

1996 LARGE VAN	MPG
GM G1500/G2500 CHEV	18.1
GM G1500/G2500 SAVA	17.9
GM G1500/G2500 CHEV	17.9
GM G1500/G2500 SAVA	17.8
Chrysler B1500/B2500 VAN	17.3
Ford E150 ECONOLINE 2WD	17.3
Chrysler B3500 VAN 2WD	16.9
Chrysler B1500/B2500 WAG	16.9
Ford E150 CLUB WAGON	16.6
Ford E250 ECONOLINE 2WD	16.1
Chrysler B3500 WAGON 2WD	14.1

APPENDIX B (Continued)

1994, 1995 and 1996 Nameplate MPG Listing

1994 SMALL UTILITY	MPG
Suzuki SAMURAI	33.5
GM Import TRACKR CONV 2WD	28.9
GM Import TRACKR CONV 4WD	28.8
Suzuki SIDEKICK 4WD	28.5
GM Import TRACKER VAN 4WD	28.4
Suzuki SIDEKICK 2WD	28.4
GM S10 BLAZER 2WD	22.6
GM JIMMY 2WD	22.6
GM POSTAL C/C 2WD	22.1
Mazda MPV	21.6
GM S10 BLAZER 4WD	21.4
GM BRAVADA AWD	21.4
GM JIMMY 4WD	21.4
Mazda NAVAJO	21.4
Isuzu AMIGO 4WD	21.1
Isuzu AMIGO 2WD	21.1
Chrysler CHEROKEE 2WD	21.1
Ford EXPLORER 2WD	21.1
Chrysler WRANGLER 4WD	21.0
Honda PASSPORT 2WD	20.4
Isuzu RODEO 2WD	20.4
Isuzu PASSPORT 2WD	20.4
Mazda NAVAJO 4X4	20.3
Ford EXPLORER 4WD	20.2
Honda PASSPORT 4WD	20.1
Isuzu RODEO 4WD	19.8
Isuzu PASSPORT 4WD	19.6
Mazda MPV 4X4	19.5
Chrysler CHEROKEE 4WD	19.3
Nissan PATHFINDER 2WD	19.0
Mitsubishi MONTERO	18.8
Nissan PATHFINDER 4WD	18.5
Toyota 4-RUNNER 2WD	18.2
Toyota 4-RUNNER 4WD	17.8

1995 SMALL UTILITY	MPG
Suzuki SAMURAI	33.5
Suzuki SIDEKICK 2DOOR 4	28.5
Suzuki SIDEKICK 4DOOR 4	28.4
GM Import TRACKER 2WD	28.2
GM Import TRACKER 4WD	28.2
Suzuki SIDEKICK 4DOOR 2	27.9
Suzuki SIDEKICK 2DOOR 2	27.9
Kia KIA SPORTAGE 2WD	24.3
Kia KIA SPORTAGE 4WD	24.1
Nissan QUEST	22.8
GM BLAZER 2WD	22.1
GM JIMMY 2WD	22.1
Toyota 4-RUNNER 2WD	21.4
GM BLAZER 4WD	21.1
GM JIMMY 4WD	21.1
Chrysler WRANGLER 4WD	21.0
Ford EXPLORER 2WD	20.9
Isuzu RODEO 2WD	20.7
Chrysler CHEROKEE 2WD	20.5
Honda PASSPORT 2WD	20.4
Ford EXPLORER 4WD	19.8
Isuzu RODEO 4WD	19.8
Volkswagen EUROVAN	19.6
Chrysler CHEROKEE 4WD	19.4
Honda PASSPORT 4WD	19.4
Nissan PATHFINDER 2WD	19.3
Nissan PATHFINDER VAN	19.2
Isuzu TROOPER	18.9
Mitsubishi MONTERO	18.8
Nissan PATHFINDER 4WD	18.7
Toyota 4-RUNNER 4WD	17.6

1996 SMALL UTILITY	MPG
Toyota RAV4 2WD	30.8
Suzuki X-90 2WD	30.5
Suzuki X-90 4WD	29.9
Toyota RAV4 4WD	28.4
Suzuki SIDEKICK 2DOOR 4	27.9
GM Import TRACKER	27.5
Suzuki SIDEKICK 4DOOR 4	27.5
GM Import TRACKER 4	27.2
Suzuki SIDEKICK SPORT 4WD	27.1
Kia KIA SPORTAGE 2WD	24.9
Toyota 4-RUNNER 2WD	23.4
Kia KIA SPORTAGE 4WD	23.1
GM BLAZER 2WD	22.0
GM JIMMY 2WD	22.0
GM JIMMY 4WD	21.5
Toyota 4-RUNNER 4WD	21.4
Chrysler CHEROKEE 2WD	21.1
GM BLAZER 4WD	21.1
GM BLAZER AWD	21.0
GM JIMMY AWD	21.0
GM BRAVADA AWD	21.0
Ford EXPLORER 2WD	20.9
Nissan PATHFINDER 2WD	20.6
Isuzu RODEO 2WD	20.3
Chrysler CHEROKEE 4WD	19.9
Honda PASSPORT 2WD	19.9
Ford EXPLORER 4WD	19.8
Volkswagen EUROVAN CAMPER	19.6
Isuzu RODEO 4WD	19.5
Honda PASSPORT 4WD	19.4
Mitsubishi MONTERO	19.0
Isuzu TROOPER	18.6
Isuzu SLX	18.4

1994 LARGE UTILITY	MPG
Ford Import VILLAGER FWD VA	22.9
Ford Import VILLAGER FWD WA	22.9
Chrysler GRAND CHEROKEE 2WD	20.7
Isuzu TROOPER	19.0
Chrysler GRAND CHEROKEE 4WD	17.9
Ford BRONCO 4WD	17.0
GM C1500 SUB'N 2WD	16.9
Rover DEFENDER 90	16.8
GM K1500 BLAZR 4WD	16.6
GM K1500 YUKON 4WD	16.6
Rover COUNTY	16.3
Rover DISCOVERY	16.2
Rover COUNTY LWB	16.2
GM K1500 SUB'N 4WD	16.1
Toyota LAND CRUISER WGN	15.6

1995 LARGE UTILITY	MPG
Chrysler GRAND CHEROKEE 2WD	20.3
Chrysler GRAND CHEROKEE 4WD	18.7
Rover LAND ROVER	17.1
Ford BRONCO 4WD	17.1
GM C1500 SUBURBAN 2WD	17.0
Toyota LAND CRUISER	16.7
Rover LAND ROVER DISCO	16.3
Rover RANGE ROVER	16.2
Rover RANGE ROVER COUN	15.9
GM C1500 TAHOE 2WD	15.8
GM C1500 YUKON 2WD	15.8
GM K1500 SUBURBAN 4WD	15.5
GM K1500 YUKON 4WD	15.1
GM K1500 TAHOE 4WD	15.1

1996 LARGE UTILITY	MPG
Chrysler GRAND CHEROKEE 2WD	20.4
Nissan PATHFINDER 4WD	19.5
Chrysler GRAND CHEROKEE 4W	18.9
GM C1500 SUBURBAN 2WD	17.8
GM C1500 YUKON 2WD	17.6
GM C1500 TAHOE 2WD	17.6
Rover LAND ROVER DISCO	17.5
GM K1500 YUKON 4WD	17.4
GM K1500 TAHOE 4WD	17.4
Toyota LX450	16.7
Toyota LAND CRUISER WAG	16.7
Rover RANGE ROVER 4.0	16.7
GM K1500 SUBURBAN 4WD	16.5
Ford BRONCO 4WD	16.3
Rover RANGE ROVER 4.6	15.9

APPENDIX B (Continued)

1994, 1995 and 1996 Nameplate MPG Listing

1994 SMALL PICKUP	MPG
Nissan TRUCK 2WD	27.9
Isuzu PICKUP 2WD	26.6
GM S10 PICKUP 2WD	25.6
GM SONOMA P.U 2WD	25.5
Mitsubishi TRUCK 2WD	25.5

1995 SMALL PICKUP	MPG
Toyota TOYOTA TACOMA 2W	27.3
Isuzu PICKUP 2WD	27.2
Nissan TRUCK 2WD	27.1
GM S10 PICKUP 2WD	26.9
GM SONOMA 2WD	26.7
Mitsubishi TRUCK 2WD	25.6
Mitsubishi TRUCK 4WD	22.1

1996 SMALL PICKUP	MPG
Isuzu HOMBRE PICKUP 2WD	29.9
Toyota TOYOTA TACOMA 2WD	28.0
GM SONOMA 2WD	27.0
GM S10 PICKUP 2WD	26.8
Nissan TRUCK 2WD	26.3
Mitsubishi TRUCK 2WD	25.9

1994 LARGE PICKUP	MPG
Toyota TRUCK 2WD	27.7
Ford RANGER PICKUP 2W	25.8
Mazda B2000, B3000	25.5
Mitsubishi TRUCK 4WD	22.4
GM SONOMA P/U 4WD	22.1
GM S10 PICKUP 4WD	22.0
Toyota TOYOTA T100 2WD	21.6
Toyota TRUCK 4WD	21.5
Ford RANGER PICKUP 4W	21.3
Mazda B2000, B3000	21.3
Nissan TRUCK 4WD	21.2
Chrysler DAKOTA PICKUP 2W	20.7
Isuzu PICKUP 4WD	20.1
GM C1500 SIERRA 2WD	19.7
GM C1500 P/U 2WD	19.6
Ford F150 PICKUP 2WD	19.2
Chrysler DAKOTA PICKUP 4W	18.7
Toyota TOYOTA T100 4WD	18.5
GM C2500 P/U 2WD	18.4
GM C2500 SIERRA 2WD	18.4
Chrysler DAKOTA CAB CHASS	18.2
Ford F150 PICKUP 4WD	17.6
Ford F250 PICKUP 2WD	17.6
Chrysler RAM 1500 2WD	17.2
GM K1500 SIERRA 4WD	17.1
GM K1500 P/U 4WD	17.1
GM K2500 P/U 4WD	16.9
GM K2500 SIERRA 4WD	16.7
Chrysler RAM 2500 2WD	16.4
Chrysler RAM 1500 4WD	15.8
Chrysler RAM 2500 4WD	15.3

1995 LARGE PICKUP	MPG
Toyota TRUCK 2WD	28.4
Ford RANGER PICKUP 2W	26.6
Mazda B2300/B3000/B4000	25.4
Mazda B2300/B3000/B4000	23.5
Toyota TOYOTA T100 2WD	23.3
Ford RANGER PICKUP 4WD	22.4
Toyota TOYOTA TACOMA 4WD	21.9
Chrysler DAKOTA PICKUP 2WD	21.8
GM S10 PICKUP 4WD	21.6
GM SONOMA 4WD	21.6
Toyota TRUCK 4WD	21.5
Isuzu PICKUP 4WD	21.3
Nissan TRUCK 4WD	20.5
Toyota TOYOTA T100 4WD	20.1
Ford F350 2WD	19.7
GM C1500 PICKUP 2WD	19.1
GM C1500 SIERRA 2WD	18.9
Chrysler DAKOTA CAB CHASS	18.7
Ford F150 PICKUP 2WD	18.6
Chrysler DAKOTA PICKUP 4W	18.4
GM C2500 SIERRA 2WD	18.3
Ford F150 PICKUP 4WD	17.9
Ford F250 PICKUP 2WD	17.6
Chrysler RAM 1500 PICKUP	17.1
GM C2500 PICKUP 2WD	16.9
GM K1500 PICKUP 4WD	16.4
GM K2500 PICKUP 4WD	16.4
GM K1500 SIERRA 4WD	16.3
Chrysler RAM 2500 PICKUP	16.2
GM K2500 SIERRA 4WD	15.9
Ford LIGHTNING F150 2WD	15.7
Chrysler RAM 1500 PICKUP	15.4
Chrysler RAM 2500 PICKUP	15.0

1996 LARGE PICKUP	MPG
Mazda B2300/B3000/B4000	26.5
Ford RANGER PICKUP 2W	25.1
Mazda B2300/B3000/B4000	23.5
Toyota TOYOTA T100 2WD	22.6
Toyota TOYOTA TACOMA 4W	22.6
Ford RANGER PICKUP 4W	21.8
GM S10 PICKUP 4WD	21.5
GM SONOMA 4WD	21.4
Nissan TRUCK 4WD	21.2
Chrysler DAKOTA PICKUP 2W	20.8
Toyota TOYOTA T100 4WD	20.2
GM C1500 SIERRA 2WD	20.1
GM C1500 PICKUP 2WD	19.8
GM C2500 PICKUP 2WD	19.0
GM C2500 SIERRA 2WD	18.8
Ford F150 PICKUP 2WD	18.3
GM K1500 PICKUP 4WD	18.3
GM K1500 SIERRA 4WD	18.1
Chrysler DAKOTA PICKUP 4W	17.9
Ford F250	17.6
Chrysler RAM 1500 PICKUP	17.3
Ford F150 PICKUP 4WD	17.0
Chrysler RAM 2500 PICKUP	16.6
Chrysler RAM 1500 PICKUP	15.5
Chrysler RAM 2500 PICKUP	14.9

APPENDIX C

The Relative Importance of Light-Truck Fuel Consumption

The sales of vehicles classified as "light trucks" have increased in the past few years as has their share of the combined car and light-truck market. An important attribute of the car and light-truck fleet is the amount of fuel it consumes, so it is of interest to investigate trends in the share of that overall fuel consumption attributable to light trucks.

The fraction of the total car and light-truck fuel consumption attributable to light trucks can be expressed as:

$$FC_t = \frac{1}{1 + \frac{\left(\frac{1-f_t}{f_t}\right) M_c/M_t}{MPG_c/MPG_t}} \qquad \text{(C-1)}$$

Where:

FC_t = the fraction of car and light-truck fuel consumption attributable to light trucks,

f_t = the fraction of the total car and light-truck fleet that is light trucks,

M_c = the miles driven by cars (miles)

M_t = the miles driven by light trucks (miles)

MPG_c = the fuel economy in miles per gallon of cars, and

MPG_t = the fuel economy in miles per gallon for trucks.

FC_t is seen to be a function of the relative share of trucks in the market, their relative mileage, and their relative use. In general, all of these parameters are different from unity.

The database developed for this series of trend reports incorporates the data that would allow the calculation of the MPG ratio and the f_t parameters that appear in the equation for FC_t. The data needed to calculate the travel ratio (M_c/M_t) is not in the database. However, an estimate for this ratio can be obtained. For the purposes of emission regulations, EPA considers the useful life of cars to be 100,000 miles, and for trucks, 120,000 miles.

The ratio (1/1.2) = 0.833 is used in the discussion that follows. If other car/light-truck travel ratios are of interest, those values can be used in the general equation for FC_t.

With M_c/M_t = 0.833:

$$FC_t = \frac{1}{1 + \frac{\left(\frac{1-f_t}{f_t}\right) 0.833}{MPG_c/MPG_t}} \qquad \text{(C-2)}$$

Equation (2) is shown on Figure A-1, plotted for values of MPG_c/MPG_t of 2.0, 1.5, and 1.0, which bound the historic values for this parameter.

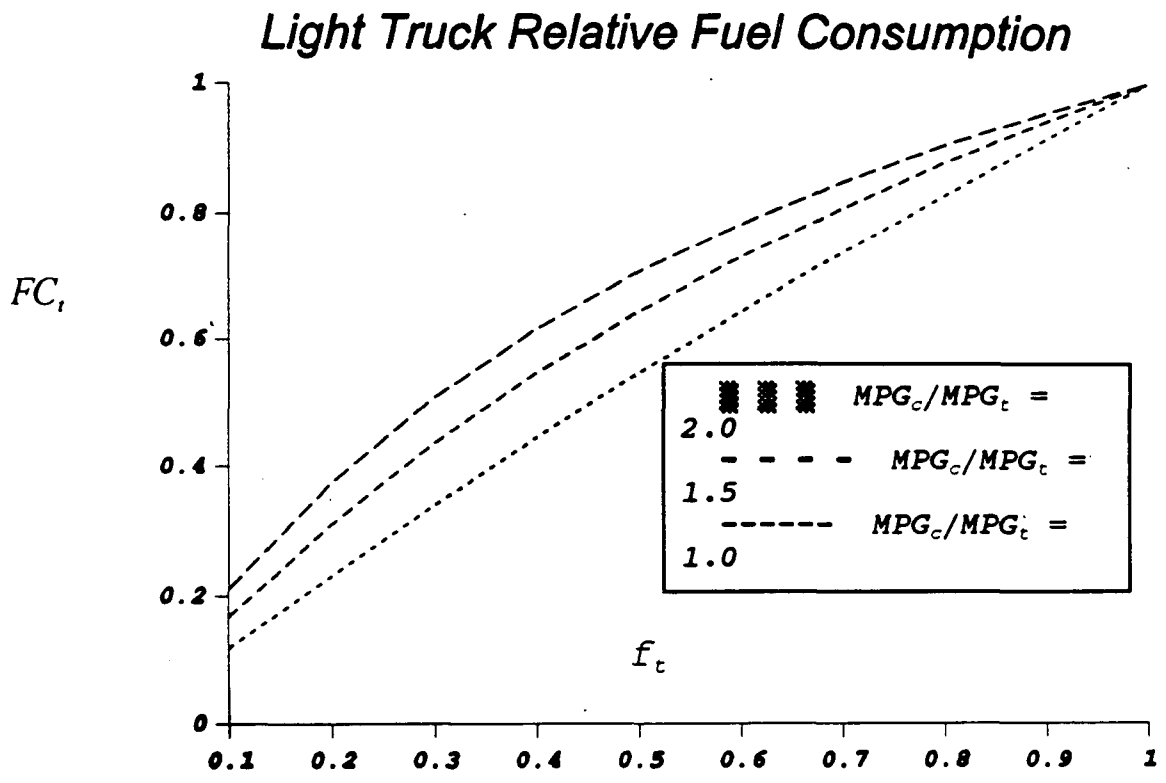

Figure C-1: The fraction of total car and light truck fuel consumption attributable to light trucks.

All of the curves in Figure C-1 lie above the line $FC_t = f_t$ because light trucks have lower fuel economy than cars do, and they drive 20 percent more miles.

APPENDIX D

TABLE D-1: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY NUMBER OF CYLINDERS — THREE-CYLINDER CARS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1985	37	.003	51.9	66.1	57.4	1750	82.6	61	48	16.1	95.8	.787	.0274	50.4	4756	4161
1986	81	.007	50.8	63.7	55.9	1750	84.6	61	46	16.3	94.8	.759	.0264	49.8	4809	4208
1987	78	.007	46.0	58.1	50.8	1878	84.8	63	51	16.2	96.0	.810	.0271	48.1	4369	4074
1988	103	.010	42.8	54.1	47.2	1866	86.6	65	54	15.4	97.6	.824	.0286	44.8	4168	3871
1989	85	.008	43.4	53.8	47.5	1975	90.9	64	55	15.9	97.0	.843	.0276	47.6	4446	4331
1990	46	.005	44.3	55.2	48.7	2021	87.9	63	54	16.2	96.4	.854	.0269	50.3	4437	4440
1991	111	.013	43.6	55.3	48.2	2008	85.5	62	56	15.6	97.5	.907	.0280	49.2	4232	4232
1992	111	.014	43.8	55.9	48.6	1984	87.6	61	55	15.8	97.2	.902	.0278	48.9	4344	4296
1993	88	.010	46.3	58.5	51.1	1979	88.6	61	56	15.5	97.6	.906	.0282	51.4	4638	4569
1994	99	.012	45.2	57.3	50.0	1981	91.7	61	55	15.7	97.4	.904	.0280	50.4	4675	4616
1995	58	.006	43.4	55.3	48.1	2000	92.0	61	55	15.9	97.0	.902	.0275	48.8	4486	4486
1996	25	.003	48.9	63.3	54.5	2000	92.0	61	55	15.7	97.0	.902	.0275	54.5	5016	5016

PERCENT OF THREE CYLINDER CARS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1985	100.0		90.1					100.0		100.0					100.0
1986	100.0		64.7					100.0		100.0					100.0
1987	100.0		73.5		8.6		8.6	91.4		100.0					100.0
1988	89.0	11.0	76.5		14.7	1.5	13.2	85.3		100.0					100.0
1989	100.0		64.3		70.5	57.5	13.0	29.5		100.0					100.0
1990	89.0	11.0	77.7		94.3	70.1	24.2	5.7		100.0					100.0
1991	94.5	5.5	61.0		97.5	89.7	7.8	2.5		100.0					100.0
1992	99.6	.4	50.1		99.3	97.4	1.9	.7		100.0					100.0
1993	97.7	2.3	69.2		100.0	95.4	4.6			100.0					100.0
1994	100.0		54.6		100.0	97.6	2.4			100.0					100.0
1995	100.0		50.0		100.0		100.0			100.0					100.0
1996	100.0		100.0		100.0		100.0			100.0					100.0

APPENDIX D

TABLE D-2: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY NUMBER OF CYLINDERS — FOUR-CYLINDER CARS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	1805	.219	20.8	30.6	24.3	2651		112	79	15.1	102.1	.716	.0298	32.4		
1976	2017	.207	22.8	33.1	26.5	2613		111	77	15.2	101.7	.706	.0296	34.8		
1977	2287	.202	24.8	35.3	28.7	2523	86.8	106	78	14.6	102.8	.742	.0308	36.6	2556	3191
1978	2926	.262	24.7	34.3	28.3	2511	88.9	108	77	14.7	102.7	.727	.0308	36.0	2580	3208
1979	3157	.292	23.6	33.0	27.1	2564	90.1	110	77	14.9	102.0	.707	.0300	35.0	2491	3165
1980	4511	.478	24.4	34.3	28.1	2573	93.0	116	78	14.8	102.4	.681	.0303	36.4	2662	3394
1981	4469	.512	26.0	36.2	29.8	2555	97.7	115	79	14.6	102.9	.693	.0308	38.4	2953	3747
1982	4251	.544	26.7	38.2	30.9	2595	97.8	114	78	14.9	102.1	.686	.0300	40.3	3061	3951
1983	4158	.520	27.1	38.2	31.2	2622	101.2	118	81	14.7	103.1	.694	.0307	41.3	3213	4174
1984	5744	.538	27.1	38.7	31.4	2655	100.3	119	85	14.3	104.7	.718	.0320	42.0	3192	4208
1985	5865	.543	27.3	38.9	31.5	2671	101.7	120	90	13.9	106.7	.752	.0336	42.4	3251	4317
1986	6462	.587	27.1	38.6	31.3	2719	102.5	121	91	13.9	106.5	.753	.0332	42.8	3244	4389
1987	6679	.622	26.9	38.4	31.1	2732	102.1	121	92	13.8	107.0	.772	.0336	42.8	3207	4365
1988	6333	.590	27.5	39.0	31.7	2739	101.8	118	95	13.6	107.9	.805	.0343	43.7	3268	4448
1989	5671	.566	26.9	38.6	31.1	2794	101.5	120	100	13.1	109.7	.840	.0357	43.7	3196	4434
1990	4925	.559	26.4	38.1	30.7	2857	100.8	122	108	12.6	112.4	.901	.0378	44.0	3120	4437
1991	4843	.568	26.5	38.5	30.8	2846	100.9	120	108	12.5	112.7	.913	.0380	44.1	3150	4457
1992	3946	.487	26.5	38.9	30.9	2885	100.7	120	112	12.3	113.8	.947	.0388	44.8	3153	4518
1993	4267	.505	27.0	39.9	31.6	2866	101.9	119	110	12.4	113.0	.930	.0383	45.5	3257	4639
1994	4179	.497	26.9	40.2	31.6	2901	102.0	120	113	12.3	114.1	.955	.0390	46.0	3257	4699
1995	4396	.472	27.5	41.4	32.4	2883	102.5	118	121	11.7	117.2	1.025	.0417	47.0	3365	4815
1996	4309	.497	27.3	41.4	32.2	2916	101.6	120	121	11.7	117.2	1.015	.0415	47.2	3313	4789

PERCENT OF FOUR CYLINDER CARS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1975	25.2		68.9		14.4		14.4	84.8	.8	98.7	1.3		29.5	32.1	38.4
1976	22.0		63.9		6.7		6.7	92.7	.6	99.4	.6		36.3	22.1	41.5
1977	28.3		69.5		11.9		11.9	86.3	1.8	99.3	.7		19.9	24.1	56.0
1978	31.8		67.4		10.4		10.4	87.8	1.7	97.6	2.4		31.1	20.9	48.0
1979	33.5	1.2	65.9		7.0		7.0	90.9	2.1	95.8	4.2		42.0	16.0	42.0
1980	44.8	1.0	60.3		9.1		9.1	87.3	3.6	89.5	10.5		45.5	14.9	39.6
1981	60.6	.9	55.2	1.7	7.5		7.5	88.5	4.0	82.7	17.3		50.9	9.5	39.7
1982	72.1	.9	49.5	21.4	18.7	11.2	7.5	78.7	2.6	83.8	16.2		54.1	8.7	37.2
1983	76.2	5.1	46.8	26.2	32.7	21.0	11.7	66.3	1.0	79.3	20.7		53.5	7.2	39.3
1984	81.3	1.4	40.0	30.4	43.7	28.3	15.4	54.7	1.6	85.0	15.0		63.4	7.2	29.4
1985	84.0	3.7	38.1	31.8	52.3	33.6	18.7	46.9	.8	81.6	18.4		58.5	7.4	34.1
1986	89.5	1.5	36.5	37.0	63.3	38.9	24.4	36.3	.4	79.3	20.6	.2	55.3	7.3	37.5
1987	92.0	1.5	34.4	43.0	68.1	43.2	24.9	31.8	.1	81.3	18.5	.2	49.6	7.0	43.3
1988	94.1	1.0	35.2	50.3	78.5	45.9	32.7	21.5		87.2	12.6	.2	45.0	6.6	48.4
1989	93.2	1.5	31.8	53.5	84.9	41.3	43.7	15.0	.1	86.3	13.5	.2	44.2	5.3	50.5
1990	93.2	1.5	30.6	57.9	98.2	35.3	62.9	1.7		88.9	11.0	.1	36.0	5.1	58.8
1991	92.5	2.1	31.2	60.9	99.9	31.0	68.9		.1	90.8	9.0	.2	36.9	4.6	58.5
1992	88.5	1.2	30.1	61.4	100.0	13.4	86.6			89.1	10.7	.2	34.4	4.2	61.4
1993	94.1	2.0	29.3	62.9	100.0	11.9	88.1			89.4	10.4	.2	40.9	2.5	56.6
1994	96.7	1.1	25.9	67.3	100.0	7.7	92.3			89.1	10.8	.1	29.8	3.0	67.2
1995	87.7	3.8	28.8	68.2	100.0	2.9	97.1			88.8	11.1	.1	34.8	7.7	57.4
1996	96.9	1.8	26.6	71.3	100.0		100.0			86.6	13.3	.1	38.3	6.8	54.9

APPENDIX D

TABLE D-3: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY NUMBER OF CYLINDERS — FIVE-CYLINDER CARS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	5	.001	23.9	31.4	26.8	3500		183	77	19.3	95.4	.421	.0220	46.8		
1976	12	.001	22.2	27.8	24.4	4000		183	77	21.4	93.0	.421	.0192	48.8		
1977	12	.001	23.0	27.7	24.9	4000	105.0	183	77	21.4	93.0	.421	.0192	49.8	2613	5227
1978	39	.003	18.4	25.1	20.9	3411	103.6	152	102	15.1	105.7	.690	.0306	37.0	2202	3821
1979	43	.004	20.5	26.5	22.8	3596	106.0	162	100	16.1	103.5	.636	.0284	42.3	2462	4499
1980	66	.007	20.8	29.0	23.8	3357	105.3	152	92	16.3	102.4	.630	.0281	41.6	2593	4399
1981	59	.007	22.4	30.5	25.4	3358	105.3	155	98	15.6	104.4	.650	.0297	44.0	2739	4671
1982	58	.007	23.9	31.7	26.9	3601	105.8	163	114	14.3	108.1	.705	.0319	49.9	2896	5300
1983	64	.008	24.5	32.2	27.4	3660	106.1	165	114	14.5	107.6	.696	.0313	51.4	2949	5462
1984	116	.011	21.5	29.9	24.6	3326	110.3	148	109	13.9	108.5	.748	.0330	42.1	2742	4619
1985	99	.009	21.0	29.2	24.0	3360	110.2	151	117	13.3	111.3	.788	.0352	41.1	2661	4509
1986	71	.006	20.0	29.2	23.3	3035	111.0	136	116	12.3	113.9	.854	.0383	35.6	2595	3949
1987	44	.004	20.5	29.8	23.9	3095	110.7	139	127	11.7	117.4	.914	.0409	37.4	2661	4132
1988	18	.002	20.7	30.7	24.3	3047	104.6	140	129	11.4	118.6	.920	.0422	37.3	2552	3894
1989	15	.002	20.5	29.6	23.8	3415	108.5	140	135	12.0	117.4	.969	.0398	40.7	2585	4430
1990	18	.002	20.6	29.8	23.9	3407	105.1	141	138	11.8	118.4	.980	.0406	41.1	2536	4331
1991	15	.002	20.8	31.5	24.5	3460	106.7	142	141	11.9	118.9	1.002	.0407	43.2	2665	4626
1992	27	.003	22.3	33.1	26.1	3497	100.9	150	170	10.3	129.0	1.135	.0486	46.0	2656	4645
1993	41	.005	22.7	35.4	27.1	3509	108.2	149	169	10.3	128.4	1.133	.0481	47.6	2938	5152
1994	54	.006	21.8	34.3	26.1	3504	114.7	147	184	9.7	133.8	1.252	.0524	45.8	2998	5252
1995	59	.006	22.0	35.5	26.5	3511	118.4	146	185	9.6	134.4	1.270	.0528	46.6	3145	5518
1996	66	.008	21.9	35.1	26.4	3500	117.7	147	184	9.6	134.1	1.257	.0526	46.2	3108	5438

PERCENT OF FIVE CYLINDER CARS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1975									100.0	100.0			100.0		
1976									100.0	100.0			100.0		
1977									100.0	100.0			100.0		
1978	58.9		8.1		58.9		58.9		41.1	100.0			100.0		
1979	40.4		8.9		38.0		38.0		62.0	94.1	5.9		100.0		
1980	56.6		18.5		41.9		41.9		58.1	95.2	4.8		100.0		
1981	51.0		21.5		40.8		40.8		59.2	96.0	4.0		100.0		
1982	37.1		11.0		35.3		35.3		64.7	94.7	5.3		100.0		
1983	32.2	.8	11.7		29.0		29.0		71.0	95.9	4.1		100.0		
1984	65.8	2.6	18.2		68.4		68.4		31.6	47.5	52.5		100.0		
1985	63.1	4.1	15.6		67.3		67.3		32.7	45.3	54.7		100.0		
1986	84.9	12.6	28.4		97.5		97.5		2.5	30.2	69.8		100.0		
1987	70.4	24.0	36.5		94.4		94.4		5.6	36.6	63.4		100.0		
1988	60.5	36.0	56.1		96.5		96.5		3.5	57.4	42.6		100.0		
1989	86.8	10.9	29.2		97.7		97.7		2.3	21.4	78.6		100.0		
1990	74.5	19.0	30.8		93.5		93.5		6.5	39.6	60.4		100.0		
1991	69.0	16.4	24.5	55.2	85.4		85.4		14.6	38.9	61.1		100.0		
1992	88.6	1.1	17.1	72.5	89.7		89.7		10.3	98.9	1.1		13.4	86.6	
1993	93.3	1.8	15.7	79.4	100.0		100.0			32.9	67.1		73.9	26.1	
1994	99.1	.9	9.8	90.2	100.0		100.0			18.6	81.4		81.4	18.6	
1995	97.8	2.2	8.4	91.6	100.0		100.0			3.2	96.8		99.0	1.0	
1996	100.0		5.1	94.9	100.0		100.0			9.9	90.1		90.1	9.9	

TABLE D-4: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY NUMBER OF CYLINDERS — SIX-CYLINDER CARS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	1533	.186	16.2	22.1	18.4	3625		225	105	15.7	105.1	.485	.0295	33.5		
1976	1935	.199	17.1	23.0	19.3	3715		231	100	16.7	102.5	.445	.0273	36.0		
1977	1851	.164	17.3	23.3	19.6	3753	106.6	229	105	16.1	104.1	.471	.0284	36.9	2095	3955
1978	2325	.208	17.7	24.6	20.2	3482	108.6	221	107	14.8	106.7	.495	.0311	35.3	2206	3844
1979	2187	.203	17.9	24.6	20.4	3421	108.8	217	109	14.4	107.6	.508	.0319	34.9	2224	3814
1980	2644	.280	18.8	26.5	21.6	3332	111.0	213	110	13.9	109.0	.530	.0334	36.0	2407	4004
1981	2394	.274	19.6	27.8	22.6	3382	111.6	215	110	14.1	108.5	.522	.0328	38.3	2527	4283
1982	2080	.266	19.7	28.9	23.0	3404	112.9	213	114	13.8	109.8	.548	.0338	39.3	2614	4457
1983	1858	.232	20.3	30.1	23.8	3373	111.0	211	116	13.6	110.7	.565	.0346	40.2	2654	4481
1984	2455	.230	20.5	30.5	24.1	3364	111.3	205	117	13.4	111.2	.586	.0350	40.5	2684	4515
1985	2498	.232	20.3	31.2	24.1	3387	111.8	206	124	12.9	113.5	.617	.0368	40.8	2697	4566
1986	2694	.245	20.8	32.8	24.9	3377	112.0	200	134	12.1	117.3	.683	.0398	42.2	2805	4745
1987	2489	.232	20.8	33.7	25.1	3414	112.9	198	143	11.6	120.1	.733	.0419	42.9	2847	4862
1988	2985	.278	21.4	34.8	25.9	3397	113.6	193	142	11.5	119.9	.744	.0418	44.0	2952	5017
1989	3157	.315	21.2	34.6	25.7	3423	114.8	194	146	11.4	121.3	.762	.0429	44.0	2956	5059
1990	2989	.339	20.9	34.5	25.4	3504	114.0	197	150	11.4	121.9	.773	.0431	44.6	2911	5099
1991	2635	.309	20.9	34.2	25.3	3490	113.6	197	156	11.0	124.1	.796	.0448	44.2	2887	5040
1992	3067	.378	20.8	34.6	25.4	3500	114.3	199	158	10.9	124.8	.810	.0454	44.4	2908	5091
1993	3255	.385	21.3	34.8	25.8	3488	113.9	199	158	10.9	124.9	.805	.0454	45.0	2946	5139
1994	3126	.372	21.1	34.6	25.6	3533	113.2	198	159	10.9	124.7	.812	.0451	45.2	2901	5126
1995	3746	.402	21.4	35.7	26.1	3526	112.7	195	172	10.3	129.3	.891	.0488	46.0	2944	5189
1996	3323	.383	21.5	35.8	26.2	3563	114.1	196	177	10.1	130.9	.912	.0499	46.6	2993	5335

PERCENT OF SIX CYLINDER CARS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1975			19.3		8.3		8.3	91.7		92.4	6.9	.7	89.1	4.2	6.7
1976			15.2		4.7		4.7	95.3		84.0	15.2	.8	93.3	2.7	4.0
1977			11.9		6.7		6.7	93.3		74.8	22.9	2.3	93.1	2.3	4.7
1978			9.1	8.3	5.3		5.3	94.7		54.0	43.9	2.1	94.0	1.5	4.5
1979	.5		9.1	8.2	6.9		6.9	93.1		40.5	57.8	1.7	92.5	1.4	6.1
1980	22.0	1.5	8.2	25.7	4.3		4.3	95.5	.2	29.0	66.6	4.4	95.5	1.2	3.3
1981	14.2	.8	5.4	58.8	6.8		6.8	92.9	.3	23.1	70.5	6.4	92.9	1.2	5.9
1982	19.5	1.1	5.3	89.3	17.8	8.0	9.8	79.6	2.6	25.0	65.1	10.0	88.8	2.3	8.9
1983	22.4	1.7	6.6	90.1	12.3		12.3	85.7	2.0	31.7	64.0	4.3	87.1	3.0	9.9
1984	31.5	.9	6.1	91.9	29.8	8.8	21.0	68.8	1.4	29.9	67.0	3.1	88.3	3.3	8.3
1985	48.6		6.3	92.7	62.7	21.6	41.1	36.7	.6	30.1	56.0	13.9	86.9	3.7	9.3
1986	63.4	.3	6.9	91.1	80.1	15.4	64.7	19.6	.3	35.0	43.6	21.4	86.8	5.3	7.9
1987	73.0	.2	7.9	89.2	96.7	7.9	88.8	2.5	.8	38.1	37.9	24.0	78.4	7.2	14.4
1988	83.8	.2	5.8	92.5	99.9	2.3	97.6	.1		33.1	46.1	20.8	84.0	6.7	9.3
1989	84.1	.3	5.0	93.0	100.0	.2	99.8			19.1	61.2	19.7	84.1	6.1	9.8
1990	86.3	.1	3.9	94.3	100.0	.1	99.8			19.4	61.1	19.5	83.4	4.7	11.9
1991	87.8	.4	4.3	93.6	99.9		99.9		.1	20.4	62.3	17.3	82.7	4.7	12.6
1992	88.6	1.3	3.8	93.1	100.0	.1	99.9			25.6	55.3	19.2	81.5	4.4	14.0
1993	88.2	.3	4.3	93.8	100.0		100.0			24.5	57.5	18.0	81.0	3.8	15.2
1994	86.4	.2	4.3	94.2	100.0		100.0			28.7	46.7	24.6	82.8	3.7	13.5
1995	87.8	.3	4.3	94.2	100.0		100.0			32.3	45.5	22.2	74.9	5.3	19.8
1996	88.1	.2	4.7	93.6	100.0		100.0			25.6	53.1	21.3	76.1	5.2	18.7

TABLE D-5: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY NUMBER OF CYLINDERS — EIGHT-CYLINDER CARS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	4840	.588	11.6	16.6	13.4	4732		376	167	13.4	116.7	.446	.0354	32.0		
1976	5728	.589	13.2	18.5	15.1	4689		368	165	13.4	116.2	.448	.0352	35.6		
1977	7132	.631	14.1	19.7	16.2	4450	119.0	348	158	13.2	116.1	.455	.0356	36.1	1939	4305
1978	5882	.526	14.9	21.4	17.2	4166	119.2	335	154	12.8	117.0	.460	.0371	36.1	2085	4317
1979	5354	.496	15.4	21.4	17.6	4060	120.6	324	149	12.9	116.2	.460	.0368	35.9	2145	4344
1980	2169	.230	16.4	24.0	19.1	3920	120.6	309	135	13.6	112.8	.439	.0346	37.9	2343	4616
1981	1778	.204	17.1	26.0	20.2	3973	123.0	307	133	14.0	111.8	.440	.0337	40.9	2538	5071
1982	1377	.176	17.0	26.5	20.3	3940	123.4	305	138	13.5	114.0	.457	.0355	40.5	2537	5054
1983	1859	.232	16.8	26.4	20.1	3946	125.0	298	143	12.9	115.2	.482	.0364	39.8	2519	4999
1984	2316	.217	17.0	26.8	20.3	3913	122.3	300	144	12.8	116.0	.483	.0371	39.8	2491	4915
1985	2229	.207	18.1	28.8	21.7	3895	122.8	296	151	12.4	118.3	.509	.0389	42.3	2670	5227
1986	1651	.150	18.6	30.1	22.5	3813	120.2	299	152	12.0	119.7	.511	.0403	42.9	2712	5201
1987	1387	.129	18.4	29.6	22.2	3846	120.2	299	155	12.0	120.5	.520	.0407	42.7	2676	5177
1988	1247	.116	18.7	30.4	22.6	3854	121.5	301	164	11.6	123.3	.544	.0430	43.6	2754	5349
1989	1070	.107	18.7	30.7	22.7	3831	121.5	300	160	11.6	122.4	.535	.0423	43.5	2765	5339
1990	812	.092	18.4	30.4	22.3	3947	121.4	294	173	11.3	125.4	.597	.0441	44.2	2720	5404
1991	905	.106	18.7	31.1	22.8	3947	122.0	298	198	10.0	133.6	.669	.0504	45.0	2788	5540
1992	951	.117	18.8	31.3	22.9	4006	124.1	295	208	9.8	136.3	.714	.0523	46.1	2862	5765
1993	791	.094	18.6	31.5	22.8	4010	123.8	296	215	9.6	138.8	.736	.0542	45.8	2835	5720
1994	933	.111	18.7	31.4	22.9	3989	121.2	292	225	9.2	142.0	.776	.0566	45.7	2783	5588
1995	1046	.112	18.7	31.8	23.0	4009	119.9	290	225	9.2	141.8	.782	.0564	46.1	2761	5563
1996	936	.108	19.0	32.3	23.3	4009	122.3	286	240	8.7	146.5	.844	.0599	46.7	2853	5745

