

Truck Inventory and Use Survey (TIUS) 1987
Technical Documentation

The Bureau of Transportation Statistics

<https://doi.org/10.21949/1521116>

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CENSUS OF TRANSPORTATION, 1987 TRUCK INVENTORY AND USE SURVEY

Technical Documentation

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NOTE

Questions about the **documentation** should be directed to Data User Services Division, Data Access and Use Staff, Bureau of the Census, Washington, D.C. 20233. Phone: (301) 763-2074.

Questions about the **tape** should be directed to Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, D.C. 20233. Phone (301) 763-4100.

Questions about the **subject matter** should be directed to Business Division, Bureau of the Census, Washington, D.C. 20233. Phone: (301) 763-1744.

ATTACHMENT 1

ABSTRACT

*Census of Transportation, 1987 Truck Inventory and Use Survey
[machine-readable data file] / prepared by the Bureau of the Census.
Washington: The Bureau [producer and distributor], 1990.*

Type of File:

Microdata.

Universe Description:

The universe is approximately 47 million current registrations on file with motor vehicle departments in 50 States and the District of Columbia. The sample is a stratified probability sample of 135,000 trucks.

Subject-Matter Description:

The data available for individual trucks include weight and type of ownership. The following data are also available: leasing information (type, length, and options), major use and principal products carried (including percent of time carried hazardous material), maintenance information, and equipment data (engine, brake type, power steering, fuel, conservation equipment, body and vehicle type and size class, and cab type), vehicle make, cubic inch displacement, annual and lifetime miles, and Polk gross vehicle weight rating (GVWR) code.

Geographic Coverage:

The State in which the truck is registered. The record also indicates if the home base is inside or outside a Metropolitan Statistical Area (MSA).

Technical Description:

File Structure: rectangular

File Size: 104,606 logical records; 424 character logical record length.

File Sort Sequence: serial number.

Reference Materials:

Census of Transportation, 1987 Truck Inventory and Use Survey Technical Documentation. The documentation contains this abstract, record description, and other information about the file. One copy accompanies each file order. When ordered separately, it is available for \$5 from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233. Phone: (301) 763-4100.

Related Printed Reports:

1987 Census of Transportation, Truck Inventory and Use Survey (TC87-T-1 to -52). This series include a U.S. summary and a separate report for each State and the District of Columbia. Contact Customer Services (301) 763-4100 for prices and ordering information.

Related Machine-readable Data Files:

Census of Transportation, 1967, 1972, 1977, and 1982 Truck Inventory and Use Survey microdata files are also available from Customer Services (Tapes).

File Availability:

This file is available on 1 reel at 1600 bpi and 6250 bpi for \$175 from Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, DC 20233. Phone: (301) 763-4100.

The first census of business was taken in 1930, covering 1929. Initially, it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in other sections. This is part of a gradual expansion in coverage of industries previously subject to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Business Reports* (retail and wholesale trade, service industries, and transportation), the *Annual Survey of Manufactures*, *Current Industrial Reports*, and the *Quarterly Financial Report*. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the censuses. The *County Business Patterns* program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1987 Economic Censuses and Related Statistics*. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1987 Economic Censuses*. Contact Customer Services for information on availability.

TRUCK INVENTORY AND USE SURVEY, 1987 CENSUS OF TRANSPORTATION

The Truck Inventory and Use Survey (TIUS) provides data on the physical and operational characteristics of the Nation's truck population. It is based on a probability sample of private and commercial trucks registered (or licensed) in each State during 1987.

The following types of vehicles were excluded from this survey prior to sampling: those owned by Federal, State, and local governments; ambulances; buses; and motor homes. A small number of the vehicles sampled were determined to be "out-of-scope" of the survey. These cases include: farm tractors; unpowered trailer units; and trucks reported to have been sold, junked, or wrecked, prior to the registration year.

Many States allow pickups, small vans, and utility-type vehicles to be registered as cars or trucks. Therefore, the passenger car files were searched and any such trucks were included in the universe of trucks from which the sample was selected. Some vehicles such as "off-highway" trucks used exclusively on private property do not have to be registered. Therefore, they were not included in the universe and had no chance of being selected.