PERCENT OF EIGHT CYLINDER CARS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1975	1.7		1.6		.7		.7	99.3		27.0	37.0	36.0	99.6	.4	
1976	2.0		1.2		1.4		1.4	98.6		29.9	37.4	32.7	99.8	.2	
1977	1.8		1.0		1.1		1.1	98.9		30.6	32.7	36.7	99.8	.2	
1978	2.1		1.2	9.5	1.9		1.9	97.5	.6	14.2	46.8	39.0	99.7	.3	
1979	3.7		1.4	12.9	2.2		2.2	95.3	2.6	13.3	42.8	43.9	99.6	.4	
1980	7.6		.8	40.5	4.4	3.0	1.4	85.8	9.8	9.9	46.4	43.7	99.2	.8	
1981	8.8		1.1	80.4	13.8	13.0	.8	69.5	16.8	8.8	39.9	51.3	99.2	.8	
1982	5.5		3.9	90.8	10.4	9.1	1.3	77.9	11.7	16.7	27.3	55.9	98.7	1.3	
1983	9.6		3.5	95.5	35.4	34.4	1.0	62.4	2.2	12.7	26.6	60.7	99.0	1.0	
1984	9.3		3.2	95.8	37.6	32.5	5.2	61.7	.7	17.7	24.6	57.7	98.9	1.1	
1985	18.2		2.5	96.0	47.4	42.4	5.1	52.5	.1	14.9	26.4	58.8	98.4	1.6	
1986	12.2		4.3	93.2	48.4	12.2	36.2	51.6		19.8	31.7	48.4	97.4	2.6	
1987	14.2		4.4	92.4	55.9	13.9	42.0	44.1		20.8	29.1	50.1	96.7	3.3	
1988	16.4		6.2	91.5	76.2	19.8	56.4	23.8		23.3	17.1	59.6	97.5	2.5	
1989	21.2		7.2	90.3	90.9	36.9	54.0	9.1		22.2	10.6	67.2	97.4	2.6	
1990	28.4		6.7	91.4	96.0	10.1	85.9	4.0		16.4	17.6	66.0	91.1	2.3	6.6
1991	20.5	.1	5.1	92.7	100.0	29.1	70.9			19.5	16.2	64.3	91.3	2.4	6.4
1992	21.9		3.7	94.3	100.0	21.4	78.6			15.1	14.6	70.3	91.0	2.1	6.9
1993	23.2		5.3	92.8	100.0	15.3	84.7			14.2	19.5	66.3	91.5	3.1	5.4
1994	19.3		6.1	92.3	100.0		100.0			18.6	25.7	55.6	91.2	4.3	4.6
1995	23.4		6.3	91.4	100.0		100.0			18.2	26.9	54.9	90.5	5.2	4.3
1996	28.6		6.7	91.6	100.0		100.0			15.2	19.5	65.3	91.9	3.2	5.0

TABLE D-6: CHARACTERISTICS OF 1975 TO 1996 LIGHT-DUTY TRUCKS BY NUMBER OF CYLINDERS 4-CYLINDER TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	221	.112	18.7	27.1	21.7	2856		120	88	14.8	104.5	.740	.0312	31.2
1976	225	.086	20.4	29.6	23.7	2831		117	89	14.7	105.0	.756	.0317	33.7
1977	306	.108	22.9	32.4	26.4	2824		122	90	14.3	105.7	.747	.0323	37.6
1978	342	.105	23.3	31.1	26.2	2849		120	88	14.7	104.2	.730	.0310	37.7
1979	481	.156	20.3	27.9	23.1	2850		123	84	15.0	102.7	.687	.0297	33.6
1980	584	.314	21.5	28.9	24.3	2842		124	86	14.7	103.8	.699	.0306	35.1
1981	522	.287	24.2	32.5	27.3	2861		130	84	15.2	102.6	.648	.0295	39.9
1982	517	.270	24.4	32.3	27.4	2897		132	86	15.1	103.3	.652	.0300	40.4
1983	744	.324	24.1	32.3	27.2	2924		135	87	14.9	103.5	.649	.0301	40.3
1984	1083	.324	23.4	31.3	26.4	3064		135	90	15.1	103.3	.666	.0295	40.8
1985	1253	.342	23.2	30.9	26.1	3157		141	97	14.8	105.4	.691	.0310	41.5
1986	1802	.414	23.2	31.4	26.3	3159		139	97	14.5	105.4	.698	.0309	41.7
1987	1539	.372	23.2	31.6	26.4	3122		139	97	14.5	105.4	.698	.0311	41.3
1988	1247	.274	23.4	31.7	26.6	3123		139	97	14.5	105.4	.698	.0310	41.6
1989	1121	.253	23.0	31.1	26.0	3184		143	104	13.9	107.6	.725	.0327	41.6
1990	770	.202	23.5	31.6	26.5	3155		141	108	13.4	109.7	.767	.0345	42.1
1991	907	.224	23.2	31.2	26.2	3242		143	109	13.7	109.1	.763	.0337	42.6
1992	726	.179	23.1	31.4	26.2	3246		141	110	13.5	109.5	.783	.0341	42.7
1993	693	.146	23.2	31.5	26.3	3240		140	111	13.4	110.0	.793	.0345	42.9
1994	921	.168	23.4	31.9	26.6	3309		139	112	13.5	109.8	.805	.0341	44.2
1995	949	.162	23.2	31.7	26.4	3375		142	121	12.9	112.6	.860	.0361	44.9
1996	738	.125	22.6	31.8	26.0	3482		145	130	12.6	115.0	.904	.0376	45.5

PERCENT OF FOUR CYLINDER TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1975			83.7		.5			99.5		100.0			100.0
1976			81.4		.7			99.3		100.0			100.0
1977			82.3		.7			99.3		100.0			100.0
1978		6.8	88.1		.8			99.2		100.0			100.0
1979		20.5	86.4		1.8			98.2		99.2	.8	2.7	97.3
1980	4.5	22.2	90.0		5.3			92.8	1.9	89.4	10.6	2.7	97.3
1981	6.4	24.5	92.9		3.9			80.6	15.5	90.4	9.6	2.6	97.4
1982	6.2	23.3	88.9	2.1	2.4			82.0	15.6	86.6	13.4	12.9	87.1
1983	4.2	19.2	84.8	1.4	2.0			92.5	5.6	92.0	8.0	34.1	65.9
1984	15.1	21.3	75.9	7.3	7.9			88.8	3.3	79.6	20.4	32.5	67.5
1985	20.7	21.7	65.9	12.1	27.7			71.1	1.2	86.0	14.0	42.2	57.8
1986	14.1	24.7	72.6	10.8	34.8	18.5	16.3	64.4	.8	86.5	13.5	30.7	69.3
1987	10.4	26.4	73.4	12.1	38.9	23.0	15.9	60.8	.2	86.1	13.9	29.7	70.3
1988	7.8	26.8	76.9	12.0	60.4	30.7	29.8	39.6		87.1	12.9	38.6	61.4
1989	16.8	21.7	68.5	13.2	79.2	41.6	37.7	20.8		87.2	12.8	45.0	55.0
1990	10.6	23.8	75.3	20.9	85.2	24.0	61.3	14.8		72.2	27.8	34.8	65.2
1991	5.5	19.0	69.7	28.1	93.1	29.7	63.4	6.9		75.0	25.0	39.2	60.8
1992	12.0	18.8	69.2	28.8	91.4	22.2	69.1	8.6		73.2	26.8	36.3	63.7
1993	8.0	25.0	72.4	25.3	93.5	17.5	75.9	6.5		45.5	54.5	42.8	57.2
1994	5.0	20.2	75.7	18.8	97.8	10.1	87.6	2.2		48.6	51.4	52.1	47.9
1995	7.1	24.7	71.4	26.5	100.0	4.9	95.1			66.2	33.8	46.7	53.3
1996	9.1	25.8	69.1	29.2	100.0		100.0			57.3	42.7	44.8	55.2

TABLE D-7: CHARACTERISTICS OF 1975 TO 1996 LIGHT-DUTY TRUCKS BY NUMBER OF CYLINDERS 5-CYLINDER TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1993	11	.002	18.6	25.1	21.0	4157		150	109	16.6	102.6	.727	.0263	43.7
1994		.000	17.5	24.6	20.1	4260		4150	109	16.8	102.0	.026	.0257	42.8
1995	2	.000	17.3	23.3	19.5	5000		150	109	19.1	98.4	.727	.0218	48.9
1996	2	.000	17.3	23.3	19.5	5000		150	109	19.1	98.4	.727	.0218	48.9

PERCENT OF 5-CYLINDER TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1993	100.0		35.7	64.3	100.0		100.0			100.0			100.0
1994	100.0		48.0	52.0	100.0		100.0			100.0			100.0
1995	100.0		44.4	55.6	100.0		100.0			100.0			100.0
1996	100.0		44.4	55.6	100.0		100.0			100.0			100.0

TABLE D-8: CHARACTERISTICS OF 1975 TO 1996 LIGHT-DUTY TRUCKS BY NUMBER OF CYLINDERS 6-CYLINDER TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	272	.137	14.9	19.7	16.8	3960		269	102	16.9	101.5	.383	.0259	33.5
1976	445	.170	16.1	21.2	18.1	3936		267	102	16.7	101.8	.387	.0262	36.0
1977	410	.145	16.6	21.4	18.4	3956		271	110	15.9	104.2	.407	.0280	36.9
1978	558	.171	16.1	20.7	17.9	3973		273	116	15.2	106.0	.426	.0293	35.9
1979	515	.167	15.7	19.6	17.2	4066		264	122	14.8	107.5	.465	.0303	35.4
1980	555	.298	16.7	22.3	18.8	4016		268	118	15.1	106.5	.445	.0295	38.0
1981	636	.350	17.5	23.4	19.7	3956		272	119	14.8	107.2	.442	.0303	39.2
1982	642	.336	18.4	25.2	20.9	3693		243	113	14.6	107.2	.481	.0311	38.7
1983	751	.327	18.3	25.8	21.1	3754		229	112	15.0	106.3	.510	.0302	39.7
1984	1200	.359	18.0	25.5	20.8	3729		221	110	15.1	105.8	.523	.0298	38.9
1985	1217	.332	18.5	26.7	21.5	3704		216	117	14.5	108.3	.561	.0317	39.9
1986	1379	.317	18.2	25.7	20.9	3793		218	129	13.6	111.9	.623	.0344	39.7
1987	1689	.409	18.5	26.8	21.5	3756		214	141	12.6	116.3	.680	.0379	40.5
1988	2063	.453	18.5	27.1	21.6	3779		218	146	12.2	117.8	.689	.0389	40.9
1989	2104	.474	18.4	26.6	21.4	3887		227	148	12.4	117.6	.674	.0384	41.8
1990	1951	.513	18.4	26.9	21.4	3952		220	147	12.6	116.7	.687	.0376	42.5
1991	2386	.589	18.3	26.9	21.4	3989		228	153	12.3	118.2	.685	.0386	42.7
1992	2488	.612	18.0	26.6	21.1	4049		228	155	12.4	118.4	.693	.0386	42.9
1993	3041	.640	18.2	27.2	21.4	4027		225	160	12.0	120.4	.723	.0401	43.2
1994	3167	.578	18.1	26.8	21.2	4090		228	164	11.9	121.0	.731	.0404	43.5
1995	3385	.576	17.9	26.9	21.1	4145		232	164	12.1	120.4	.718	.0398	43.9
1996	3467	.589	18.0	27.1	21.2	4177		234	172	11.7	122.8	.744	.0415	44.4

PERCENT OF 6-CYLINDER TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1975		5.1	18.8					100.0		3.0	97.0	100.0	
1976		10.7	35.5					100.0		8.3	91.7	98.1	1.9
1977		14.2	32.4					100.0		10.6	89.4	96.1	3.9
1978		14.6	32.0					99.8	.2	9.8	90.2	97.2	2.8
1979		19.5	61.0	3.4				99.3	.7	10.9	89.1	99.2	.8
1980		18.3	61.9	20.8				99.1	.9	6.4	93.6	99.7	.3
1981		14.5	57.3	24.3				100.0		4.6	95.4	99.7	.3
1982		12.8	52.5	31.2				100.0		31.3	68.7	99.5	.5
1983		32.4	48.5	36.3				100.0		48.0	52.0	99.5	.5
1984		41.2	41.4	36.1				100.0		56.5	43.5	99.6	.4
1985		43.0	37.7	51.9	.5	.5		99.5		63.7	36.3	99.5	.5
1986		37.8	33.3	54.4	58.3	34.7	23.5	41.6	.1	66.3	33.7	96.8	3.2
1987	8.7	36.2	26.7	66.3	89.8	36.5	53.2	10.2		72.7	27.3	96.4	3.6
1988	15.2	35.5	26.5	67.5	98.5	38.2	60.3	1.5		73.8	26.2	95.5	4.5
1989	11.9	35.0	25.6	69.5	98.3	39.2	59.1	1.7		73.0	27.0	91.4	8.6
1990	26.1	31.8	20.1	76.9	98.6	32.0	66.6	1.4		75.6	24.4	87.5	12.5
1991	14.5	41.6	23.3	75.7	100.0	40.5	59.5			80.4	19.6	88.8	11.2
1992	18.8	33.6	21.9	77.6	100.0	27.8	72.2			82.0	18.0	89.7	10.3
1993	21.4	29.1	18.1	81.0	100.0	18.5	81.5			68.0	32.0	87.4	12.6
1994	22.2	37.0	17.4	82.0	100.0	14.9	85.1			66.1	33.9	84.6	15.4
1995	26.5	39.5	12.3	87.0	100.0	8.1	91.9			74.6	25.4	83.0	17.0
1996	29.4	38.4	10.9	88.9	100.0	1.5	98.5			69.3	30.7	84.9	15.1

TABLE D-9: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY TRUCKS BY NUMBER OF CYLINDERS 8-CYLINDER TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	1490	.750	11.2	14.9	12.6	4275		347	157	12.8	117.3	.452	.0371	27.1
1976	1938	.742	11.8	15.5	13.2	4361		355	155	13.1	116.1	.437	.0360	28.9
1977	2105	.745	12.9	16.6	14.4	4362		356	163	12.7	118.2	.457	.0375	31.5
1978	2372	.725	12.6	15.9	13.9	4381		352	161	12.7	117.6	.458	.0370	30.8
1979	2092	.677	12.1	14.9	13.2	4620		347	154	14.0	113.8	.445	.0336	30.9
1980	723	.388	13.7	18.2	15.4	4585		333	151	13.9	112.9	.453	.0331	35.9
1981	662	.364	14.9	20.1	16.9	4405		315	145	13.9	112.4	.462	.0331	37.6
1982	754	.394	15.2	20.4	17.2	4526		319	150	13.9	113.2	.473	.0335	39.9
1983	804	.350	15.0	20.5	17.0	4547		321	151	13.8	113.5	.477	.0336	39.7
1984	1062	.317	14.4	19.9	16.5	4573		320	154	13.7	114.2	.485	.0340	38.3
1985	1198	.327	14.3	19.6	16.3	4555		318	159	13.3	115.7	.502	.0352	37.5
1986	1169	.269	14.9	20.6	17.1	4563		315	157	13.5	114.9	.498	.0345	39.2
1987	906	.219	14.6	20.4	16.7	4637		323	171	12.9	118.5	.527	.0369	39.0
1988	1249	.274	14.9	21.3	17.2	4662		329	178	12.5	120.4	.538	.0383	40.2
1989	1210	.273	14.7	21.3	17.1	4664		330	182	12.3	121.9	.550	.0394	40.0
1990	1084	.285	14.6	21.6	17.1	4704		335	189	12.0	123.4	.562	.0404	40.3
1991	756	.187	14.6	21.7	17.1	4667		332	190	11.8	124.2	.573	.0410	40.0
1992	851	.209	14.6	21.9	17.2	4765		331	192	12.0	124.0	.579	.0406	40.9
1993	1009	.212	14.8	22.4	17.5	4783		332	203	11.4	127.0	.611	.0428	41.8
1994	1393	.254	14.8	22.1	17.4	4779		334	206	11.2	128.0	.619	.0436	41.6
1995	1542	.262	14.3	21.4	16.8	4909		333	204	11.6	126.4	.614	.0420	41.2
1996	1680	.285	14.9	22.5	17.5	4862		327	220	10.8	131.3	.675	.0456	42.7

PERCENT OF 8-CYLINDER TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1975		21.8	33.4					100.0		2.6	97.4	100.0	
1976		28.4	29.2					100.0		1.2	98.8	100.0	
1977		28.9	24.5					100.0		1.4	98.6	100.0	
1978		35.5	24.4					98.9	1.1	1.6	98.4	100.0	
1979		17.0	17.0	2.2				97.5	2.5	1.8	98.2	100.0	
1980		32.5	16.3	47.3				93.4	6.6	1.0	99.0	100.0	
1981	.5	22.0	13.6	62.1				96.8	3.2	.3	99.7	100.0	
1982	.1	24.0	10.2	56.3				87.0	13.0		100.0	100.0	
1983		25.6	7.4	68.2				91.7	8.3		100.0	100.0	
1984		29.3	8.5	62.4				96.0	4.0		100.0	100.0	
1985		27.4	6.5	63.8	8.1			89.9	2.0		100.0	100.0	
1986		29.9	7.6	75.7	28.5		28.4	70.2	1.3		100.0	100.0	
1987		31.3	7.8	60.1	71.7	46.1	25.7	27.5	.8		100.0	99.8	.2
1988		36.1	9.0	70.2	97.2	68.5	28.8	2.1	.7		100.0	99.7	.3
1989		36.3	11.8	75.1	98.4	68.0	30.4	1.0	.6		100.0	99.6	.4
1990		35.6	9.2	83.3	98.8	68.5	30.3	.6	.6		100.0	99.6	.4
1991		35.0	8.9	88.3	98.8	68.0	30.9	.5	.7	1.3	98.7	99.5	.5
1992		35.9	8.6	90.1	99.6	54.9	44.7		.4	21.9	78.1	99.6	.4
1993		37.1	5.1	94.6	100.0	53.0	47.0				100.0	99.6	.4
1994		46.7	4.3	94.9	100.0	50.5	49.5				100.0	99.4	.6
1995	.3	50.5	6.2	92.7	99.2	52.2	47.0		.8		100.0	98.6	1.4
1996		43.6	4.1	95.3	99.0		99.0		1.0	1.9	98.1	98.6	1.4

APPENDIX E

TABLE E-1: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES

DOMESTIC CARS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	6718	.816	12.8	18.1	14.7	4380		328	147	14.2	112.6	.456	.0332	32.6		
1976	8253	.849	14.4	20.1	16.5	4317		318	142	14.4	111.4	.455	.0324	35.8		
1977	9293	.822	14.9	20.7	17.1	4246	115.8	316	144	13.9	112.8	.460	.0337	36.4	2005	4220
1978	8958	.802	16.1	23.0	18.6	3853	114.4	287	134	13.6	112.6	.480	.0346	36.0	2170	4129
1979	8682	.804	16.8	23.3	19.2	3711	114.4	270	129	13.6	112.0	.500	.0345	35.8	2230	4100
1980	6728	.712	18.9	27.1	21.9	3341	110.5	220	110	14.1	108.3	.530	.0328	36.6	2446	4067
1981	6261	.717	20.2	29.4	23.5	3291	113.2	209	106	14.2	107.5	.549	.0323	38.7	2706	4408
1982	5506	.704	20.8	31.3	24.5	3247	112.1	200	105	14.3	107.4	.567	.0323	40.0	2800	4504
1983	5683	.710	20.5	30.9	24.1	3310	114.6	208	111	14.0	108.7	.565	.0331	40.2	2828	4611
1984	8102	.759	21.3	32.1	25.1	3233	111.5	197	109	13.8	109.0	.593	.0336	40.8	2857	4553
1985	7797	.723	21.8	33.2	25.8	3246	112.7	199	117	13.2	111.7	.625	.0357	41.9	2950	4734
1986	7517	.682	22.4	34.5	26.6	3199	111.6	190	117	13.0	112.3	.646	.0364	42.6	2998	4767
1987	6608	.616	22.4	34.8	26.7	3200	112.1	189	120	12.8	113.6	.666	.0374	42.7	3017	4801
1988	6574	.612	22.7	35.7	27.1	3247	112.2	189	126	12.4	115.3	.695	.0386	44.1	3069	4963
1989	6204	.619	22.4	35.6	26.9	3276	112.6	190	128	12.3	116.0	.703	.0391	44.0	3047	4972
1990	5007	.568	22.0	35.5	26.5	3359	112.9	193	134	12.2	117.2	.715	.0398	44.6	3014	5045
1991	4793	.562	22.0	35.5	26.6	3335	112.9	194	139	11.9	119.0	.730	.0413	44.3	3028	5029
1992	4724	.583	21.7	35.5	26.3	3399	114.1	201	147	11.4	121.5	.748	.0430	44.7	3016	5120
1993	5106	.604	22.4	36.4	27.1	3327	113.3	192	143	11.6	120.7	.757	.0426	45.1	3102	5135
1994	4685	.558	21.7	35.5	26.3	3431	112.8	201	154	11.2	123.5	.777	.0445	45.1	2980	5105
1995	5284	.567	22.2	37.1	27.1	3391	112.8	196	163	10.6	127.2	.851	.0476	46.0	3096	5201
1996	5039	.581	22.4	37.3	27.3	3422	112.3	193	168	10.4	128.6	.887	.0485	46.8	3098	5270

PERCENT OF DOMESTIC CARS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE
1975	1.3		8.2		.6		.6	99.4		45.9	28.1	26.1
1976	1.4		8.1		.9		.9	99.1		47.7	29.4	22.9
1977	1.4		4.4		.7		.7	99.3		41.8	29.6	28.6
1978	3.3		6.9	8.4	1.1		1.1	98.5	.4	31.2	42.7	26.1
1979	5.4		9.1	10.0	1.2		1.2	97.3	1.6	30.4	42.1	27.5
1980	22.3	.6	15.7	23.2	1.2	1.0	.2	95.6	3.2	36.4	47.7	15.8
1981	32.4	.3	15.3	45.3	3.7	3.7		91.3	5.0	32.7	50.3	17.0
1982	42.9	.4	15.4	70.5	13.9	13.9		82.4	3.7	38.8	43.4	17.8
1983	42.4	.6	12.3	72.8	27.3	26.6	.7	71.5	1.2	34.7	44.1	21.3
1984	51.3	.3	13.6	69.1	38.3	32.0	6.3	60.7	.9	45.3	37.2	17.4
1985	60.0		11.0	69.6	57.5	44.2	13.3	42.3	.2	40.7	38.0	21.3
1986	68.2	.1	11.7	70.6	70.7	41.0	29.6	29.2	.1	43.6	38.1	18.3
1987	74.3	.1	10.8	70.6	84.8	45.2	39.6	15.1	.1	43.3	37.1	19.6
1988	78.8		10.0	80.3	95.5	36.1	59.4	4.5		48.1	31.8	20.1
1989	80.7	.3	8.5	81.8	98.4	34.6	63.8	1.6		40.4	38.7	21.0
1990	84.7	.1	6.2	85.4	99.3	27.4	71.9	.7		36.6	41.5	21.9
1991	82.4		7.1	87.9	100.0	26.9	73.1			40.6	38.3	21.1
1992	82.3		6.2	88.2	100.0	11.2	88.8			38.3	35.5	26.2
1993	84.1		8.2	86.7	100.0	9.0	91.0			43.1	35.4	21.5
1994	80.1		6.8	89.3	100.0	6.9	93.1			40.0	32.7	27.3
1995	82.1		9.2	90.8	100.0	.5	99.5			43.2	31.9	24.9
1996	83.6		10.5	89.5	100.0		100.0			41.3	34.4	24.2

APPENDIX E

TABLE E-2: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES — EUROPEAN CARS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	673	.082	19.6	29.1	23.0	2704		114	83	15.3	102.6	.729	.0299	31.4		
1976	527	.054	20.1	29.3	23.4	2720		119	85	14.8	103.9	.728	.0311	32.2		
1977	623	.055	21.3	31.4	24.9	2676	89.6	115	84	14.8	103.7	.734	.0311	34.0	2368	3093
1978	707	.063	21.9	32.0	25.5	2579	91.1	112	83	14.5	104.1	.743	.0318	33.9	2505	3120
1979	599	.056	21.7	31.4	25.2	2680	89.3	118	84	14.9	103.9	.720	.0312	34.7	2415	3145
1980	791	.084	24.3	35.1	28.2	2574	89.6	112	78	15.2	102.4	.699	.0303	37.5	2690	3397
1981	525	.060	25.5	36.0	29.4	2765	93.1	121	84	15.2	103.1	.694	.0302	42.1	2928	3939
1982	494	.063	25.1	34.3	28.6	2895	96.4	128	92	14.8	105.1	.718	.0315	42.7	2923	4143
1983	440	.055	23.7	33.0	27.2	3041	98.5	140	107	13.5	110.1	.773	.0352	42.0	2785	4181
1984	640	.060	23.2	32.8	26.7	2987	99.9	139	110	13.0	111.7	.798	.0367	40.8	2772	4086
1985	665	.062	22.8	32.3	26.3	3070	102.5	145	117	12.8	113.7	.823	.0380	41.1	2818	4231
1986	732	.066	22.6	32.2	26.1	3016	103.0	146	123	12.2	116.2	.857	.0401	39.8	2793	4128
1987	743	.069	22.5	31.8	25.9	3032	100.8	145	128	11.9	117.8	.890	.0414	39.5	2699	4017
1988	675	.063	21.9	31.9	25.5	3084	103.1	149	133	11.7	119.2	.899	.0422	39.6	2707	4102
1989	550	.055	21.1	31.1	24.7	3209	104.4	156	144	11.3	122.1	.934	.0441	39.9	2653	4185
1990	437	.050	21.0	31.2	24.6	3360	105.1	155	148	11.5	121.8	.962	.0433	41.7	2657	4393
1991	390	.046	21.1	31.8	24.9	3393	104.4	156	150	11.5	122.2	.969	.0435	42.5	2677	4455
1992	331	.041	20.9	32.2	24.8	3467	103.9	156	161	11.1	125.2	1.029	.0455	43.2	2639	4505
1993	290	.034	20.9	32.5	24.9	3590	105.5	164	174	10.6	128.6	1.060	.0478	44.7	2656	4725
1994	330	.039	21.1	33.2	25.2	3584	105.2	164	181	10.3	131.0	1.105	.0497	45.3	2692	4769
1995	658	.071	22.5	35.4	26.9	3458	104.3	155	171	10.4	128.9	1.102	.0485	46.7	2865	4878
1996	561	.065	22.4	35.9	27.0	3410	103.9	155	165	10.6	127.4	1.067	.0475	46.0	2835	4787

PERCENT OF EUROPEAN CARS :

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE
1975	46.1		68.5		38.8		38.8	58.3	2.9	94.8	5.2	
1976	46.3		65.5		33.7		33.7	61.6	4.7	95.8	4.2	
1977	55.0		73.1		52.4		52.4	38.9	8.6	95.6	4.4	
1978	61.9		74.2		53.9		53.9	36.7	9.5	96.9	3.1	
1979	54.0		73.2		47.6		47.6	37.1	15.3	94.2	5.8	
1980	69.3		78.0		48.9		48.9	25.3	25.8	96.0	4.0	
1981	61.1		68.7		61.4		61.4	2.2	36.4	95.0	5.0	
1982	54.8		61.2	.1	65.6		65.6	6.3	28.1	93.8	6.2	
1983	42.0	.1	53.6	.3	77.1		77.1	3.5	19.4	90.5	9.3	.1
1984	45.4	.5	51.0	.6	84.2		84.2	2.2	13.6	81.6	18.4	
1985	45.0	.6	46.4	7.1	88.8		88.8	.3	10.9	79.5	20.5	
1986	47.1	1.2	47.1	11.9	91.4		91.4	5.3	3.3	76.4	22.1	1.5
1987	45.7	1.4	49.3	11.2	90.3		90.3	6.6	3.1	78.5	19.7	1.9
1988	50.7	1.0	41.1	25.4	94.2	2.4	91.8	5.7	.1	68.4	23.6	8.0
1989	44.4	.9	31.5	29.5	98.7	.1	98.7	.5	.8	66.0	24.6	9.4
1990	42.9	1.0	29.2	32.7	99.2		99.2		.8	63.0	30.7	6.2
1991	43.1	1.1	29.7	31.5	97.0		97.0	.2	2.8	65.3	26.3	8.4
1992	36.8	1.2	29.5	34.7	98.5		98.5		1.5	68.2	22.4	9.4
1993	34.6	2.9	24.8	45.5	100.0	6.8	93.2			59.0	32.1	8.9
1994	39.4	.5	23.0	55.8	100.0		100.0			63.8	31.6	4.6
1995	33.8	24.3	23.9	59.2	99.9		99.9		.1	77.0	18.5	4.5
1996	64.1	1.2	14.6	68.9	100.0		100.0			77.6	15.4	7.0

TABLE E-3: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES — ASIAN CARS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	846	.103	20.1	29.3	23.4	2575		113	93	13.4	108.6	.814	.0355	30.8		
1976	942	.097	23.0	33.3	26.7	2550		108	86	13.9	106.0	.795	.0334	34.3		
1977	1383	.122	25.4	35.8	29.2	2485	83.7	104	84	13.9	105.6	.798	.0333	37.0	2543	3105
1978	1510	.135	25.3	34.3	28.7	2482	85.3	106	83	14.0	105.5	.784	.0332	36.2	2531	3097
1979	1513	.140	23.4	32.4	26.7	2506	84.9	107	78	14.6	103.0	.734	.0310	33.9	2356	2895
1980	1924	.204	25.5	34.7	29.0	2482	88.5	107	77	14.6	102.8	.720	.0309	36.4	2647	3232
1981	1948	.223	27.5	36.5	30.9	2469	88.6	109	78	14.5	103.3	.713	.0314	38.6	2815	3426
1982	1819	.233	27.6	37.2	31.2	2512	90.6	113	80	14.5	103.6	.707	.0315	39.7	2924	3611
1983	1879	.235	28.7	39.4	32.7	2528	93.1	112	82	14.2	104.6	.731	.0322	41.9	3159	3924
1984	1933	.181	28.5	39.9	32.7	2569	93.6	114	88	13.7	106.8	.768	.0340	42.5	3174	4004
1985	2328	.216	28.1	39.2	32.2	2585	94.6	113	89	13.9	106.8	.782	.0339	42.2	3175	4013
1986	2765	.251	28.8	40.0	32.9	2616	96.8	110	90	13.8	106.8	.810	.0338	43.5	3287	4211
1987	3380	.315	27.9	39.2	32.0	2700	97.1	111	93	13.9	107.2	.827	.0338	43.6	3194	4236
1988	3487	.325	28.6	39.6	32.7	2662	98.1	108	93	13.6	107.7	.851	.0344	43.8	3291	4299
1989	3264	.326	27.6	38.9	31.8	2745	98.9	112	103	12.9	110.9	.908	.0368	43.9	3216	4341
1990	3365	.382	26.4	37.5	30.4	2879	98.6	119	118	12.0	115.6	.983	.0402	44.1	3060	4347
1991	3341	.392	26.7	38.1	30.8	2865	98.3	119	120	11.8	116.8	1.011	.0412	44.5	3101	4374
1992	3052	.377	26.1	38.0	30.4	2968	100.1	123	127	11.7	118.3	1.036	.0421	45.4	3120	4541
1993	3060	.362	26.3	38.5	30.6	2971	100.5	123	127	11.6	118.1	1.027	.0420	45.8	3159	4608
1994	3386	.403	26.7	39.5	31.2	2969	102.2	122	123	11.9	116.9	1.009	.0409	46.7	3267	4769
1995	3371	.362	26.3	39.2	30.9	3038	102.8	127	135	11.3	120.5	1.060	.0436	47.1	3241	4848
1996	3066	.354	26.4	39.3	30.9	3037	103.6	128	135	11.3	120.6	1.056	.0438	47.3	3272	4896

PERCENT OF ASIAN CARS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE
1975	17.0		74.0		14.4		14.4	85.6		100.0		
1976	21.2		69.2		6.0		6.0	94.0		100.0		
1977	22.0		74.4		6.3		6.3	93.7		100.0		
1978	22.8		74.1		5.9		5.9	94.1		100.0		
1979	32.4	2.5	77.8		8.1		8.1	91.9		100.0		
1980	39.2	2.4	69.7		9.4		9.4	90.6		100.0		
1981	45.5	2.1	68.7	3.7	11.0		11.0	88.2	.8	100.0		
1982	51.3	2.2	64.4	7.4	13.1		13.1	85.6	1.3	100.0		
1983	63.2	11.3	67.1	21.4	20.2		20.2	79.3	.5	100.0		
1984	66.8	4.2	59.4	32.3	29.1	.5	28.6	70.1	.8	100.0		
1985	71.8	9.4	59.0	36.6	29.9	.4	29.5	69.9	.2	99.2	.8	
1986	85.3	3.6	54.4	36.1	43.2	1.7	41.4	56.8	.1	98.1	1.9	
1987	89.3	3.0	47.1	48.3	46.1	8.5	37.6	53.9		99.6	.4	
1988	93.0	2.3	47.9	47.3	59.6	23.9	35.7	40.4		95.8	4.2	
1989	92.4	2.3	42.9	52.2	73.2	19.6	53.6	26.8		91.0	9.0	
1990	89.9	2.3	38.3	59.5	97.4	14.4	82.9	2.6		90.7	9.3	
1991	89.1	3.4	38.7	57.9	99.9	17.2	82.7	.1		91.0	9.0	
1992	83.3	2.8	33.1	62.6	100.0	10.2	89.8			83.4	16.6	
1993	91.5	3.0	33.3	63.6	100.0	7.6	92.4			80.5	19.5	
1994	94.2	1.6	28.0	67.9	100.0	2.9	97.1			83.5	16.5	
1995	87.4	.6	26.2	69.8	100.0	3.0	97.0			76.6	21.4	2.0
1996	94.3	2.6	25.6	72.1	100.0		100.0			73.1	24.7	2.2

TABLE E-4: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES — DOMESTIC TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	1763	.887	11.6	15.4	13.1	4227		335	149	13.4	114.8	.441	.0354	28.1
1976	2374	.909	12.4	16.3	13.9	4282		339	146	13.8	113.4	.427	.0342	30.3
1977	2499	.885	13.4	17.2	14.9	4298		343	154	13.2	116.0	.449	.0360	32.4
1978	2915	.891	13.2	16.7	14.5	4304		337	152	13.2	115.4	.451	.0356	31.8
1979	2615	.847	12.7	15.7	13.8	4504		330	148	14.2	112.5	.449	.0329	31.8
1980	1292	.694	14.9	19.8	16.8	4323		303	136	14.4	110.1	.451	.0315	36.8
1981	1310	.720	16.1	21.7	18.2	4173		293	132	14.4	109.8	.453	.0317	38.4
1982	1459	.763	16.8	22.7	19.0	4077		277	130	14.3	110.1	.486	.0323	39.3
1983	1806	.785	17.2	23.8	19.6	3977		256	125	14.5	108.8	.508	.0314	39.6
1984	2608	.780	16.8	23.4	19.2	3991		250	125	14.6	108.7	.523	.0313	38.9
1985	2939	.801	17.0	23.7	19.5	3963		245	130	14.2	110.5	.553	.0327	39.2
1986	3057	.703	17.4	24.2	19.9	3994		242	134	13.8	111.6	.580	.0335	40.1
1987	2989	.723	17.7	25.2	20.4	3932		237	143	13.0	115.2	.629	.0364	40.5
1988	3695	.811	17.7	25.5	20.5	3989		247	150	12.7	116.8	.629	.0375	41.2
1989	3634	.819	17.5	25.3	20.3	4048		253	153	12.6	117.7	.630	.0380	41.5
1990	3055	.803	17.3	25.4	20.2	4142		257	158	12.5	118.3	.633	.0382	42.1
1991	3227	.797	17.8	26.2	20.8	4051		247	156	12.4	118.5	.648	.0386	42.5
1992	3342	.822	17.4	25.8	20.4	4167		251	161	12.4	119.2	.657	.0388	42.8
1993	3929	.826	17.5	26.2	20.6	4163		251	168	12.0	121.4	.683	.0405	43.0
1994	4543	.829	17.5	25.9	20.5	4221		255	171	11.9	122.0	.689	.0407	43.5
1995	4772	.812	17.0	25.6	20.0	4318		262	173	12.0	121.6	.677	.0402	43.6
1996	4930	.837	17.1	26.0	20.2	4356		262	184	11.6	124.7	.714	.0423	44.4

PERCENT OF DOMESTIC TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE
1975		19.3	31.1					100.0		2.7	97.3
1976		25.2	30.1					100.0		2.2	97.8
1977		26.7	25.3					100.0		2.3	97.7
1978		31.7	25.5					99.1	.9	2.7	97.3
1979		17.6	25.6	2.4				97.9	2.1	3.8	96.2
1980		27.1	36.8	35.4				95.9	4.1	4.3	95.7
1981	.3	19.0	35.6	43.2				98.4	1.6	3.3	96.7
1982		18.2	31.2	43.6				93.3	6.7	18.1	81.9
1983		26.1	33.8	45.8				95.9	4.1	33.8	66.2
1984	5.7	33.0	30.1	43.0				98.1	1.9	39.3	60.7
1985	8.2	30.7	26.5	49.7	9.5	.2		89.6	.9	44.0	56.0
1986	7.6	29.9	25.4	55.5	44.6	19.8	24.8	54.8	.6	46.4	53.6
1987	9.4	29.8	26.0	56.2	79.2	38.6	40.6	20.6	.3	53.6	46.4
1988	10.8	30.0	25.9	61.7	96.0	50.7	45.3	3.8	.2	52.0	48.0
1989	11.8	29.8	24.2	64.2	98.5	52.8	45.7	1.3	.2	52.0	48.0
1990	18.8	26.8	19.0	76.1	98.7	48.6	50.1	1.1	.2	50.8	49.2
1991	12.0	32.6	24.0	74.6	99.7	51.0	48.7	.1	.2	64.5	35.5
1992	15.6	29.5	20.6	78.5	99.9	36.8	63.1		.1	68.2	31.8
1993	14.6	28.3	17.7	81.5	100.0	30.1	69.9			47.8	52.2
1994	13.9	33.4	18.5	80.3	100.0	26.8	73.2			44.0	56.0
1995	16.4	38.4	15.7	83.5	99.7	23.6	76.2		.3	47.6	52.4
1996	18.7	35.3	12.8	86.8	99.7	1.1	98.6		.3	45.9	54.1

TABLE E-5: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES — IMPORTED TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	224	.113	18.6	26.9	21.6	2857		120	89	14.8	104.7	.752	.0314	31.1
1976	238	.091	19.3	28.4	22.6	2879		122	91	14.6	105.4	.761	.0319	33.2
1977	325	.115	21.8	30.9	25.1	2884		128	92	14.3	106.0	.741	.0323	37.0
1978	358	.109	22.2	29.9	25.1	2903		126	89	14.7	104.4	.719	.0309	37.2
1979	472	.153	20.3	28.0	23.1	2854		124	84	15.0	102.9	.688	.0298	33.7
1980	570	.306	21.5	29.0	24.3	2839		124	86	14.7	103.8	.701	.0307	35.1
1981	510	.280	24.2	32.5	27.3	2862		130	84	15.2	102.6	.650	.0296	39.9
1982	454	.237	24.1	32.0	27.1	2932		134	87	15.2	103.3	.648	.0300	40.6
1983	495	.215	24.1	32.1	27.1	2982		137	92	14.6	104.7	.672	.0310	41.0
1984	736	.220	23.7	31.2	26.6	3043		134	91	14.9	103.8	.680	.0300	40.9
1985	730	.199	23.5	30.9	26.3	3119		139	100	14.4	106.7	.719	.0322	41.4
1986	1293	.297	23.1	31.2	26.2	3132		138	99	14.2	106.2	.717	.0317	41.1
1987	1145	.277	22.5	30.6	25.6	3139		139	99	14.2	106.3	.718	.0318	40.3
1988	864	.189	21.9	29.3	24.7	3211		142	105	13.9	107.8	.743	.0327	39.7
1989	801	.181	21.1	28.4	23.9	3347		149	113	13.6	109.6	.756	.0338	40.1
1990	750	.197	20.6	28.0	23.4	3448		153	123	13.0	112.6	.807	.0359	40.5
1991	822	.203	20.3	27.9	23.1	3545		154	125	13.2	112.4	.811	.0354	41.2
1992	723	.178	20.1	27.7	22.9	3540		154	125	13.1	112.4	.814	.0355	40.8
1993	825	.174	20.1	27.9	23.0	3647		160	134	12.8	114.5	.836	.0367	42.0
1994	938	.171	19.5	27.0	22.3	3708		166	139	12.6	115.6	.841	.0374	41.5
1995	1107	.188	19.3	26.8	22.1	3806		167	144	12.4	116.7	.870	.0380	42.2
1996	957	.163	18.9	26.2	21.6	3921		183	163	11.6	121.9	.903	.0415	42.5

PERCENT OF IMPORTED TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE
1975			83.5		.5			99.5		100.0		
1976			82.1		.7			99.3		100.0		
1977			83.2		.7			99.3		100.0		
1978		6.5	88.6		.8			99.2		100.0		
1979		20.1	88.1		1.8			98.2		100.0		
1980	4.6	20.3	89.8		5.4			92.6	2.0	89.3	10.7	
1981	6.5	22.8	92.8		4.0			80.1	15.9	90.2	9.8	
1982	7.1	26.1	92.2		2.8			79.5	17.7	84.7	15.3	
1983	6.2	24.6	90.2	.9	3.0			90.3	6.8	88.0	12.0	
1984	2.0	23.9	84.6	7.4	11.7			84.6	3.8	70.0	30.0	
1985	2.4	30.0	79.8	12.0	23.5			75.0	1.6	76.7	23.3	
1986	1.8	31.2	83.5	10.2	31.0	16.2	14.8	68.1	.9	81.6	18.4	
1987	2.3	35.9	76.3	15.0	34.8	20.5	14.4	64.9	.2	83.1	16.9	
1988	1.4	47.2	76.5	16.3	52.4	17.7	34.7	47.6		79.6	20.4	
1989	1.2	42.2	71.1	23.2	70.9	24.3	46.6	29.1		77.9	22.1	
1990	2.3	49.6	65.3	31.9	84.9	9.0	75.8	15.1		63.7	36.3	
1991	.8	45.8	58.5	39.0	92.4	12.5	79.9	7.6		64.2	35.8	
1992	4.7	40.1	59.6	39.5	91.3	12.8	78.5	8.7		66.2	33.8	
1993	17.3	39.0	49.8	48.2	94.5	4.5	90.0	5.5		62.1	37.9	
1994	12.9	52.2	49.7	47.6	97.8	5.8	92.0	2.2		57.5	42.5	
1995	17.1	47.1	40.0	58.1	100.0		100.0			79.7	20.3	
1996	17.1	53.9	33.7	64.9	100.0		100.0			62.5	37.5	

APPENDIX F

TABLE F-1: CHARACTERISTICS OF 1978 TO 1996 PASSENGER CARS BY TRANSMISSION TYPE

M-3

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1978	47	.004	19.2	27.7	22.3	3441	113.5	219	100	15.0	104.3	.459	.0293	38.3	2549	4350
1979	23	.002	19.3	26.8	22.1	3584	111.7	224	102	15.2	103.9	.458	.0286	39.7	2493	4446
1980	17	.002	18.8	25.0	21.1	3526	109.1	228	111	14.2	107.4	.485	.0314	37.4	2310	4074
1981	9	.001	18.8	25.9	21.4	3500	103.7	229	115	13.7	109.0	.501	.0328	37.5	2223	3890

PERCENT OF M-3:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE MID LARGE	DESIGNED DOM	DESIGNED EUR	DESIGNED ASIA
1978			100.0					100.0		39.4	60.6	100.0		
1979			100.0					100.0		42.9	57.1	100.0		
1980			100.0					100.0		40.2	59.8	100.0		
1981			100.0					100.0		67.3	32.7	100.0		

TABLE F-2: CHARACTERISTICS OF 1978 TO 1996 PASSENGER CARS BY TRANSMISSION TYPE. M-4

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1978	1129	.101	23.9	34.4	27.7	2567	88.4	123	82	14.4	104.0	.701	.0316	36.3	2591	3231
1979	1509	.140	23.0	33.6	26.8	2606	89.9	123	83	14.5	103.8	.696	.0313	35.4	2502	3194
1980	1733	.183	23.9	35.4	28.0	2582	93.9	123	80	14.7	102.9	.659	.0306	36.6	2706	3452
1981	1335	.153	26.8	39.2	31.2	2499	99.0	116	78	14.4	103.2	.692	.0312	39.5	3162	3903
1982	1074	.137	26.6	39.8	31.3	2556	94.7	117	77	14.9	101.9	.675	.0299	40.5	3042	3834
1983	542	.068	29.0	41.9	33.7	2494	98.6	112	75	14.9	101.7	.682	.0299	42.6	3417	4198
1984	668	.063	30.2	43.8	35.1	2505	93.6	112	77	14.7	102.6	.695	.0306	44.5	3405	4186
1985	444	.041	31.3	45.4	36.4	2508	98.5	110	80	14.5	104.0	.733	.0319	46.1	3694	4559
1986	489	.044	30.1	43.2	34.9	2535	95.5	114	83	14.1	104.8	.738	.0324	45.0	3470	4333
1987	344	.032	31.6	43.0	35.9	2417	94.4	100	77	14.4	103.1	.769	.0314	44.1	3493	4183
1988	487	.045	32.9	44.0	37.1	2354	96.4	97	74	14.4	102.5	.761	.0311	44.1	3661	4272
1989	315	.031	33.4	45.9	38.1	2380	98.0	96	79	13.7	104.7	.824	.0330	45.7	3793	4483
1990	194	.022	33.1	45.1	37.6	2462	97.1	97	86	13.0	107.3	.892	.0350	46.5	3680	4528
1991	143	.017	34.5	45.8	38.8	2417	97.2	91	89	12.5	109.3	.975	.0370	47.0	3786	4572
1992	107	.013	33.9	46.0	38.5	2376	96.4	91	88	12.5	109.3	.963	.0371	45.7	3715	4409
1993	78	.009	34.3	45.7	38.6	2308	96.2	89	81	12.9	107.0	.911	.0354	44.5	3714	4285
1994	52	.006	34.7	46.7	39.2	2250	95.0	89	82	12.6	107.9	.921	.0364	44.1	3728	4194
1995	21	.002	36.9	50.5	42.0	2250	90.0	91	93	11.4	113.3	1.022	.0413	47.2	3777	4249
1996	12	.001	37.4	51.2	42.6	2250	90.0	91	93	11.4	113.3	1.022	.0413	47.9	3830	4309

PERCENT OF M-4:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1978	44.2		100.0		21.2		21.2	75.1	3.7	95.3	4.7		42.4	41.4	16.2
1979	32.0	2.5	100.0		9.8		9.8	87.5	2.7	95.1	4.9		50.1	21.9	28.0
1980	47.2	2.6	100.0		8.3		8.3	83.9	7.7	86.1	13.9		59.6	25.1	15.3
1981	62.3	3.4	100.0		4.3		4.3	88.8	6.9	85.5	14.5		69.5	12.0	18.5
1982	69.6	3.7	100.0		8.0	3.6	4.4	88.5	3.5	94.1	5.9		76.1	10.7	13.1
1983	65.4	7.8	100.0		20.5	13.0	7.5	76.0	3.5	93.8	6.2		62.9	11.9	25.2
1984	61.2	5.5	100.0		34.5	28.8	5.7	61.8	3.7	95.7	4.3		71.9	8.3	19.8
1985	74.5	.8	100.0		27.5	18.4	9.0	72.1	.4	94.9	5.1		76.4	5.1	18.6
1986	74.2	.9	100.0		23.6	9.1	14.4	76.4	.1	97.4	2.6		61.9	11.3	26.8
1987	92.0	1.0	100.0		45.3	31.2	14.2	54.7		98.8	1.2		36.4	25.6	37.9
1988	97.9	.6	100.0		55.6	36.1	19.5	44.4		99.6	.4		12.5	23.4	64.1
1989	99.3	.3	100.0		65.6	44.7	20.9	34.4		99.6	.4		9.7	11.8	78.5
1990	99.6		100.0		90.3	58.4	31.9	9.7		99.6	.4		7.8	12.1	80.1
1991	100.0		100.0		99.6	30.1	69.5	.4		100.0				3.7	96.3
1992	100.0		100.0		100.0	2.5	97.5			100.0				1.3	98.7
1993	100.0		100.0		100.0	4.2	95.8			100.0					100.0
1994	100.0				100.0		100.0			100.0					100.0
1995	100.0		100.0		100.0		100.0			100.0					100.0
1996	100.0		100.0		100.0		100.0			100.0					100.0

TABLE F-3: CHARACTERISTICS OF 1978 TO 1996 PASSENGER CARS BY TRANSMISSION TYPE

M-5

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1978	1037	.093	24.8	35.7	28.7	2564	86.2	114	84	14.1	105.2	.753	.0326	37.6	2586	3247
1979	742	.069	22.0	33.0	25.9	2633	82.6	117	85	14.3	104.6	.724	.0318	34.8	2258	2896
1980	1173	.124	24.9	36.6	29.1	2541	86.7	110	80	14.4	103.5	.726	.0313	37.5	2627	3274
1981	1263	.145	27.6	39.3	31.8	2488	87.2	110	79	14.4	103.3	.710	.0313	40.1	2870	3513
1982	1210	.155	27.9	40.0	32.3	2519	89.8	113	81	14.3	103.9	.710	.0318	41.4	3025	3744
1983	1543	.193	27.3	40.3	31.9	2583	93.3	120	87	13.9	105.8	.732	.0331	42.0	3131	3957
1984	1908	.179	26.9	39.8	31.5	2646	94.3	125	94	13.4	108.2	.757	.0349	42.5	3106	4032
1985	2019	.187	27.3	40.7	32.1	2629	93.7	121	95	13.4	109.1	.791	.0358	42.8	3136	4033
1986	2239	.203	27.6	40.6	32.2	2684	96.0	122	97	13.2	109.3	.805	.0356	43.9	3213	4218
1987	2328	.217	27.2	40.3	31.9	2719	95.5	121	99	13.2	109.6	.821	.0358	43.8	3146	4193
1988	2116	.197	27.6	40.8	32.3	2738	96.8	122	103	12.8	111.2	.852	.0370	44.8	3240	4341
1989	1784	.178	27.1	40.4	31.8	2786	98.0	125	108	12.4	112.7	.883	.0382	44.8	3218	4396
1990	1528	.173	26.7	39.4	31.2	2834	95.9	125	118	11.8	116.3	.967	.0410	44.7	3083	4294
1991	1599	.188	27.6	40.6	32.3	2796	95.7	121	117	11.9	116.0	.974	.0409	45.7	3200	4384
1992	1299	.160	27.7	41.2	32.5	2813	96.7	121	121	11.6	117.8	1.009	.0423	46.4	3268	4496
1993	1416	.167	28.4	42.1	33.3	2771	97.1	120	117	11.8	116.7	.978	.0415	46.8	3357	4557
1994	1322	.157	28.4	42.5	33.4	2835	97.7	123	119	11.7	116.8	.986	.0414	48.0	3387	4709
1995	1470	.158	28.5	43.1	33.7	2871	99.1	125	126	11.3	119.1	1.026	.0432	48.9	3450	4859
1996	1357	.157	28.6	43.3	33.8	2882	99.2	127	128	11.2	119.7	1.021	.0437	49.1	3452	4885

PERCENT OF M-5:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1978	20.5		100.0		5.8		5.8	94.2		99.8	.2		8.7	5.5	85.8
1979	33.8		100.0		16.3		16.3	81.7	2.0	99.9	.1		1.4	14.6	84.0
1980	39.2		100.0		19.5		19.5	78.1	2.4	99.3	.7		.5	15.6	83.9
1981	49.8		100.0		20.2		20.2	74.5	5.3	100.0			1.8	15.9	82.3
1982	56.1	.2	100.0		20.2		20.2	74.9	4.9	100.0			2.4	15.5	82.1
1983	66.4	6.1	100.0		32.0	7.0	25.0	67.3	.8	99.3	.7		23.1	11.1	65.8
1984	69.6	1.4	100.0		39.9	8.9	31.0	56.9	3.2	99.2	.8		32.8	14.0	53.2
1985	70.3	5.8	100.0		42.4	9.3	33.2	55.6	2.0	98.4	1.6		25.9	14.2	60.0
1986	78.6	3.6	100.0		57.7	12.0	45.7	41.2	1.1	96.4	3.2	.4	25.8	12.9	61.3
1987	79.2	3.4	100.0		61.9	16.3	45.6	37.9	.2	97.8	1.9	.3	25.4	11.8	62.8
1988	83.0	3.1	100.0		74.0	25.3	48.7	26.0		95.5	4.2	.3	28.1	7.7	64.2
1989	83.2	3.2	100.0		83.3	24.3	59.0	16.4	.2	92.1	7.7	.2	27.6	7.6	64.7
1990	83.5	2.6	100.0		97.9	20.9	77.0	2.0	.1	93.7	6.1	.1	19.0	6.8	74.2
1991	84.3	3.1	100.0		99.5	23.6	75.9	.2	.3	94.7	5.0	.3	20.9	6.9	72.2
1992	85.1	3.4	99.0		99.9	13.5	86.4	.1	.1	95.0	4.7	.3	22.0	7.3	70.6
1993	89.3	2.3	100.0		100.0	13.7	86.3			95.7	4.0	.3	28.7	5.0	66.3
1994	88.3	1.4	99.4		100.0	9.4	90.6			96.6	3.2	.2	22.5	5.7	71.9
1995	87.4	1.0	100.0		100.0	1.7	98.3			94.4	5.5	.1	31.4	10.1	58.4
1996	88.4	2.4	100.0		100.0		100.0			90.7	9.1	.2	37.5	5.6	56.9

TABLE F-4: CHARACTERISTICS OF 1978 TO 1996 PASSENGER CARS BY TRANSMISSION TYPE

M-6

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1989	4	.000	18.2	32.6	22.7	3500	50.0	350	240	7.7	154.2	.686	.0686	39.8	1136	1988
1990	7	.001	17.9	31.6	22.3	3503	50.0	350	302	6.6	176.7	.864	.0863	39.0	1113	1949
1991	6	.001	17.6	31.3	21.9	3583	53.3	346	296	6.8	173.1	.857	.0831	39.3	1158	2088
1992	6	.001	18.3	31.8	22.7	3531	52.8	338	303	6.5	176.5	.914	.0860	40.1	1195	2115
1993	14	.002	18.5	31.8	22.8	3540	73.4	332	284	6.9	169.5	.896	.0804	40.4	1685	2989
1994	27	.003	18.5	32.7	23.0	3607	79.5	324	276	7.2	165.2	.932	.0765	41.6	1846	3344
1995	37	.004	18.2	32.2	22.6	3622	81.2	305	286	7.0	168.5	1.010	.0791	41.2	1861	3388
1996	27	.003	18.0	32.8	22.6	3679	77.1	323	273	7.3	163.3	.898	.0747	41.7	1755	3267

PERCENT OF M-6:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1989			100.0		100.0		100.0			100.0			100.0		
1990			100.0		100.0		100.0			100.0			100.0		
1991			100.0		100.0		100.0			100.0			92.1	7.9	
1992			100.0		100.0		100.0			100.0			87.8	12.2	
1993	6.4		100.0		100.0		100.0			100.0			83.1	5.5	11.4
1994	12.1		100.0		100.0		100.0			100.0			76.8	4.5	18.7
1995	11.0	.1	100.0		100.0		100.0			100.0			64.1	23.2	12.7
1996	4.9	1.8	100.0		100.0		100.0			100.0			76.6	18.5	4.9

TABLE F-5: CHARACTERISTICS OF 1978 TO 1996 PASSENGER CARS BY TRANSMISSION TYPE

A-3

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1978	8125	.727	16.2	22.9	18.6	3818	114.4	283	133	13.6	112.7	.493	.0347	35.6	2166	4097
1979	7462	.691	16.7	22.8	19.0	3729	115.0	269	129	13.7	111.8	.501	.0343	35.5	2212	4098
1980	4814	.510	19.5	27.1	22.3	3215	107.8	203	106	14.1	107.9	.562	.0328	35.9	2437	3893
1981	3027	.347	21.4	29.4	24.4	2958	106.5	165	95	14.4	106.1	.621	.0321	36.1	2629	3851
1982	1251	.160	24.7	33.1	27.9	2679	101.1	124	84	14.8	103.8	.684	.0311	37.5	2862	3809
1983	1158	.145	25.1	33.2	28.2	2749	106.1	130	85	14.8	103.8	.670	.0309	39.0	3045	4144
1984	1667	.156	24.9	34.0	28.3	2741	106.0	128	88	14.4	105.2	.691	.0321	38.9	3030	4124
1985	1798	.167	25.4	34.5	28.8	2764	105.3	129	99	13.3	109.5	.769	.0356	40.0	3072	4211
1986	1742	.158	25.3	34.5	28.8	2778	105.5	129	97	13.6	108.6	.756	.0348	40.1	3078	4231
1987	1498	.140	24.7	34.3	28.2	2763	105.1	130	97	13.6	108.6	.752	.0349	39.2	3006	4118
1988	892	.083	25.2	34.7	28.7	2792	103.4	125	98	13.5	108.9	.795	.0350	40.3	3022	4165
1989	815	.081	25.3	34.6	28.8	2818	102.8	126	97	13.7	108.0	.774	.0341	40.7	3019	4183
1990	535	.061	25.4	34.6	28.8	2869	101.6	128	98	13.7	108.1	.774	.0341	41.5	2977	4221
1991	368	.043	23.9	33.0	27.3	2834	99.5	124	96	13.9	107.2	.784	.0334	39.0	2788	3872
1992	394	.049	25.6	35.7	29.3	2799	99.2	126	98	13.7	108.4	.797	.0345	41.2	2969	4084
1993	351	.042	25.8	35.9	29.5	2819	100.6	128	96	13.8	107.6	.767	.0338	41.8	3017	4202
1994	262	.031	26.6	37.1	30.5	2745	100.3	121	91	14.0	106.4	.781	.0331	42.1	3137	4219
1995	133	.014	33.9	44.2	37.9	2250	98.1	77	71	14.5	102.5	.919	.0316	42.7	3731	4185
1996	65	.008	32.3	42.5	36.2	2322	99.8	84	80	13.5	106.2	.951	.0346	42.0	3617	4195

PERCENT OF A-3:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1978	3.9				3.2		3.2	96.3	.5	31.2	40.6	28.2	93.4	1.9	4.6
1979	5.6				3.0		3.0	95.1	1.9	31.4	38.5	30.2	94.1	1.7	4.2
1980	29.3	.8			4.8	.9	3.9	92.9	2.3	43.9	43.9	12.2	85.5	2.9	11.7
1981	56.9				11.0	5.1	5.9	87.1	1.8	51.2	45.6	3.2	81.3	3.8	14.8
1982	76.5				9.0	.1	8.9	89.3	1.8	67.8	32.2	.1	57.7	8.6	33.8
1983	76.1	5.6	5.6		14.1	7.1	7.0	84.9	1.0	54.9	45.0	.1	73.4	7.2	19.5
1984	94.0	.4			25.3	12.2	13.1	74.3	.4	66.7	33.2	.1	84.1	9.0	6.9
1985	92.8	1.1			52.9	34.9	18.0	47.0	.1	65.1	34.9		83.7	8.2	8.1
1986	92.0	1.8			65.3	42.7	22.6	34.7		65.6	34.3	.1	76.4	8.7	14.9
1987	96.0	2.4	.2		79.0	56.9	22.2	21.0		70.9	29.1		81.9	7.8	10.4
1988	96.9	1.7			91.6	37.3	54.3	8.4		90.7	9.3		71.8	10.3	17.9
1989	95.9	2.8			95.1	30.3	64.8	4.9		91.6	8.4		73.8	9.0	17.3
1990	97.9	1.0			100.0	26.4	73.6			96.6	3.4		78.4	10.3	11.3
1991	97.8	1.2			100.0	20.4	79.6			99.6	.4		65.6	9.7	24.7
1992	97.8	1.6			100.0	22.6	77.4			100.0			67.2	6.2	26.6
1993	99.4	.6			100.0	14.6	85.4			100.0			73.9	1.7	24.4
1994	99.7	.3			100.0	17.2	82.8			100.0			69.3	.8	30.0
1995	100.0				100.0	56.3	43.7			100.0					100.0
1996	100.0				100.0		100.0			100.0					100.0

TABLE F-6: CHARACTERISTICS OF 1978 TO 1996 PASSENGER CARS BY TRANSMISSION TYPE A-4

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1978	42	.004	19.6	25.6	22.0	3589	102.4	167	105	15.8	105.3	.632	.0298	40.5	2306	4140
1979	57	.005	20.5	26.5	22.8	3567	100.6	168	102	16.2	104.3	.609	.0291	42.0	2361	4278
1980	57	.006	22.5	27.6	24.5	3477	101.0	169	95	16.6	102.6	.569	.0280	43.4	2511	4438
1981	135	.016	23.2	30.6	26.0	3277	94.6	165	105	14.6	107.3	.635	.0322	43.1	2514	4124
1982	230	.029	21.3	29.6	24.4	3456	107.6	194	114	14.0	109.2	.624	.0332	42.7	2650	4596
1983	183	.023	24.1	31.8	27.1	3325	99.1	156	112	13.9	109.4	.723	.0338	45.6	2743	4556
1984	206	.019	22.4	30.5	25.4	3376	99.5	166	127	12.8	114.7	.775	.0377	43.6	2592	4368
1985	200	.019	22.0	29.2	24.7	3408	100.5	168	129	12.6	115.2	.790	.0381	42.7	2547	4308
1986	154	.014	20.0	27.1	22.6	3514	105.6	191	158	11.3	123.8	.852	.0443	40.3	2484	4304
1987	181	.017	20.3	27.7	23.1	3519	105.9	190	161	11.0	124.9	.871	.0452	41.3	2538	4422
1988	142	.013	19.7	27.2	22.5	3504	104.6	188	161	11.0	125.2	.886	.0455	39.7	2422	4184
1989	147	.015	19.5	27.4	22.4	3546	106.6	184	163	10.9	125.5	.912	.0455	40.0	2441	4287
1990	117	.013	19.7	27.9	22.7	3652	110.1	175	160	11.5	123.3	.926	.0434	41.6	2533	4583
1991	131	.015	19.9	28.7	23.1	3662	106.2	177	167	11.1	125.7	.970	.0453	42.6	2502	4533
1992	100	.012	19.6	28.8	22.9	3757	107.3	182	181	10.9	128.9	.986	.0472	43.3	2514	4654
1993	83	.010	20.2	29.7	23.6	3853	109.5	186	186	10.9	129.6	.991	.0474	45.6	2620	4996
1994	64	.008	20.1	30.2	23.7	3934	105.9	200	219	9.4	140.0	1.102	.0551	46.7	2546	4951
1995	98	.011	20.5	31.0	24.2	3964	105.6	199	221	9.4	140.0	1.124	.0551	48.2	2599	5097
1996	66	.008	21.9	34.3	26.2	3736	106.3	172	184	10.4	130.7	1.071	.0489	49.0	2792	5210

PERCENT OF A-4:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1978					15.1		15.1	36.6	48.3	100.0				64.7	35.3
1979					23.5		23.5	20.3	56.1	95.6	4.4			62.6	37.4
1980					39.8		39.8		60.2	94.4	5.6			63.6	36.4
1981					32.1		32.1	41.4	26.5	96.9	3.1			35.8	64.2
1982					57.1	24.5	32.7	23.5	19.4	70.1	5.4	24.5	24.5	36.6	38.9
1983	10.1	4.2	4.2		59.5		59.5	13.0	27.5	85.6	14.4			65.7	34.3
1984			2.0		80.0		80.0		20.0	82.5	17.5			79.7	20.3
1985					82.3		82.3		17.7	70.5	29.5			80.9	19.1
1986					95.8		95.8		4.2	57.3	42.7		1.6	96.3	2.0
1987					87.1		87.1		12.9	57.3	42.7			99.9	.1
1988	5.9				99.5		99.5		.5	64.2	35.8			94.1	5.9
1989	4.0				99.8		99.8		.2	64.0	36.0			96.0	4.0
1990	7.5	.4			98.3		98.3		1.7	55.4	44.6			92.5	7.5
1991	11.3	5.1			95.4		95.4		4.6	60.1	39.9			84.5	15.5
1992	10.4	5.0			96.0		96.0		4.0	62.8	26.8	10.4		86.8	13.2
1993	10.8	.9			100.0		100.0			59.4	27.6	12.9		89.1	10.9
1994	2.3				100.0		100.0			70.3	19.5	10.2		97.7	2.3
1995	10.3				99.6		99.6		.4	69.6	12.7	17.8		100.0	
1996	12.4				100.0		100.0			87.6	8.4	4.0		100.0	

TABLE F-7: CHARACTERISTICS OF 1978 TO 1996 PASSENGER CARS BY TRANSMISSION TYPE A-5

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1990	2	.000	18.1	28.1	21.5	4000	50.0	181	228	9.0	142.7	1.260	.0570	43.1	1077	2154
1991	3	.000	18.2	29.2	21.9	4000	50.0	181	228	8.9	142.7	1.260	.0570	43.8	1094	2188
1992	6	.001	17.0	25.9	20.1	4372	104.8	191	228	9.6	138.3	1.192	.0523	43.9	2078	4605
1993	6	.001	16.7	25.2	19.7	4941	114.6	193	228	10.6	132.6	1.180	.0462	48.6	2240	5568
1994	5	.001	18.8	30.9	22.8	4853	102.1	195	217	10.9	130.3	1.113	.0448	55.3	2320	5715
1995	13	.001	19.0	31.2	23.1	4500	108.2	195	217	10.2	133.5	1.113	.0482	51.9	2495	5613
1996	27	.003	17.7	29.3	21.5	4742	103.8	257	275	9.0	148.0	1.074	.0578	51.0	2233	5325

PERCENT OF A-5:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1990					100.0		100.0			100.0				100.0	
1991					100.0		100.0			100.0				100.0	
1992					100.0		100.0			25.6		74.4		100.0	
1993					100.0		100.0			11.8		88.2		100.0	
1994					100.0		100.0			29.3		70.7		100.0	
1995					100.0		100.0			21.1		78.9		100.0	
1996					100.0		100.0			33.9		66.1		100.0	

TABLE F-8: CHARACTERISTICS OF 1978 TO 1996 PASSENGER CARS BY TRANSMISSION TYPE

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1978	749	.067	14.7	21.6	17.2	4133	114.8	311	146	13.3	114.5	.471	.0352	35.6	1994	4088
1979	869	.080	16.0	22.9	18.5	3821	116.0	301	142	12.8	116.0	.472	.0373	35.5	2161	4115
1980	1339	.142	17.1	24.9	19.9	3759	117.5	270	120	14.5	109.1	.449	.0322	37.8	2369	4487
1981	2261	.259	19.3	27.9	22.4	3641	115.3	253	115	14.6	108.0	.466	.0317	41.2	2621	4790
1982	3031	.388	20.8	30.8	24.4	3265	111.6	204	105	14.4	107.4	.549	.0322	40.1	2764	4497
1983	2832	.354	20.9	30.8	24.4	3235	112.1	202	108	14.0	108.4	.563	.0331	39.7	2780	4457
1984	3927	.368	21.8	32.1	25.5	3184	111.1	190	106	14.0	108.4	.594	.0332	40.7	2868	4522
1985	3203	.297	22.9	33.9	26.8	3104	109.6	179	104	13.9	108.1	.611	.0333	41.7	2983	4585
1986	2990	.271	23.7	34.9	27.7	3022	107.5	167	100	14.0	107.5	.633	.0331	41.9	3015	4518
1987	2679	.250	25.0	36.4	29.1	2925	107.0	151	99	13.9	107.7	.684	.0335	42.6	3143	4568
1988	3027	.282	25.6	37.3	29.8	2866	105.8	140	101	13.5	109.3	.736	.0350	42.8	3179	4538
1989	2467	.246	25.7	37.7	30.0	2865	104.8	138	105	13.1	111.0	.775	.0365	43.0	3155	4511
1990	1980	.225	25.4	37.6	29.7	2913	104.1	139	111	12.7	112.9	.814	.0379	43.3	3102	4512
1991	1765	.207	24.8	37.1	29.1	2918	104.1	144	114	12.4	114.1	.806	.0389	42.6	3041	4431
1992	1634	.202	24.1	36.7	28.5	3003	104.0	151	123	11.9	116.9	.833	.0409	42.8	2976	4458
1993	1421	.168	24.0	36.8	28.4	3020	105.0	158	125	11.8	117.6	.808	.0414	43.0	2997	4517
1994	899	.107	25.8	38.0	30.2	2901	102.2	132	110	12.5	112.9	.852	.0380	43.8	3094	4482
1995	613	.066	28.1	40.1	32.5	2769	102.1	120	122	11.2	119.4	1.026	.0440	45.1	3332	4600
1996	483	.056	28.0	40.4	32.5	2812	101.4	118	116	11.8	116.3	.985	.0412	45.6	3296	4627

PERCENT OF L-3:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1978				100.0				100.0		32.3	60.9	6.8	100.0		
1979				100.0				100.0			84.3	15.7	100.0		
1980	2.0			100.0				91.7	8.3	16.0	59.7	24.3	100.0		
1981		.7		100.0	.3	.3		87.8	11.9	15.6	67.6	16.9	96.8		3.2
1982	33.0	.7		100.0	17.7	15.7	2.0	77.1	5.2	36.5	56.7	6.8	96.3		3.7
1983	41.4	1.3		100.0	22.8	21.8	1.0	75.8	1.4	33.9	57.7	8.4	93.1		6.9
1984	51.2	1.0		100.0	37.5	31.0	6.5	61.8	.7	38.4	53.8	7.8	93.2		6.8
1985	59.5	1.3	1.3	100.0	56.2	49.2	7.0	43.7	.1	44.4	54.2	1.3	88.8		11.2
1986	72.1			100.0	71.5	61.8	9.7	28.5		56.7	42.1	1.2	87.4		12.6
1987	88.4			100.0	70.6	56.2	14.4	29.4		56.3	43.0	.8	76.8		23.2
1988	97.7			100.0	84.1	58.8	25.3	15.9		71.4	28.6		77.5		22.5
1989	99.2	.1		100.0	88.1	60.3	27.8	11.9		69.1	30.9		78.8		21.2
1990	99.9	.1		100.0	98.1	56.0	42.1	1.9		69.6	30.4		74.6		25.4
1991	100.0			100.0	100.0	56.8	43.2			66.6	33.4		79.6		20.4
1992	100.0			100.0	100.0	20.8	79.2			71.7	28.3		80.0		20.0
1993	100.0			100.0	100.0	19.6	80.4			72.4	27.6		89.8		10.2
1994	100.0			100.0	100.0	21.7	78.3			83.5	16.5		79.9		20.1
1995	100.0			100.0	100.0	4.5	95.5			92.1	7.9		71.3		28.7
1996	100.0			100.0	100.0		100.0			99.5	.5		68.7		31.3

TABLE F-9: CHARACTERISTICS OF 1978 TO 1996 PASSENGER CARS BY TRANSMISSION TYPE

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1980	219	.023	16.1	25.6	19.3	3975	128.1	321	140	13.1	114.2	.438	.0356	38.3	2472	4934
1981	650	.074	16.4	26.3	19.8	4001	132.8	297	140	13.3	113.7	.472	.0351	39.6	2626	5269
1982	986	.126	16.8	26.8	20.2	4016	128.3	288	141	13.4	114.0	.495	.0352	40.8	2602	5255
1983	1708	.213	17.8	28.3	21.4	3823	123.3	267	134	13.3	113.3	.523	.0352	41.0	2654	5067
1984	2295	.215	18.3	28.9	21.9	3736	118.3	261	134	13.1	113.8	.542	.0360	41.0	2614	4881
1985	3127	.290	19.3	30.7	23.1	3633	119.4	247	137	12.7	115.8	.583	.0378	42.1	2785	5049
1986	3400	.309	20.7	33.5	25.0	3478	117.2	223	138	12.2	117.4	.652	.0395	43.5	2946	5116
1987	3702	.345	21.0	33.7	25.3	3445	115.1	212	138	12.1	117.8	.693	.0399	43.6	2927	5031
1988	4069	.379	21.4	34.4	25.8	3464	115.4	210	141	11.9	118.6	.714	.0405	44.7	2991	5176
1989	4475	.447	21.3	34.4	25.7	3442	114.9	202	141	11.9	119.1	.741	.0410	44.3	2966	5105
1990	4441	.504	21.4	34.5	25.8	3466	113.4	193	144	11.7	120.0	.790	.0416	44.8	2943	5090
1991	4503	.528	21.9	35.0	26.4	3407	112.9	189	148	11.4	121.6	.823	.0431	44.9	3000	5088
1992	4559	.562	21.5	35.0	26.1	3491	114.5	195	156	11.2	123.6	.841	.0443	45.5	3004	5226
1993	5077	.600	22.4	35.9	26.9	3407	113.3	184	150	11.3	122.3	.853	.0436	45.9	3079	5214
1994	5748	.684	22.1	35.7	26.7	3420	112.2	185	154	11.1	123.7	.865	.0446	45.7	3020	5136
1995	6891	.740	22.4	36.6	27.1	3400	111.6	182	161	10.7	126.5	.916	.0469	46.1	3052	5157
1996	6590	.760	22.6	36.9	27.4	3398	111.5	179	164	10.6	127.5	.942	.0477	46.6	3077	5202

PERCENT OF L-4:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1980				100.0	8.9	8.9		91.1			31.7	68.3	100.0		
1981				100.0	10.4	10.4		89.6			10.1	89.9	100.0		
1982	14.8			100.0	22.0	19.7	2.3	73.4	4.6	4.8	22.6	72.5	97.7		2.3
1983	17.5			100.0	43.6	37.0	6.6	54.5	1.9	24.6	18.6	56.8	87.7	.1	12.2
1984	18.2			100.0	50.2	35.8	14.5	49.0	.8	35.0	16.8	48.2	84.3	.2	15.5
1985	42.4	1.3	1.3	100.0	59.9	31.5	28.5	39.6	.5	27.9	20.5	51.6	82.7	1.5	15.8
1986	57.3			100.0	69.0	6.7	62.3	30.9	.1	29.1	31.4	39.5	79.2	2.6	18.3
1987	62.2			100.0	81.2	11.6	69.6	18.8		41.2	24.2	34.5	70.4	2.2	27.3
1988	66.4	.1		100.0	89.6	9.7	79.9	10.4		34.2	32.1	33.7	72.1	4.2	23.7
1989	72.0	.3		100.0	95.0	10.8	84.2	5.0		29.5	40.4	30.1	70.0	3.6	26.4
1990	78.2	.8		100.0	99.2	4.0	95.2	.8		35.1	39.7	25.3	63.0	3.2	33.8
1991	76.9	1.2		100.0	100.0	8.1	91.9			43.3	33.6	23.1	62.3	2.7	34.9
1992	72.5	.7		100.0	100.0	5.2	94.8			35.2	37.4	27.4	62.7	2.5	34.8
1993	80.2	1.3		100.0	100.0	3.7	96.3			38.6	39.7	21.7	62.1	2.4	35.5
1994	81.6	.6		100.0	100.0	1.0	99.0			43.3	34.5	22.3	60.3	2.8	36.9
1995	79.0	2.4		100.0	100.0		100.0			45.6	34.4	20.1	63.3	5.1	31.6
1996	86.2	.8		100.0	100.0		100.0			43.4	37.1	19.5	63.4	5.4	31.2

TABLE F-10: CHARACTERISTICS OF 1978 TO 1996 PASSENGER CARS BY TRANSMISSION TYPE. L-5

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1993	9	.001	17.0	28.2	20.7	4249	116.2	243	280	8.0	156.2	1.152	.0661	43.9	2402	5105
1994	22	.003	17.8	30.2	21.8	4011	110.0	222	258	8.2	152.4	1.164	.0643	43.8	2400	4810
1995	37	.004	18.8	31.6	23.0	4161	107.2	226	267	8.2	153.1	1.188	.0643	47.7	2458	5129
1996	33	.004	19.0	31.0	23.0	4093	111.7	228	241	8.9	144.9	1.061	.0581	47.1	2580	5287

PERCENT OF L-5:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1993				100.0	100.0		100.0				100.0			100.0	
1994				100.0	100.0		100.0			56.8	43.2			100.0	
1995				100.0	100.0		100.0			48.7	51.3			100.0	
1996	26.7	6.3		100.0	100.0		100.0			35.4	15.6	49.0		84.4	15.6

TABLE F-11: CHARACTERISTICS OF 1979 TO 1996 LIGHT-DUTY TRUCKS BY TRANSMISSION TYPE

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1979	353	.114	15.8	19.9	17.4	3975		272	125	14.1	109.3	.464	.0319	34.9
1980	316	.169	15.5	20.7	17.5	4303		292	135	14.3	109.7	.463	.0313	37.9
1981	250	.138	17.0	22.6	19.1	4150		285	127	14.5	108.4	.450	.0307	39.9
1982	172	.090	16.7	21.9	18.7	4176		289	128	14.5	108.5	.444	.0307	39.3
1983	144	.063	16.8	22.2	18.9	4290		295	129	14.7	108.1	.437	.0301	40.7
1984	104	.031	17.3	23.4	19.6	4266		289	128	14.7	107.9	.444	.0300	42.0
1985	184	.050	16.3	21.3	18.2	4369		302	142	14.2	111.5	.471	.0325	40.2
1986	184	.042	16.5	21.5	18.4	4350		299	137	14.2	110.2	.461	.0316	40.3
1987	127	.031	15.9	20.5	17.7	4482		303	156	13.2	115.1	.514	.0349	39.7
1988	70	.015	15.9	20.8	17.8	4489		312	165	12.6	117.9	.529	.0368	40.1
1989	75	.017	15.8	20.4	17.6	4581		308	158	13.3	114.9	.512	.0345	40.7
1990	28	.007	14.6	19.7	16.6	4690		317	170	12.8	117.8	.535	.0362	39.4
1991	15	.004	14.9	19.8	16.8	4657		315	172	12.6	118.8	.547	.0370	39.6
1992	23	.006	18.0	24.6	20.5	3713		254	182	10.1	131.5	.728	.0500	37.9
1993	3	.001	17.0	21.4	18.7	4555		300	159	13.1	115.4	.528	.0349	42.8

PERCENT OF M-3:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1979		29.3	100.0					100.0		21.5	78.5	100.0	
1980		32.4	100.0					99.9	.1		100.0	100.0	
1981	.5	25.5	100.0					100.0			100.0	100.0	
1982		33.8	100.0					100.0			100.0	100.0	
1983		41.9	100.0					100.0			100.0	100.0	
1984		22.9	100.0					98.9	1.1		100.0	100.0	
1985		55.3	100.0		5.6			93.9	.6		100.0	100.0	
1986		52.2	100.0		18.3		18.3	81.4	.3		100.0	100.0	
1987		56.7	100.0		93.4	23.6	69.8	6.4	.2		100.0	100.0	
1988		51.5	100.0		97.4	44.2	53.2	1.6	1.0		100.0	100.0	
1989		57.6	100.0		99.4	26.0	73.4		.6		100.0	100.0	
1990		68.6	100.0		98.8	58.2	40.6		1.2		100.0	100.0	
1991		63.5	100.0		98.3	55.8	42.5		1.7	2.5	97.5	100.0	
1992		91.0	100.0		100.0		100.0			79.9	20.1	100.0	
1993		56.4	100.0		100.0		100.0				100.0	100.0	

TABLE F-12: CHARACTERISTICS OF 1978 TO 1996 LIGHT-DUTY TRUCKS BY TRANSMISSION TYPE M-4

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1979	608	.197	15.4	20.2	17.1	3818		231	121	14.4	108.1	.577	.0313	33.3
1980	472	.253	19.6	26.6	22.2	3173		168	93	15.1	103.4	.608	.0293	35.8
1981	436	.239	20.6	28.4	23.5	3319		198	99	14.9	104.5	.548	.0298	39.4
1982	392	.205	21.4	29.7	24.5	3271		188	101	14.6	105.9	.579	.0312	40.4
1983	491	.213	22.1	30.5	25.2	3135		168	94	14.8	104.3	.590	.0302	39.9
1984	592	.177	19.7	27.0	22.4	3469		194	101	15.1	104.5	.562	.0295	39.3
1985	405	.110	22.1	30.8	25.3	3238		177	101	14.7	106.1	.609	.0313	41.4
1986	338	.078	22.6	31.3	25.8	3268		182	105	14.0	107.4	.615	.0324	42.6
1987	307	.074	22.1	30.8	25.3	3300		183	110	13.7	108.8	.628	.0333	42.3
1988	114	.025	23.4	30.2	26.0	2977		147	106	12.8	110.6	.722	.0358	38.8
1989	60	.013	22.8	29.5	25.4	3002		157	107	12.8	110.8	.696	.0361	37.9
1990	54	.014	22.9	30.2	25.7	3053		155	109	12.9	111.1	.719	.0362	39.1
1991	5	.001	17.6	24.6	20.2	4273		242	140	14.0	111.7	.612	.0330	42.8
1992	61	.015	16.7	25.0	19.7	4097		268	168	11.7	122.4	.631	.0416	40.3
1993	24	.005	15.2	22.0	17.7	4813		313	190	12.0	122.6	.606	.0394	42.9
1994	17	.003	15.1	21.4	17.4	4946		326	198	11.8	123.9	.609	.0400	43.4