USES OF THE TRUCK INVENTORY AND USE SURVEY

TIUS information is of considerable value to State and Federal transportation agencies in the planning of highway cost allocations, improvements in road conditions, energy consumption, and emergency preparedness. The private sector also needs these data to plan for future vehicle designs and improvements, market studies, and more efficient vehicle usage.

TRUCK CHARACTERISTICS

The estimated number of trucks that were within the scope of the TIUS and registered in the United States as of July 1, 1987, was 44,572.2 thousand. These trucks were estimated to have been driven a total of 529,315.3 million

miles during 1987, an increase of 40.3 percent (± 2.0)¹ from 1982. The average annual miles traveled per truck was estimated at 11.9 thousand.

The Federal Highway Administration (FHWA) estimate of the number of private and commercial trucks registered in the United States as of December 31, 1987, was 39,529.6 thousand. This estimate is based on a calendar year summary report from each State. It reflects differences in truck definitions used by each State for vehicle registration from those used in the TIUS.

COMPARABILITY WITH PREVIOUS SURVEYS

Although the basic purpose and scope of the previous Truck Inventory and Use Surveys were essentially identical to this one, some new items were introduced in 1987, as well as some changes that may affect specific items in this report.

New items introduced in 1987:

1. **Width of trailer**—Respondents were asked to report the width of the trailer most often attached to the vehicle.
2. **Piggyback or container**—Respondents who received the TC-9502 form and who reported that they operated a truck tractor (power unit) pulling trailer(s) were asked to report the percent of annual mileage they hauled—
 - a. Railroad, ocean-going, or similar containers, and
 - b. Piggyback trailers.
3. **Accidents**—Respondents were asked if the vehicle was involved in an accident during 1987 and if the accident involved a fatality, bodily injury, or property damage of \$4,200 or more. This information is available on the public-use tape only.

1987 changes affecting specific items:

1. **Base of operation**—Respondents were asked to report the home base of the vehicle on "July 1, 1987," instead of "for the last 12 months."
2. **Percentage of hazardous materials carried**—Because over 50 percent of the trucks carrying hazardous materials carried them less than 25 percent of their annual miles in 1982, the category "Below 25%" was broken down into two categories: "Below 10%" and "10-24%." The list of hazardous materials carried was expanded.

¹All comparisons are accompanied by a 90-percent confidence interval, so that a statement such as "an increase of 5.0 percent (± 5)" indicates a 90-percent confidence interval from 4.5 to 5.5. If the interval contains zero, it is uncertain whether there is an increase or decrease.

3. **Body type**—"Mini-vans" was made into a separate category instead of being included in the "Van" category.
4. **Major use**—"One-way rental" was made into a separate category instead of being included in the "Daily Rental" category.
5. **Products carried**—Four new categories were added to the list of products carried. They are: (1) glass products, (2) miscellaneous products of manufacturing, (3) industrial water, and (4) hazardous waste.
6. **Number of cylinders**—This item was deleted from the questionnaire, but the data were derived from an analysis of the vehicle identification number (VIN) and are included in the tables. "Not reported" indicates those trucks for which the cylinders are unknown.
7. **Transmission type**—This question was deleted from the questionnaire and data will not be made available for this item.
8. **Annual miles**—Respondents were asked how many miles the vehicle was driven in 1987. For those vehicles sold during 1987, a full year's annual miles were estimated. In previous surveys, owners were asked to report their annual miles for the past 12 months, and if driven less than 12 months, to estimate the mileage for a full year.

EXPLANATION OF TERMS

Major use—This is based on the business or the part of the business in which the vehicle was used. The 15 specific major use categories conform to the generally accepted meaning of the terms.

Responses in the "Other" category were recoded to one of the specific categories if possible.

The category "Not in Use" in table 2 includes vehicles which, though licensed, were not used or were wrecked for more than 90 days.

Body type—This category includes the type of body that is either permanently attached to the power unit (i.e., straight or single-unit truck) or most frequently used with a truck tractor as a truck-tractor combination.

Range of Operation—The area in which the vehicle usually operated is classified as one of the following:

1. **Local**—Less than a 50-mile radius of the home base (the farm, factory, mine, or other place where the vehicle is stationed).
2. **Short range**—Within a 50 to 200-mile radius from the home base.
3. **Long range**—More than 200 miles one way to the most distant stop from the home base.
4. **Off-the-road**—Minimal use of public roads (usually associated with construction and farming activities).