PERCENT OF M-4:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1979		30.5	100.0		1.1			98.7	.2	48.1	51.9	51.9	48.1
1980	4.4	36.0	100.0		5.3			91.9	2.8	63.5	36.5	33.9	66.1
1981	4.4	29.2	100.0		3.2			92.8	4.0	54.9	45.1	49.6	50.4
1982	4.0	20.3	100.0		2.3			90.9	6.8	63.6	36.4	63.4	36.6
1983	.9	22.9	100.0		2.2			94.8	3.0	82.2	17.8	74.3	25.7
1984	1.8	34.4	100.0		2.7			95.8	1.5	58.1	41.9	75.8	24.2
1985	.8	20.5	100.0		21.6			77.8	.6	71.3	28.7	61.6	38.4
1986	.3	14.6	100.0		37.7	31.7	6.0	61.8	.4	68.7	31.3	58.6	41.4
1987		11.3	100.0		65.3	41.8	23.5	34.5	.2	67.2	32.8	65.0	35.0
1988		1.6	100.0		43.9	39.0	4.9	56.0		85.7	14.3	12.4	87.6
1989		6.3	100.0		22.7	13.5	9.2	77.3	.1	83.5	16.5	16.5	83.5
1990		5.5	94.0		42.3	4.6	37.7	57.7		6.4	93.6	9.6	90.4
1991		62.0	97.7		83.5	15.6	68.0	16.3	.1	6.0	94.0	77.7	22.3
1992		51.7	100.0		99.4	31.1	68.3		.6	36.4	63.6	100.0	
1993		67.6	100.0		100.0	80.3	19.7				100.0	100.0	
1994		74.7	100.0		100.0	88.6	11.4				100.0	100.0	

TABLE F-13: CHARACTERISTICS OF 1978 TO 1996 LIGHT-DUTY TRUCKS BY TRANSMISSION TYPE

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1979	124	.040	19.5	28.4	22.7	2810		132	89	14.2	105.1	.675	.0318	32.6
1980	200	.107	22.2	31.1	25.5	2788		129	91	13.9	106.0	.704	.0326	35.9
1981	254	.139	25.3	34.5	28.7	2867		134	85	15.2	103.0	.632	.0298	42.0
1982	309	.161	24.3	33.1	27.6	2959		143	89	15.1	103.7	.627	.0301	41.8
1983	421	.183	23.0	32.2	26.4	3098		149	96	14.5	105.3	.651	.0311	41.5
1984	712	.213	22.8	32.0	26.2	3141		145	94	14.8	104.2	.651	.0300	41.5
1985	773	.211	22.3	31.3	25.6	3200		149	100	14.5	106.3	.678	.0316	41.2
1986	1333	.306	22.4	31.2	25.7	3198		144	102	14.1	106.9	.709	.0320	41.2
1987	1214	.294	22.3	31.2	25.6	3176		150	105	13.9	108.0	.707	.0330	40.7
1988	1434	.315	21.2	30.0	24.4	3374		176	115	13.6	109.9	.678	.0339	41.4
1989	1314	.296	20.4	28.8	23.5	3517		187	123	13.2	111.6	.686	.0349	41.5
1990	991	.260	20.4	28.7	23.5	3532		188	129	12.8	113.7	.718	.0364	41.7
1991	1236	.305	20.8	29.4	23.9	3500		185	129	12.7	114.1	.719	.0368	42.0
1992	1026	.253	20.3	29.0	23.5	3603		189	130	12.8	113.7	.720	.0363	42.5
1993	1081	.227	20.5	29.3	23.7	3569		187	134	12.5	115.3	.741	.0376	42.5
1994	1291	.235	20.6	29.1	23.7	3640		185	136	12.6	115.3	.759	.0373	43.5
1995	1190	.202	20.2	28.7	23.3	3727		191	140	12.5	116.0	.775	.0377	44.1
1996	955	.162	20.3	29.1	23.5	3809		197	150	12.1	118.7	.799	.0395	45.0

PERCENT OF M-5:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1979			100.0					100.0		100.0			100.0
1980	2.1	3.8	100.0		.8			97.9	1.3	100.0			100.0
1981	6.5	19.5	100.0		1.7			73.3	25.0	87.9	12.1		100.0
1982	2.9	29.6	100.0		.6			77.8	21.6	83.8	16.2	10.8	89.2
1983	3.1	36.3	100.0		.1			93.1	6.8	85.7	14.3	24.0	76.0
1984	5.0	36.7	100.0		3.8			92.8	3.4	79.3	20.7	32.7	67.3
1985	3.8	43.9	100.0		19.6			78.8	1.6	78.3	21.7	44.8	55.2
1986	1.6	41.2	100.0		41.1	19.8	21.3	57.7	1.1	82.6	17.4	29.5	70.5
1987	1.4	44.8	100.0		46.6	20.0	26.6	53.1	.3	82.0	18.0	37.1	62.9
1988	.9	42.8	100.0		71.4	24.6	46.8	28.6		70.2	29.8	60.9	39.1
1989	.9	38.5	100.0		85.8	36.0	49.9	14.2		65.2	34.8	60.5	39.5
1990	1.1	40.0	100.0		90.6	25.2	65.4	9.4		58.8	41.2	55.2	44.8
1991	.1	33.0	100.0		95.5	35.8	59.7	4.5		63.7	36.3	61.2	38.8
1992	1.3	31.5	100.0		94.2	30.2	64.0	5.8		66.3	33.7	58.8	41.2
1993	1.0	33.7	100.0		96.1	20.2	75.9	3.9		39.8	60.2	62.0	38.0
1994	.7	34.5	100.0		98.4	10.2	88.2	1.6		34.8	65.2	63.9	36.1
1995	.2	36.6	100.0		100.0	9.8	90.2			50.2	49.8	62.8	37.2
1996	.2	35.2	100.0		100.0		100.0			38.3	61.7	66.2	33.8

TABLE F-14: CHARACTERISTICS OF 1978 TO 1996 LIGHT-DUTY TRUCKS BY TRANSMISSION TYPE A-3

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1979	1939	.628	12.3	15.2	13.5	4534		334	149	14.3	112.6	.450	.0330	31.1
1980	418	.224	14.6	18.8	16.3	4162		292	132	14.5	109.9	.472	.0318	34.1
1981	309	.170	15.1	19.6	16.9	4165		296	128	14.8	108.5	.446	.0308	35.3
1982	361	.189	14.8	18.9	16.4	4186		298	131	14.5	109.5	.451	.0315	34.5
1983	396	.172	15.3	19.8	17.0	3946		270	122	14.7	108.1	.477	.0310	34.0
1984	734	.219	15.3	20.2	17.2	3961		259	128	14.4	109.9	.522	.0322	34.5
1985	721	.197	15.6	20.3	17.4	4039		265	139	13.8	112.6	.549	.0340	35.8
1986	618	.142	16.9	22.2	18.9	3982		248	130	14.3	110.3	.555	.0325	38.3
1987	545	.132	15.8	20.8	17.7	4233		272	146	13.7	113.5	.553	.0342	38.0
1988	460	.101	15.6	20.6	17.5	4352		285	155	13.4	115.3	.551	.0353	38.7
1989	423	.095	16.4	21.6	18.4	4143		252	145	13.7	113.7	.610	.0346	39.0
1990	115	.030	15.6	20.0	17.3	4283		294	161	12.8	118.2	.570	.0377	38.0
1991	30	.007	15.3	19.5	17.0	4335		279	151	13.6	115.3	.562	.0357	36.9
1992	29	.007	14.8	18.7	16.3	4605		293	177	12.6	121.6	.611	.0397	37.9
1993	32	.007	15.3	19.5	17.0	4681		287	167	13.3	118.5	.591	.0374	39.6
1994	55	.010	16.8	21.4	18.6	4286		227	149	13.6	114.3	.712	.0349	39.8
1995	26	.005	14.6	18.6	16.2	5026		305	169	14.0	115.6	.551	.0341	40.8
1996	18	.003	13.9	18.3	15.6	4960		309	187	12.9	121.4	.601	.0384	38.7

PERCENT OF A-3:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1979		13.7			.1			97.1	2.8	4.1	95.9	97.1	2.9
1980	.4	23.9			1.0			99.0		15.6	84.4	86.1	13.9
1981		14.9			.7			99.3		10.1	89.9	90.0	10.0
1982	2.0	16.8			.5			99.5		9.8	90.2	93.2	6.8
1983	3.5	19.8			.8			99.1	.2	28.6	71.4	91.2	8.8
1984	14.7	34.4			.7			98.9	.4	38.3	61.7	95.5	4.5
1985	29.9	18.2			1.6			98.3	.1	33.1	66.9	97.0	3.0
1986	35.2	15.5			3.9		3.9	96.1		41.3	58.7	94.4	5.6
1987	22.7	19.4			47.2	20.8	26.3	52.8		26.6	73.4	97.8	2.2
1988	16.5	26.2			92.8	55.3	37.5	7.2		18.7	81.3	99.6	.4
1989	40.1	22.4			94.6	47.0	47.6	5.4		42.9	57.1	99.6	.4
1990	7.6	20.5			87.7	54.0	33.8	12.3		17.0	83.0	96.9	3.1
1991		35.8			87.6		87.6	12.4		32.3	67.7	91.2	8.8
1992		20.9			100.0		100.0			20.9	79.1	100.0	
1993		25.8			100.0		100.0			25.0	75.0	100.0	
1994					100.0		100.0			46.0	54.0	100.0	
1995					100.0		100.0				100.0	100.0	
1996					100.0		100.0				100.0	100.0	

TABLE F-15: CHARACTERISTICS OF 1978 TO 1996 LIGHT-DUTY TRUCKS BY TRANSMISSION TYPE A-4

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1981	6	.003	23.8	30.6	26.5	2750		144	98	13.1	109.4	.681	.0356	36.4
1982	42	.022	16.9	24.6	19.6	3715		262	131	13.2	112.9	.525	.0353	36.4
1983	9	.004	24.5	29.7	26.6	2788		144	99	13.1	109.3	.685	.0354	37.0
1984	27	.008	22.9	27.0	24.6	2809		144	100	13.1	109.6	.694	.0356	34.6
1985	38	.010	23.3	27.8	25.1	3018		144	107	13.2	110.3	.741	.0354	38.1
1986	47	.011	21.9	25.5	23.4	3133		144	107	13.4	109.7	.745	.0346	37.0
1987	87	.021	22.9	28.4	25.1	3120		144	104	13.8	108.3	.721	.0335	39.5
1988	60	.013	22.1	26.8	24.0	3160		144	109	13.5	109.8	.757	.0346	38.3
1989	44	.010	22.7	28.4	25.0	3229		149	116	13.0	112.0	.777	.0361	40.6
1990	51	.014	14.7	20.0	16.7	4299		283	161	12.6	117.9	.603	.0375	36.7
1991	35	.009	16.7	21.9	18.7	3908		238	144	12.7	115.6	.653	.0370	37.2
1992	17	.004	20.7	26.4	22.9	3277		176	126	12.4	114.7	.747	.0381	38.3
1993	16	.003	23.5	30.7	26.3	3000		144	112	12.6	112.6	.778	.0373	39.4
1994	25	.005	23.5	30.7	26.3	3000		144	112	12.6	112.6	.778	.0373	39.4
1995	21	.004	24.3	31.7	27.2	3000		147	131	11.2	120.3	.891	.0438	40.8
1996	13	.002	24.0	32.1	27.1	3000		149	142	10.4	124.6	.953	.0473	40.6

PERCENT OF A-4:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1981								100.0		100.0			100.0
1982	1.1							100.0		25.4	74.6	74.6	25.4
1983								100.0		100.0			100.0
1984					17.1			82.9			100.0		100.0
1985					28.4			71.6		84.9	15.1		100.0
1986					33.5		33.5	66.5		74.3	25.7		100.0
1987		21.7			8.0		8.0	92.0		88.3	11.7		100.0
1988		18.7			47.6		47.6	52.4		85.4	14.6		100.0
1989		24.8			69.9		69.9	30.1		96.2	3.8		100.0
1990		37.4			100.0	74.0	26.0			2.3	97.7	74.0	26.0
1991		29.9			100.0	50.9	49.1			.9	99.1	50.9	49.1
1992		5.7			100.0	13.1	86.9				100.0	15.1	84.9
1993					100.0		100.0				100.0		100.0
1994					100.0		100.0				100.0		100.0
1995					100.0		100.0			64.4	35.6		100.0
1996					100.0		100.0			100.0			100.0

TABLE F-16: CHARACTERISTICS OF 1978 TO 1996 LIGHT-DUTY TRUCKS BY TRANSMISSION TYPE

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1979	64	.021	13.8	17.5	15.2	4141		297	135	14.3	110.9	.453	.0326	31.8
1980	457	.246	14.7	19.7	16.6	4491		313	144	14.4	111.3	.462	.0321	37.9
1981	513	.282	15.8	21.2	17.9	4288		292	140	14.1	111.5	.481	.0327	38.5
1982	443	.231	16.9	22.9	19.2	3973		262	134	13.8	111.9	.522	.0338	38.0
1983	171	.074	16.3	22.1	18.5	4112		277	132	14.7	110.1	.477	.0320	38.3
1984	346	.103	16.6	22.3	18.8	4058		258	130	14.4	109.9	.517	.0320	38.0
1985	447	.122	16.0	21.0	17.9	4151		265	142	13.7	113.0	.548	.0340	37.2
1986	472	.109	16.2	21.2	18.1	4129		264	141	13.7	112.8	.552	.0340	37.5
1987	386	.093	18.4	25.2	21.0	3786		223	133	13.3	113.4	.633	.0355	40.0
1988	471	.103	18.9	27.2	21.9	3854		206	139	13.0	114.7	.705	.0362	42.5
1989	168	.038	18.7	25.3	21.2	3721		207	127	13.7	111.6	.662	.0343	39.5
1990	346	.091	20.1	28.1	23.1	3756		187	124	14.1	110.1	.675	.0330	43.7
1991	285	.070	20.3	27.3	22.9	3810		180	120	14.6	108.4	.679	.0314	44.1
1992	296	.073	20.8	28.4	23.6	3817		175	124	14.2	109.8	.718	.0325	45.5
1993	315	.066	21.1	29.4	24.2	3579		174	127	13.3	113.0	.736	.0357	43.4
1994	265	.048	20.8	28.8	23.8	3612		175	132	13.1	114.1	.758	.0364	43.1
1995	285	.049	21.2	29.4	24.2	3543		176	133	12.8	115.1	.762	.0375	43.2
1996	272	.046	20.4	30.3	23.9	4016		183	146	13.0	115.4	.804	.0362	48.2

PERCENT OF L-3:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1979				100.0				100.0			100.0	100.0	
1980		19.0		100.0				89.5	10.5		100.0	100.0	
1981		15.4		100.0				95.8	4.2	.8	99.2	100.0	
1982		9.2		100.0				100.0		21.3	78.7	100.0	
1983		17.2		100.0	.1			99.5	.4	5.3	94.7	97.3	2.7
1984	2.4	15.5		100.0	.1			99.9		21.2	78.8	93.8	6.2
1985	2.5	13.5		100.0	1.3	1.3		98.7		22.4	77.6	91.7	8.3
1986	3.2	16.5		100.0	3.9	3.9		96.1		23.4	76.6	93.2	6.8
1987	43.0	12.2		100.0	46.8	6.5	40.3	53.2		48.4	51.6	88.8	11.2
1988	68.4	2.8		100.0	100.0	31.6	68.4			72.2	27.8	98.2	1.8
1989	41.9	10.3		100.0	100.0	58.1	41.9			52.0	48.0	85.1	14.9
1990	80.2	4.1		100.0	100.0	72.8	27.2			86.5	13.5	95.6	4.4
1991	71.9	5.3		100.0	100.0	69.1	30.9			88.0	12.0	92.8	7.2
1992	81.7	3.3		100.0	100.0	43.7	56.3			93.2	6.8	95.1	4.9
1993	84.2	3.0		100.0	100.0	35.0	65.0			96.0	4.0	95.1	4.9
1994	76.6	11.4		100.0	100.0	33.7	66.3			91.6	8.4	89.5	10.5
1995	76.5	12.8		100.0	100.0	28.6	71.4			92.9	7.1	90.0	10.0
1996	91.2	1.2		100.0	100.0	19.5	80.5			92.4	7.6	98.8	1.2

TABLE F-17: CHARACTERISTICS OF 1978 TO 1996 LIGHT-DUTY TRUCKS BY TRANSMISSION TYPE L-4

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1981	53	.029	15.3	23.1	18.0	4030		302	142	13.2	114.1	.470	.0353	36.3
1982	193	.101	17.3	24.5	20.0	4841		327	148	15.0	110.9	.459	.0312	49.2
1983	660	.287	16.9	24.2	19.5	4343		280	141	14.2	111.5	.519	.0326	42.8
1984	829	.248	16.9	24.7	19.7	4253		263	134	14.6	109.8	.532	.0315	42.1
1985	1100	.300	17.4	25.8	20.4	4044		238	130	14.3	110.0	.567	.0322	41.3
1986	1357	.312	17.4	25.4	20.2	4075		240	138	13.7	112.6	.606	.0341	41.3
1987	1465	.354	17.5	26.0	20.5	3999		235	151	12.7	117.1	.666	.0377	41.0
1988	1949	.428	17.0	25.2	19.9	4110		260	160	12.3	119.3	.637	.0391	40.9
1989	2351	.530	17.2	25.3	20.1	4136		260	162	12.3	119.8	.643	.0394	41.8
1990	2219	.583	16.8	25.0	19.7	4249		263	165	12.3	120.0	.651	.0391	42.0
1991	2443	.603	17.1	25.5	20.1	4182		254	164	12.2	120.0	.665	.0393	42.2
1992	2610	.642	16.8	25.1	19.7	4262		257	167	12.2	120.4	.669	.0394	42.2
1993	3284	.691	17.0	25.6	20.0	4280		257	174	11.8	122.6	.699	.0410	43.0
1994	3827	.698	16.9	25.1	19.8	4338		264	179	11.7	123.4	.697	.0414	43.1
1995	4343	.739	16.5	25.0	19.5	4400		263	177	11.9	122.4	.694	.0405	43.2
1996	4627	.786	16.8	25.3	19.8	4400		264	189	11.4	125.9	.730	.0431	43.6

PERCENT OF L-4:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1981				100.0				100.0			100.0	100.0	
1982		27.4		100.0				55.7	44.3		100.0	100.0	
1983		23.4		100.0				90.4	9.6	22.7	77.3	100.0	
1984		29.1		100.0	4.0			91.1	4.9	33.2	66.8	96.0	4.0
1985		37.0		100.0	15.6			82.3	2.1	53.4	46.6	95.4	4.6
1986		33.1		100.0	73.4	31.2	42.1	25.6	1.1	54.4	45.6	92.6	7.4
1987		32.6		100.0	97.8	57.9	39.9	1.7	.5	64.1	35.9	91.2	8.8
1988		37.0		100.0	99.1	61.3	37.8	.5	.4	52.6	47.4	93.2	6.8
1989	8.0	31.6		100.0	99.2	56.0	43.2	.5	.3	55.1	44.9	93.2	6.8
1990	13.2	32.2		100.0	99.3	42.0	57.4	.4	.3	50.7	49.3	89.9	10.1
1991	7.7	39.8		100.0	99.5	44.4	55.2	.3	.2	63.9	36.1	87.7	12.3
1992	11.5	33.8	.3	100.0	99.8	33.0	66.8	.1	.1	67.2	32.8	89.6	10.4
1993	13.5	31.4		100.0	99.9	26.6	73.3	.1		50.3	49.7	89.3	10.7
1994	14.0	39.7		100.0	100.0	27.0	73.0			47.6	52.4	89.1	10.9
1995	17.2	43.1		100.0	99.7	21.1	78.6		.3	52.5	47.5	85.9	14.1
1996	18.1	41.4		100.0	99.6		99.6		.4	48.2	51.8	86.6	13.4

APPENDIX G

TABLE G-1: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY SIZE CLASS — 2-SEATERS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	244	.030	16.7	25.0	19.7	3015		173	125	12.6	116.8	.764	.0406	29.5		
1976	203	.021	16.5	24.6	19.4	3032		187	136	12.1	120.0	.752	.0429	29.4		
1977	221	.020	17.2	25.0	20.0	3062	50.0	183	134	12.4	119.1	.755	.0421	30.7	1032	1534
1978	191	.017	16.6	24.4	19.4	3079	50.0	187	143	11.8	122.2	.795	.0446	29.9	1002	1495
1979	256	.024	17.0	25.6	20.1	3026	50.0	180	128	12.2	117.6	.735	.0411	30.6	1039	1528
1980	200	.021	17.3	26.7	20.6	2954	50.0	180	121	12.3	115.8	.702	.0400	30.8	1058	1539
1981	162	.019	18.9	27.0	21.9	3005	50.0	202	142	10.6	124.2	.758	.0469	33.2	1125	1660
1982	263	.034	21.9	32.7	25.7	2726	50.0	146	106	13.0	112.0	.734	.0377	35.7	1337	1784
1983	137	.017	20.4	29.9	23.9	2756	50.0	146	115	11.8	116.0	.778	.0411	33.2	1216	1660
1984	348	.033	22.5	34.6	26.7	2886	50.0	174	121	12.1	116.6	.717	.0410	39.7	1423	1983
1985	335	.031	22.8	34.5	26.9	2826	50.0	158	123	11.7	118.1	.806	.0425	39.1	1443	1955
1986	303	.028	23.8	36.3	28.1	2915	50.0	166	130	11.7	119.4	.818	.0430	41.9	1504	2097
1987	282	.026	23.1	35.7	27.5	2920	50.0	167	134	11.5	120.9	.830	.0442	41.5	1487	2074
1988	203	.019	23.0	35.7	27.4	2940	50.0	170	138	11.2	122.5	.845	.0455	41.8	1505	2091
1989	113	.011	22.6	35.0	26.9	3030	50.0	198	160	10.2	129.6	.891	.0509	42.4	1508	2121
1990	177	.020	23.4	35.4	27.7	2979	50.0	164	160	10.3	129.7	1.019	.0511	42.1	1484	2103
1991	178	.021	24.7	36.7	29.0	2890	50.0	149	150	10.8	126.9	1.040	.0491	42.9	1573	2146
1992	81	.010	22.5	34.5	26.7	3022	50.0	187	183	10.0	137.0	1.018	.0565	40.6	1433	2032
1993	118	.014	24.0	36.6	28.4	2975	50.0	169	178	9.6	137.2	1.138	.0572	43.3	1520	2167
1994	84	.010	21.9	33.9	26.0	3134	50.0	207	197	8.8	142.8	1.073	.0613	41.5	1371	2077
1995	72	.008	22.2	34.8	26.5	3144	50.0	205	203	8.8	144.3	1.086	.0623	42.5	1403	2123
1996	76	.009	22.6	36.0	27.2	3176	50.0	199	190	9.2	139.4	1.061	.0582	43.7	1419	2186

PERCENT OF 2-SEATERS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	EUR	ASIA
1975			74.6		42.4		42.4	57.6		16.4	50.1	33.5
1976			70.5		37.1		37.1	62.9		22.9	49.3	27.8
1977			70.5		40.2		40.2	59.8		22.3	50.0	27.7
1978			71.8		46.9		46.9	53.1		22.7	44.0	33.3
1979			72.8		31.5		31.5	68.5		18.6	36.8	44.6
1980			74.0	13.6	34.4		34.4	65.6		17.6	36.9	45.5
1981			61.3	20.1	55.4		55.4	44.6		23.4	23.4	53.2
1982	47.8		69.2	9.5	32.8	9.5	23.3	67.2		57.3	6.7	36.0
1983	17.1		81.0	4.5	40.3		40.3	59.7		17.1	9.6	73.3
1984	17.9		60.4	33.7	73.6	53.1	20.5	26.4		57.0	3.8	39.3
1985	25.0		67.4	26.3	64.9	11.6	53.3	35.1		37.1	4.8	58.1
1986	29.8		62.4	30.7	81.7	11.7	70.0	18.3		46.7	6.9	46.4
1987	32.7		64.0	28.5	85.9	14.6	71.3	14.1		36.1	7.2	56.7
1988	41.9		62.1	27.4	100.0	26.1	73.9			36.3	8.1	55.6
1989	32.6	16.5	51.5	36.6	100.0	14.2	85.8			30.7	14.4	54.8
1990	31.3		66.9	27.2	100.0	11.5	88.5			19.0	7.2	73.8
1991	34.9		68.5	21.1	100.0	18.6	81.4			12.7	9.1	78.2
1992	16.1	.1	55.3	26.3	100.0	13.7	86.3			26.1	13.6	60.3
1993	42.3		59.8	35.3	100.0	5.6	94.4			22.3	5.1	72.6
1994	24.1	.1	57.5	35.6	100.0		100.0			29.4	12.6	58.0
1995	23.6	.3	55.7	32.4	100.0		100.0			29.5	13.8	56.7
1996	36.9	.2	46.9	43.2	100.0		100.0			28.5	29.1	42.4

APPENDIX G

TABLE G-2: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY SIZE CLASS

MINI-COMPACT

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT- TON-MPG
1975	941	.114	19.6	29.3	23.0	2721		128	82	15.2	102.4	.669	.0298	32.1		
1976	913	.094	22.4	32.3	26.0	2688		124	80	15.1	102.1	.673	.0297	35.3		
1977	915	.081	24.2	34.4	27.9	2544	78.8	116	83	14.0	104.9	.756	.0326	36.1	2297	2839
1978	901	.081	24.1	32.8	27.4	2583	79.1	120	83	14.1	104.6	.730	.0322	35.9	2256	2846
1979	436	.040	24.1	33.7	27.6	2450	79.7	113	77	14.4	103.1	.689	.0312	34.0	2239	2718
1980	383	.041	24.5	34.3	28.1	2458	82.8	116	78	14.4	103.2	.675	.0314	34.7	2385	2875
1981	227	.026	30.6	40.1	34.3	2164	82.6	92	67	14.5	101.2	.723	.0307	37.6	2909	3105
1982	178	.023	31.7	41.5	35.5	2193	82.7	95	70	14.6	101.9	.727	.0311	39.6	3065	3287
1983	156	.020	31.5	42.7	35.7	2273	82.0	99	77	14.2	104.1	.754	.0327	41.5	3094	3412
1984	42	.004	21.6	32.9	25.6	2855	75.9	151	141	10.5	125.3	.927	.0484	37.0	2017	2812
1985	73	.007	31.1	44.8	36.0	2300	79.2	114	95	13.4	110.7	.818	.0380	44.2	3406	3518
1986	176	.016	26.1	39.1	30.7	2407	80.5	113	104	12.8	113.9	.881	.0403	39.4	2903	3176
1987	71	.007	26.2	38.7	30.7	2636	77.2	128	130	11.3	122.6	.985	.0469	42.4	2721	3300
1988	43	.004	26.8	38.7	31.1	2619	77.9	128	129	11.7	122.0	.954	.0462	43.4	2877	3411
1989	28	.003	23.0	33.7	26.9	2866	77.2	146	148	10.7	127.9	.985	.0504	39.2	2157	3051
1990	76	.009	22.4	33.5	26.3	3019	80.7	148	145	10.5	125.0	.969	.0475	39.8	2146	3216
1991	95	.011	24.5	35.9	28.6	2912	75.5	127	137	10.8	123.2	1.076	.0464	41.9	2185	3166
1992	118	.015	26.9	39.3	31.4	2691	81.0	110	118	11.2	118.4	1.073	.0435	42.3	2584	3421
1993	74	.009	25.8	37.6	30.0	2818	79.5	119	130	10.9	121.4	1.089	.0454	42.3	2437	3364
1994	39	.005	23.7	36.3	28.1	3147	81.0	132	163	10.3	129.3	1.202	.0501	44.1	2341	3574
1995	60	.006	22.4	34.6	26.6	3273	77.9	154	177	9.7	134.0	1.136	.0536	43.7	2110	3417
1996	73	.008	22.1	33.6	26.2	3371	78.0	161	198	9.3	139.6	1.211	.0574	44.3	2098	3468

PERCENT OF MINI-COMPACT:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	EUR	ASIA
1975	19.6		67.7		11.5		11.5	88.5		55.6	13.6	30.8
1976	22.1		63.5		4.5		4.5	95.5		53.6	7.1	39.3
1977	25.4		70.6		1.9		1.9	98.1		19.2	5.7	75.1
1978	22.3		63.0		1.5		1.5	98.5		36.5	4.6	58.9
1979	44.8		73.4		3.4		3.4	96.6		39.4	6.6	54.0
1980	47.2		60.0		1.6		1.6	98.4		47.0	9.5	43.5
1981	83.2		81.2		1.0		1.0	99.0			5.9	94.1
1982	80.4		80.8		6.4		6.4	93.6		.1	19.9	80.0
1983	81.8		80.9	.2	20.6		20.6	79.4		.2	21.4	78.4
1984	30.6		84.3	.2	92.6		92.6	7.4		.2	96.9	2.9
1985	67.7		86.1	.1	46.9		46.9	53.1		.1	49.5	50.4
1986	54.6		82.7	5.1	52.2		52.2	47.8			43.8	56.2
1987	54.9		81.9	3.9	85.9		85.9	14.1			69.4	30.6
1988	62.4		76.6	8.3	77.0		77.0	23.0			62.7	37.3
1989	62.4	3.5	65.3	16.1	100.0		100.0				74.6	25.4
1990	11.4		61.6	32.1	100.0		100.0				20.6	79.4
1991	50.9		59.8	36.3	100.0		100.0				10.7	89.3
1992	71.5		55.3	41.3	100.0		100.0				15.0	85.0
1993	64.9		52.6	45.4	100.0		100.0				6.5	93.5
1994	44.4		43.3	51.3	100.0		100.0				43.0	57.0
1995	10.9		44.1	49.5	100.0		100.0				45.2	54.8
1996	32.6	.7	46.5	52.4	100.0		100.0				27.0	73.0

TABLE G-3: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY SIZE CLASS

SUB-COMPACT

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	1011	.123	16.6	23.8	19.2	3242		206	107	14.2	108.1	.585	.0329	31.4		
1976	1368	.141	19.3	27.0	22.2	3033		181	97	14.7	105.8	.607	.0316	33.8		
1977	1577	.140	20.9	28.9	23.9	2966	90.7	174	98	14.2	106.7	.633	.0325	36.1	2329	3268
1978	2056	.184	21.5	30.0	24.6	2842	89.7	159	93	14.4	105.8	.649	.0321	35.7	2387	3201
1979	3044	.282	21.1	29.3	24.1	2847	90.4	155	94	14.2	106.0	.659	.0323	34.8	2297	3140
1980	3552	.376	23.7	32.9	27.1	2640	89.9	128	82	14.7	103.3	.669	.0308	36.2	2523	3251
1981	2712	.311	25.8	35.0	29.3	2604	90.3	124	81	14.7	103.2	.676	.0308	38.7	2744	3491
1982	2329	.298	25.3	35.5	29.1	2657	91.8	133	86	14.5	104.6	.666	.0317	39.4	2792	3613
1983	1968	.246	25.9	37.2	30.0	2687	93.3	136	90	14.0	106.2	.693	.0330	41.0	2941	3829
1984	2545	.238	25.4	36.9	29.6	2737	93.3	140	97	13.5	108.4	.722	.0348	41.1	2883	3830
1985	2181	.202	25.9	37.4	30.1	2734	93.9	136	100	13.4	109.7	.760	.0358	41.5	2941	3901
1986	2376	.216	26.4	37.9	30.6	2764	94.7	136	100	13.4	109.4	.765	.0354	42.7	3018	4048
1987	2088	.195	26.8	38.4	31.1	2728	92.7	128	99	13.7	108.9	.795	.0350	42.8	2995	3965
1988	2143	.200	27.8	39.2	32.0	2668	93.2	122	99	13.5	109.6	.823	.0358	43.1	3116	4019
1989	1950	.195	26.9	38.6	31.2	2748	93.1	129	104	13.0	111.1	.852	.0369	43.3	3044	4034
1990	1974	.224	27.4	38.6	31.5	2762	94.5	117	108	12.5	112.9	.962	.0385	43.9	3072	4149
1991	2303	.270	27.0	39.3	31.5	2779	94.8	124	111	12.3	114.0	.938	.0392	44.1	3086	4181
1992	2021	.249	27.3	40.0	31.8	2806	93.8	122	117	12.0	116.0	.987	.0408	45.2	3110	4241
1993	1872	.221	27.3	40.4	32.0	2797	94.4	124	120	11.8	117.2	.977	.0418	45.2	3140	4272
1994	1986	.236	26.7	40.5	31.5	2884	94.4	134	125	11.7	118.2	.972	.0423	46.0	3096	4338
1995	1593	.171	26.8	40.9	31.8	2927	93.7	140	134	11.4	121.1	1.015	.0444	47.1	3132	4408
1996	1337	.154	27.7	42.3	32.8	2885	94.9	136	132	11.2	121.1	1.030	.0447	47.8	3252	4541

PERCENT OF SUB-COMPACT:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	EUR	ASIA
1975	17.6		40.9		8.9		8.9	91.1		55.9	22.8	21.3
1976	13.1		42.8		3.1		3.1	96.9		55.9	17.0	27.1
1977	19.4		46.5		12.5		12.5	86.3	1.2	53.6	19.7	26.8
1978	22.3		54.4		11.7		11.7	86.6	1.8	45.5	20.0	34.6
1979	25.9		51.5		7.3		7.3	91.3	1.5	58.2	10.3	31.5
1980	35.3	.4	58.2	3.5	10.9		10.9	85.6	3.4	45.9	13.6	40.4
1981	36.0	.3	58.9	8.5	12.1		12.1	82.4	5.5	36.8	10.9	52.3
1982	39.8	.2	55.1	23.6	18.1	3.2	14.8	77.8	4.1	33.6	9.9	56.5
1983	53.4	.2	55.8	32.0	24.2	2.7	21.5	74.6	1.2	32.3	8.2	59.5
1984	49.8	.5	51.5	35.1	31.9	3.0	28.9	66.3	1.7	39.5	10.9	49.6
1985	58.7	.3	49.4	34.1	33.9	5.1	28.8	65.9	.2	35.7	6.8	57.6
1986	64.5	1.1	50.3	34.0	41.4	4.9	36.5	58.5	.1	32.9	5.8	61.4
1987	69.1	.5	51.3	39.4	47.0	6.8	40.3	52.9	.1	25.1	10.1	64.8
1988	77.7	1.2	53.6	40.0	50.9	15.2	35.7	49.1		20.7	8.4	70.9
1989	72.3	1.1	46.5	45.3	65.1	20.6	44.5	34.9		24.9	5.5	69.6
1990	87.9	.5	44.9	51.1	95.5	24.0	71.5	4.5		14.7	4.1	81.2
1991	84.3	1.4	39.1	56.2	99.8	40.3	59.6	.2		30.6	3.1	66.4
1992	84.2	1.6	38.0	56.4	100.0	15.5	84.5			26.1	3.8	70.1
1993	84.6	1.7	42.6	51.9	100.0	8.3	91.7			29.8	4.5	65.8
1994	81.3	.6	34.6	58.2	100.0	5.9	94.1			36.8	2.2	61.0
1995	71.8	.7	40.1	51.4	100.0	6.3	93.7			27.5	4.2	68.3
1996	76.0	1.3	42.7	51.9	100.0		100.0			27.7	1.7	70.6

TABLE G-4: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY SIZE CLASS . COMPACT

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	1893	.230	14.3	19.3	16.2	3958		287	129	14.6	110.0	.454	.0322	32.5		
1976	2557	.263	15.5	21.0	17.5	4025		289	125	15.2	108.2	.434	.0307	35.5		
1977	2767	.245	15.8	21.4	17.9	4128	107.3	291	131	14.6	109.5	.452	.0315	37.1	1946	3986
1978	1482	.133	17.5	24.7	20.2	3552	105.1	236	113	14.5	107.9	.506	.0318	36.0	2163	3782
1979	668	.062	17.1	23.5	19.5	3624	105.3	246	117	14.4	108.5	.495	.0321	35.7	2095	3761
1980	690	.073	19.4	27.6	22.4	3184	106.2	186	102	14.4	107.2	.577	.0324	36.1	2438	3830
1981	976	.112	23.0	33.5	26.7	2825	104.3	142	91	14.2	105.9	.671	.0325	37.9	2852	3959
1982	1268	.162	24.7	37.0	29.0	2794	102.9	128	86	14.6	104.1	.695	.0310	40.7	3035	4193
1983	1456	.182	24.7	36.2	28.8	2844	103.2	141	91	14.4	105.3	.677	.0318	41.2	3051	4259
1984	2731	.256	25.6	36.9	29.7	2798	103.1	136	90	14.3	105.5	.687	.0321	41.9	3134	4319
1985	2929	.271	25.7	37.2	29.8	2804	103.1	138	98	13.5	108.7	.727	.0347	42.2	3155	4356
1986	3348	.304	25.7	37.2	29.8	2819	103.2	137	98	13.5	108.6	.735	.0346	42.4	3143	4372
1987	4012	.374	25.5	37.3	29.7	2836	102.8	135	100	13.3	109.3	.759	.0351	42.4	3110	4359
1988	4317	.402	25.6	37.6	29.9	2889	103.6	136	106	13.0	111.2	.794	.0365	43.4	3147	4500
1989	3585	.358	25.6	37.5	29.9	2886	102.8	130	108	12.7	112.0	.837	.0372	43.3	3110	4452
1990	2771	.315	24.7	36.7	29.0	2984	103.3	138	118	12.3	114.9	.857	.0393	43.4	3027	4484
1991	2455	.288	24.7	36.7	29.0	2984	104.5	136	120	12.1	115.8	.887	.0400	43.5	3079	4553
1992	2221	.274	24.2	36.7	28.6	3034	104.3	143	127	11.8	118.0	.893	.0416	43.5	3015	4536
1993	2473	.292	25.1	37.9	29.6	2982	104.1	139	121	12.0	116.3	.886	.0405	44.3	3121	4613
1994	2602	.310	25.2	38.3	29.8	3023	103.9	138	124	11.9	117.0	.912	.0408	45.2	3131	4693
1995	3442	.370	25.7	39.7	30.5	3012	103.5	136	135	11.0	121.5	.997	.0446	46.1	3201	4772
1996	3093	.357	25.8	40.0	30.7	2998	103.3	135	132	11.2	120.6	.987	.0440	46.2	3208	4774

PERCENT OF COMPACT:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	EUR	ASIA
1975	2.4		8.1		4.4		4.4	94.6	1.0	94.4	5.6	
1976	2.5		6.3		3.6		3.6	95.4	.9	96.5	3.5	
1977	2.3		4.4		3.8		3.8	95.1	1.1	96.6	3.4	
1978	17.8		10.0	16.3	9.1		9.1	88.8	2.2	92.3	7.7	
1979	13.6		9.0		14.8		14.8	77.2	8.0	81.5	18.5	
1980	56.8	5.8	14.5	6.7	10.8		10.8	80.9	8.4	79.1	20.9	
1981	81.4	2.1	32.9	5.8	8.0		8.0	86.0	6.0	86.0	14.0	
1982	84.8	1.9	34.8	39.7	21.5	13.1	8.3	73.2	5.3	81.4	13.7	4.9
1983	74.7	2.2	32.3	42.4	50.6	37.4	13.2	45.1	4.4	77.3	12.7	10.0
1984	82.0	.8	28.4	41.0	54.0	32.4	21.6	43.1	2.8	81.4	6.7	11.9
1985	85.3	.2	28.3	42.8	70.8	46.9	24.0	26.7	2.4	71.7	11.0	17.3
1986	86.6	.2	28.5	50.0	76.4	43.4	33.0	22.9	.7	65.3	9.6	25.2
1987	90.5	.4	29.5	49.3	74.6	42.2	32.4	25.1	.3	52.6	7.4	40.0
1988	91.2	.2	25.6	59.0	91.4	42.7	48.7	8.6		59.2	5.1	35.7
1989	95.8	.5	26.0	56.2	94.9	40.0	54.9	5.0	.1	53.7	6.0	40.3
1990	95.5	.8	19.3	63.6	99.9	33.2	66.7		.1	53.2	5.9	40.9
1991	95.0	1.6	21.7	65.3	99.6	17.3	82.3		.4	45.9	6.4	47.7
1992	96.1	.9	19.2	66.2	99.8	10.8	89.0		.2	54.2	5.3	40.5
1993	97.5	.5	18.3	69.9	100.0	12.3	87.7			56.5	3.0	40.5
1994	95.8	.7	18.8	72.8	100.0	8.3	91.7			41.9	5.3	52.9
1995	91.9	4.6	20.0	78.4	100.0		100.0			48.3	11.5	40.2
1996	96.2	.8	18.7	79.4	100.0		100.0			49.9	11.8	38.3

TABLE G-5: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY SIZE CLASS

MID-SIZE SEDAN

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT- TON-MPG
1975	1631	.198	11.7	16.9	13.6	4630		353	158	13.9	114.6	.447	.0341	31.9		
1976	1964	.202	13.6	19.4	15.7	4558		343	156	13.8	114.3	.454	.0340	36.1		
1977	2226	.197	14.3	20.2	16.4	4473	112.9	332	151	13.9	113.5	.454	.0337	37.1	1880	4186
1978	3339	.299	16.0	23.0	18.6	3820	113.0	292	135	13.4	113.3	.464	.0353	35.5	2139	4015
1979	3211	.297	16.7	23.2	19.1	3710	113.1	272	128	13.6	111.8	.474	.0345	35.6	2197	4023
1980	2987	.316	18.6	26.9	21.6	3362	113.2	228	113	13.8	109.5	.512	.0336	36.5	2478	4132
1981	2902	.332	19.8	28.6	22.9	3346	113.9	220	107	14.2	107.6	.509	.0322	38.5	2645	4393
1982	2136	.273	20.5	30.5	24.0	3321	113.9	211	107	14.2	107.8	.529	.0324	40.2	2785	4576
1983	2269	.284	20.4	30.3	23.9	3316	113.8	212	111	13.8	109.3	.544	.0336	39.9	2770	4542
1984	2770	.260	20.5	30.6	24.1	3318	113.7	210	113	13.6	110.0	.563	.0342	40.2	2780	4565
1985	2777	.257	21.2	31.9	24.9	3318	113.6	205	117	13.3	111.5	.606	.0354	41.5	2873	4714
1986	2666	.242	21.9	33.4	25.9	3241	113.8	194	118	13.0	112.5	.640	.0364	42.1	2978	4786
1987	2252	.210	22.0	33.6	26.0	3247	113.7	188	123	12.7	114.4	.684	.0379	42.3	2993	4817
1988	2113	.197	22.3	35.1	26.7	3293	113.4	183	129	12.3	115.9	.718	.0389	44.0	3057	4995
1989	2591	.259	22.2	35.3	26.6	3314	113.6	181	131	12.2	116.8	.735	.0396	44.2	3049	5027
1990	2342	.266	21.7	35.1	26.2	3450	113.7	187	140	12.0	118.7	.758	.0407	45.3	3000	5152
1991	2114	.248	21.6	34.8	26.0	3412	113.5	191	146	11.5	121.3	.773	.0428	44.5	2973	5050
1992	2120	.261	21.3	34.7	25.8	3515	113.9	191	151	11.5	121.6	.801	.0427	45.4	2949	5170
1993	2330	.276	21.6	35.1	26.1	3515	113.9	192	153	11.4	122.6	.812	.0434	46.0	2992	5243
1994	2057	.245	21.4	34.7	25.9	3529	113.5	189	155	11.4	123.0	.827	.0437	45.7	2953	5192
1995	2360	.253	21.4	35.6	26.1	3555	114.2	189	166	10.8	126.5	.890	.0463	46.5	2994	5304
1996	2368	.273	21.8	35.9	26.5	3548	111.9	184	168	10.6	127.7	.926	.0473	47.1	2976	5268

PERCENT OF MID-SIZE SEDAN:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	EUR	ASIA
1975	2.7		.6		.7		.7	99.3		99.3	.7	
1976	2.5		.4		.6		.6	99.4		99.8	.2	
1977	2.1		.3		.7		.7	99.3		99.7	.3	
1978	1.4		1.7	11.1	1.4		1.4	98.6		99.8	.2	
1979	5.2		1.9	21.4	2.3		2.3	96.3	1.4	99.5	.5	
1980	30.2		7.8	25.3	2.5	1.5	1.0	94.9	2.5	99.5	.5	
1981	32.3		5.6	52.2	2.4	2.3	.1	93.7	4.0	99.9	.1	
1982	44.7		2.0	82.6	15.6	15.4	.2	80.7	3.8	99.8	.2	
1983	48.9		1.2	80.0	17.7	17.2	.5	80.6	1.7	99.3	.7	
1984	55.1		.9	82.0	29.4	25.6	3.8	69.7	1.0	97.3	2.7	
1985	61.9		1.3	77.6	50.1	37.1	13.0	49.6	.3	96.5	3.5	
1986	71.0	.1	1.8	76.4	67.7	42.3	25.4	32.1	.2	95.6	4.4	
1987	77.3	.2	1.5	77.6	84.1	43.4	40.7	15.5	.4	95.3	4.7	
1988	87.0	.1	3.8	91.1	94.9	28.0	66.9	5.1		87.8	5.6	6.5
1989	86.5	.1	4.7	91.7	99.3	21.0	78.3	.7		85.6	3.8	10.7
1990	85.2	.2	3.9	93.9	100.0	13.3	86.6			82.6	4.1	13.3
1991	87.2	.1	3.6	94.5	99.9	11.2	88.7		.1	82.3	3.5	14.1
1992	79.1	.1	2.7	96.6	100.0	5.3	94.7			74.3	2.3	23.4
1993	85.4	.2	2.3	97.2	100.0	4.4	95.6			72.7	3.0	24.3
1994	84.7		2.0	97.7	100.0	4.0	96.0			70.2	3.6	26.2
1995	77.8	.1	2.8	96.9	100.0	1.2	98.8			68.1	3.9	28.0
1996	91.5		4.5	95.3	100.0		100.0			67.8	2.8	29.4

TABLE G-6: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY SIZE CLASS

LARGE SEDAN

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	1555	.189	11.3	16.2	13.1	5142		409	180	13.5	117.3	.439	.0348	33.9		
1976	1679	.173	12.3	17.2	14.2	5156		410	180	13.4	117.4	.440	.0349	36.6		
1977	2319	.205	13.8	19.5	15.9	4482	128.1	366	165	12.8	118.0	.453	.0370	35.7	2065	4573
1978	2048	.183	14.5	20.9	16.8	4394	128.5	357	162	12.8	117.7	.457	.0370	37.2	2193	4775
1979	2111	.196	15.2	21.1	17.4	4210	130.0	339	154	12.9	116.4	.454	.0365	36.8	2279	4783
1980	963	.102	16.3	24.1	19.1	4130	130.9	314	137	14.0	111.6	.440	.0331	39.8	2526	5213
1981	956	.109	17.1	26.7	20.4	4108	131.0	304	133	14.3	110.7	.444	.0325	42.6	2712	5571
1982	832	.106	17.4	26.9	20.7	4034	131.0	292	135	13.9	112.0	.468	.0337	42.1	2730	5517
1983	1079	.135	16.9	26.4	20.2	4041	131.3	292	140	13.4	113.4	.481	.0347	40.9	2657	5370
1984	1236	.116	17.2	26.9	20.5	4022	130.9	294	140	13.4	113.6	.478	.0349	41.3	2688	5407
1985	1512	.140	18.5	29.8	22.3	3841	129.3	279	143	12.7	115.8	.512	.0371	42.9	2887	5543
1986	1267	.115	19.6	32.7	23.9	3719	127.4	260	147	12.1	118.6	.577	.0396	44.5	3055	5672
1987	1218	.113	19.5	32.8	23.9	3696	127.0	259	149	11.8	119.6	.587	.0405	44.1	3036	5599
1988	1303	.121	19.8	33.2	24.2	3730	128.1	262	150	11.9	119.7	.587	.0405	45.2	3111	5793
1989	1289	.129	19.6	33.0	24.0	3721	127.4	261	158	11.4	122.4	.619	.0427	44.7	3064	5696
1990	1092	.124	19.3	32.8	23.7	3799	126.7	258	161	11.4	122.8	.639	.0427	45.0	3004	5695
1991	1012	.119	19.3	32.6	23.6	3893	129.0	264	178	10.7	127.5	.685	.0459	46.0	3053	5941
1992	1240	.153	19.4	33.0	23.8	3872	129.6	262	185	10.4	130.1	.715	.0480	46.1	3091	5979
1993	1103	.130	19.8	33.4	24.2	3831	128.9	256	181	10.5	129.0	.720	.0473	46.4	3133	5989
1994	1277	.152	19.7	33.1	24.1	3858	128.3	248	188	10.2	131.0	.766	.0487	46.4	3092	5959
1995	1402	.150	19.9	33.9	24.5	3833	127.1	247	202	9.6	136.1	.832	.0528	46.9	3121	5968
1996	1316	.152	19.8	33.9	24.4	3872	128.1	248	216	9.2	140.3	.880	.0557	47.2	3134	6055

PERCENT OF LARGE SEDAN:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	EUR	ASIA
1975	1.5							100.0		100.0		
1976	1.5				1.2		1.2	98.8		100.0		
1977	1.5				.5		.5	99.5		100.0		
1978	1.1			2.5	.2		.2	98.5	1.4	100.0		
1979				6.5	.2		.2	96.4	3.5	100.0		
1980				41.6	2.0	2.0		87.5	10.4	100.0		
1981				89.8	17.1	17.1		67.7	15.2	100.0		
1982				93.1	20.1	20.1		69.9	10.0	100.0		
1983				99.9	37.3	37.3		60.3	2.4	100.0		
1984				99.9	39.0	39.0		60.3	.8	100.0		
1985	31.9			100.0	64.0	44.9	19.1	35.7	.3	100.0		
1986	55.9		.7	99.2	81.2	15.8	65.4	18.8		99.2	.8	
1987	60.9		.5	99.5	85.1	15.2	69.9	14.9		98.9	1.1	
1988	58.7		.4	99.6	89.5	12.6	76.9	10.5		95.9	4.1	
1989	61.9		.3	99.7	97.0	22.2	74.8	3.0		96.0	4.0	
1990	69.0		.2	99.8	98.9	6.0	92.9	1.1		97.5	2.5	
1991	59.8		.4	99.6	100.0	16.7	83.3			96.8	3.2	
1992	58.5		.3	98.5	99.9	10.7	89.2		.1	97.5	2.5	
1993	64.8		.4	98.2	100.0	10.3	89.7			97.7	2.3	
1994	69.2		.2	99.0	100.0		100.0			98.8	1.2	
1995	71.3		.1	97.9	100.0		100.0			93.1	2.1	4.8
1996	69.1		.2	98.3	100.0		100.0			92.0	3.0	5.0

TABLE G-7: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY SIZE CLASS

SMALL WAGON

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	477	.058	19.3	27.7	22.4	2833		128	87	14.8	104.0	.713	.0307	32.1		
1976	345	.036	20.7	29.4	23.9	2902		136	86	15.2	103.0	.668	.0297	35.0		
1977	384	.034	22.4	30.6	25.5	2801	108.0	134	85	14.9	103.5	.685	.0305	36.2	2824	3897
1978	361	.032	21.4	29.3	24.3	2805	108.0	134	90	14.3	105.3	.709	.0319	34.6	2692	3732
1979	310	.029	22.5	31.2	25.7	2711	105.1	123	81	15.1	102.1	.684	.0295	35.0	2742	3682
1980	310	.033	25.1	34.6	28.6	2591	108.2	113	75	15.4	100.9	.685	.0289	37.6	3175	4068
1981	418	.048	26.2	36.6	30.0	2531	110.6	108	79	14.4	103.4	.755	.0313	38.2	3356	4228
1982	382	.049	26.5	37.6	30.6	2580	112.2	109	75	15.3	100.8	.698	.0289	39.6	3463	4447
1983	531	.066	28.2	39.1	32.2	2565	108.2	105	74	15.3	100.8	.713	.0289	41.5	3507	4483
1984	461	.043	27.6	39.4	31.9	2620	116.5	107	77	15.2	101.6	.719	.0294	42.1	3762	4905
1985	496	.046	28.3	39.7	32.5	2579	117.7	106	78	15.2	102.1	.727	.0300	42.2	3870	4963
1986	348	.032	27.1	37.6	31.0	2647	118.4	113	82	14.7	103.3	.730	.0308	41.3	3729	4895
1987	361	.034	26.8	37.4	30.7	2795	120.0	116	91	14.2	105.8	.788	.0324	43.2	3733	5184
1988	253	.024	27.5	37.6	31.3	2757	118.7	113	93	13.7	107.0	.829	.0336	43.3	3748	5140
1989	159	.016	27.5	38.3	31.5	2766	118.6	112	96	13.5	108.1	.862	.0344	43.7	3769	5185
1990	160	.018	25.7	36.3	29.6	3026	122.2	120	110	12.9	111.3	.920	.0361	44.9	3652	5484
1991	209	.025	26.3	38.1	30.6	3005	123.3	120	106	13.3	109.8	.880	.0350	46.1	3816	5679
1992	143	.018	25.9	37.8	30.2	3076	123.7	122	123	12.4	116.0	1.017	.0399	46.5	3778	5756
1993	301	.036	27.8	41.2	32.5	2882	123.0	118	99	13.5	108.5	.842	.0343	47.1	4047	5794
1994	203	.024	27.8	42.4	32.9	2906	122.9	121	103	13.3	109.7	.848	.0353	48.1	4109	5915
1995	205	.022	28.3	42.4	33.3	2853	122.1	117	99	13.5	108.7	.842	.0346	47.7	4115	5823
1996	180	.021	28.4	41.8	33.2	2837	117.3	117	98	13.5	108.6	.835	.0345	47.3	3932	5549

PERCENT OF SMALL WAGON:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	EUR	ASIA
1975	13.3		48.6		.8		.8	99.2		34.8	10.9	54.3
1976	12.2		42.8		3.2		3.2	96.8		49.7	5.2	45.1
1977	23.3		52.9		6.4		6.4	93.0	.6	37.4	7.2	55.4
1978	23.0		56.3		6.9		6.9	93.1		33.7	9.6	56.7
1979	13.3	12.1	59.3		1.0		1.0	99.0		32.5	1.4	66.1
1980	24.4	9.8	67.3	4.6	1.1		1.1	92.5	6.3	19.2	6.7	74.1
1981	57.9	8.0	62.0	8.1	4.0		4.0	93.9	2.2	41.6	3.5	54.8
1982	68.3	8.9	54.0	19.4	5.6	.7	4.8	93.3	1.2	44.9	1.8	53.3
1983	55.4	39.3	64.7	23.7	20.7	17.0	3.7	79.0	.3	35.0	1.1	64.0
1984	81.4	15.6	43.7	39.2	37.3	32.2	5.1	61.1	1.6	53.4	1.4	45.2
1985	60.0	39.6	59.1	42.2	21.7	15.4	6.2	77.8	.5	35.2	1.4	63.4
1986	78.4	20.7	43.3	29.0	31.0	24.3	6.8	68.2	.8	49.1	1.2	49.6
1987	76.6	23.4	34.4	41.0	71.8	42.6	29.2	28.2		35.1	1.8	63.1
1988	80.2	19.8	37.8	34.6	93.4	62.8	30.6	6.6		34.5	6.5	58.9
1989	89.9	10.1	26.6	51.8	89.7	48.8	41.0	10.3		36.3	2.0	61.8
1990	68.3	31.7	30.6	58.8	100.0	40.6	59.4			21.0	1.2	77.8
1991	79.1	20.9	24.4	74.1	100.0	20.0	80.0			43.7		56.3
1992	73.0	25.5	22.6	68.2	100.0	4.7	95.3			40.4	1.8	57.8
1993	83.2	16.2	28.9	70.6	100.0	4.2	95.8			73.6	.8	25.6
1994	87.7	11.4	26.8	73.2	100.0	2.2	97.8			15.8	1.1	83.1
1995	92.8	4.8	24.9	75.1	100.0	.1	99.9			79.9	3.2	16.9
1996	96.2	1.8	28.0	72.0	100.0		100.0			82.1	2.5	15.4

TABLE G-8: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY SIZE CLASS

MIDSIZE WAGON

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	289	.035	11.4	16.5	13.2	4791		361	162	13.8	114.7	.473	.0338	32.1		
1976	485	.050	14.0	19.4	16.0	4555		315	142	14.8	110.3	.458	.0311	36.7		
1977	548	.048	14.4	19.6	16.3	4410	143.6	297	135	15.1	109.0	.459	.0305	36.1	2368	5190
1978	503	.045	16.3	22.6	18.6	3836	140.0	258	123	14.4	109.2	.484	.0320	35.8	2630	5010
1979	482	.045	16.9	22.9	19.1	3758	139.7	249	118	14.7	108.1	.480	.0313	36.1	2698	5046
1980	257	.027	18.4	25.8	21.1	3534	139.7	228	107	15.0	106.0	.482	.0304	37.5	2985	5231
1981	272	.031	20.2	28.0	23.1	3285	136.2	193	103	14.5	106.6	.562	.0316	38.1	3187	5187
1982	284	.036	20.6	28.9	23.7	3384	136.1	205	108	14.3	107.6	.551	.0320	40.3	3265	5481
1983	276	.034	21.2	29.9	24.4	3348	136.2	200	109	14.1	108.0	.568	.0325	41.0	3368	5586
1984	365	.034	21.6	31.0	25.0	3298	135.9	172	107	14.1	107.7	.633	.0324	41.4	3428	5622
1985	341	.032	21.6	31.6	25.2	3356	130.2	170	112	13.9	109.2	.679	.0334	42.4	3280	5531
1986	409	.037	22.1	33.1	26.0	3355	137.8	162	115	13.6	110.2	.718	.0342	43.6	3592	6014
1987	359	.033	21.7	33.0	25.6	3434	140.2	173	125	13.0	113.2	.735	.0363	44.0	3606	6182
1988	285	.027	22.0	34.4	26.2	3378	139.4	171	126	12.7	114.1	.743	.0372	44.5	3677	6199
1989	239	.024	21.4	33.8	25.6	3436	139.9	176	132	12.4	115.7	.765	.0383	44.1	3597	6177
1990	184	.021	21.0	33.9	25.3	3498	141.6	181	139	12.0	117.7	.782	.0397	44.4	3593	6281
1991	122	.014	21.4	34.7	25.9	3506	142.3	181	140	12.0	118.2	.794	.0401	45.5	3701	6484
1992	137	.017	21.5	35.5	26.2	3503	142.6	188	143	11.8	119.2	.777	.0408	46.0	3747	6560
1993	166	.020	21.7	35.2	26.2	3498	137.7	188	144	11.7	119.6	.790	.0411	46.0	3626	6340
1994	138	.016	21.5	35.2	26.0	3532	137.4	180	151	11.4	121.9	.863	.0428	46.0	3584	6327
1995	170	.018	22.0	35.7	26.6	3480	136.3	168	149	11.4	121.5	.912	.0428	46.3	3627	6308
1996	213	.025	21.9	35.5	26.5	3737	139.1	167	155	11.7	121.1	.938	.0416	49.4	3683	6877

PERCENT OF MIDSIZE WAGON:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	EUR	ASIA
1975			4.0		7.6		7.6	92.2	.2	91.7	8.3	
1976			7.1		3.4		3.4	96.5	.1	96.4	3.6	
1977			4.6		3.5		3.5	96.2	.3	96.2	3.8	
1978			5.3	17.2	3.0		3.0	96.8	.3	96.7	3.3	
1979			5.3	9.1	2.5		2.5	95.0	2.5	96.4	3.6	
1980			9.9	43.8	4.3		4.3	89.8	5.9	93.6	6.4	
1981	35.6		12.8	28.5	6.9		6.9	87.2	5.9	91.2	8.8	
1982	28.2		7.4	62.6	5.7		5.7	88.0	6.3	90.8	9.2	
1983	32.8		6.2	50.2	7.9		7.9	89.8	2.3	90.5	9.5	
1984	69.9		6.5	62.5	30.7	20.3	10.4	66.8	2.5	88.1	11.9	
1985	69.5	4.5	5.9	64.7	56.2	30.5	25.7	42.0	1.8	83.2	11.4	5.4
1986	82.2	2.1	9.1	71.0	79.3	28.0	51.3	20.6	.2	76.2	11.1	12.7
1987	83.9	.1	4.4	83.6	94.5	22.8	71.7	4.7	.8	84.9	11.3	3.8
1988	87.7	.7	3.8	87.2	100.0	29.8	70.2			82.3	13.9	3.7
1989	77.5	8.2	7.1	80.7	100.0	12.3	87.7			76.3	15.6	8.0
1990	81.1	.4	1.7	87.9	100.0	1.5	98.5			79.2	20.8	
1991	79.6	1.3	2.4	85.6	100.0	.7	99.3			77.0	23.0	
1992	80.8	.6	1.7	88.9	100.0	.3	99.7			74.9	18.5	6.6
1993	87.0	.6	1.8	91.2	100.0		100.0			68.1	13.7	18.2
1994	89.0	.4	1.6	94.0	100.0		100.0			63.3	21.9	14.8
1995	90.0		7.7	89.0	100.0		100.0			46.7	17.2	36.1
1996	80.0	20.0	8.1	91.9	100.0		100.0			61.2	9.6	29.2

TABLE G-9: CHARACTERISTICS OF 1975 TO 1996 PASSENGER CARS BY SIZE CLASS — LARGE WAGON

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	197	.024	10.3	14.9	11.9	5453		410	181	14.0	115.9	.441	.0333	32.7		
1976	207	.021	11.8	16.5	13.5	5444		416	185	13.7	116.9	.445	.0340	36.9		
1977	340	.030	13.6	18.7	15.5	4713	163.1	365	161	13.6	115.0	.442	.0342	36.9	2567	6008
1978	293	.026	13.8	19.7	15.9	4664	162.4	354	162	13.4	115.7	.460	.0348	37.3	2601	6056
1979	275	.026	14.2	19.3	16.1	4466	162.5	333	155	13.4	114.8	.465	.0346	36.1	2633	5872
1980	102	.011	16.3	24.2	19.1	4423	161.5	323	134	15.2	108.8	.418	.0304	43.2	3152	6975
1981	108	.012	16.7	26.0	19.9	4394	161.4	312	131	15.3	108.1	.424	.0299	44.7	3273	7199
1982	146	.019	16.0	25.4	19.2	4396	161.3	306	139	14.6	110.5	.456	.0316	42.6	3130	6872
1983	130	.016	16.3	25.9	19.6	4379	161.6	307	142	14.1	111.6	.465	.0325	43.0	3174	6944
1984	176	.017	16.6	26.3	19.9	4371	161.7	305	144	13.9	112.2	.472	.0330	43.6	3227	7049
1985	145	.013	17.3	28.0	20.9	4354	161.7	305	153	13.2	115.4	.504	.0354	45.6	3382	7360
1986	120	.011	18.1	30.0	22.0	4381	161.4	304	146	13.9	112.8	.479	.0334	48.3	3558	7791
1987	88	.008	18.3	29.9	22.1	4348	161.8	304	143	14.0	112.2	.470	.0330	48.2	3583	7789
1988	75	.007	19.0	30.4	22.8	4349	161.7	304	143	14.0	112.2	.470	.0330	49.7	3691	8025
1989	63	.006	18.7	29.9	22.5	4334	161.8	304	143	13.9	112.4	.471	.0332	48.8	3643	7887
1990	31	.004	18.8	30.2	22.7	4337	161.6	304	143	13.9	112.4	.471	.0332	49.2	3664	7942
1991	34	.004	18.7	31.8	22.9	4402	169.1	304	177	11.9	122.3	.581	.0404	50.4	3877	8535
1992	27	.003	18.3	32.0	22.7	4500	170.3	338	177	12.1	121.4	.526	.0394	51.1	3865	8695
1993	19	.002	18.1	32.1	22.5	4500	168.9	340	174	12.2	120.4	.513	.0386	50.7	3804	8560
1994	16	.002	18.6	32.0	22.9	4500	169.2	350	250	9.1	143.5	.714	.0556	51.6	3878	8726
1995	10	.001	18.5	31.9	22.8	4500	169.2	350	250	9.1	143.5	.714	.0556	51.3	3860	8685
1996	10	.001	18.7	32.8	23.2	4500	171.0	350	260	8.9	146.6	.743	.0578	52.2	3965	8920

PERCENT OF LARGE WAGON:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	EUR	ASIA
1975								100.0		100.0		
1976								100.0		100.0		
1977								100.0		100.0		
1978								98.6	1.4	100.0		
1979								100.0		100.0		
1980				74.0				73.3	26.7	100.0		
1981				100.0	.2	.2		74.6	25.2	100.0		
1982				100.0				89.0	11.0	100.0		
1983				100.0	24.1	24.1		71.3	4.6	99.9		
1984				100.0	25.8	25.8		72.7	1.5	100.0		
1985				100.0	29.2	29.2		70.4	.4	100.0		
1986				100.0	23.7		23.7	76.3		100.0		
1987				100.0	30.3		30.3	69.7		100.0		
1988				100.0	30.2		30.2	69.8		100.0		
1989				100.0	33.1		33.1	66.9		100.0		
1990				100.0	32.7		32.7	67.3		100.0		
1991				100.0	100.0	80.5	19.5			100.0		
1992				100.0	100.0	100.0				100.0		
1993				100.0	100.0	99.8	.2			100.0		
1994				100.0	100.0		100.0			100.0		
1995				100.0	100.0		100.0			100.0		
1996				100.0	100.0		100.0			100.0		

APPENDIX G

TABLE G-10: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES — SMALL PICKUP

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/CID	HP/WT	TON-MPG
1975	217	.109	19.0	27.5	22.1	2821		116	88	14.7	104.8	.762	.0315	31.3
1976	227	.087	20.2	29.4	23.5	2829		117	90	14.6	105.4	.772	.0320	33.5
1977	306	.109	22.8	32.4	26.3	2820		121	91	14.2	105.9	.756	.0325	37.5
1978	339	.104	23.3	31.1	26.3	2844		120	88	14.7	104.3	.731	.0310	37.8
1979	459	.149	20.5	28.3	23.4	2832		123	84	14.9	103.0	.692	.0300	33.8
1980	489	.262	22.4	30.2	25.3	2792		123	86	14.5	104.2	.706	.0311	35.8
1981	449	.247	24.9	33.4	28.1	2822		129	83	15.2	102.5	.647	.0295	40.5
1982	591	.309	24.1	33.2	27.5	2880		144	93	14.3	105.9	.645	.0322	40.2
1983	875	.381	23.5	32.7	26.9	2978		145	92	14.5	104.9	.641	.0311	40.5
1984	905	.271	22.6	32.0	26.0	3080		146	93	14.9	104.2	.638	.0302	40.5
1985	886	.242	23.4	32.8	26.9	2974		148	98	14.0	107.2	.663	.0330	40.3
1986	1253	.288	23.4	32.6	26.8	3003		145	101	13.6	108.3	.697	.0337	40.5
1987	1108	.268	23.3	33.1	26.9	3018		147	103	13.6	108.7	.695	.0340	40.7
1988	1040	.228	22.9	32.2	26.3	3077		153	106	13.5	109.3	.690	.0343	40.7
1989	882	.199	22.8	32.0	26.2	3133		161	112	13.0	111.1	.704	.0356	41.2
1990	526	.138	22.6	31.8	26.0	3222		164	124	12.3	115.0	.765	.0385	42.1
1991	803	.198	22.2	31.6	25.6	3240		176	124	12.5	114.6	.715	.0381	41.7
1992	903	.222	19.7	28.7	22.9	3682		223	146	12.1	118.3	.683	.0395	42.5
1993	329	.069	21.6	31.0	25.0	3210		181	132	11.7	118.0	.747	.0410	40.3
1994	352	.064	22.6	32.5	26.2	3309		180	137	11.7	119.0	.795	.0414	43.5
1995	450	.077	23.2	33.4	26.9	3362		165	134	12.0	117.3	.839	.0399	45.6
1996	364	.062	23.2	33.4	26.9	3402		174	140	11.7	119.1	.837	.0412	45.9

PERCENT OF SMALL PICKUP:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	DESIGNED DOM	DESIGNED IMPORT
1975			83.1					100.0			100.0
1976			81.4					100.0			100.0
1977			82.3					100.0			100.0
1978		6.9	88.1					100.0			100.0
1979		20.5	88.1					100.0			100.0
1980	5.4	13.1	88.6		3.1			94.6	2.3		100.0
1981	7.4	16.3	92.3	.1	2.0			79.9	18.0	.7	99.3
1982	5.4	10.7	78.8	15.5	.6			86.8	12.7	38.5	61.5
1983	3.5	16.7	77.1	10.7	.2			95.2	4.6	52.8	47.2
1984	1.4	21.9	75.3	14.6				96.7	3.2	55.1	44.9
1985		8.2	71.7	22.8	19.5			79.1	1.5	52.6	47.4
1986		8.2	78.2	16.5	44.5	25.1	19.4	54.7	.7	35.7	64.3
1987		7.5	74.7	18.9	53.4	32.1	21.3	46.3	.3	44.0	56.0
1988		8.8	72.1	23.6	65.3	33.3	32.1	34.7		61.2	38.8
1989		7.3	72.4	23.8	75.8	38.0	37.8	24.2		55.7	44.3
1990		8.8	68.0	32.0	93.8	14.8	79.0	6.2		66.4	33.6
1991		5.3	66.7	33.3	96.8	49.3	47.5	3.2		80.0	20.0
1992		3.8	53.0	47.0	96.3	58.6	37.7	3.6	.1	86.6	13.4
1993		.3	62.0	38.0	94.0	62.8	31.2	6.0		63.6	36.4
1994			58.3	41.7	94.2	27.2	67.0	5.8		64.9	35.1
1995		.2	70.7	26.3	100.0	13.7	86.3			58.0	42.0
1996			59.4	37.0	100.0		100.0			61.5	38.5

APPENDIX G

TABLE G-11: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES — LARGE PICKUP

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	1126	.567	11.5	15.7	13.1	4241		343	151	13.3	115.5	.438	.0358	28.3
1976	1639	.628	12.4	16.3	13.9	4301		344	146	13.8	113.5	.423	.0341	30.5
1977	1719	.609	13.4	17.2	14.9	4318		347	156	13.1	116.4	.449	.0363	32.7
1978	1928	.589	13.3	16.8	14.7	4326		339	154	13.2	115.7	.454	.0357	32.3
1979	1748	.566	13.1	16.2	14.3	4486		330	149	14.1	113.1	.452	.0334	32.7
1980	947	.508	15.4	20.5	17.4	4227		294	134	14.3	110.1	.467	.0318	37.2
1981	990	.544	16.7	22.5	18.9	4068		285	130	14.2	110.0	.464	.0321	38.7
1982	849	.444	16.8	22.6	19.0	4151		287	133	14.3	110.4	.475	.0322	39.9
1983	754	.328	16.2	22.1	18.4	4197		289	135	14.2	110.7	.479	.0323	39.3
1984	1138	.340	16.6	22.5	18.8	4048		270	131	14.2	110.3	.503	.0324	38.6
1985	1192	.325	16.4	22.2	18.6	4139		275	141	13.7	113.0	.533	.0341	39.0
1986	1279	.294	16.8	22.8	19.1	4133		266	139	13.7	112.2	.550	.0335	39.8
1987	1039	.251	16.9	23.1	19.2	4068		261	145	13.2	114.6	.578	.0355	39.4
1988	1418	.311	16.4	23.3	19.0	4221		285	161	12.5	118.5	.580	.0380	40.3
1989	1349	.304	16.3	23.2	18.8	4242		285	163	12.5	119.0	.586	.0383	40.1
1990	1308	.344	16.5	24.0	19.2	4212		280	162	12.4	119.0	.600	.0384	40.7
1991	1148	.284	16.9	24.6	19.6	4149		269	160	12.4	118.7	.617	.0384	41.0
1992	1088	.268	16.3	24.0	19.1	4302		267	156	13.0	116.3	.604	.0362	41.1
1993	1694	.356	17.5	25.8	20.5	4142		255	160	12.4	118.8	.650	.0385	42.7
1994	2242	.409	17.5	25.6	20.4	4173		258	167	12.1	120.7	.668	.0398	42.9
1995	1861	.317	16.4	24.4	19.2	4422		277	174	12.2	121.0	.649	.0393	42.9
1996	2046	.348	16.6	24.7	19.5	4400		276	190	11.4	126.1	.705	.0431	43.1

PERCENT OF LARGE PICKUP:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	IMPORT
1975		16.1	33.0					100.0		100.0	
1976		23.8	32.9					100.0		100.0	
1977		25.2	27.7					100.0		100.0	
1978		30.5	28.5					98.6	1.4	100.0	
1979		10.5	27.3	1.7				96.9	3.1	100.0	
1980		25.2	43.4	33.3				94.9	5.1	93.6	6.4
1981	.3	17.1	42.0	39.9				97.8	2.2	94.9	5.1
1982	.1	22.6	36.6	39.3				91.4	8.6	91.8	8.2
1983		28.4	32.2	48.1				95.9	4.1	92.1	7.9
1984		27.0	38.6	41.0	1.7			96.0	2.3	80.6	19.4
1985		38.2	36.6	41.8	13.3	.5		85.6	1.1	85.7	14.3
1986		41.8	38.9	44.0	33.2	10.2	23.0	66.3	.5	81.6	18.4
1987		44.8	41.1	39.4	64.8	31.9	32.9	34.9	.3	82.0	18.0
1988		42.8	35.5	49.9	97.1	59.3	37.9	2.6	.3	88.3	11.7
1989		43.0	39.3	53.1	99.0	59.7	39.4	.7	.3	87.6	12.4
1990		35.6	36.9	57.0	93.8	52.1	41.7	5.9	.3	79.7	20.3
1991		37.8	40.6	57.0	96.7	49.7	47.0	3.1	.3	75.7	24.3
1992		41.3	35.6	61.0	97.3	18.5	78.8	2.5	.1	77.8	22.2
1993		32.6	39.8	59.2	98.7	32.4	66.3	1.3		84.2	15.8
1994		34.9	37.6	61.3	100.0	31.1	68.9			87.2	12.8
1995	.3	40.2	31.5	67.4	99.4	32.7	66.7		.6	89.6	10.4
1996		37.5	27.9	72.1	99.3		99.3		.7	91.9	8.1

TABLE G-12: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES SMALL VAN

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	1	.001	18.0	25.3	20.7	3496		109	67	21.0	91.8	.615	.0192	36.2
1976	1	.001	16.8	25.8	19.9	3500		120	67	20.9	91.8	.558	.0191	34.9
1977	2	.001	19.1	27.6	22.2	3500		120	67	20.8	91.8	.558	.0191	38.9
1978	3	.001	17.4	24.5	20.0	3500		120	67	20.9	91.8	.558	.0191	35.0
1979	8	.003	16.5	22.6	18.7	3500		120	67	20.9	91.8	.558	.0191	32.9
1980	16	.008	16.3	23.9	19.0	3618		120	67	21.4	91.3	.558	.0186	34.4
1981	11	.006	16.3	22.3	18.5	3644		120	67	21.6	91.2	.558	.0185	33.8
1982	15	.008	19.7	24.9	21.7	3668		111	61	23.4	89.1	.550	.0168	42.1
1983	14	.006	17.4	23.5	19.7	3567		118	69	20.9	92.2	.583	.0194	35.7
1984	217	.065	21.9	29.2	24.7	3380		136	94	15.8	102.6	.694	.0281	42.0
1985	442	.121	20.7	28.2	23.5	3521		169	109	14.9	106.8	.664	.0310	41.5
1986	650	.149	20.1	28.5	23.2	3671		181	115	14.6	107.7	.651	.0313	42.6
1987	868	.210	20.0	28.7	23.2	3672		185	133	13.1	114.1	.730	.0362	42.5
1988	804	.176	19.8	29.1	23.1	3816		194	140	12.9	115.2	.732	.0366	44.1
1989	922	.208	19.8	28.9	23.1	3843		191	138	13.2	114.2	.738	.0358	44.4
1990	970	.255	19.5	28.8	22.8	3934		197	140	13.2	114.4	.721	.0357	44.9
1991	836	.206	19.4	28.4	22.6	4013		197	142	13.2	114.3	.736	.0354	45.4
1992	1285	.316	18.9	27.8	22.1	4094		206	150	12.8	116.3	.738	.0368	45.2
1993	1155	.243	19.5	29.3	22.9	3966		200	149	12.6	117.1	.755	.0377	45.5
1994	1035	.189	19.4	29.1	22.8	4007		207	150	12.6	117.1	.738	.0376	45.7
1995	1401	.238	19.3	29.6	22.8	4035		214	153	12.5	117.7	.727	.0380	46.1
1996	1371	.233	19.3	30.0	23.0	4056		209	164	11.9	121.2	.792	.0405	46.6

PERCENT OF SMALL VAN:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	IMPORT
1975			70.8		100.0						100.0
1976			84.8		100.0						100.0
1977			89.9		100.0						100.0
1978			85.0		100.0						100.0
1979			81.2		100.0						100.0
1980			82.9		100.0						100.0
1981			81.2		100.0						100.0
1982			89.0		61.7				38.3		100.0
1983	4.2		76.9		93.6				6.4	4.2	95.8
1984	69.5		30.2	19.1	30.5			68.6	.9	62.8	37.2
1985	58.6	.7	15.3	34.7	17.8			82.2		78.9	21.1
1986	39.2	2.1	12.0	54.1	49.4	26.1	23.3	50.3	.3	84.3	15.7
1987	35.3	12.7	13.3	72.1	81.9	23.6	58.3	18.1		85.5	14.5
1988	51.1	1.1	4.8	85.5	100.0	36.0	64.0			93.1	6.9
1989	47.6	1.0	3.7	77.7	100.0	34.1	65.9			92.5	7.5
1990	60.8	8.6	2.0	96.4	100.0	34.9	65.1			91.9	8.1
1991	47.2	13.5	1.6	98.0	100.0	30.3	69.7			82.8	17.2
1992	43.1	22.6	5.6	95.0	100.0	18.6	81.4			89.4	10.6
1993	61.2	5.6	1.1	98.9	100.0	16.2	83.8			85.6	14.4
1994	66.4	7.5	.7	99.3	100.0	17.7	82.3			92.4	7.6
1995	64.5	13.9	.2	99.8	100.0	5.8	94.2			87.8	12.2
1996	79.1	4.2		100.0	100.0	3.9	96.1			86.3	13.7

APPENDIX G

TABLE G-13: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES LARGE VAN

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	455	.229	11.7	15.2	13.1	4198		318	143	13.9	113.2	.447	.0341	28.0
1976	500	.191	12.3	16.4	13.8	4202		324	146	13.7	114.0	.447	.0348	29.7
1977	512	.181	13.3	17.0	14.7	4255		333	153	13.2	115.8	.458	.0360	31.7
1978	622	.190	12.9	16.2	14.2	4253		330	149	13.3	114.8	.453	.0352	30.7
1979	472	.153	12.2	15.4	13.5	4559		325	146	14.5	111.4	.449	.0320	31.2
1980	226	.121	14.6	19.5	16.5	4404		299	135	14.8	109.2	.452	.0307	36.6
1981	234	.128	15.5	20.5	17.4	4357		292	132	15.0	108.6	.453	.0303	38.2
1982	296	.154	15.3	20.2	17.1	4376		296	136	14.8	109.6	.459	.0310	37.8
1983	368	.160	15.6	21.1	17.7	4445		301	139	14.7	110.0	.461	.0312	39.8
1984	459	.137	15.0	20.6	17.1	4402		302	141	14.5	111.0	.464	.0319	38.0
1985	412	.112	14.5	19.5	16.4	4462		308	150	13.9	113.4	.487	.0336	36.9
1986	394	.091	15.3	20.7	17.4	4537		304	148	14.2	112.2	.485	.0326	39.6
1987	398	.096	14.9	20.6	17.1	4599		310	161	13.5	115.7	.516	.0350	39.4
1988	329	.072	15.3	21.4	17.5	4632		313	164	13.3	116.4	.522	.0355	40.8
1989	355	.080	15.0	21.3	17.3	4614		315	168	13.1	117.7	.529	.0365	40.1
1990	292	.077	15.0	21.5	17.4	4628		319	177	12.6	120.5	.552	.0384	40.3
1991	198	.049	15.1	21.8	17.5	4636		316	175	12.7	119.8	.551	.0379	40.7
1992	122	.030	15.5	22.8	18.1	4601		326	192	11.7	125.3	.588	.0420	41.8
1993	244	.051	15.4	22.6	17.9	4777		315	185	12.4	121.9	.588	.0391	43.0
1994	269	.049	15.1	22.1	17.6	4770		315	194	11.9	124.5	.618	.0410	42.1
1995	310	.053	14.6	21.1	17.0	4910		318	191	12.3	122.5	.603	.0391	41.9
1996	292	.050	14.5	21.6	17.0	5139		316	193	12.7	121.5	.612	.0379	43.7

PERCENT OF LARGE VAN:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	IMPORT
1975			23.3					100.0		100.0	
1976			20.3					100.0		100.0	
1977			14.0					100.0		100.0	
1978			12.7					100.0		100.0	
1979			13.6	6.9				100.0		100.0	
1980			22.0	41.7				100.0		100.0	
1981	.3		19.1	48.9				100.0		100.0	
1982			12.0	48.1				100.0		100.0	
1983			9.6	61.7				95.6	4.4	100.0	
1984			8.5	58.2				98.6	1.4	100.0	
1985			4.2	61.0				99.4	.6	100.0	
1986			2.8	69.9	19.4		19.4	80.2	.5	100.0	
1987		10.3	2.7	53.4	70.1	33.1	37.0	29.6	.2	100.0	
1988			1.1	61.9	98.8	59.5	39.3	.8	.4	100.0	
1989			.9	73.5	99.8	61.8	37.9		.2	100.0	
1990			.2	83.7	99.7	65.0	34.7		.3	100.0	
1991			.1	90.1	99.6	63.2	36.4		.4	100.0	
1992				97.3	99.5	84.4	15.0		.5	100.0	
1993		.2		90.2	100.0	47.0	53.0			100.0	
1994				89.0	100.0	30.6	69.4			100.0	
1995				91.5	99.8	50.2	49.6		.2	100.0	
1996				93.7	100.0		100.0			100.0	