Vehicle size—This size classification is based on the average vehicle weight (empty weight of the vehicle plus the average weight of the load carried) at which the vehicle operated during the past year. The four size classes are:

1. **Light**—Average vehicle weight of 10,000 pounds or less.
2. **Medium**—Average vehicle weight of 10,001 to 19,500 pounds.
3. **Light-heavy**—Average vehicle weight of 19,501 to 26,000 pounds.
4. **Heavy-heavy**—Average vehicle weight of 26,001 pounds or more.

Operator classification—This item consists of not for hire, for hire, daily rental, and mixed.

1. **Not for hire**—Includes a private owner or a company which transports its own materials or merchandise or uses the vehicle for personal transportation.
2. **For hire**—Includes the following:
 - a. **Motor carrier**—Those vehicles operated by a company whose primary business is to provide transportation services carrying freight belonging to others.
 - b. **Owner/Operator**—Vehicles operated by an independent trucker who drives the vehicle for himself or on lease to a company.
3. **Daily rental**—Vehicles rented or leased out under daily or short term rental or lease agreements (not motor carrier).
4. **Mixed**—A mixture of the operator classifications above with equal percentages of use for at least two of the three categories. If the percentages were not equal, the answer was recoded to the operator classification with the highest percentage.
5. **Type of carrier**—These categories are limited to for hire, interstate operators:
 - a. **Contract**—Offers transportation services to certain shippers under contracts.
 - b. **Common**—Offers transportation services to the general public over regular or irregular routes.
 - c. **Exempt**—Transports commodities or provides types of services that are exempt from federal regulation. Could also operate within exempt commercial zones.

Products carried—This item includes broad classifications of agricultural, manufacturing, and mineral products, as well as special categories of materials carried by trucks. Responses to the "Other" category were recoded to one of the 25 specific categories if possible.

Hazardous materials—This category was designed to identify those trucks which regularly transport hazardous materials in quantities large enough to require a placard under the Code of Federal Regulations, Title 49, Transportation.

Truck fleet size—The size of the truck fleet is based on the number of trucks operated by a truck owner from a single "base of operation." The fleet located at the "base of operation" usually is smaller than the total fleet that an owner has if he operates from more than one base. The data shown in the "Truck Fleet Size" section of the tables are based on the number of trucks found in fleets of specified size and not the number of fleets. (If this item on the survey form was unanswered, the vehicle was assumed to be in a fleet of one, classified in accordance with the reported vehicle type.)

SAMPLE DESIGN

The Truck Inventory and Use Survey was based on a stratified probability sample of approximately 135,000 trucks drawn from an estimated universe of approximately 47 million trucks registered as of July 1, 1987, with the motor vehicle departments in the 50 States and the District of Columbia.

A stratified random sample based on body type was selected in each State. The universe of trucks within each State was divided into five strata: "pickup," "van," "single-unit light," "single-unit heavy" and "truck tractor." The "pickup" truck stratum consisted of only pickup trucks. The "van" truck stratum consisted of panel trucks, vans, mini-vans, utilities, jeeps, and station wagons on truck chassis. The "single-unit light" truck stratum consisted of all other single-unit trucks with a gross vehicle weight (GVW) of 26,000 pounds or less. The "single-unit heavy" truck stratum consisted of the remaining single-unit trucks. The "truck tractor" stratum consisted of only truck tractors. Within each stratum in each State, a predetermined number of trucks was sampled in a random fashion.

Part of the sample (34 percent at the national level) was allocated to meet "minimum" standards of reliability for the estimate of total number of trucks for each State. An additional 28 percent of the sample was allocated to meet "minimum" standards of reliability for the estimate of number of trucks excluding pickups, panels, utilities, and station wagons for each State. The remaining additional sampling units were allocated to improve the reliability of the estimated number of long-haul trucks. The number of total trucks sampled ranged from 1,695 for the District of Columbia to 2,916 for California, the mean being 2,653 trucks per State.