TABLE G-14: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES SMALL UTILITY

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	53	.027	14.1	19.3	16.1	2897		273	118	11.9	116.9	.429	.0416	23.3
1976	60	.023	14.2	18.6	15.9	2985		273	108	12.7	111.5	.397	.0367	24.0
1977	73	.026	15.2	19.8	17.0	3073		274	111	12.7	111.8	.406	.0366	26.2
1978	93	.029	14.8	19.6	16.7	3026		275	110	12.7	111.8	.400	.0368	25.3
1979	105	.034	15.4	18.5	16.7	3196		261	117	12.7	112.5	.463	.0366	26.7
1980	60	.033	17.0	21.8	18.8	3083		227	95	14.6	104.8	.454	.0306	29.3
1981	43	.023	18.2	23.9	20.4	3054		224	102	13.6	108.2	.475	.0335	31.4
1982	42	.022	18.5	23.8	20.5	2922		207	97	13.9	107.0	.495	.0331	30.0
1983	156	.068	19.0	26.9	21.9	3512		189	107	14.7	106.4	.586	.0309	38.8
1984	417	.125	19.0	26.9	21.9	3546		175	105	15.1	105.2	.609	.0297	39.0
1985	524	.143	18.9	27.9	22.1	3643		168	106	15.5	104.7	.632	.0291	40.5
1986	569	.131	19.3	27.0	22.2	3550		163	116	14.0	109.1	.720	.0328	39.5
1987	577	.140	19.4	27.7	22.4	3512		174	122	13.5	111.6	.716	.0348	39.3
1988	763	.167	19.0	27.3	22.0	3528		188	134	12.7	115.4	.725	.0377	39.0
1989	709	.160	18.8	26.5	21.6	3665		214	146	12.1	118.5	.700	.0398	39.7
1990	534	.140	18.5	26.3	21.4	3652		198	142	12.4	117.4	.737	.0390	39.1
1991	971	.240	17.9	26.1	20.9	3972		223	157	12.1	119.5	.716	.0396	41.5
1992	569	.140	17.7	25.6	20.6	3740		212	159	11.6	122.5	.762	.0427	38.6
1993	908	.191	18.0	26.2	21.0	3964		218	170	11.5	124.0	.783	.0430	41.6
1994	1152	.210	17.8	25.7	20.7	4037		215	168	11.7	122.6	.790	.0418	41.8
1995	1305	.222	17.7	25.7	20.6	4051		212	164	11.9	121.2	.789	.0407	41.8
1996	1124	.191	17.6	26.2	20.7	4224		234	174	11.7	123.0	.760	.0415	43.7

PERCENT OF SMALL UTILITY:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	IMPORT
1975		88.3	100.0					100.0		88.3	11.7
1976		85.6	84.6					100.0		85.6	14.4
1977		78.1	90.3					100.0		78.1	21.9
1978		83.2	87.2					100.0		83.2	16.8
1979		87.0	77.6					100.0		95.0	5.0
1980		100.0	88.6					100.0		91.8	8.2
1981		100.0	90.5	8.8				100.0		94.0	6.0
1982		74.2	67.4	6.8				100.0		85.3	14.7
1983		78.5	49.9	42.1				100.0		94.8	5.2
1984		88.1	38.9	42.1				100.0		93.2	6.8
1985		83.2	36.3	63.4	5.8			93.9	.2	91.2	8.8
1986		89.6	48.4	50.9	60.6	34.9	25.7	38.5	.9	74.2	25.8
1987		87.6	45.4	50.5	71.7	47.0	24.8	28.2		64.5	35.5
1988		85.7	41.4	56.6	82.6	31.2	51.4	17.4		70.0	30.0
1989		84.3	32.9	64.3	93.5	44.2	49.3	6.5		76.9	23.1
1990		87.3	38.5	59.9	94.4	29.6	64.8	5.6		58.3	41.7
1991		79.5	24.5	74.7	99.8	36.7	63.1	.2		76.9	23.1
1992		75.6	31.4	67.5	99.5	31.8	67.7	.5		61.0	39.0
1993	1.2	71.2	23.4	75.7	99.6	4.6	95.0	.4		75.0	25.0
1994	.8	74.4	20.6	77.2	100.0	5.0	95.0			70.7	29.3
1995	4.7	73.6	21.2	78.8	100.0		100.0			60.0	40.0
1996	.3	76.3	13.2	86.8	100.0		100.0			76.0	24.0

TABLE G-15: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES LARGE UTILITY

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	134	.067	11.0	13.6	12.1	4724		350	157	13.9	113.7	.447	.0333	28.7
1976	183	.070	11.8	15.4	13.2	4745		356	151	14.4	112.0	.424	.0320	31.4
1977	210	.075	13.0	16.9	14.5	4632		351	155	13.9	113.7	.440	.0335	33.8
1978	287	.088	12.3	16.2	13.8	4676		359	161	13.4	115.3	.449	.0346	32.4
1979	296	.096	10.6	12.9	11.6	4975		355	153	15.0	110.9	.430	.0307	28.9
1980	125	.067	12.7	16.8	14.3	4810		328	148	14.8	110.5	.452	.0308	34.7
1981	93	.051	13.8	18.5	15.6	4734		320	145	14.8	110.0	.454	.0305	37.2
1982	120	.063	14.8	20.2	16.8	4855		324	141	15.4	108.4	.438	.0293	42.4
1983	132	.057	14.4	20.0	16.5	4905		333	145	15.3	109.2	.439	.0297	41.8
1984	208	.062	13.6	18.7	15.5	4910		331	152	14.7	111.2	.461	.0310	39.2
1985	212	.058	13.8	19.2	15.8	4945		333	161	14.2	113.6	.485	.0327	39.7
1986	204	.047	14.1	20.1	16.3	4955		328	157	14.4	112.4	.481	.0318	40.9
1987	143	.035	13.7	19.6	15.8	5093		340	185	13.1	119.0	.544	.0362	41.0
1988	204	.045	13.9	19.8	16.1	5093		334	181	13.3	118.1	.543	.0355	41.3
1989	216	.049	13.8	20.0	16.0	5173		333	184	13.2	118.4	.553	.0356	41.9
1990	175	.046	13.7	20.8	16.2	5244		337	191	12.9	120.0	.569	.0366	42.8
1991	93	.023	13.7	20.3	16.0	5283		325	192	12.9	119.9	.595	.0364	42.6
1992	97	.024	13.5	20.4	15.9	5424		339	200	12.8	121.2	.590	.0370	43.2
1993	391	.082	15.0	22.9	17.8	4641		299	202	11.1	128.6	.690	.0446	41.1
1994	429	.078	15.3	22.6	17.9	4767		295	198	11.6	126.1	.695	.0424	42.6
1995	552	.094	14.7	22.0	17.2	4733		305	203	11.2	127.9	.678	.0439	40.6
1996	690	.117	15.6	22.8	18.2	4606		285	210	10.7	130.6	.748	.0460	41.7

PERCENT OF LARGE UTILITY:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	DESIGNED DOM	IMPORT
1975		82.4	17.9					100.0		100.0	
1976		85.3	17.3					100.0		100.0	
1977		84.1	17.2					100.0		100.0	
1978		90.0	17.1					100.0		100.0	
1979		63.0	17.6	.8				99.8	.2	100.0	
1980		82.8	21.4	38.7				96.5	3.5	100.0	
1981		86.0	18.3	55.9				100.0		100.0	
1982		81.3	16.4	54.8				79.3	20.7	100.0	
1983		82.7	10.1	62.4				85.3	14.7	100.0	
1984		78.6	10.1	44.6				93.1	6.9	100.0	
1985	.2	73.3	7.0	52.1	4.4		.2	91.1	4.5	100.0	
1986	.2	76.3	6.6	69.4	19.1	.2	19.0	77.6	3.3	98.9	1.1
1987		68.0	5.6	71.2	66.8	65.6	1.2	30.8	2.3	95.4	4.6
1988		76.2	3.6	70.5	89.6	57.2	32.5	9.0	1.4	95.0	5.0
1989		77.0	3.8	73.2	93.2	57.6	35.5	5.7	1.1	95.5	4.5
1990		73.7	2.6	86.5	95.0	60.6	34.4	3.9	1.1	96.1	3.9
1991		71.4	1.4	89.9	94.5	52.0	42.5	4.0	1.5	83.7	16.3
1992		74.1	1.7	97.8	100.0	68.7	31.3			96.8	3.2
1993		34.5	.8	99.2	100.0	30.7	69.3			96.6	3.4
1994	12.6	67.6	3.6	96.4	100.0	35.4	64.6			73.9	26.1
1995		81.1	1.1	98.9	99.9	39.2	60.7		.1	94.5	5.5
1996		83.4	2.8	97.2	99.6		99.6		.4	72.1	27.9

APPENDIX H

TABLE H-1: CHARACTERISTICS OF 1986 TO 1996 PASSENGER CARS BY VALVES — 2-VALVE CARS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1986	10490	.952	23.6	35.4	27.8	3053	108.0	170	111	13.2	110.9	.687	.0357	42.6	3064	4612
1987	9155	.853	23.2	35.3	27.4	3085	108.5	171	115	13.0	112.3	.706	.0367	42.5	3034	4625
1988	8601	.801	23.6	36.1	27.9	3109	109.2	171	118	12.8	113.3	.719	.0375	43.6	3111	4776
1989	7575	.756	23.0	35.8	27.4	3180	110.5	177	123	12.6	114.6	.723	.0382	43.7	3077	4843
1990	5906	.670	22.4	35.5	26.9	3292	111.2	182	129	12.4	115.9	.732	.0389	44.4	3031	4948
1991	5593	.656	22.5	35.8	27.0	3271	111.2	184	134	12.1	117.8	.749	.0405	44.4	3058	4951
1992	5367	.662	22.2	35.8	26.8	3333	112.4	190	142	11.7	120.2	.770	.0421	44.7	3054	5050
1993	5458	.645	23.0	36.8	27.6	3259	111.7	183	137	11.8	118.9	.765	.0414	45.1	3134	5064
1994	4587	.546	22.9	37.0	27.6	3269	110.2	181	137	11.8	119.0	.771	.0414	45.3	3099	5009
1995	3923	.421	22.7	37.7	27.6	3313	111.7	190	152	11.1	123.9	.808	.0452	45.9	3149	5139
1996	3893	.449	22.7	37.4	27.6	3384	113.0	193	159	10.9	125.7	.833	.0463	46.8	3166	5301

PERCENT OF 2-VALVE CARS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1986	70.4	1.1	22.8	59.2	65.1	29.9	35.3	34.6	.3	57.5	29.3	13.1	71.7	6.5	21.8
1987	74.2	1.2	20.7	61.2	77.4	35.8	41.7	22.3	.3	57.4	28.5	14.1	72.2	7.4	20.4
1988	78.4	.8	19.4	68.7	90.0	35.2	54.8	10.0		57.9	26.3	15.9	75.0	6.9	18.1
1989	79.8	.7	15.2	72.4	94.4	31.0	63.4	5.6	.1	46.9	35.4	17.7	79.6	6.3	14.2
1990	82.9	.4	11.1	78.5	99.4	25.0	74.4	.6	.1	42.1	38.9	18.9	82.7	6.0	11.3
1991	81.5	.3	11.5	80.6	99.8	25.9	73.9		.2	45.4	36.0	18.6	84.8	5.1	10.2
1992	81.3	.6	9.9	81.6	99.9	12.8	87.1		.1	44.1	32.7	23.2	84.8	3.9	11.3
1993	83.2	1.0	11.7	82.1	100.0	11.1	88.9			47.7	33.3	18.9	89.7	2.1	8.2
1994	86.7	1.0	11.6	83.2	100.0	9.1	90.9			51.8	30.8	17.4	83.6	2.2	14.2
1995	85.8	.3	13.0	84.3	100.0	3.3	96.7			45.0	33.8	21.3	89.4	3.8	6.8
1996	78.8	.2	11.4	87.7	100.0		100.0			41.6	36.6	21.8	91.0	3.5	5.5

TABLE H-2: CHARACTERISTICS OF 1986 TO 1996 PASSENGER CARS BY VALVES, CONT. 3-VALVE CARS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1986	349	.032	27.9	39.8	32.2	2668	96.7	115	102	12.3	112.0	.888	.0382	43.1	3117	4180
1987	975	.091	30.2	41.4	34.4	2524	93.4	101	82	14.4	104.5	.799	.0322	43.6	3223	4069
1988	1017	.095	28.2	39.4	32.4	2689	99.4	109	93	13.6	107.7	.850	.0343	43.7	3247	4347
1989	1161	.116	26.8	38.5	31.0	2788	100.3	117	105	12.5	111.8	.902	.0375	43.5	3156	4366
1990	639	.073	27.0	39.0	31.4	2738	98.5	117	106	12.3	112.8	.911	.0385	43.2	3139	4259
1991	526	.062	27.7	39.4	32.0	2692	100.7	111	102	12.5	111.5	.928	.0377	43.2	3254	4353
1992	330	.041	26.8	38.1	30.9	2785	101.5	120	112	12.0	114.4	.938	.0396	43.1	3200	4387
1993	225	.027	30.7	42.1	35.0	2472	96.5	93	92	12.6	109.6	.984	.0370	43.5	3421	4198
1994	163	.019	30.8	41.4	34.9	2501	97.4	95	92	12.8	109.2	.962	.0364	43.7	3445	4260
1995	95	.010	31.9	45.3	36.8	2482	99.5	90	91	12.7	109.3	1.006	.0367	45.8	3674	4555
1996	1	.000	33.9	46.1	38.5	2370	98.8	90	92	12.1	111.2	1.022	.0389	45.9	3826	4533

PERCENT OF 3-VALVE CARS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1986	100.0		60.5	39.5	48.4		48.4	51.6		100.0					100.0
1987	99.4	.6	53.7	46.3	18.9		18.9	81.1		100.0					100.0
1988	95.9	1.3	49.8	50.1	27.7		27.7	72.3		86.5	13.5				100.0
1989	92.2	.1	44.5	54.5	70.0	21.2	48.9	30.0		89.1	10.9				100.0
1990	89.0	.8	49.1	46.5	86.1	25.7	60.4	13.9		84.1	15.9				100.0
1991	98.2	1.2	41.9	51.0	99.5	13.7	85.8	.5		80.3	19.7				100.0
1992	90.9	.1	40.1	59.9	99.8		99.8	.2		80.6	19.4				100.0
1993	99.1	.9	52.1	28.7	100.0	7.1	92.9			100.0					100.0
1994	93.8		10.4	33.9	100.0		100.0			93.3	6.7				100.0
1995	100.0		36.4	33.1	100.0		100.0			100.0					100.0
1996	100.0		57.3		100.0		100.0			100.0					100.0

TABLE H-3: CHARACTERISTICS OF 1986 TO 1996 PASSENGER CARS BY VALVES, CONT. 4-VALVE CARS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1986	176	.016	23.9	34.7	27.8	3032	89.0	125	144	10.6	124.5	1.150	.0470	42.5	2487	3754
1987	601	.056	25.9	37.2	30.0	3025	98.4	123	126	11.8	117.6	1.026	.0413	45.8	3021	4518
1988	1117	.104	26.7	38.2	30.9	2889	97.1	120	119	12.0	116.0	.983	.0405	44.9	3063	4367
1989	1282	.128	26.2	37.7	30.4	2901	97.9	120	124	11.5	118.1	1.027	.0422	44.3	3029	4340
1990	2264	.257	25.3	36.4	29.3	2997	98.6	125	133	11.3	120.4	1.060	.0437	44.1	2933	4357
1991	2405	.282	25.6	36.8	29.6	2983	97.8	125	133	11.2	120.8	1.071	.0441	44.4	2953	4356
1992	2411	.297	24.9	37.0	29.2	3094	100.3	130	140	11.1	122.0	1.077	.0446	45.4	2986	4561
1993	2773	.328	24.5	36.9	28.9	3165	102.9	138	145	11.0	123.0	1.052	.0451	46.0	3029	4726
1994	3652	.435	23.9	36.6	28.3	3262	106.2	155	152	10.9	124.4	1.021	.0459	46.3	3050	4921
1995	5295	.569	24.2	37.6	28.8	3248	106.4	153	155	10.6	125.9	1.044	.0471	46.9	3110	4994
1996	4772	.551	24.5	38.4	29.3	3205	105.2	146	154	10.6	125.8	1.061	.0472	47.0	3123	4948

PERCENT OF 4-VALVE CARS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1986	56.6		72.2	23.1	100.0		100.0			94.8		5.2		27.9	72.1
1987	84.6		43.4	54.8	93.2		93.2	6.8		97.7		2.3		11.3	88.7
1988	94.2	.8	38.1	60.9	86.5	17.4	69.1	13.5		98.7	.1	1.2	10.7	7.5	81.7
1989	90.0	3.1	33.7	64.5	84.1	15.6	68.5	15.9		97.4	1.8	.8	13.7	5.9	80.4
1990	88.0	2.5	33.7	65.7	100.0	9.6	90.4			94.2	5.5	.3	5.3	3.6	91.0
1991	84.1	3.9	36.8	62.0	100.0	14.3	85.7			94.8	4.9	.4	2.2	4.4	93.4
1992	78.4	2.3	30.6	67.1	100.0	6.4	93.6			80.9	18.2	1.0	7.1	5.1	87.8
1993	87.7	1.6	27.1	70.6	100.0	3.4	96.6			72.4	24.4	3.2	7.5	6.4	86.1
1994	80.6	.3	21.7	76.6	100.0		100.0			65.3	21.1	13.6	23.3	6.3	70.4
1995	76.4	3.2	18.6	79.4	100.0		100.0			66.4	22.7	10.9	33.6	9.6	56.8
1996	92.0	1.7	19.9	77.4	100.0		100.0			65.7	24.3	10.0	31.3	8.9	59.7

TABLE H-4: CHARACTERISTICS OF 1994 TO 1996 LIGHT-DUTY TRUCKS BY VALVES — 2-VALVE TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1994	5172	.944	17.9	26.3	20.9	4136	.1	243	166	12.0	121.0	.705	.0402	43.4
1995	5403	.919	17.3	25.9	20.4	4239		250	168	12.1	120.8	.698	.0398	43.5
1996	5229	.888	17.2	26.1	20.3	4331	1.0	258	182	11.6	124.3	.722	.0421	44.2

PERCENT OF 2-VALVE TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	IMPORT
1994	14.3	33.9	23.4	75.1	99.6	24.5	75.1	.4		75.7	23.8	.5	87.8	
1995	17.2	37.6	19.4	79.7	99.8	20.8	78.9		.2	71.2	28.8		88.3	
1996	20.2	35.8	12.9	86.7	99.7	1.0	98.7		.3	72.7	27.3		93.7	

CHARACTERISTICS OF 1994 TO 1996 LIGHT-DUTY TRUCKS BY VALVES — 3-VALVE TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1994	156	.029	16.4	23.1	18.9	4119	3.1	179	150	12.8	116.1	.837	.0366	39.0
1995	16	.003	17.8	26.9	21.0	4089		180	152	12.6	117.0	.844	.0372	42.9
1996	136	.023	21.7	30.1	24.8	3415		150	136	11.8	117.9	.910	.0403	42.4

PERCENT OF 3-VALVE TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1994		91.3	36.4	63.6	100.0		100.0			62.0			
1995		17.9		100.0	100.0		100.0			82.1			
1996		14.6	67.4	32.6	100.0		100.0			98.7			

CHARACTERISTICS OF 1994 TO 1996 LIGHT-DUTY TRUCKS BY VALVES — 4-VALVE TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1994	152	.028	17.5	23.8	19.9	4070	2.2	191	172	11.4	123.3	.907	.0421	40.6
1995	459	.078	18.0	24.8	20.6	4012	12.4	179	158	12.1	119.6	.886	.0396	41.4
1996	521	.089	18.4	25.2	20.9	4058	1.0	192	175	11.3	124.6	.926	.0432	42.6

PERCENT OF 4-VALVE TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1994	5.9	73.3	27.8	72.2	100.0		100.0			23.6			
1995	8.4	68.6	30.7	66.4	100.0		100.0			42.8			
1996	6.4	69.6	36.3	61.2	100.0		100.0			53.5		5.8	

APPENDIX I

TABLE I-1: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES — 1750 LB. CARS

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1985	37	.003	51.9	66.1	57.4	1750	82.6	61	48	16.1	95.8	.787	.0274	50.4	4756	4161
1986	81	.007	50.8	63.7	55.9	1750	84.6	61	46	16.3	94.8	.759	.0264	49.8	4809	4208
1987	38	.004	51.3	65.4	56.8	1750	84.4	61	46	16.2	94.7	.756	.0264	50.1	4828	4224
1988	55	.005	47.0	58.7	51.6	1750	84.6	61	47	16.3	95.0	.766	.0267	46.0	4443	3888
1989	25	.003	54.1	67.4	59.4	1750	90.9	61	49	15.4	96.5	.806	.0281	52.0	5400	4725
1990	4	.001	59.1	74.8	65.3	1750	89.1	61	49	15.4	96.4	.803	.0280	57.1	5815	5088
1991	4	.000	59.2	74.7	65.3	1750	89.1	61	55	14.1	99.9	.902	.0314	57.1	5815	5089
1992	8	.001	59.1	74.8	65.3	1750	89.1	61	55	14.1	99.9	.902	.0314	57.1	5815	5088
1993	10	.001	59.1	74.8	65.3	1750	89.1	61	55	14.1	99.9	.902	.0314	57.1	5815	5088
1994	8	.001	60.0	74.7	65.8	1750	89.1	61	55	14.1	99.9	.902	.0314	57.6	5864	5131

PERCENT OF 1750 LB. CARS:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE MID	VEHICLE SIZE LARGE	DESIGNED DOM	DESIGNED EUR	DESIGNED ASIA
1985	100.0		90.1					100.0		100.0					100.0
1986	100.0		64.7					100.0		100.0					100.0
1987	100.0		100.0					100.0		100.0					100.0
1988	100.0		59.5		2.8	2.8		97.2		100.0					100.0
1989	100.0		100.0		100.0	100.0				100.0					100.0
1990	100.0		100.0		100.0	100.0				100.0					100.0
1991	100.0		100.0		100.0	100.0				100.0					100.0
1992	100.0		100.0		100.0	100.0				100.0					100.0
1993	100.0		100.0		100.0	100.0				100.0					100.0
1994	100.0		100.0		100.0	100.0				100.0					100.0

APPENDIX I

TABLE I-2: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES — 2000 LB. CARS

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	105	.013	27.3	38.5	31.4	2000		83	54	15.9	96.6	.655	.0272	31.5		
1976	154	.016	28.4	39.8	32.6	2000		83	56	15.6	97.4	.670	.0279	32.9		
1977	157	.014	31.3	44.0	36.0	2000	73.7	84	61	14.4	100.4	.739	.0307	36.8	2709	2709
1978	270	.024	30.9	41.7	34.9	2000	80.3	90	62	14.3	100.9	.695	.0312	35.3	2847	2847
1979	234	.022	28.2	38.3	32.0	2000	80.1	88	62	14.4	100.9	.712	.0312	32.3	2594	2594
1980	280	.030	29.0	39.6	33.0	2000	85.7	90	63	14.3	101.1	.696	.0314	33.4	2860	2860
1981	209	.024	34.3	44.9	38.4	2000	86.7	86	64	14.0	101.8	.744	.0321	38.8	3362	3362
1982	157	.020	35.9	47.3	40.3	2000	87.3	86	61	14.5	100.4	.715	.0308	40.7	3554	3554
1983	94	.012	38.7	51.6	43.6	2000	86.0	84	61	14.4	100.4	.728	.0308	44.0	3783	3783
1984	92	.009	39.4	52.3	44.3	2000	73.5	86	67	13.5	103.4	.776	.0335	45.0	3297	3297
1985	62	.006	39.5	52.4	44.4	2000	60.2	89	69	13.6	104.7	.782	.0348	45.5	2757	2757
1986	58	.005	31.7	45.0	36.6	2000	72.3	76	56	15.4	97.6	.750	.0281	38.9	2658	2658
1987	106	.010	35.7	46.8	40.0	2000	79.9	70	55	15.9	97.1	.799	.0276	41.7	3256	3256
1988	186	.017	39.5	49.8	43.6	2000	91.0	77	59	15.0	98.9	.770	.0293	44.4	4009	4009
1989	135	.013	39.8	49.1	43.5	2000	92.4	76	59	15.2	99.0	.782	.0294	44.5	4056	4056
1990	71	.008	42.6	55.4	47.5	2000	92.7	72	58	15.2	98.6	.813	.0290	48.0	4449	4449
1991	142	.017	42.3	54.7	47.1	2000	88.8	67	58	15.3	98.4	.866	.0288	47.7	4243	4243
1992	120	.015	42.5	54.7	47.3	2000	88.8	64	56	15.6	97.7	.886	.0282	47.8	4254	4254
1993	111	.013	43.6	56.5	48.6	2000	91.1	67	58	15.2	98.6	.870	.0291	49.2	4485	4485
1994	90	.011	44.4	56.3	49.1	2000	91.9	61	55	15.8	97.1	.903	.0276	49.8	4579	4579
1995	58	.006	43.4	55.3	48.1	2000	92.0	61	55	15.9	97.0	.902	.0275	48.8	4486	4486
1996	25	.003	48.9	63.3	54.5	2000	92.0	61	55	15.7	97.0	.902	.0275	54.5	5016	5016

PERCENT OF 2000. LB. CARS:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE MID	VEHICLE SIZE LARGE	DESIGNED DOM	DESIGNED EUR	DESIGNED ASIA
1975	100.0		100.0					100.0		100.0				2.3	97.7
1976	92.5		89.7					100.0		100.0				10.1	89.9
1977	100.0		87.0					100.0		100.0				6.0	94.0
1978	100.0		100.0					100.0		100.0				53.9	46.1
1979	100.0		100.0					100.0		100.0				39.8	60.2
1980	100.0		83.9					100.0		100.0				43.3	56.7
1981	82.7		90.6					100.0		100.0				5.4	94.6
1982	85.1		93.0	2.5				100.0		100.0				15.3	84.7
1983	91.9		100.0		8.1		8.1	91.9		100.0				9.4	90.6
1984	98.7		96.7	3.1	1.3		1.3	98.7		100.0					100.0
1985	100.0		94.7	5.3	11.9		11.9	88.1		100.0					100.0
1986	100.0		100.0					100.0		100.0				61.2	38.8
1987	100.0		80.5		6.3		6.3	93.7		100.0				45.9	54.1
1988	93.9	6.1	99.0		14.0		14.0	86.0		100.0				14.5	85.5
1989	100.0		65.0		57.2	19.3	37.9	42.8		100.0				1.7	98.3
1990	100.0		89.8		97.4	46.9	50.5	2.6		100.0					100.0
1991	100.0		68.4		98.3	69.2	29.1	1.7		100.0				.5	99.5
1992	100.0		53.4		99.6	86.6	13.0	.4		100.0					100.0
1993	100.0		76.2		100.0	71.3	28.7			100.0					100.0
1994	100.0		49.8		100.0	98.3	1.7			100.0					100.0
1995	100.0		50.0		100.0		100.0			100.0					100.0
1996	100.0		100.0		100.0		100.0			100.0					100.0

APPENDIX I

TABLE I-3: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES — 2250 LB. CARS

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	375	.046	24.0	36.4	28.3	2250		89	66	15.3	100.1	.749	.0294	32.1		
1976	570	.059	25.8	36.1	29.6	2250		91	66	15.3	100.3	.736	.0296	33.6		
1977	851	.075	27.8	39.5	32.1	2250	85.5	90	68	14.8	101.1	.762	.0303	36.8	2799	3149
1978	886	.079	28.1	38.3	31.9	2250	85.6	89	67	15.0	100.5	.758	.0298	36.8	2814	3166
1979	699	.065	27.5	37.9	31.4	2250	88.0	88	65	15.2	99.8	.745	.0291	35.9	2813	3165
1980	1162	.123	28.4	38.9	32.4	2250	89.6	92	67	15.0	100.3	.722	.0296	37.1	2956	3325
1981	1191	.136	30.2	41.5	34.4	2250	91.3	96	68	14.8	100.9	.710	.0302	39.3	3187	3586
1982	884	.113	31.3	42.7	35.6	2250	92.5	94	66	15.0	100.1	.703	.0294	40.5	3328	3744
1983	985	.123	31.8	43.7	36.2	2250	96.4	94	67	14.9	100.6	.709	.0298	41.2	3528	3969
1984	899	.084	32.6	44.6	37.1	2250	97.2	94	68	14.8	101.1	.721	.0303	42.3	3657	4114
1985	840	.078	33.2	44.7	37.5	2250	96.9	94	70	14.6	102.0	.748	.0312	42.7	3678	4138
1986	745	.068	34.2	45.3	38.5	2250	93.1	93	68	14.8	101.2	.737	.0304	43.8	3627	4080
1987	461	.043	34.8	45.7	39.0	2250	89.7	90	69	14.6	101.6	.766	.0308	44.2	3534	3976
1988	401	.037	34.8	45.6	38.9	2250	91.7	90	73	13.9	103.5	.808	.0325	44.2	3603	4053
1989	280	.028	34.6	45.4	38.7	2250	93.4	89	78	13.3	105.9	.876	.0347	44.0	3655	4112
1990	97	.011	35.6	45.9	39.6	2250	87.6	86	77	13.5	105.3	.891	.0341	45.1	3456	3888
1991	129	.015	34.0	44.6	38.1	2250	90.3	88	81	12.9	107.4	.921	.0360	43.7	3444	3874
1992	146	.018	35.2	46.9	39.7	2250	93.2	89	82	12.8	107.9	.924	.0365	45.8	3796	4271
1993	136	.016	34.4	45.6	38.7	2250	94.4	88	81	12.8	107.6	.921	.0362	44.2	3710	4173
1994	112	.013	35.3	47.5	39.9	2250	95.7	86	76	13.5	105.2	.882	.0340	45.4	3865	4348
1995	229	.025	36.1	47.8	40.6	2250	96.9	83	74	14.0	104.1	.895	.0331	46.2	3980	4478
1996	158	.018	35.9	47.9	40.5	2250	96.8	83	77	13.6	105.3	.914	.0341	46.0	3960	4455

PERCENT OF 2250. LB. CARS:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE MID	VEHICLE SIZE LARGE	DESIGNED DOM	DESIGNED EUR	DESIGNED ASIA
1975	46.1		90.3		22.6		22.6	77.4		100.0				65.0	35.0
1976	37.5		72.2		5.7		5.7	94.3		100.0			32.9	36.9	30.2
1977	43.0		78.9		14.4		14.4	83.7	1.9	100.0			15.7	33.6	50.7
1978	41.6		80.6		16.7		16.7	79.2	4.1	100.0			13.9	26.6	59.5
1979	44.8		87.0		15.6		15.6	79.0	5.5	100.0			11.3	27.5	61.2
1980	57.9		80.7		14.9		14.9	75.7	9.3	100.0			20.5	26.2	53.3
1981	69.8		82.7	5.0	6.5		6.5	84.3	9.2	100.0			33.3	15.7	51.0
1982	79.8		74.9	6.8	5.7		5.7	89.6	4.7	100.0			27.0	11.2	61.9
1983	93.2	1.6	72.6	10.2	20.1	12.1	8.0	78.5	1.4	100.0			29.4	7.5	63.0
1984	91.1		71.8	13.5	23.3	16.5	6.8	74.1	2.6	100.0			36.9	8.4	54.7
1985	97.1	.3	65.3	21.6	10.2	8.6	1.6	89.7	.1	100.0			20.9		79.1
1986	96.3		65.5	20.1	14.0	6.3	7.7	85.9		100.0			10.0		90.0
1987	96.3		70.5	14.1	13.2	3.4	9.9	86.8		100.0			7.1		92.9
1988	100.0		69.9	18.0	37.5	28.1	9.4	62.5		100.0				2.9	97.1
1989	100.0		63.5	15.0	33.1	28.0	5.1	66.9		100.0				.1	99.9
1990	95.4	4.6	70.3	3.6	59.6	20.3	39.4	40.4		100.0					100.0
1991	95.7	4.3	69.6	22.3	99.1	18.8	80.3	.9		100.0				.1	99.9
1992	99.8	.2	80.0	12.5	99.8	2.0	97.8	.2		100.0					100.0
1993	98.6	1.4	76.0	13.3	100.0	1.8	98.2			100.0					100.0
1994	100.0		30.8	17.3	100.0		100.0			100.0					100.0
1995	100.0		44.4	23.0	100.0	43.4	56.6			100.0					100.0
1996	100.0		49.9	20.7	100.0		100.0			100.0					100.0

APPENDIX I

TABLE I-4: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES — 2500 LB. CARS

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	406	.049	20.9	30.5	24.4	2500		95	73	15.2	100.9	.774	.0292	30.7		
1976	349	.036	22.4	33.1	26.2	2500		97	73	15.1	101.1	.75	.0294	33.1		
1977	465	.041	25.5	35.8	29.3	2500	90.3	98	75	14.9	101.7	.764	.0299	36.9	2674	3343
1978	782	.070	24.6	33.5	27.9	2500	91.6	101	74	15.1	101.4	.734	.0297	35.3	2582	3227
1979	1078	.100	24.7	33.1	27.9	2500	90.6	101	72	15.4	100.3	.710	.0287	35.1	2543	3178
1980	1172	.124	24.8	33.3	28.0	2500	92.3	104	71	15.6	99.9	.680	.0283	35.3	2607	3259
1981	1531	.175	25.8	35.3	29.4	2500	94.8	108	76	14.8	102.4	.711	.0305	37.0	2816	3520
1982	1442	.184	27.1	38.1	31.2	2500	91.5	106	72	15.4	100.5	.683	.0289	39.4	2898	3623
1983	1240	.155	28.1	39.1	32.2	2500	94.8	106	75	15.0	101.9	.705	.0300	40.7	3104	3879
1984	1529	.143	28.4	40.0	32.7	2500	96.3	107	78	14.7	103.2	.726	.0312	41.3	3194	3993
1985	1699	.157	28.5	40.4	32.8	2500	98.3	109	82	14.2	105.2	.760	.0330	41.5	3284	4106
1986	1622	.147	29.4	40.9	33.7	2500	100.0	106	80	14.3	104.2	.759	.0321	42.4	3399	4249
1987	1975	.184	29.3	40.5	33.4	2500	98.9	104	78	14.6	103.1	.749	.0311	42.1	3330	4162
1988	1802	.168	30.1	40.9	34.1	2500	99.5	100	78	14.5	103.4	.785	.0314	42.9	3418	4272
1989	1335	.133	30.1	41.5	34.4	2500	98.0	98	85	13.6	106.3	.865	.0339	43.2	3384	4231
1990	942	.107	30.9	42.1	35.1	2500	94.0	97	89	13.0	108.2	.920	.0356	44.1	3330	4162
1991	748	.088	31.4	43.1	35.8	2500	94.2	96	91	12.8	109.2	.957	.0365	45.0	3407	4259
1992	525	.065	31.2	43.8	35.9	2500	94.1	97	94	12.5	110.4	.980	.0376	45.2	3416	4270
1993	517	.061	31.6	45.1	36.5	2500	93.9	99	93	12.5	110.3	.956	.0374	46.1	3465	4331
1994	424	.050	31.0	44.7	36.0	2500	94.4	100	91	12.8	109.4	.930	.0366	45.6	3455	4319
1995	434	.047	32.0	47.7	37.6	2500	94.0	101	100	11.9	113.1	.992	.0399	47.4	3570	4462
1996	359	.041	32.7	47.8	38.2	2500	94.7	99	100	11.9	113.4	1.015	.0402	48.0	3650	4563

PERCENT OF 2500. LB. CARS:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE MID	VEHICLE SIZE LARGE	DESIGNED DOM	DESIGNED EUR	DESIGNED ASIA
1975	36.0		75.3		20.4		20.4	79.6		100.0				47.2	52.8
1976	18.3		67.5		12.9		12.9	87.1		100.0				27.1	72.9
1977	20.7		69.3		12.5		12.5	86.3	1.2	100.0				15.8	84.2
1978	34.3		53.2		8.0		8.0	92.0		100.0			41.6	10.0	48.5
1979	43.7	3.5	56.8		2.3		2.3	97.2	.6	100.0			46.3	5.6	48.0
1980	47.9	3.9	52.5		3.8		3.8	93.5	2.8	100.0			38.0	8.2	53.7
1981	53.6	2.7	52.4	.9	4.1		4.1	93.4	2.5	96.3	3.7		49.8	5.3	44.9
1982	69.3	.6	57.3	8.6	4.6		4.6	92.4	3.0	99.3	.7		50.3	5.9	43.8
1983	68.9	13.1	57.2	20.7	3.2	.1	3.2	96.3	.4	98.6	1.4		42.3	2.4	55.3
1984	75.4	2.4	47.3	26.4	13.5	1.6	11.9	84.4	2.2	99.9	.1		46.5	8.2	45.2
1985	77.1	9.2	58.5	19.8	19.9	4.2	15.7	78.4	1.7	100.0			46.6	10.5	42.8
1986	94.3	.9	49.5	22.1	22.2	5.3	16.9	76.8	1.0	100.0			42.7	11.7	45.6
1987	97.7	.8	47.7	32.6	33.2	19.5	13.6	66.8		100.0			28.2	8.9	62.9
1988	99.7	.3	48.3	41.8	63.4	51.5	11.9	36.6		100.0			17.1	5.7	77.2
1989	97.8	2.2	52.0	37.6	72.0	47.3	24.7	28.0		100.0			14.7	4.6	80.7
1990	94.4	.1	56.7	34.2	95.5	51.0	44.5	4.5		100.0			11.9	3.5	84.6
1991	94.7	.1	62.7	36.6	100.0	36.0	64.0			100.0			11.0	1.4	87.6
1992	94.7		53.6	46.3	100.0	17.4	82.6			100.0			14.9	.4	84.7
1993	95.8		61.9	32.8	100.0	23.3	76.7			100.0			22.9	3.1	73.9
1994	94.8	.4	50.7	41.6	100.0	24.6	75.4			100.0			24.6		75.4
1995	95.5		49.7	43.7	100.0		100.0			100.0			34.4		65.6
1996	100.0		55.1	39.7	100.0		100.0			100.0			20.6		79.4

APPENDIX I

TABLE I-5: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 2750 LB. CARS

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	281	.034	18.5	27.7	21.7	2750		127	100	12.8	110.5	.799	.0365	30.4		
1976	203	.021	21.1	30.4	24.5	2750		121	95	13.4	108.4	.794	.0348	34.1		
1977	349	.031	21.3	30.9	24.8	2750	80.3	126	96	13.3	108.7	.765	.0350	34.5	2026	2786
1978	498	.045	21.4	30.9	24.8	2750	88.6	129	94	13.4	107.9	.740	.0344	34.5	2220	3052
1979	459	.043	20.5	30.3	24.0	2750	82.2	132	94	13.6	107.6	.710	.0341	33.3	2017	2773
1980	973	.103	22.1	33.3	26.1	2750	96.0	141	93	13.6	107.4	.665	.0339	36.3	2549	3505
1981	714	.082	24.0	34.2	27.7	2750	107.2	136	92	13.8	106.7	.678	.0333	38.3	2972	4086
1982	961	.123	24.5	36.5	28.8	2750	104.3	124	87	14.4	104.7	.707	.0316	39.6	3006	4133
1983	863	.108	26.2	37.0	30.2	2750	106.3	124	88	14.2	105.2	.712	.0320	41.8	3235	4448
1984	2050	.192	25.9	37.5	30.1	2750	102.7	127	89	14.1	105.6	.705	.0324	41.7	3112	4279
1985	1878	.174	26.4	37.9	30.6	2750	102.9	128	93	13.6	107.5	.735	.0340	42.2	3163	4349
1986	1899	.172	26.4	38.2	30.6	2750	102.0	125	95	13.4	108.3	.769	.0347	42.4	3140	4318
1987	1896	.177	26.5	38.4	30.8	2750	101.7	124	96	13.3	108.7	.790	.0350	42.6	3142	4321
1988	1519	.141	27.1	39.3	31.5	2750	102.1	123	97	13.1	109.1	.804	.0354	43.5	3225	4435
1989	1204	.120	27.3	39.7	31.8	2750	101.7	118	96	13.3	108.5	.820	.0349	43.8	3240	4455
1990	1081	.123	27.6	39.5	31.9	2750	98.7	111	100	12.9	110.3	.919	.0364	44.0	3158	4343
1991	1462	.172	27.8	40.7	32.5	2750	100.3	112	100	12.9	110.4	.913	.0364	44.8	3273	4500
1992	1280	.158	27.9	41.1	32.6	2750	98.5	110	106	12.3	112.8	.972	.0386	45.1	3234	4447
1993	1651	.195	28.1	41.7	33.0	2750	101.9	112	106	12.4	112.7	.955	.0384	45.6	3378	4644
1994	1521	.181	28.6	42.8	33.6	2750	101.2	109	108	12.1	113.8	1.001	.0394	46.5	3423	4706
1995	1710	.184	29.7	43.6	34.7	2750	102.2	110	111	12.0	115.0	1.016	.0404	47.8	3554	4887
1996	1510	.174	29.5	43.6	34.5	2750	102.1	108	110	12.0	114.6	1.020	.0400	47.7	3540	4868