SURVEY METHOD

For each selected truck, a report form was mailed to the owner identified in vehicle registration records as of July 1, 1987. The owner was asked to respond only for the truck

identified by the vehicle registration information imprinted on the form, regardless of whether or not he or she still owned the vehicle. The information received on the returned questionnaires was processed through an extensive computer edit. Reports which contained questionable responses were reviewed and corrected if necessary. In each stratum for a State, estimates of the number of trucks for each characteristic were developed by weighting up the observations from the respondents to represent all trucks in the stratum within the scope of the TIUS. The stratum estimates were then summed across strata to form the estimates published for each State. Truck miles were estimated in a similar way. National estimates of number of trucks and truck miles were then obtained by adding up all the State estimates. For each line in the tables, truck miles is an estimate of the miles traveled during 1987 by all trucks having the specified characteristic. Estimates of average miles per truck were derived from the estimates of number of trucks and truck miles.

RELIABILITY OF ESTIMATES

An estimate based on a sample survey will differ from the universe value because of sampling variability and nonsampling error. Sampling variability occurs because observations are made only on a sample, not on the entire universe. Nonsampling errors can be attributed to many sources in the reporting, collecting, and processing of data. Nonsampling errors would occur even if the entire universe was surveyed. The accuracy of a survey result is determined by the joint effects of sampling variability and nonsampling errors.

Measures of Sampling Variability

The particular sample used in this survey is one of a large number of all possible samples of the same size that could have been selected using the same design. Estimates derived from the different samples would differ from each other and from the universe total. However, the average of these estimates would equal the total derived from a complete enumeration of the universe. This assumes that a complete enumeration has the same nonsampling error as the sample survey. The standard error of the estimate is a measure of the variability among the estimates from all possible samples of the same size and design. It measures the precision we can expect from a sample estimate of the value we would obtain under complete enumeration. The relative standard error (RSE), expressed as a percent, is the standard error of the estimate times 100 divided by the value being estimated. Note that the RSE's are estimates derived from the sample and are also subject to sampling variability. Except for table 2, the RSE's are given only for the top row of estimates and the left column of estimates. The procedures for approximating the RSE's for the other estimates is covered in appendix B.

The estimate from a particular sample and the approximation of the standard error associated with the estimate can be used to construct interval estimates called confidence intervals. A confidence interval is an expression of how well an estimate from a particular sample represents an unknown population value. Associated with each interval is a percentage of confidence (most commonly 68, 90, or 95 percent), which is interpreted as follows. If, for each possible sample, an estimate of an unknown population value and the approximate standard error were obtained, then:

1. For approximately 68 percent of the possible samples, the interval from one standard error below to one standard error above the estimate would include the unknown population value. We call this a 68-percent confidence interval.
2. For approximately 90 percent of the possible samples, the interval from 1.65 standard errors below to 1.65 standard errors above the estimate would include the unknown population value. We call this a 90-percent confidence interval.
3. For approximately 95 percent of the possible samples, the interval from two standard errors below to two standard errors above the estimate would include the unknown population value. We call this a 95-percent confidence interval.

Example of a confidence interval calculation:

Assume the number of drop-frame vans in table 2 is given as 117.4 thousand trucks with a relative standard error of 6.1 percent, then the standard error is:

$$117.4 \times .061 = 7.16 \text{ thousand trucks}$$

An approximate 90-percent confidence interval (the estimate, plus or minus 1.65 standard errors) is 117.4 plus or minus 11.8 or 105.6 to 129.2 thousand trucks.

All comparisons appearing in the "Summary of Findings" of this publication and for which measures of sampling variability are available are accompanied by an indication of the 90-percent confidence interval. Thus, a statement such as "an increase of 29 percent (± 5.1)" indicates a 90-percent confidence interval from 23.9 to 34.1. If the confidence interval contains zero, it is uncertain whether there is an increase or decrease.

Nonsampling Errors

Nonsampling errors cover all sources of errors in the estimates that cannot be attributed to sampling variability. This includes errors in the reporting, collecting, and processing of data as well as the inability to obtain responses from some sampled units. Nonsampling errors lead to biases in the estimates. Bias exists if an estimate, averaged over all possible samples, does not equal the true value being estimated.

One source of possible bias is nonresponse. There are two types of nonresponse. "Total nonresponse" occurs when no response to the questionnaire was received. In most cases, the form was never returned to the Census Bureau, after several attempts to elicit a response. For the United States, approximately 79.5 percent of the questionnaires were returned with some response. "Item nonresponse" applies to an individual item or question which was unanswered, although some response to the questionnaire was received. Several follow-ups, by mail and telephone, were done to reduce both types of nonresponse. The details to account for total nonresponse and item nonresponse are given below.

For most sections in the tables, total nonresponse is handled within the estimation procedure by allocating characteristics to the total nonrespondents in proportion to the characteristics observed for the respondents. The amount of bias introduced in this way depends on the extent that the nonrespondents differ, characteristically, from the respondents.

For most sections in the tables, a "not reported" category includes item nonresponse which remains after response generation. For example, if the major use of a truck cannot be determined, it is included in the "not reported" line. This line shows the part of the total estimate (for that table section) which is missing from the estimates by major use. Users should exercise caution in allocating the not reported figure to the major uses, since the

characteristics of item nonrespondents may differ significantly from those of the respondents. For some questions, a response was generated if it could be derived from other data. For example, engine characteristics and body characteristics were frequently determined through analysis of the vehicle identification number and charts based on manufacturers' specifications. Missing annual miles data (excluding missing data due to total nonresponse) were imputed for each individual truck based on information available about the truck's lifetime miles, age, vehicle type, number of axles, engine type, area of operation, and major use.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- (NA) Not available.
- (RSE) Relative standard error.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (Z) Represents less than 50 trucks, or 50,000 miles, 50 miles per truck, or .05 percent, as appropriate for the data column.

Survey Forms



U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

FORM

TC-9501

1987 CENSUS OF TRANSPORTATION TRUCK INVENTORY AND USE SURVEY

OMB APPROVAL NO. 0607-0582 EXPIRES 12/89

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential; it may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47134

DUE DATE: 15 days after receipt of form

Important — Please read

All questions on this form refer to the vehicle described below and its use during 1987. If you did not own the vehicle during 1987, please continue with the questionnaire answering each item according to how you used the vehicle during the last 12 months you owned (or leased) it. If there are errors in the vehicle registration information, consult the instruction sheet before continuing with the questionnaire.

ESTIMATES ARE ACCEPTABLE.

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

In correspondence pertaining to this report, please refer to this Census File Number (CFN)

CENSUS USE

REGISTRATION INFORMATION

101	102	103	104	105
Make of vehicle	Year of model	State	License number	Vehicle identification number (VIN)

Item 1 — When did you obtain this vehicle?
Enter figures only

110 Month Year

Item 2 — How did you obtain this vehicle?

- 111 1 ☐ Purchased it new
2 ☐ Purchased it used (or otherwise acquired)
3 ☐ Leased or rented it FROM someone else — Continue with items 2a and b

SKIP to item 3

a. How was this vehicle leased or rented?

- 112 1 ☐ Without a driver
2 ☐ With a driver other than an owner-operator
3 ☐ With an owner-operator as driver

b. Was the agreement for 12 months or more?

- 113 2 ☐ NO
1 ☐ YES — Which of the following did the leasing agreement include?
Mark (X) all that apply

- 114 ☐ Financing only (Do not mark if installment sales contract)
115 ☐ Full maintenance
116 ☐ Maintenance on specified parts only
117 ☐ Payment on taxes
118 ☐ Obtaining licenses and permits
119 ☐ Recordkeeping for leased trucks
120 ☐ Other — Specify

Item 3 — Is this vehicle still in your possession?

- 206 1 ☐ YES — Are you the — 207 1 ☐ owner? } SKIP to item 4 and continue
2 ☐ lessee? } with questionnaire
2 ☐ NO — Please continue with this questionnaire, answering each item according to how you used the vehicle during the last 12 months you owned (or leased) it. Continue with items 3a and b.

a. When did you dispose of this vehicle?
Enter figures only

208 Month Year

b. How did you dispose of this vehicle?

- 209 1 ☐ Sold it (or gave it away)
2 ☐ Junked, scrapped, or otherwise destroyed
3 ☐ Returned to leasing company

Item 9 — Continued

c. What was the loaded weight of the trailer most often attached to the vehicle?
An estimate is acceptable.

333 Pounds

d. What was the width of the trailer most often attached to the vehicle?

335 inches

Item 10 — How many miles was this vehicle driven during 1987?
An estimate is acceptable.

400 Miles

Item 11 — How many miles has this vehicle been driven since it was manufactured?