PERCENT OF 2750. LB. CARS:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE MID	VEHICLE SIZE LARGE	DESIGNED DOM	DESIGNED EUR	DESIGNED ASIA
1975	.4		70.7		3.9		3.9	96.1		100.0			9.2	17.4	73.3
1976	.9		63.5		3.6		3.6	96.4		100.0			15.3	27.3	57.4
1977	2.0		67.5		9.4		9.4	90.6		100.0			21.2	26.8	52.0
1978	.9		66.7		5.5		5.5	94.5		100.0			27.7	13.9	58.4
1979	5.4		59.6		6.1		6.1	93.9		100.0			60.1	16.1	23.7
1980	47.9		53.6		13.8		13.8	86.2		66.9	33.1		69.0	6.8	24.2
1981	70.0		36.0		18.3		18.3	81.1	.6	43.2	56.8		69.8	7.5	22.7
1982	77.9	3.1	33.7	30.2	12.2	5.8	6.4	87.4	.4	69.7	30.3		73.8	6.5	19.8
1983	89.4	4.0	31.2	33.0	52.9	40.6	12.3	46.5	.6	70.5	29.5		76.3	7.2	16.6
1984	87.7	2.2	30.5	36.3	54.7	42.4	12.2	44.3	1.0	85.7	14.3		80.6	2.3	17.1
1985	93.3	2.8	21.8	45.1	74.0	59.5	14.5	25.6	.4	86.0	14.0		72.9	3.2	23.9
1986	92.7	2.9	34.7	47.5	84.7	52.6	32.1	15.0	.3	91.3	8.7		59.6	1.6	38.8
1987	95.7	1.9	31.5	44.0	83.2	58.4	24.7	16.6	.2	92.7	7.3		61.0	1.6	37.4
1988	97.4	1.8	31.0	58.1	78.6	59.8	18.9	21.4		85.9	14.1		60.7	6.3	32.9
1989	97.5	1.1	29.6	59.2	85.6	63.8	21.8	14.1	.3	91.2	8.8		64.3	6.2	29.5
1990	99.0	.9	25.7	65.5	99.5	43.0	56.5	.4	.2	100.0			40.4	6.0	53.7
1991	99.3	.2	28.1	68.0	99.7	36.1	63.5		.3	100.0			46.3	5.3	48.4
1992	99.5	.5	30.0	64.4	99.9	14.0	85.9		.1	100.0			40.8	4.7	54.5
1993	98.4	1.6	27.3	69.4	100.0	6.2	93.8			100.0			52.8	.3	47.0
1994	98.4	.3	32.1	66.4	100.0	.3	99.7			100.0			21.5	.6	77.9
1995	99.9	.1	29.7	70.3	100.0		100.0			100.0			54.7	.9	44.4
1996	100.0		28.8	70.8	100.0		100.0			100.0			48.0	.1	51.9

APPENDIX I

TABLE I-6: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES — 3000 LB. CARS

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	828	.100	18.4	26.8	21.4	3000		147	98	14.4	107.2	.674	.0329	32.6		
1976	884	.091	20.1	29.7	23.5	3000		147	95	14.6	105.8	.657	.0317	35.7		
1977	584	.052		28.6	23.2	3000	87.6	146	104	13.7	109.4	.715	.0347	35.3	2078	3117
1978	903	.081	19.7	27.3	22.5	3000	97.3	164	102	13.9	108.4	.637	.0339	34.2	2215	3322
1979	1286	.119	19.1	27.4	22.1	3000	96.3	162	100	13.9	107.8	.634	.0333	33.5	2152	3228
1980	2026	.215	20.3	29.4	23.6	3000	100.9	164	100	13.8	107.9	.624	.0334	35.6	2392	3589
1981	1626	.186	21.1	30.0	24.4	3000	103.8	165	101	13.9	108.0	.619	.0335	36.8	2544	3816
1982	1554	.199	21.9	32.6	25.7	3000	104.2	163	103	13.6	109.0	.640	.0343	39.0	2717	4076
1983	1515	.189	22.0	32.8	25.8	3000	105.4	161	104	13.4	109.6	.658	.0349	39.1	2749	4123
1984	1994	.187	22.5	33.6	26.4	3000	104.9	157	107	13.3	110.6	.689	.0357	40.0	2789	4183
1985	2037	.189	23.0	34.5	27.1	3000	106.4	153	110	13.0	111.7	.727	.0366	41.0	2906	4359
1986	2829	.257	23.4	34.9	27.5	3000	106.6	151	108	13.2	110.9	.723	.0359	41.5	2956	4433
1987	2743	.256	23.8	35.4	27.9	3000	106.3	147	111	12.9	112.3	.767	.0371	42.3	2997	4496
1988	3146	.293	24.2	36.1	28.4	3000	105.3	145	114	12.6	113.4	.797	.0380	43.0	3017	4526
1989	3402	.340	24.1	36.2	28.4	3000	105.2	146	118	12.3	114.9	.815	.0393	42.8	3001	4502
1990	2856	.324	24.3	36.2	28.6	3000	103.9	142	121	12.0	116.4	.867	.0405	43.0	2980	4471
1991	2714	.318	23.9	35.8	28.1	3000	104.0	145	124	11.8	117.5	.868	.0414	42.5	2943	4414
1992	1918	.237	24.1	36.4	28.4	3000	102.7	146	127	11.6	118.5	.885	.0423	42.7	2928	4392
1993	2021	.239	24.3	36.9	28.7	3000	102.6	147	125	11.8	117.8	.863	.0417	43.2	2959	4438
1994	2033	.242	24.6	37.3	29.1	3000	102.8	143	124	11.8	117.4	.881	.0413	43.8	3000	4500
1995	1767	.190	24.6	38.4	29.3	3000	103.9	143	139	10.6	123.6	.990	.0465	44.1	3059	4588
1996	1950	.225	25.1	39.5	30.0	3000	102.5	140	137	10.8	122.5	.985	.0456	45.2	3087	4630

PERCENT OF 3000. LB. CARS:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE MID	VEHICLE SIZE LARGE	DESIGNED DOM	DESIGNED EUR	DESIGNED ASIA
1975	3.5		48.6		17.1		17.1	82.9		100.0			69.7	7.1	23.3
1976	2.5		50.4		9.8		9.8	90.2		100.0			66.5	4.0	29.4
1977	3.6		51.3		22.4		22.4	77.6		100.0			51.7	8.7	39.6
1978	4.4		35.2		18.0		18.0	82.0		62.0	38.0		71.0	8.2	20.8
1979	2.6		39.7		14.1		14.1	85.8	.1	71.5	28.5		70.5	4.9	24.7
1980	32.0		30.9	1.0	7.5		7.5	92.0	.5	62.4	37.6		82.0	4.1	13.8
1981	45.4		21.6	.7	11.9		11.9	87.8	.4	55.3	44.7		78.3	3.9	17.8
1982	53.2		17.0	65.1	45.5	26.9	18.6	53.8	.7	52.5	47.5		77.0	5.0	18.0
1983	63.0		17.2	62.7	49.2	26.5	22.7	50.1	.7	44.2	55.8		75.5	7.5	17.0
1984	73.9	.2	16.3	58.2	57.2	29.6	27.6	42.1	.8	44.4	55.6		79.7	11.1	9.2
1985	77.9	.5	14.4	53.5	72.2	34.7	37.5	27.4	.4	39.8	60.2		81.5	11.0	7.5
1986	82.2	1.0	15.1	56.4	84.8	49.0	35.7	15.0	.2	46.3	53.6	.1	80.6	9.3	10.1
1987	84.1	1.9	15.7	63.5	99.1	49.5	49.6	.9		52.4	47.6		71.9	8.9	19.2
1988	90.6	1.2	17.2	66.8	100.0	30.1	69.9			73.1	25.6	1.3	71.5	6.5	22.0
1989	91.3	1.4	16.4	71.5	97.4	24.0	73.4	2.6		67.0	31.9	1.1	63.3	5.1	31.7
1990	95.0	.7	20.8	68.8	99.9	25.0	74.9	.1		79.4	20.6		51.9	1.8	46.3
1991	93.3	1.5	18.4	72.4	100.0	24.3	75.7			74.6	25.4		54.3	1.6	44.1
1992	94.2	.7	19.7	66.3	100.0	12.8	87.2			89.6	10.4		58.9	1.7	39.4
1993	94.6	.9	19.7	68.9	100.0	13.2	86.8			86.7	13.3		58.2	1.6	40.2
1994	98.6	.8	16.4	75.6	100.0	10.5	89.5			87.2	12.8		57.5	3.0	39.5
1995	88.0	9.5	21.1	78.9	100.0	1.6	98.4			89.4	10.6		39.7	15.1	45.2
1996	96.6	1.6	20.4	79.6	100.0		100.0			92.3	7.7		47.1	14.4	38.5

APPENDIX I

TABLE I-7: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 3500 LB. CARS

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	1029	.125	15.9	22.0	18.2	3500		227	102	15.6	104.5	.463	.0292	32.4		
1976	933	.096	17.2	23.1	19.4	3500		231	100	15.8	103.7	.447	.0286	34.3		
1977	724	.064	17.9	24.1	20.2	3500	102.4	232	104	15.3	105.1	.458	.0297	35.9	2104	3682
1978	2991	.268	17.6	24.6	20.2	3500	111.1	257	119	13.8	110.8	.468	.0342	35.5	2253	3943
1979	2684	.249	17.8	24.1	20.2	3500	112.3	252	120	13.7	110.8	.477	.0342	35.4	2273	3978
1980	2147	.227	18.1	25.3	20.7	3500	111.3	244	115	14.1	109.2	.477	.0329	36.5	2325	4068
1981	1829	.209	19.2	27.4	22.2	3500	113.3	234	113	14.3	108.3	.487	.0322	39.1	2534	4435
1982	1421	.182	19.3	27.9	22.4	3500	112.0	237	118	14.0	110.3	.505	.0338	39.6	2546	4455
1983	1669	.209	19.4	29.0	22.8	3500	111.8	238	122	13.6	111.5	.524	.0348	40.2	2577	4509
1984	2220	.208	19.4	29.2	22.9	3500	109.6	236	127	13.1	113.4	.556	.0363	40.4	2538	4442
1985	2461	.228	19.7	30.3	23.4	3500	111.9	228	133	12.7	115.5	.603	.0379	41.0	2629	4600
1986	2760	.251	20.3	32.4	24.4	3500	113.5	225	141	12.0	118.7	.654	.0404	42.9	2787	4878
1987	2520	.235	20.3	33.2	24.6	3500	114.0	217	147	11.6	120.7	.703	.0421	43.1	2818	493
1988	2693	.251	20.9	34.4	25.4	3500	113.5	212	151	11.4	122.0	.732	.0431	44.6	2902	5078
1989	2688	.268	20.7	34.1	25.1	3500	114.2	207	151	11.4	122.0	.751	.0431	44.2	2887	5052
1990	2704	.307	21.0	34.5	25.5	3500	113.0	194	150	11.4	121.9	.795	.0429	44.7	2893	5063
1991	2137	.251	20.9	34.1	25.4	3500	111.2	195	156	11.1	123.9	.822	.0446	44.5	2837	4964
1992	2822	.348	21.1	34.6	25.6	3500	113.6	192	155	11.2	123.5	.829	.0442	44.9	2917	5104
1993	2848	.337	21.5	35.1	26.0	3500	114.2	194	156	11.1	124.1	.825	.0447	45.7	2986	5226
1994	2770	.330	21.5	35.2	26.1	3500	111.7	191	155	11.1	123.8	.837	.0444	45.8	2926	5121
1995	3661	.393	21.7	36.0	26.4	3500	111.3	187	167	10.5	128.0	.921	.0478	46.4	2950	5163
1996	3119	.360	22.0	36.2	26.7	3500	110.4	184	169	10.4	128.8	.940	.0484	46.8	2956	5173

PERCENT OF 3500. LB. CARS:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE MID	VEHICLE SIZE LARGE	DESIGNED DOM	DESIGNED EUR	DESIGNED ASIA
1975			19.3		6.5		6.5	91.6	1.9	97.7	2.3		91.4	8.6	
1976			17.2		5.7		5.7	92.9	1.4	98.1	1.9		92.1	7.9	
1977			16.2		6.1		6.1	91.1	2.7	97.1	2.9		90.6	9.4	
1978			4.7	6.4	1.4		1.4	98.1	.5	34.2	65.8		98.0	2.0	
1979			4.0	16.9	1.3		1.3	97.9	.8	23.4	76.6		97.7	2.3	
1980	.2	.4	3.1	37.9	2.2		2.2	96.2	1.7	18.4	81.4	.1	96.2	3.8	
1981		.5	3.4	84.4	3.0		3.0	94.5	2.5	13.7	86.2		94.5	5.2	.3
1982	.5	.6	6.9	88.4	9.5	4.4	5.1	85.6	4.9	27.8	72.2		91.2	6.0	2.7
1983	.9	.8	8.7	83.4	14.4	5.3	9.1	83.0	2.6	35.0	65.0		90.1	4.7	5.2
1984	8.2	.2	7.7	88.9	35.6	12.1	23.5	63.0	1.4	39.5	60.5		90.0	4.4	5.6
1985	35.2		8.3	88.8	69.9	32.3	37.6	29.5	.7	35.1	45.3	19.6	86.1	4.3	9.
1986	49.2	.5	8.6	88.5	80.1	20.7	59.4	19.9	.1	33.2	41.3	25.5	87.1	5.0	8.0
1987	64.1	.4	8.8	87.8	92.1	15.0	77.1	7.4	.4	36.6	34.1	29.3	80.3	6.2	13.5
1988	72.8	.2	7.9	89.7	99.7	11.4	88.2	.3		30.5	44.5	24.9	84.4	5.2	10.4
1989	80.6	.2	6.8	88.2	100.0	12.2	87.8			22.8	51.7	25.5	83.0	5.8	11.2
1990	84.5	1.9	6.3	89.6	100.0	2.8	97.2			23.6	59.0	17.4	76.8	7.9	15.3
1991	79.7	2.7	7.4	88.2	99.9	3.9	96.0		.1	30.7	58.0	11.3	72.0	8.3	19.7
1992	78.6	1.7	5.2	92.2	99.9	1.9	98.0		.1	21.8	63.6	14.7	69.9	5.8	24.3
1993	87.5	1.6	4.6	93.7	100.0	.4	99.6			17.0	66.5	16.5	72.6	5.5	21.8
1994	84.7	1.0	7.4	91.5	100.0		100.0			27.8	55.9	16.3	70.1	5.9	24.0
1995	80.3	.1	7.8	90.9	100.0		100.0			31.3	52.6	16.1	63.9	6.0	30.1
1996	88.5	1.6	7.7	91.2	100.0		100.0			23.2	62.8	14.0	64.7	5.2	30.1

APPENDIX I

TABLE I-8: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 4000 LB. CARS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-F -MPG	CU-FT-TON-MPG
1975	1089	.132	13.8	18.6	15.6	4000		292	130	14.5	110.4	.443	.0325	31.8		
1976	1977	.203	15.6	21.2	17.7	4000		280	122	15.4	107.8	.433	.0305	35.7		
1977	3323	.294	15.8	21.4	17.9	4000	113.5	293	133	14.2	111.4	.453	.0333	36.0	2044	4087
1978	2235	.200	15.7	21.9	18.0	4000	114.9	305	145	13.1	115.3	.474	.0362	36.2	2092	4184
1979	2643	.245	15.6	21.5	17.8	4000	119.6	311	147	13.0	115.9	.472	.0367	35.8	2150	4300
1980	1316	.139	16.2	23.5	18.8	4000	122.4	302	136	13.9	112.3	.453	.0339	38.3	2349	4698
1981	1312	.150	17.2	26.0	20.3	4000	123.2	295	133	14.0	111.6	.458	.0334	41.2	2542	5085
1982	1215	.155	17.3	26.7	20.6	4000	126.4	287	135	13.8	112.2	.479	.0339	41.6	2626	5252
1983	1445	.181	17.1	26.4	20.3	4000	126.7	287	139	13.4	113.4	.490	.0348	40.9	2588	5176
1984	1702	.159	17.3	26.8	20.6	4000	126.3	289	139	13.4	113.3	.485	.0347	41.3	2603	5207
1985	1671	.155	18.2	28.6	21.7	4000	125.3	294	148	12.8	116.4	.508	.0371	43.6	2733	5467
1986	918	.083	18.4	29.1	22.1	4000	124.9	299	154	12.4	118.2	.520	.0384	44.3	2774	5548
1987	912	.085	18.3	28.4	21.7	4000	122.2	294	157	12.3	119.3	.551	.0392	43.7	2676	5352
1988	829	.077	18.5	29.4	22.2	4000	125.8	289	160	12.1	120.3	.569	.0400	44.6	2819	5639
1989	860	.086	19.1	30.6	23.0	4000	125.1	275	154	12.5	118.5	.576	.0386	46.2	2892	5783
1990	986	.112	19.0	31.0	23.0	4000	123.1	263	165	12.0	121.8	.643	.0412	46.2	2842	5684
1991	1114	.131	19.1	31.7	23.3	4000	124.9	265	186	10.7	129.0	.718	.0466	46.7	2917	5835
1992	1166	.144	19.3	31.8	23.4	4000	123.4	258	198	10.2	132.7	.788	.0495	47.0	2905	5810
1993	1059	.125	19.4	31.9	23.6	4000	121.9	253	198	10.3	132.7	.806	.0494	47.3	2882	5764
1994	1342	.160	19.3	31.8	23.5	4000	121.5	248	204	10.0	134.8	.841	.0510	47.1	2860	5720
1995	1302	.140	19.3	32.5	23.6	4000	121.1	252	211	9.7	137.1	.860	.0528	47.4	2868	5736
1996	1429	.165	19.6	32.9	23.9	4000	124.0	245	217	9.5	139.2	.898	.0544	48.0	2974	5949

PERCENT OF 4000. LB. CARS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	MID	LARGE	DESIGNED DOM	EUR	ASIA
1975			7.6		.6		.6	99.4		94.4	4.6	1.0	98.4	1.6	
1976			6.9		.4		.4	99.0	.6	82.6	17.1	.3	98.6	1.4	
1977			3.3		.5		.5	99.1	.4	51.9	19.3	28.9	99.1	.9	
1978			3.0	10.4	.9		.9	98.4	.7	40.8	18.9	40.4	98.4	1.6	
1979	5.3		2.2	10.4	2.8		2.8	94.8	2.3	24.1	24.7	51.2	98.3	1.7	
1980	10.9	2.3	.9	40.1	7.4	4.9	2.5	83.0	9.6	15.7	29.2	55.1	97.4	2.6	
1981	11.1	.9	.9	82.8	11.5	10.3	1.2	75.3	13.2	12.2	29.1	58.8	97.5	2.5	
1982	11.1	1.3		89.6	20.5	18.7	1.8	70.0	9.4	5.6	28.1	66.3	95.2	4.8	
1983	12.5	1.3		94.6	39.9	38.0	2.0	55.7	4.4	5.8	23.4	70.8	95.0	5.0	
1984	12.8	1.1		95.8	43.2	41.1	2.1	53.9	2.8	5.1	22.8	72.1	95.8	4.2	
1985	13.0		.1	94.8	45.2	41.4	3.8	52.7	2.0	5.2	30.7	64.2	94.3	5.7	
1986	.2	.7	.2	92.5	52.7	4.4	48.3	46.8	.5	9.4	26.6	64.0	91.9	7.1	1.0
1987	1.1	.4	4.0	87.9	54.1	3.2	50.9	44.7	1.2	12.7	31.9	55.3	86.2	9.6	4.3
1988	6.3	.3	1.6	92.7	77.2	2.2	75.0	22.8		10.8	21.1	68.1	86.7	10.9	2.4
1989	8.9		2.5	92.5	98.0	13.6	84.4	2.0		8.0	28.1	63.9	89.2	8.7	2.1
1990	33.2	.1	1.8	95.5	99.9	4.6	95.3		.1	5.3	33.9	60.8	85.7	6.1	8.1
1991	38.6	.9	1.9	95.4	99.6	12.9	86.8		.4	5.9	26.7	67.4	86.9	5.6	7.5
1992	41.3	1.9	1.6	97.3	100.0	5.2	94.8			14.1	22.5	63.4	79.1	4.1	16.8
1993	39.2	.7	.9	97.1	100.0	4.3	95.7			16.2	30.9	52.9	74.9	5.1	20.0
1994	45.6	.2	.8	97.3	100.0		100.0			15.3	28.7	55.9	79.1	5.8	15.1
1995	46.2	.6	1.1	96.8	100.0		100.0			15.3	30.3	54.4	82.2	7.6	10.3
1996	53.8	.3	1.5	96.4	100.0		100.0			12.0	32.7	55.3	86.5	4.7	8.8

APPENDIX I

TABLE I-9: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 4500 LB. CARS

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	1791	.217	12.4	17.6	14.3	4500		347	158	13.6	115.5	.455	.0351	32.5		
1976	2223	.229	13.6	19.3	15.7	4500		346	157	13.5	115.3	.454	.0349	35.6		
1977	3496	.309	14.5	20.0	16.5	4500	118.7	346	157	13.4	115.2	.454	.0349	37.4	1973	4440
1978	1997	.179	14.0	20.6	16.3	4500	123.8	356	161	13.1	116.6	.453	.0358	37.0	2038	4586
1979	1527	.142	14.3	20.3	16.5	4500	127.6	353	157	13.4	115.3	.445	.0349	37.4	2122	4775
1980	363	.038	16.0	24.4	19.0	4500	137.3	350	137	15.1	109.3	.394	.0305	43.7	2661	5988
1981	318	.036	17.1	26.8	20.4	4500	137.1	343	127	16.1	106.2	.374	.0282	47.3	2876	6471
1982	183	.023	17.5	27.7	21.0	4500	148.3	323	127	16.1	106.2	.401	.0283	48.6	3153	7095
1983	188	.023	16.4	26.7	19.9	4500	146.6	311	143	14.4	111.1	.463	.0318	45.2	2935	6603
1984	185	.017	16.7	26.9	20.2	4500	152.0	308	148	14.0	112.6	.482	.0329	45.6	3074	6917
1985	104	.010	17.3	28.4	21.0	4500	160.2	306	150	13.8	113.1	.490	.0333	47.3	3369	7579
1986	101	.009	17.7	28.9	21.5	4500	156.5	308	150	14.0	113.1	.485	.0333	48.6	3398	7646
1987	78	.007	18.3	30.4	22.3	4500	160.2	306	140	14.6	110.1	.458	.0311	50.1	3570	8033
1988	105	.010	18.8	30.3	22.6	4500	144.8	305	144	14.4	111.5	.474	.0321	51.1	3296	7416
1989	87	.009	18.1	28.9	21.8	4500	141.1	306	151	14.1	113.5	.494	.0336	49.3	3118	7016
1990	67	.008	16.8	27.3	20.3	4500	130.1	322	178	12.6	121.8	.555	.0397	46.3	2729	6140
1991	72	.009	17.2	28.5	20.9	4500	133.6	312	201	11.3	128.8	.648	.0448	47.6	2894	6511
1992	113	.014	17.9	30.7	22.1	4500	137.2	334	191	11.6	125.5	.587	.0424	49.9	3070	6908
1993	84	.010	17.8	31.5	22.1	4500	141.3	339	187	11.8	124.5	.567	.0416	49.9	3151	7089
1994	88	.010	18.2	31.0	22.4	4500	136.8	344	255	9.0	145.1	.747	.0567	50.6	3101	6978
1995	133	.014	18.3	30.8	22.4	4500	128.1	316	257	9.0	145.6	.844	.0571	50.5	2888	6498
1996	103	.012	18.5	31.5	22.8	4500	129.6	316	262	8.8	147.3	.855	.0583	51.3	2966	6675

PERCENT OF 4500. LB. CARS:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE MID	VEHICLE SIZE LARGE	DESIGNED DOM	DESIGNED EUR	DESIGNED ASIA
1975	.9		.6		1.6		1.6	98.4		27.6	69.7	2.7	98.9	1.1	
1976	2.0		.1		2.3		2.3	97.7		28.0	69.8	2.2	99.4	.6	
1977	1.3		.1		1.6		1.6	98.4		24.9	49.9	25.2	99.7	.3	
1978	2.7			12.9	3.1		3.1	95.3	1.5	2.9	48.9	48.2	99.6	.4	
1979	4.4			9.3	3.4		3.4	91.1	5.5	3.7	35.9	60.4	99.3	.7	
1980	7.5			54.2				71.3	28.7	.1	7.6	92.3	99.9	.1	
1981	8.6			61.7	29.7	29.7		26.1	44.2		8.6	91.4	100.0		
1982	6.3			99.8				54.7	45.3	.2	6.3	93.5	100.0		
1983	1.4			100.0				87.7	12.3		1.4	98.6	99.7	.3	
1984	.6			100.0				95.8	4.2		.6	99.4	100.0		
1985	.1			100.0				98.9	1.1	.1	.1	99.8	100.0		
1986				91.2	8.7		8.7	91.3			8.7	91.2	91.2	8.8	
1987				100.0	.1		.1	99.9		.1	21.6	78.3	99.9	.1	
1988				100.0	2.9		2.9	97.1			2.8	97.1	97.1	2.9	
1989				96.2	8.0		8.0	92.0		3.8	4.2	92.0	92.0	8.0	
1990				84.4	51.1	30.5	20.5	48.9		9.4	11.1	79.5	79.5	20.5	
1991			.7	82.1	100.0	73.8	26.2			13.8	12.5	73.8	73.8	23.0	3.2
1992			.2	89.6	100.0	87.8	12.2			6.5	1.4	92.0	87.8	11.5	.7
1993			.2	96.0	100.0	89.4	10.6			4.8	5.8	89.4	89.4	10.4	.2
1994			.2	93.6	100.0		100.0			9.3	2.3	88.5	88.5	9.4	2.1
1995			.1	85.6	100.0		100.0			8.6	16.8	74.7	66.8	30.8	2.4
1996	.3		.3	86.3	100.0		100.0			8.9	4.4	86.7	63.9	35.8	.3

APPENDIX I

TABLE I-10: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES — 5000 LB. CARS

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	1505	.183	11.1	16.0	12.9	5000		388	166	14.0	114.6	.429	.0333	32.6		
1976	1494	.154	12.8	17.8	14.6	5000		378	166	13.9	114.6	.440	.0333	36.7		
1977	1051	.093	12.1	17.7	14.1	5000	129.7	387	175	13.3	117.1	.453	.0351	35.5	1843	4606
1978	477	.043	12.4	18.6	14.6	5000	132.3	403	179	13.1	118.2	.445	.0358	36.7	1947	4869
1979	182	.017	12.3	18.2	14.4	5000	126.5	396	169	13.7	115.5	.426	.0339	36.7	1861	4653
1980	2	.000	11.0	15.2	12.5	5000	121.9	382	156	14.6	111.8	.409	.0312	31.5	1549	3873
1981	2	.000	10.3	14.2	11.7	5000	122.2	387	156	14.6	111.6	.402	.0311	29.4	1446	3615
1982	2	.000	9.7	13.6	11.2	5000	121.4	378	176	13.7	117.5	.482	.0353	28.0	1362	3406
1983	1	.000	10.1	14.0	11.5	5000	126.4	373	157	14.7	112.0	.426	.0314	28.9	1463	3658
1984	2	.000	9.8	13.6	11.2	5000	122.1	374	176	13.7	117.2	.485	.0351	28.1	1375	3439
1985	1	.000	9.5	13.2	10.9	5000	113.5	394	187	12.9	120.5	.494	.0375	27.2	1234	3085
1986	1	.000	9.3	13.1	10.7	5000	114.2	378	205	12.2	125.4	.574	.0409	26.8	1223	3058
1987	1	.000	10.1	13.6	11.4	5000	113.0	410	191	12.4	121.5	.466	.0382	28.6	1295	3236
1988	1	.000	10.7	15.1	12.3	5000	112.0	408	207	11.6	126.0	.509	.0413	30.9	1384	3461
1989	1	.000	10.8	15.2	12.4	5000	112.9	410	206	11.6	125.7	.502	.0411	31.0	1400	3500
1990		.000	9.3	13.9	10.9	5000	95.9	326	240	10.3	135.4	.736	.0480	27.3	1048	2620
1992	10	.001	14.7	21.9	17.3	5000	126.0	283	297	9.1	151.6	1.041	.0594	44.0	2213	5532
1993	16	.002	16.1	24.1	18.9	5000	125.8	247	263	9.8	141.9	1.072	.0526	47.6	2392	5981
1994	11	.001	16.7	26.3	20.0	5000	124.6	256	274	9.4	145.0	1.073	.0548	50.4	2510	6276
1995	17	.002	16.6	25.3	19.7	5000	125.2	286	300	8.7	152.4	1.048	.0600	49.4	2476	6190
1996	13	.001	16.7	27.9	20.3	5000	120.9	293	308	8.5	154.8	1.054	.0617	50.9	2475	6187

PERCENT OF 5000. LB. CARS:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE MID	VEHICLE SIZE LARGE	DESIGNED DOM	DESIGNED EUR	DESIGNED ASIA
1975								100.0			33.5	66.5	100.0		
1976	.3							100.0			28.7	71.3	100.0		
1977	3.3				.7		.7	99.3		15.2	25.8	59.0	100.0		
1978	4.9		14.1	.4	.4	98.7	.9				18.5	81.5	100.0		
1979					.9		.9	90.0	9.1		39.4	60.6	100.0		
1980					6.7		6.7	93.3		31.2		68.8	68.8	31.2	
1981					100.0	57.4	42.6			6.6	36.0	57.4	57.4	42.6	
1982				14.2	85.8	41.5	44.2	14.2			58.5	41.5	41.5	58.5	
1983				6.5	93.5	74.2	19.3	6.5		2.4	23.4	74.2	74.2	25.8	
1984				15.8	84.2	46.8	37.4	15.8		1.4	51.7	46.8	46.8	53.2	
1985				16.3	83.7		83.7	16.3		2.3	97.7			100.0	
1986				30.6	69.4		69.4	30.6		1.6	98.4			100.0	
1987				1.8	100.0		100.0			1.8	98.2			100.0	
1988				4.9	100.0		100.0			4.9	95.1			100.0	
1989					100.0		100.0			2.0	98.0			100.0	
1990				100.0	100.0		100.0			100.0				100.0	
1992					89.1		89.1		10.9			100.0		100.0	
1993					100.0		100.0				1.4	98.6		100.0	
1994					100.0		100.0			10.0		90.0		100.0	
1995					97.7		97.7		2.3	12.8		87.2		100.0	
1996					100.0		100.0			18.0		82.0		100.0	

APPENDIX I

TABLE I-11: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 5500 LB. CARS

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1975	828	.100	10.5	15.1	12.2	5500		458	208	12.6	122.7	.454	.0378	33.6		
1976	934	.096	11.6	16.2	13.3	5500		460	203	12.7	121.5	.443	.0370	36.6		
1977	298	.026	10.7	16.1	12.6	5500	131.8	447	194	13.2	119.0	.435	.0353	34.8	1664	4577
1978	134	.012	10.8	16.6	12.8	5500	130.7	445	191	13.3	118.3	.429	.0348	35.3	1682	4625
1979	2	.000	9.8	12.9	11.0	5500	112.7	417	174	14.4	113.7	.417	.0317	30.4	1247	3430
1980		.000	9.6	12.6	10.7	5500	100.7	412	170	14.7	112.6	.413	.0309	29.6	1084	2982
1981		.000	9.2	12.6	10.5	5500	98.8	412	170	14.7	112.6	.413	.0309	28.9	1043	2869
1982		.000	8.9	12.2	10.1	5500	92.5	412	170	14.7	112.6	.413	.0309	27.9	937	2577
1983		.000	9.4	13.7	10.9	5500	92.3	412	170	14.7	112.6	.413	.0309	30.1	1010	2778
1984		.000	9.4	13.8	11.0	5500	92.6	412	170	14.7	112.6	.413	.0309	30.1	1015	2792
1985		.000	9.4	13.8	11.0	5500	92.5	412	170	14.7	112.6	.413	.0309	30.2	1015	2792
1986		.000	9.4	13.8	11.0	5500	92.4	412	170	14.7	112.6	.413	.0309	30.1	1012	2784
1987		.000	9.5	13.2	10.9	5500	92.0	412	187	13.7	117.1	.454	.0340	30.1	1007	2771
1988		.000	10.6	14.8	12.2	5500	91.3	412	205	12.6	121.9	.498	.0373	33.4	1109	3050
1989		.000	10.8	15.4	12.5	5500	103.8	412	259	10.7	136.3	.630	.0472	34.4	1300	3576
1990	1	.000	11.3	16.2	13.1	5500	107.2	412	250	11.0	133.8	.607	.0455	36.0	1405	3863
1991	1	.000	11.4	16.3	13.2	5500	107.5	412	237	11.4	130.5	.577	.0432	36.2	1414	3890
1992		.000	11.7	18.8	14.1	5500	107.2	412	258	10.7	135.8	.625	.0468	38.9	1517	4173
1993	1	.000	13.3	19.9	15.6	5500	126.5	374	290	10.4	144.3	.777	.0527	43.2	2008	5521
1994	3	.000	14.9	22.8	17.7	5500	141.3	356	262	10.5	136.9	.735	.0476	48.9	2526	6946
1995	1	.000	14.1	22.3	16.9	5500	140.7	365	257	10.6	135.7	.707	.0468	47.4	2475	6807
1996		.000	13.0	21.0	15.7	5500	109.4	412	273	10.2	140.0	.663	.0497	43.1	1715	4716

PERCENT OF 5500. LB. CARS:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE MID	VEHICLE SIZE LARGE	DESIGNED DOM	DESIGNED EUR	DESIGNED ASIA
1975	8.2							100.0		5.2	11.3	83.4	99.9	.1	
1976	7.4				2.9		2.9	97.1		5.8	12.1	82.1	99.9	.1	
1977	15.9				3.1		3.1	96.9		.4	32.7	66.9	99.6	.4	
1978	33.7				30.0		30.0	70.0		.7	33.7	65.6	99.3	.7	
1979								100.0		58.8		41.2	41.2	58.8	
1980					5.0		5.0	95.0		100.0				100.0	
1981					100.0		100.0			100.0				100.0	
1982					100.0		100.0			100.0				100.0	
1983					100.0		100.0			100.0				100.0	
1984					100.0		100.0			100.0				100.0	
1985					100.0		100.0			100.0				100.0	
1986					100.0		100.0			100.0				100.0	
1987					100.0		100.0			100.0				100.0	
1988					100.0		100.0			100.0				100.0	
1989					100.0		100.0			47.2	52.8			100.0	
1990					100.0		100.0			18.0	82.0			100.0	
1991					100.0		100.0			16.5	83.5			100.0	
1992				100.0	100.0		100.0			15.6	84.4			100.0	
1993				56.9	100.0	28.2	71.8			10.9	17.8	71.3	28.2	71.8	
1994				92.4	100.0		100.0			1.5	6.8	91.6	84.0	16.0	
1995				100.0	100.0	53.7	46.3			32.8	28.7	38.6	64.1	35.9	
1996				100.0	100.0		100.0			10.4	89.6			100.0	

TABLE I-12: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 6000 LB. CARS

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1985		.000	8.9	12.2	10.1	6000	157.5	412	170	15.7	110.0	.413	.0283	30.4	1595	4786
1986		.000	8.9	12.2	10.1	6000	157.5	412	170	15.7	110.0	.413	.0283	30.4	1595	4786
1987		.000	9.3	12.3	10.4	6000	157.5	412	173	15.5	110.8	.420	.0288	31.3	1645	4935
1988		.000	10.5	14.0	11.8	6000	157.5	412	205	13.5	118.8	.498	.0341	35.5	1863	5590
1993	1	.000	15.1	22.1	17.6	6000	145.5	350	175	15.3	111.3	.500	.0292	52.8	2559	7677
1994		.000	11.5	18.7	13.9	6000	90.6	412	241	11.9	127.7	.585	.0402	41.7	1260	3781
1995		.000	11.5	18.8	13.9	6000	90.6	412	273	10.9	135.8	.663	.0456	41.7	1260	3780
1996		.000	12.3	20.0	14.9	6000	88.9	412	350	8.8	154.9	.850	.0583	44.6	1323	3968

PERCENT OF 6000. LB. CARS:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE MID	VEHICLE SIZE LARGE	DESIGNED DOM	DESIGNED EUR	DESIGNED ASIA
1985					100.0		100.0					100.0		100.0	
1986					100.0		100.0					100.0		100.0	
1987					100.0		100.0					100.0		100.0	
1988					100.0		100.0					100.0		100.0	
1993				100.0	100.0	99.5	.5					100.0	99.5	.5	
1994				100.0	100.0		100.0			100.0				100.0	
1995				100.0	100.0		100.0			100.0				100.0	
1996				100.0	100.0		100.0			100.0				100.0	

APPENDIX I

TABLE I-13: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 6500 LB. CARS

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT-TON-MPG
1994		.000	11.3	18.1	13.6	6500	140.2	412	241	12.7	124.6	.585	.0371	44.2	1907	6197
1996		.000	12.6	19.3	14.9	6500	140.2	412	241	12.7	124.6	.585	.0371	48.5	2093	6803

PERCENT OF 6500. LB. CARS:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE MID	VEHICLE SIZE LARGE	DESIGNED DOM	DESIGNED EUR	DESIGNED ASIA
1994				100.0	100.0		100.0					100.0		100.0	
1996				100.0	100.0		100.0					100.0		100.0	

TABLE I-14: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 2000 LB. TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1979	1	.000	23.2	29.5	25.7	2000		49	41	19.7	89.5	.837	.0205	25.7
1980	3	.002	22.5	29.4	25.2	2000		49	41	19.7	89.5	.837	.0205	25.2
1981	1	.000	22.5	29.4	25.2	2000		49	41	19.7	89.5	.837	.0205	25.2
1982	1	.001	23.7	27.3	25.2	2000		59	45	18.3	91.6	.763	.0225	25.2
1983	1	.001	23.7	27.3	25.2	2000		59	45	18.3	91.6	.763	.0225	25.2

PERCENT OF 2000. LB. TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1979		100.0	100.0					100.0		100.0			100.0
1980		100.0	100.0					100.0		100.0			100.0
1981		100.0	100.0					100.0		100.0			100.0
1982		100.0	100.0					100.0		100.0			100.0
1983		100.0	100.0					100.0		100.0			100.0

TABLE I-15: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 2250. TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1979		.000	22.3	29.3	25.0	2250		49	41	21.6	87.7	.837	.0182	28.1
1980	25	.013	28.1	38.5	32.0	2250		94	64	15.9	99.0	.677	.0284	38.1
1981	24	.013	36.9	48.9	41.5	2250		97	52	17.9	93.1	.536	.0231	46.7
1982	13	.007	36.1	43.5	39.1	2250		91	51	18.2	92.6	.570	.0226	45.8
1983	4	.002	26.6	31.0	28.4	2250		71	47	19.4	90.8	.692	.0210	33.9
1984	7	.002	30.2	32.1	31.1	2250		70	47	19.5	90.7	.697	.0209	35.6
1985	6	.002	28.1	29.6	28.8	2250		61	45	20.8	89.7	.738	.0200	32.4
1986	37	.008	30.2	37.5	33.1	2250		81	64	15.3	99.0	.790	.0284	37.2
1987	63	.015	30.2	37.5	33.1	2250		81	64	15.3	99.0	.790	.0284	37.2
1988	83	.018	30.6	37.3	33.3	2250		81	64	15.3	99.0	.790	.0284	37.4
1989	5	.001	30.9	37.0	33.4	2250		80	64	15.3	99.0	.797	.0284	37.5

PERCENT OF 2250. LB. TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1979		100.0	100.0					100.0		100.0			100.0
1980	100.0		100.0		54.6				45.4	100.0			100.0
1981	100.0		100.0						100.0	100.0			100.0
1982	85.0	15.0	100.0					15.0	85.0	100.0			100.0
1983	31.3	68.7	91.1					68.7	31.3	100.0		13.3	86.7
1984	28.9	71.1	82.7					71.1	28.9	100.0		28.9	71.1
1985		100.0	100.0					100.0		100.0			100.0
1986		100.0	100.0					100.0		100.0			100.0
1987		100.0	100.0					100.0		100.0			100.0
1988		100.0	100.0					100.0		100.0			100.0
1989		100.0	100.0					100.0		100.0			100.0