401 Miles

NOTE — If it is no longer in your possession, please estimate the total lifetime mileage at the time you last operated it.
If the odometer/speedometer is broken, please give your best estimate.
If the odometer has turned over (100,000 + miles), please enter the total figure.

Item 12 — How many miles-per-gallon (MPG) did this vehicle average during 1987? (Use tenths, if available.)

402 Miles/tenths

Example: 10.5 MPG should be entered as

Miles	Tenths
10	5

 Enter miles per gallon

Item 13 — Where was the home base of this vehicle on July 1, 1987?
If put into service after July 1, 1987, enter current home base.

404 City

405 County

406 State

407 ZIP Code

Item 14 — What percent of annual mileage was driven OUTSIDE the home base state?
An estimate is acceptable. (If none, enter zero.)

408 %

Item 15 — What PERCENTAGE of this vehicle's ANNUAL MILEAGE was accounted for by the type of trips listed below? (If all trips were within one range, enter 100%. If more than one range is applicable, be sure that percentages add up to 100%.)

Trips off-the-road, little travel on public roads	409
Trips less than a 50 mile radius of vehicle's home base	410
Trips within a 50 — 200 mile radius of vehicle's home base	411
Trips beyond a 200 mile radius of vehicle's home base	412
TOTAL — Should equal 100%	100%