TABLE I-16: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 2500 LB. TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1978	23	.007	23.5	33.7	27.2	2500		97	67	16.0	98.2	.691	.0268	34.2
1979	39	.013	24.1	33.5	27.5	2500		97	67	16.0	98.2	.691	.0268	34.5
1980	16	.009	22.1	32.3	25.8	2500		97	68	15.8	98.6	.701	.0272	32.3
1981	27	.015	24.9	34.2	28.4	2500		108	73	14.9	101.1	.683	.0294	35.5
1982	36	.019	24.8	32.0	27.6	2500		132	81	13.9	104.7	.625	.0326	34.9
1983	33	.014	25.4	32.8	28.2	2500		137	86	13.3	107.0	.636	.0346	36.4
1984	18	.005	24.2	31.4	27.0	2500		110	74	15.8	101.2	.686	.0295	34.2
1985	4	.001	26.2	35.2	29.6	2500		109	73	15.3	100.9	.670	.0292	37.0
1986	5	.001	26.4	36.0	30.0	2500		109	73	14.9	100.9	.670	.0292	37.5
1987	1	.000	26.3	35.5	29.8	2500		109	73	14.9	100.9	.670	.0292	37.2
1989	39	.009	28.8	34.9	31.3	2500		97	80	14.1	104.1	.825	.0320	39.2
1990	34	.009	29.2	35.9	31.9	2500		94	78	14.3	103.0	.827	.0310	39.8
1991	15	.004	28.7	35.1	31.2	2500		91	75	14.7	101.8	.829	.0300	39.2
1992	19	.005	27.5	33.7	30.0	2500		94	77	14.4	102.9	.827	.0310	37.6
1993	19	.004	26.9	33.1	29.4	2500		96	79	14.2	103.7	.825	.0317	36.8
1994	22	.004	26.7	32.7	29.1	2500		96	80	14.1	103.9	.830	.0318	36.5
1995		.000	31.2	36.8	33.5	2500		79	66	16.2	97.7	.835	.0264	41.9

PERCENT OF 2500. LB. TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1978		100.0	100.0					100.0		100.0			100.0
1979		100.0	100.0					100.0		100.0			100.0
1980	9.5	90.5	90.5		9.5			90.5		100.0			100.0
1981	34.2	65.8	100.0		34.2			65.8		100.0			100.0
1982	49.7	20.1	58.4		9.4			90.6		100.0		30.1	69.9
1983	48.9	13.2	59.4	2.7	2.6			97.4		100.0		37.9	62.1
1984	29.9	53.1	79.8	3.3				100.0		100.0		46.9	53.1
1985		100.0	95.6	4.4				100.0		100.0			100.0
1986		100.0	100.0					100.0		100.0			100.0
1987		100.0	100.0					100.0		100.0			100.0
1989		100.0	56.2	43.8	100.0	100.0				100.0			100.0
1990		95.5	100.0		100.0	100.0				100.0			100.0
1991		20.6	100.0		100.0	100.0				100.0			100.0
1992		11.5	75.8	24.2	100.0	100.0				100.0			100.0
1993		2.4	67.2	32.8	100.0	93.5	6.5			100.0			100.0
1994		6.0	57.4	42.6	100.0	97.0	3.0			100.0			100.0
1995		100.0	100.0		100.0	100.0				100.0			100.0

TABLE I-17: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 2750. TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	204	.102	18.1	26.0	21.0	2750		155	101	12.9	110.7	.713	.0367	29.4
1976	202	.078	19.6	27.5	22.5	2750		150	98	13.0	109.6	.727	.0358	31.5
1977	270	.096	21.1	29.3	24.2	2750		146	98	13.0	109.4	.732	.0356	33.8
1978	241	.074	21.0	27.3	23.5	2750		157	98	12.9	109.5	.700	.0357	33.1
1979	250	.081	19.8	27.4	22.6	2750		126	90	13.7	106.2	.720	.0329	31.6
1980	324	.174	22.3	30.0	25.2	2750		126	91	13.6	106.6	.728	.0333	34.9
1981	222	.122	24.7	33.3	27.9	2750		130	90	13.8	106.2	.695	.0329	38.7
1982	227	.119	24.9	33.8	28.3	2750		130	91	13.7	106.5	.699	.0331	39.1
1983	340	.148	25.4	34.3	28.8	2750		132	87	14.2	104.6	.658	.0315	39.8
1984	328	.098	25.1	33.5	28.3	2750		130	87	14.2	104.9	.672	.0318	39.2
1985	246	.067	26.3	35.7	29.9	2750		130	90	14.1	106.1	.693	.0328	41.3
1986	316	.073	26.0	35.2	29.5	2750		132	92	13.6	106.8	.695	.0334	40.8
1987	244	.059	26.1	35.8	29.7	2750		133	93	13.5	107.3	.695	.0338	41.0
1988	120	.026	24.6	33.1	27.8	2750		136	98	12.9	109.3	.721	.0356	38.4
1989	76	.017	24.5	32.7	27.6	2750		135	97	12.9	109.2	.721	.0354	38.1
1990	45	.012	24.3	30.6	26.8	2750		129	95	13.3	108.2	.745	.0346	36.9
1991	28	.007	26.5	32.6	28.9	2750		97	80	15.2	101.7	.825	.0291	39.9
1992	46	.011	25.7	33.2	28.6	2750		116	95	13.5	108.0	.819	.0344	39.4
1993	24	.005	26.5	32.6	29.0	2750		97	81	15.0	102.2	.836	.0295	39.9
1994	38	.007	26.2	32.3	28.7	2750		97	82	14.9	102.8	.850	.0300	39.5
1995	31	.005	25.6	31.5	28.0	2750		97	95	13.4	108.1	.979	.0345	38.5
1996	10	.002	26.2	34.1	29.3	2750		98	96	13.2	108.8	.980	.0351	40.3

PERCENT OF 2750. LB. TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1975		23.2	91.3					100.0		100.0		23.2	76.8
1976		20.2	82.0					100.0		100.0		20.2	79.8
1977		16.3	81.9					100.0		100.0		16.3	83.7
1978		24.0	86.9					100.0		100.0		24.0	76.0
1979			82.7					100.0		100.0		3.7	96.3
1980			86.9					100.0		97.6	2.4		100.0
1981			90.3					98.6	1.4	98.8	1.2		100.0
1982	1.4		87.1	4.9				98.3	1.7	97.5	2.5	22.3	77.7
1983	4.0	.1	89.4	.2	.1			99.1	.9	100.0		43.0	57.0
1984	6.5	.1	86.1	2.9	1.1			98.2	.7	66.7	33.3	15.4	84.6
1985	3.4		92.0	.8	1.4			98.1	.4	100.0		25.4	74.6
1986	1.7		88.3	.8				99.6	.4	100.0		14.8	85.2
1987	1.6		89.9	.9				100.0		100.0		18.1	81.9
1988			99.4		.6		.6	99.4		100.0			100.0
1989			100.0					100.0		100.0			100.0
1990		31.1	68.9	31.1	31.1	31.1		68.9		31.1	68.9		100.0
1991		100.0	56.7	43.3	100.0	100.0				100.0			100.0
1992		49.1	78.8	21.2	100.0	49.1	50.9			58.3	41.7		100.0
1993		92.9	60.6	39.4	100.0	78.2	21.8			100.0			100.0
1994		97.1	52.0	48.0	100.0	83.7	16.3			100.0			100.0
1995		67.2	7.1	92.9	100.0		100.0			100.0			100.0
1996	6.0	88.5	38.2	61.8	100.0		100.0			100.0			100.0

TABLE I-18: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 3000 LB. TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	60	.030	18.2	24.9	20.7	3000		107	70	18.2	95.8	.667	.0234	31.2
1976	73	.028	18.3	25.4	21.0	3000		136	77	17.4	98.6	.628	.0258	32.5
1977	91	.032	22.9	31.3	26.0	3000		147	81	16.4	100.1	.596	.0270	40.9
1978	144	.044	22.4	29.9	25.2	3000		148	83	16.0	101.0	.599	.0278	39.5
1979	226	.073	19.6	25.7	21.9	3000		154	89	15.2	103.4	.607	.0297	34.2
1980	212	.114	20.2	26.7	22.7	3000		146	86	15.3	102.1	.620	.0286	34.9
1981	249	.137	23.0	30.8	25.9	3000		150	86	15.7	102.2	.591	.0287	40.3
1982	379	.198	22.6	31.4	25.9	3000		162	97	14.3	106.6	.604	.0323	39.8
1983	414	.180	22.5	31.2	25.7	3000		158	94	14.5	105.5	.610	.0315	39.4
1984	575	.172	22.7	31.6	26.0	3000		153	94	14.5	105.4	.626	.0313	39.6
1985	658	.179	22.9	31.8	26.2	3000		151	100	13.9	107.6	.662	.0332	39.7
1986	840	.193	23.4	32.5	26.8	3000		143	99	13.8	107.5	.691	.0331	40.4
1987	799	.193	23.4	32.9	26.9	3000		145	100	13.8	107.8	.690	.0334	40.5
1988	740	.162	23.9	33.4	27.4	3000		145	98	14.0	107.2	.675	.0329	41.4
1989	609	.137	24.0	33.2	27.4	3000		145	102	13.4	108.7	.704	.0341	41.3
1990	446	.117	24.4	33.4	27.8	3000		142	110	12.8	111.7	.770	.0366	42.0
1991	597	.147	24.0	33.5	27.5	3000		148	109	12.9	111.3	.738	.0362	41.4
1992	370	.091	23.5	32.7	26.9	3000		145	113	12.4	113.1	.783	.0378	40.6
1993	418	.088	23.5	33.1	27.0	3000		148	116	12.2	114.2	.790	.0387	40.8
1994	321	.059	24.0	32.5	27.2	3000		144	118	11.9	115.2	.825	.0395	41.1
1995	304	.052	23.3	30.8	26.2	3000		138	120	11.9	116.0	.881	.0402	39.7
1996	130	.022	24.2	33.3	27.6	3000		138	131	11.1	120.1	.952	.0436	41.4

PERCENT OF 3000. LB. TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1975			69.3					100.0		100.0			100.0
1976		14.3	80.2					100.0		100.0		14.3	85.7
1977		14.0	86.2					100.0		100.0		14.0	86.0
1978		13.8	85.6					100.0		100.0		13.8	86.2
1979		47.4	88.2					100.0		100.0		22.9	77.1
1980		65.7	94.6					100.0		77.9	22.1	20.4	79.6
1981		52.6	93.2	1.4				78.4	21.6	82.5	17.5	16.5	83.5
1982		26.2	75.1	22.0				84.2	15.8	92.1	7.9	53.4	46.6
1983		23.8	75.1	9.6				92.0	8.0	95.5	4.5	56.8	43.2
1984	3.7	19.7	72.7	13.6	4.4			91.7	3.9	92.9	7.1	57.9	42.1
1985	4.3	11.4	64.7	28.4	30.9			67.5	1.6	98.1	1.9	58.0	42.0
1986	2.6	5.7	78.0	17.6	51.5	31.7	19.8	47.7	.8	98.6	1.4	34.4	65.6
1987	2.8	6.6	74.3	19.6	61.5	37.9	23.6	38.2	.3	97.4	2.6	41.5	58.5
1988	1.6	2.3	77.3	16.7	66.4	36.8	29.6	33.6		97.9	2.1	61.0	39.0
1989	1.6	3.6	82.2	12.4	77.5	46.0	31.5	22.5		96.1	3.9	51.9	48.1
1990	.7	6.3	86.9	10.4	82.3	14.1	68.2	17.7		78.4	21.6	39.3	60.7
1991	1.0	2.1	87.0	10.1	89.8	37.9	51.9	10.2		78.4	21.6	50.9	49.1
1992	6.1	7.8	83.8	12.2	83.9	24.2	59.7	16.1		73.9	26.1	36.8	63.2
1993	2.7	9.4	85.2	11.0	89.9	21.9	68.0	10.1		58.7	41.3	40.2	59.8
1994	.9	12.1	84.7	7.4	93.6		93.6	6.4		56.3	43.7	24.8	75.2
1995	2.4	29.1	79.7	13.5	100.0		100.0			88.3	11.7	24.6	75.4
1996	1.5	22.3	72.3	17.6	100.0		100.0			100.0		4.7	95.3

APPENDIX I

TABLE I-19: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 3500 LB. TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	55	.028	13.9	19.9	16.1	3500		308	138	12.5	117.5	.453	.0395	28.6
1976	83	.032	14.9	20.3	16.9	3500		303	132	12.9	115.2	.443	.0377	30.0
1977	74	.026	15.5	20.7	17.5	3500		311	136	12.7	116.8	.446	.0389	30.9
1978	100	.031	16.4	22.4	18.6	3500		267	128	13.2	113.9	.498	.0367	32.9
1979	69	.022	15.4	19.2	16.9	3500		251	110	14.7	107.4	.463	.0315	30.0
1980	82	.044	16.4	21.4	18.3	3500		211	106	15.3	105.8	.526	.0302	32.4
1981	122	.067	18.5	24.9	20.9	3500		238	108	14.7	106.6	.474	.0308	36.9
1982	145	.076	19.5	26.4	22.1	3500		205	104	15.2	105.1	.533	.0297	39.0
1983	275	.120	20.2	28.9	23.3	3500		174	105	14.8	105.7	.620	.0301	41.1
1984	738	.221	19.9	27.6	22.7	3500		164	102	15.2	104.5	.634	.0292	40.1
1985	953	.260	20.0	28.1	23.0	3500		168	106	15.0	105.8	.647	.0302	40.5
1986	1125	.259	20.2	27.9	23.0	3500		164	114	14.0	108.9	.704	.0327	40.6
1987	1236	.299	19.9	28.4	23.0	3500		178	125	13.2	112.8	.711	.0358	40.5
1988	1166	.256	19.5	28.1	22.6	3500		189	134	12.5	116.2	.721	.0384	39.9
1989	999	.225	19.5	27.8	22.5	3500		197	136	12.5	116.7	.704	.0389	39.7
1990	745	.196	19.8	28.7	23.0	3500		195	140	12.1	118.3	.730	.0401	40.5
1991	697	.172	19.7	28.3	22.8	3500		202	141	12.1	118.4	.709	.0402	40.4
1992	692	.170	20.0	28.9	23.2	3500		194	141	12.2	118.4	.730	.0402	41.3
1993	850	.179	20.2	29.3	23.5	3500		192	143	12.0	119.4	.750	.0410	41.7
1994	1056	.193	20.9	30.1	24.2	3500		185	139	12.3	117.9	.760	.0398	42.9
1995	958	.163	21.3	31.0	24.8	3500		177	140	12.1	118.1	.803	.0399	44.4
1996	784	.133	21.3	30.8	24.7	3500		177	143	11.9	119.2	.824	.0409	43.9

PERCENT OF 3500. LB. TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1975			9.7		1.8			98.2		3.0	97.0	97.0	3.0
1976			13.7		1.9			98.1		5.4	94.6	94.6	5.4
1977			11.8		3.0			97.0		6.7	93.3	93.3	6.7
1978			21.4		2.7			97.3		11.7	88.3	88.3	11.7
1979		55.5	64.8		12.2			87.8		75.1	24.9	80.3	19.7
1980		15.1	46.7	36.8	14.6			85.4		40.7	59.3	66.8	33.2
1981		6.7	61.7	31.3	6.5			93.5		17.9	82.1	80.5	19.5
1982		26.1	77.0	19.1	4.3			93.2	2.6	13.2	86.8	63.4	36.6
1983		54.6	66.0	28.7	3.7			94.9	1.5	70.9	29.1	68.3	31.7
1984	15.3	53.3	48.4	25.2	7.0			91.8	1.2	84.4	15.6	74.4	25.6
1985	23.3	46.7	44.5	32.6	14.7	.7		84.9	.4	71.5	28.5	74.1	25.9
1986	20.2	54.0	45.6	34.6	49.4	19.7	29.7	50.4	.1	75.9	24.1	70.8	29.2
1987	20.2	49.4	39.9	47.8	64.9	20.7	44.2	35.0	.1	74.0	26.0	74.3	25.7
1988	18.1	49.9	36.4	55.5	93.7	30.2	63.5	6.3		76.8	23.2	82.5	17.5
1989	22.3	35.7	32.2	49.8	95.0	37.5	57.6	5.0		79.6	20.4	83.6	16.4
1990	26.4	34.7	31.8	66.0	96.0	20.1	75.9	4.0		82.4	17.6	82.1	7.9
1991	7.3	32.8	40.6	58.4	99.7	39.4	60.3	.3		82.8	17.2	83.1	16.9
1992	10.4	29.0	46.8	52.4	99.6	29.4	70.1	.4		84.3	15.7	83.1	16.9
1993	25.0	22.8	40.0	59.1	99.6	20.3	79.4	.4		61.4	38.6	87.9	12.1
1994	13.2	16.3	48.8	48.8	100.0	13.1	86.9			51.4	48.6	92.1	7.9
1995	21.0	18.8	50.0	50.0	100.0	11.6	88.4			71.0	29.0	83.9	16.1
1996	4.7	23.3	54.8	45.2	100.0	.4	99.6			54.5	45.5	75.3	24.7

APPENDIX I

TABLE I-20: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 4000 LB. TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	1021	.514	12.3	17.2	14.1	4000		324	141	13.5	114.1	.433	.0353	28.8
1976	1234	.473	13.2	17.9	15.0	4000		326	137	13.7	112.7	.419	.0342	30.8
1977	1165	.413	14.7	19.3	16.5	4000		322	144	13.1	115.2	.447	.0361	33.5
1978	1317	.402	14.3	18.3	15.9	4000		319	144	13.1	114.9	.449	.0359	32.5
1979	702	.227	14.4	18.5	15.9	4000		301	140	13.4	113.7	.465	.0350	32.4
1980	536	.288	16.5	22.2	18.6	4000		279	125	14.5	108.9	.453	.0314	37.5
1981	675	.371	16.9	22.8	19.1	4000		282	127	14.3	109.4	.452	.0317	38.6
1982	490	.256	16.5	22.4	18.7	4000		286	127	14.5	109.5	.446	.0318	37.9
1983	501	.218	16.7	22.9	19.0	4000		269	123	14.8	108.3	.469	.0309	38.5
1984	688	.206	16.4	23.0	18.9	4000		265	121	15.0	107.6	.471	.0303	38.4
1985	742	.202	17.1	23.8	19.6	4000		259	132	14.2	111.0	.523	.0330	39.7
1986	935	.215	17.5	24.5	20.1	4000		243	132	14.0	111.1	.572	.0330	40.6
1987	856	.207	17.8	25.3	20.5	4000		227	141	13.3	114.2	.649	.0354	41.3
1988	1189	.261	18.1	26.2	21.1	4000		230	148	12.8	116.2	.668	.0369	42.4
1989	1390	.313	18.5	26.9	21.5	4000		225	149	12.7	116.8	.686	.0373	43.2
1990	1229	.323	18.3	26.8	21.3	4000		219	148	12.8	116.3	.694	.0370	43.0
1991	1502	.371	18.4	27.0	21.5	4000		221	151	12.6	117.4	.702	.0378	43.2
1992	1460	.359	18.4	27.3	21.5	4000		219	153	12.5	117.9	.711	.0382	43.3
1993	1716	.361	18.3	27.4	21.5	4000		222	164	11.9	121.5	.747	.0409	43.2
1994	1778	.324	18.3	27.1	21.5	4000		223	163	11.8	121.4	.746	.0409	43.2
1995	1833	.312	18.3	27.7	21.6	4000		225	163	11.9	121.4	.737	.0409	43.5
1996	2086	.354	18.5	28.1	21.9	4000		223	172	11.3	124.4	.785	.0431	44.1

PERCENT OF 4000. LB. TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1975		2.0	33.8					100.0		.6	99.4	99.4	.6
1976		2.7	33.4					100.0		.6	99.4	99.4	.6
1977		3.4	29.7					100.0		1.3	98.7	98.7	1.3
1978		3.8	29.3					99.5	.5	1.0	99.0	99.0	1.0
1979		6.4	35.0	7.6				100.0		.6	99.4	99.4	.6
1980		5.8	50.0	21.7	.7			99.3		1.0	99.0	99.0	1.0
1981	.4	7.3	42.9	37.4	.5			99.5		.7	99.3	99.3	.7
1982		9.1	31.3	33.8	.6			99.0	.4	1.4	98.6	98.6	1.4
1983		16.7	27.6	50.1	.7			99.2	.1	14.3	85.7	99.0	1.0
1984		20.6	29.0	43.5	.8			99.2		19.3	80.7	98.9	1.1
1985		27.4	20.6	50.2	8.0			92.0		35.5	64.5	99.0	1.0
1986		23.2	25.7	57.1	59.8	34.8	24.9	39.7	.5	46.0	54.0	89.3	10.7
1987	3.6	27.9	19.2	70.8	87.0	47.5	39.5	13.0		64.4	35.6	89.6	10.4
1988	15.8	27.5	21.8	71.3	100.0	51.9	48.1			66.0	34.0	86.8	13.2
1989	14.9	34.8	19.3	78.0	100.0	48.7	51.3			72.7	27.3	85.6	14.4
1990	31.8	29.0	17.5	79.8	100.0	41.8	58.2			72.0	28.0	82.8	17.2
1991	22.4	37.0	17.0	82.8	100.0	42.0	58.0			77.0	23.0	79.1	20.9
1992	31.5	23.0	13.9	86.1	100.0	27.0	73.0			86.2	13.8	84.6	15.4
1993	28.6	21.4	11.0	89.0	100.0	10.6	89.4			66.3	33.7	83.9	16.1
1994	34.2	29.4	16.0	84.0	100.0	15.1	84.9			61.5	38.5	78.1	21.9
1995	41.2	29.3	10.6	89.4	100.0	5.6	94.4			68.2	31.8	75.6	24.4
1996	45.6	25.2	10.4	89.6	100.0	2.4	97.6			65.7	34.3	80.5	19.5

TABLE I-21: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES — 4500 LB. TRUCKS

MODEL YEAR	SALES (000)	SALES FRAC	FUEL ECONOMY CITY	FUEL ECONOMY HWY	FUEL ECONOMY 55/45	WGHT LB	VOL CU-FT	ENGINE CID	ENGINE HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	386	.194	10.7	13.6	11.9	4500		350	160	13.3	116.3	.456	.0356	26.9
1976	610	.234	11.6	15.1	12.9	4500		353	158	13.5	115.5	.445	.0351	29.3
1977	862	.305	12.5	15.9	13.8	4500		359	164	13.0	117.4	.456	.0364	31.3
1978	986	.301	12.3	15.4	13.5	4500		353	161	13.1	116.4	.456	.0357	30.8
1979	960	.311	12.8	15.9	13.9	4500		323	145	14.3	111.7	.452	.0322	32.0
1980	389	.209	14.0	18.3	15.7	4500		319	144	14.3	111.4	.453	.0320	35.7
1981	373	.205	14.9	19.9	16.8	4500		311	143	14.4	111.0	.461	.0318	38.2
1982	407	.213	14.9	19.7	16.8	4500		310	150	13.9	113.1	.484	.0333	38.2
1983	517	.225	15.0	20.2	17.0	4500		310	148	14.0	112.7	.481	.0330	38.6
1984	691	.207	14.7	20.0	16.7	4500		310	149	13.9	112.9	.481	.0332	38.0
1985	745	.203	14.5	19.4	16.4	4500		311	157	13.4	115.3	.505	.0349	37.2
1986	769	.177	15.3	20.6	17.3	4500		307	151	13.8	113.6	.493	.0337	39.3
1987	636	.154	15.0	20.6	17.1	4500		315	165	12.9	117.8	.523	.0367	38.7
1988	814	.179	15.4	21.6	17.7	4500		321	172	12.5	119.8	.535	.0382	40.0
1989	895	.202	15.3	21.7	17.6	4500		320	174	12.4	120.4	.541	.0386	39.9
1990	832	.219	15.6	22.7	18.2	4500		307	171	12.6	119.6	.561	.0380	41.3
1991	909	.224	16.1	23.8	18.8	4500		285	172	12.5	119.8	.615	.0382	42.6
1992	1015	.250	16.1	23.8	18.9	4500		282	172	12.5	119.9	.623	.0383	42.7
1993	1163	.245	16.5	24.5	19.3	4500		278	175	12.3	120.9	.644	.0390	43.7
1994	1482	.270	16.4	24.4	19.3	4500		277	183	11.9	123.2	.674	.0407	43.6
1995	1610	.274	16.5	24.7	19.4	4500		265	175	12.3	120.8	.675	.0389	43.9
1996	1733	.294	16.6	25.0	19.6	4500		272	188	11.7	124.6	.697	.0417	44.3

PERCENT OF 4500. LB. TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	DRIVETRAIN 4WD	TRANSMISSION MANUAL	TRANSMISSION LOCK	FUEL METERING FI	FUEL METERING TBI	FUEL METERING PORT	FUEL METERING CARB	FUEL METERING DSL	VEHICLE SIZE SMALL	VEHICLE SIZE LARGE	DESIGNED DOM	DESIGNED IMPORT
1975		31.9	27.8					100.0			100.0	100.0	
1976		44.1	30.3					100.0		.2	99.8	99.8	.2
1977		45.0	22.0					100.0		.1	99.9	99.9	.1
1978		50.0	21.0					98.0	2.0	.2	99.8	99.8	.2
1979		15.7	20.7	.2				99.7	.3		100.0	100.0	.0
1980		31.6	27.0	41.1				97.3	2.7		100.0	100.0	.0
1981	.2	24.7	18.3	54.4				99.0	1.0	.2	99.8	99.8	.2
1982	.1	20.5	13.7	53.1				99.6	.4	.6	99.4	99.4	.6
1983		26.7	14.1	59.2				99.6	.4	.7	99.3	99.3	.7
1984		27.5	14.0	59.9				99.8	.2	.8	99.2	99.2	.8
1985		25.1	11.9	62.6	4.6			95.4		.8	99.2	99.2	.8
1986		25.8	12.4	68.6	22.1		22.1	77.9			100.0	99.7	.3
1987		23.2	13.2	48.8	79.3	43.2	36.1	20.7			100.0	99.0	1.0
1988		31.3	15.1	60.8	97.4	66.4	31.0	2.5	.1		100.0	98.7	1.3
1989		29.6	23.5	61.2	98.5	59.8	38.7	1.4	.1		100.0	98.9	1.1
1990		28.5	15.7	74.6	99.1	59.1	40.0	.8	.1	16.0	84.0	94.5	5.5
1991		44.9	15.6	82.0	99.5	45.3	54.2	.4		39.0	61.0	95.9	4.1
1992		39.5	18.0	81.3	100.0	36.9	63.0			55.2	44.8	93.1	6.9
1993	.3	37.7	13.6	86.1	100.0	38.2	61.8			36.7	63.3	90.9	9.1
1994		46.3	10.6	88.8	100.0	27.9	72.1			43.3	56.7	90.2	9.8
1995	.3	54.8	14.1	85.3	100.0	20.1	79.9			55.8	44.2	85.8	14.2
1996	5.5	48.4	9.6	90.0	100.0		100.0			52.4	47.6	92.6	7.4

APPENDIX I

TABLE I-22: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 5000 LB. TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	201	.101	10.2	12.4	11.1	5000		365	165	14.1	114.2	.450	.0330	27.9
1976	297	.114	11.0	13.7	12.1	5000		364	156	14.7	111.8	.428	.0313	30.4
1977	256	.091	11.9	14.8	13.1	5000		372	167	14.0	114.7	.446	.0333	32.8
1978	324	.099	11.7	14.6	12.8	5000		371	170	13.6	115.7	.459	.0340	32.1
1979	673	.218	11.4	13.7	12.3	5000		363	156	15.1	111.6	.426	.0311	31.8
1980	242	.130	13.4	17.9	15.1	5000		347	154	14.8	111.0	.443	.0307	39.1
1981	122	.067	14.1	18.7	15.8	5000		330	146	15.4	109.0	.447	.0293	40.6
1982	170	.089	15.1	20.2	17.0	5000		331	144	15.6	108.3	.438	.0288	44.5
1983	173	.075	14.8	20.6	17.0	5000		332	150	15.0	110.1	.458	.0301	44.0
1984	260	.078	14.0	19.5	16.0	5000		327	159	14.4	112.5	.488	.0318	41.0
1985	277	.076	13.8	19.4	15.9	5000		326	164	14.1	114.0	.504	.0328	40.3
1986	289	.067	14.1	20.0	16.3	5000		323	162	14.1	113.5	.503	.0325	41.1
1987	235	.057	13.8	19.3	15.9	5000		327	175	13.4	117.2	.534	.0351	40.0
1988	366	.080	14.2	20.3	16.4	5000		330	180	13.2	118.4	.541	.0360	41.3
1989	340	.077	14.0	19.8	16.1	5000		322	176	13.4	117.3	.547	.0352	40.7
1990	390	.103	14.0	20.6	16.4	5000		332	188	12.7	120.8	.568	.0377	41.1
1991	245	.060	13.9	20.2	16.2	5000		325	188	12.6	120.8	.582	.0377	40.7
1992	363	.089	14.3	21.3	16.8	5000		320	182	13.0	119.1	.572	.0365	42.3
1993	405	.085	14.5	21.5	17.0	5000		324	196	12.2	122.9	.606	.0391	42.7
1994	574	.105	14.5	21.6	17.0	5000		329	200	12.0	124.1	.610	.0400	42.7
1995	859	.146	14.2	21.3	16.7	5000		329	199	12.0	124.0	.607	.0399	41.9
1996	798	.136	14.6	21.8	17.2	5000		321	213	11.5	127.7	.665	.0426	43.1

PERCENT OF 5000. LB. TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1975		48.9	24.2					100.0			100.0	100.0	
1976		50.3	24.6					100.0			100.0	100.0	
1977		40.8	22.1					100.0			100.0	100.0	
1978		56.5	27.0					100.0			100.0	100.0	
1979		22.4	15.5	1.2				92.2	7.8		100.0	100.0	
1980		51.8	18.5	56.3				82.5	17.5		100.0	100.0	
1981		50.7	17.4	53.8				85.6	14.4		100.0	100.0	
1982		42.0	17.9	54.6				67.9	32.1		100.0	100.0	
1983		48.9	12.1	67.2				81.7	18.3		100.0	100.0	
1984		60.0	12.6	59.0				93.4	6.6		100.0	100.0	
1985		63.5	11.8	63.6	3.2			94.0	2.8		100.0	100.0	
1986		62.7	9.5	68.8	16.2		16.2	82.3	1.5		100.0	100.0	
1987		70.3	13.0	53.5	70.7	40.0	30.7	28.5	.8		100.0	100.0	
1988		61.1	9.8	64.3	97.4	47.8	49.6	1.4	1.1		100.0	100.0	
1989		62.7	12.6	64.7	99.3	39.1	60.2		.7		100.0	96.6	3.4
1990		58.9	8.7	84.4	99.4	54.7	44.7		.6	.1	99.9	97.8	2.2
1991		69.9	10.5	82.8	99.3	48.2	51.1		.7	3.9	96.1	93.2	6.8
1992		64.5	12.3	85.1	99.6	38.8	60.8		.4	9.4	90.6	96.6	3.4
1993		71.1	9.2	87.4	100.0	40.5	59.5			4.5	95.5	96.1	3.9
1994		75.2	7.5	90.2	100.0	40.2	59.8			3.5	96.5	96.9	3.1
1995	.2	52.2	4.9	93.0	99.6	42.7	56.9		.4	3.1	96.9	98.0	2.0
1996	.2	58.5	5.1	94.2	98.9		98.9		1.1	1.7	98.3	88.4	11.6

TABLE I-23: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 5500 LB. TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	59	.030	9.2	11.3	10.0	5500		380	175	14.7	113.8	.456	.0317	27.7
1976	109	.042	10.3	13.1	11.4	5500		385	173	14.8	113.4	.445	.0315	31.5
1977	101	.036	10.7	13.4	11.8	5500		398	184	14.1	116.3	.458	.0334	32.8
1978	133	.041	11.0	13.8	12.1	5500		380	173	14.5	113.5	.457	.0315	33.4
1979	158	.051	10.3	12.2	11.1	5500		400	183	14.3	116.1	.454	.0333	30.8
1980	28	.015	11.7	15.4	13.1	5500		353	162	15.2	110.4	.458	.0294	36.3
1981	6	.003	12.2	16.1	13.7	5500		350	163	15.2	110.7	.466	.0296	37.7
1982	41	.022	18.7	26.4	21.5	5500		350	132	17.9	102.6	.378	.0240	60.0
1983	35	.015	17.6	25.4	20.4	5500		373	136	17.6	103.8	.367	.0248	57.9
1984	34	.010	15.6	22.1	17.9	5500		367	145	16.8	106.1	.398	.0264	51.9
1985	28	.008	13.9	20.2	16.1	5500		359	157	15.8	109.2	.440	.0286	45.8
1986	28	.006	13.8	20.0	16.0	5500		341	157	15.8	109.2	.475	.0286	45.3
1987	58	.014	14.3	21.0	16.7	5500		351	206	12.6	122.1	.588	.0374	46.1
1988	77	.017	13.9	20.3	16.2	5500		350	199	12.9	120.4	.569	.0362	44.8
1989	47	.011	14.4	22.4	17.2	5500		350	205	12.7	122.0	.587	.0374	47.6
1990	51	.013	14.1	22.0	16.8	5500		350	206	12.6	122.2	.589	.0375	46.5
1991	37	.009	14.0	21.5	16.7	5500		347	201	12.9	120.8	.578	.0365	46.1
1992	73	.018	13.8	20.5	16.2	5500		343	201	13.0	120.7	.583	.0365	44.7
1993	111	.023	14.2	21.0	16.6	5500		342	200	13.0	120.6	.584	.0364	45.8
1994	140	.025	14.3	21.0	16.7	5500		346	202	12.9	121.1	.584	.0367	46.1
1995	217	.037	13.6	19.8	15.8	5500		345	204	12.7	121.7	.593	.0372	43.7
1996	282	.048	14.1	21.4	16.7	5500		341	223	12.0	126.7	.653	.0406	46.1

PERCENT OF 5500. LB. TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1975		84.9	2.6					100.0			100.0	100.0	
1976		86.1	3.3					100.0			100.0	100.0	
1977		76.1	1.7					100.0			100.0	100.0	
1978		89.9	1.1					100.0			100.0	100.0	
1979		11.9	29.5					100.0			100.0	100.0	
1980		60.6	22.9	41.6				100.0			100.0	100.0	
1981		73.2	24.3	55.0				100.0			100.0	100.0	
1982		79.9	13.2	85.7				7.2	92.8		100.0	100.0	
1983		67.5	3.6	94.1				19.9	80.1		100.0	100.0	
1984		67.2	4.5	88.8				42.1	57.9		100.0	100.0	
1985		79.8	4.1	86.5				70.0	30.0		100.0	100.0	
1986		76.2	10.1	82.7				74.5	25.5	7.1	92.9	100.0	
1987		35.9	.4	95.8	92.6	91.6	.9	3.8	3.6		100.0	100.0	
1988		36.4	1.2	89.5	97.7	88.3	9.3	.4	1.9		100.0	100.0	
1989		4.6	1.0	93.2	96.9	89.8	7.1		3.1		100.0	100.0	
1990		3.5	1.1	98.0	97.2	83.1	14.1		2.8		100.0	100.0	
1991		8.0	.6	99.4	95.6	72.0	23.5		4.4	.6	99.4	100.0	
1992		41.3	3.8	94.5	98.4	74.9	23.5		1.6	.1	99.9	100.0	
1993		30.8	1.0	92.8	100.0	73.5	26.5				100.0	100.0	
1994		40.0	2.2	92.8	100.0	74.5	25.5				100.0	100.0	
1995		62.4	1.5	93.4	97.2	75.2	22.0		2.8		100.0	100.0	
1996		58.6	1.7	96.1	98.1		98.1		1.9		100.0	100.0	

TABLE I-24: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 6000 LB.TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	1	.000	10.0	12.3	10.9	6000		329	152	16.9	105.5	.463	.0253	33.2
1976	1	.001	10.6	13.9	11.9	6000		373	161	16.3	107.8	.433	.0268	35.8
1977	2	.001	11.2	14.2	12.4	6000		362	165	16.0	108.8	.458	.0275	37.4
1978	2	.001	10.7	13.4	11.8	6000		373	170	15.6	110.1	.458	.0284	35.4
1979	10	.003	9.7	12.6	10.8	6000		411	189	15.7	114.8	.448	.0315	32.6
1980	4	.002	10.8	14.9	12.3	6000		362	169	15.8	109.8	.467	.0282	37.5
1982	4	.002	18.2	26.2	21.1	6000		350	130	19.5	100.1	.372	.0217	63.4
1983	4	.002	17.4	25.3	20.2	6000		378	131	19.4	100.3	.346	.0218	61.3
1984	4	.001	17.4	25.8	20.4	6000		378	131	19.4	100.3	.346	.0218	61.9
1985	8	.002	18.0	27.6	21.4	6000		378	132	19.3	100.5	.349	.0219	64.6
1986	6	.001	18.8	28.5	22.2	6000		379	130	19.5	100.0	.343	.0217	66.8
1987	3	.001	18.1	26.8	21.2	6000		377	136	19.0	101.6	.363	.0227	64.5
1988	4	.001	16.0	23.6	18.7	6000		369	158	17.3	107.0	.431	.0263	57.7
1989	33	.007	13.5	20.0	15.8	6000		352	205	13.7	118.7	.584	.0341	47.8
1990	32	.008	13.6	20.4	16.0	6000		352	206	13.6	119.0	.587	.0343	48.3
1991	18	.005	13.5	19.9	15.8	6000		351	206	13.5	119.1	.588	.0344	47.5
1992	25	.006	12.5	19.3	14.9	6000		350	209	13.3	119.7	.595	.0348	44.7
1993	49	.010	13.4	20.1	15.8	6000		350	210	13.3	120.0	.600	.0350	47.4
1994	69	.013	13.9	20.0	16.1	6000		352	208	13.4	119.5	.592	.0347	48.4
1995	67	.011	13.2	19.8	15.6	6000		352	209	13.3	119.8	.594	.0349	46.8
1996	64	.011	13.6	21.1	16.2	6000		350	229	12.5	124.8	.654	.0382	48.8

PERCENT OF 6000. LB. TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1975	14.6		74.8					100.0			100.0	100.0	
1976	64.4		38.8					100.0			100.0	100.0	
1977	53.5		36.7					100.0			100.0	100.0	
1978	64.2		33.8					100.0			100.0	100.0	
1979	43.1							100.0			100.0	100.0	
1980	2.3			76.5				100.0			100.0	100.0	
1982	99.3			100.0				.7	99.3		100.0	100.0	
1983	95.5			95.5				4.5	95.5		100.0	100.0	
1984	95.4			95.4				4.6	95.4		100.0	100.0	
1985	41.2		2.5	97.5				4.7	95.3		100.0	100.0	
1986	41.5		.3	99.7					100.0		100.0	100.0	
1987	48.5		7.9	92.1	7.8	7.8			92.2		100.0	100.0	
1988	61.9		7.4	92.6	32.9	32.9			67.1		100.0	100.0	
1989	96.3		1.1	98.9	93.7	93.7			6.3		100.0	100.0	
1990	96.8		.7	99.3	94.5	94.5			5.5		100.0	100.0	
1991	94.9		.1	99.9	94.7	94.7			5.3		100.0	100.0	
1992	82.5			100.0	99.2	82.5	16.7		.8		100.0	100.0	
1993	99.8			100.0	100.0	99.8	.2				100.0	100.0	
1994	91.6			100.0	100.0	87.0	13.0				100.0	100.0	
1995	89.0			99.9	95.7	86.5	9.2		4.3		100.0	100.0	
1996	62.4			100.0	95.7		95.7		4.3		100.0	100.0	

TABLE I-25: CHARACTERISTICS OF 1975 TO 1996 LIGHT DUTY VEHICLES 6500 LB. TRUCKS

MODEL YEAR	SALES (000)	FRAC	FUEL ECONOMY CITY	HWY	55/45	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
1975	1	.000	9.9	11.6	10.6	6500		321	150	18.6	103.1	.468	.0231	34.5
1976	1	.000	10.4	13.3	11.5	6500		324	144	19.2	101.6	.447	.0222	37.6
1977	1	.001	11.4	13.6	12.3	6500		316	142	19.3	101.2	.453	.0219	40.1
1978	2	.000	10.7	13.2	11.7	6500		327	155	18.1	104.3	.474	.0239	38.2
1980	1	.000	10.6	14.5	12.0	6500		368	150	18.5	103.1	.408	.0231	39.2
1991	1	.000	16.8	26.7	20.2	6500		379	140	19.6	100.7	.369	.0215	65.5

PERCENT OF 6500. LB. TRUCKS:

MODEL YEAR	DRIVETRAIN FRONT	4WD	TRANSMISSION MANUAL	LOCK	FUEL METERING FI	TBI	PORT	CARB	DSL	VEHICLE SIZE SMALL	LARGE	DESIGNED DOM	IMPORT
1975								100.0			100.0	100.0	
1976			.2					100.0			100.0	100.0	
1977								100.0			100.0	100.0	
1978								100.0			100.0	100.0	
1980								100.0			100.0	100.0	
1991		100.0		100.0					100.0		100.0	100.0	