<p>Item 4 - Did you lease or rent out this vehicle TO anyone else?</p> <p>210 <input type="checkbox"/> YES - Continue with items 4a and b <input type="checkbox"/> NO - SKIP to item 5</p> <p>a. How was it leased or rented out?</p> <p>211 <input type="checkbox"/> Without a driver <input type="checkbox"/> With a driver other than an owner-operator <input type="checkbox"/> With an owner-operator as driver</p> <p>b. Was the agreement for 12 months or more?</p> <p>212 <input type="checkbox"/> NO <input type="checkbox"/> YES - Which of the following did the leasing agreement include? Mark (X) all that apply.</p> <p>214 <input type="checkbox"/> Financing only (Do not mark if installment sales contract) 215 <input type="checkbox"/> Full maintenance 216 <input type="checkbox"/> Maintenance on specified parts only 217 <input type="checkbox"/> Payment of taxes 218 <input type="checkbox"/> Obtaining licenses and permits 219 <input type="checkbox"/> Recordkeeping for leased trucks 220 <input type="checkbox"/> Other - Specify, _____</p>	<p>Item 16 - Not applicable to this form.</p> <p>Item 17 - What is the horsepower rating of this vehicle's engine? 241 _____</p> <p>Item 18 - What is the size (displacement) of this vehicle's engine? Enter cubic inches, cubic centimeters, or liters, whichever is applicable.</p> <p>242 Cubic inches (CI) _____ 243 Cubic centimeters (CC) _____ 244 Liters (L) _____ OR OR</p> <p>Item 19 - What kind of fuel does this vehicle use?</p> <p>245 <input type="checkbox"/> Gasoline <input type="checkbox"/> Other - Specify fuel, _____ <input type="checkbox"/> Diesel <input type="checkbox"/> Liquefied petroleum gas (LPG)</p> <p>Item 20 - Does this vehicle have any of the following? Mark (X) all that apply.</p> <p>254 <input type="checkbox"/> Radial tires 255 <input type="checkbox"/> Air conditioning 256 <input type="checkbox"/> Power steering 257 <input type="checkbox"/> Front-wheel drive</p> <p>Item 21 - Who performed the general maintenance and major overhauls on this vehicle? Mark (X) all that apply.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>General maintenance</th> <th>Major overhauls</th> </tr> </thead> <tbody> <tr> <td>270 Yourself</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>271 Your company's own maintenance facilities</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>272 Dealership's service department</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>273 Leasing company</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>274 Independent garage or private mechanic (includes gasoline or service stations)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>275 Component distributorship (engine, transmission, etc.)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>276 No one</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>277 Other - Specify, _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>		General maintenance	Major overhauls	270 Yourself	<input type="checkbox"/>	<input type="checkbox"/>	271 Your company's own maintenance facilities	<input type="checkbox"/>	<input type="checkbox"/>	272 Dealership's service department	<input type="checkbox"/>	<input type="checkbox"/>	273 Leasing company	<input type="checkbox"/>	<input type="checkbox"/>	274 Independent garage or private mechanic (includes gasoline or service stations)	<input type="checkbox"/>	<input type="checkbox"/>	275 Component distributorship (engine, transmission, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	276 No one	<input type="checkbox"/>	<input type="checkbox"/>	277 Other - Specify, _____	<input type="checkbox"/>	<input type="checkbox"/>																								
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277 Other - Specify, _____	<input type="checkbox"/>	<input type="checkbox"/>																																																		
<p>Item 5 - What is the body type of this vehicle?</p> <p>213 <input type="checkbox"/> Pickup <input type="checkbox"/> Mini-van <input type="checkbox"/> Van other than mini-van <input type="checkbox"/> Utility (For example: Bronco, Blazer, Jeep, CJ-5, 7, etc.) <input type="checkbox"/> Station wagon built on truck chassis (For example: Suburban, Wagoneer, etc.) <input type="checkbox"/> Other - If the above descriptions do not match the body type of this vehicle, please describe the body type in detail, _____</p>	<p>Item 22a - Which of the following best describes the primary way this vehicle was operated?</p> <p>501 <input type="checkbox"/> BUSINESS USE - Operated by and for a private business (including self-employment) or a company; used in related activities of that business (including transportation of employees) - SKIP to item 23 <input type="checkbox"/> PERSONAL TRANSPORTATION - Operated as a personal-use vehicle in place of an automobile for pleasure driving, travel to work, etc. (NO BUSINESS USE) - SKIP to item 26 <input type="checkbox"/> FOR HIRE - SKIP to item 22b <input type="checkbox"/> DAILY RENTAL (Not motor carrier) - SKIP to item 23 <input type="checkbox"/> MIXED</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>502</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Percent business use</td> <td>503</td> <td>%</td> </tr> <tr> <td>Percent personal use</td> <td>504</td> <td>%</td> </tr> <tr> <td>Percent for hire (includes intercorporate hauling and trip leasing, etc.)</td> <td></td> <td>%</td> </tr> </tbody> </table> <p style="text-align: center;">Complete as below</p> <p>b. If this vehicle was for hire, indicate below the type of for hire operation. Enter percentage of mileage for each category. (See instruction sheet for further information and definitions.)</p> <p>(1) Operation type</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>506</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>MOTOR CARRIER</td> <td></td> <td></td> </tr> <tr> <td>OWNER OPERATOR</td> <td>507</td> <td>%</td> </tr> <tr> <td>as an independent</td> <td></td> <td></td> </tr> <tr> <td>leased to a company</td> <td>508</td> <td>%</td> </tr> </tbody> </table> <p>(2) Jurisdiction served</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>509</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>INTERSTATE</td> <td></td> <td></td> </tr> <tr> <td>INTRASTATE</td> <td>510</td> <td>%</td> </tr> <tr> <td>LOCAL</td> <td>511</td> <td>%</td> </tr> </tbody> </table> <p>(3) Kind of carrier</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>512</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>CONTRACT</td> <td></td> <td></td> </tr> <tr> <td>COMMON</td> <td>513</td> <td>%</td> </tr> <tr> <td>EXEMPT</td> <td>514</td> <td>%</td> </tr> </tbody> </table> <p>(4) Was this vehicle operated under ICC authority? 516 <input type="checkbox"/> YES <input type="checkbox"/> NO</p>		502	%	Percent business use	503	%	Percent personal use	504	%	Percent for hire (includes intercorporate hauling and trip leasing, etc.)		%		506	%	MOTOR CARRIER			OWNER OPERATOR	507	%	as an independent			leased to a company	508	%		509	%	INTERSTATE			INTRASTATE	510	%	LOCAL	511	%		512	%	CONTRACT			COMMON	513	%	EXEMPT	514	%
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<p>Item 6 - How many axles are on this vehicle and how many of them are driving axles? (Do not include axles on any trailers pulled.)</p> <p>a. Total number of axles on truck (include front and rear axles):</p> <p>216 <input type="checkbox"/> Two axles (4 tires) <input type="checkbox"/> Three axles <input type="checkbox"/> Two axles (6 tires) <input type="checkbox"/> Four or more axles</p> <p>b. Number of driving (powered) axles on truck:</p> <p>218 <input type="checkbox"/> One driving axle <input type="checkbox"/> Two driving axles <input type="checkbox"/> Three or more driving axles</p>	<p>Item 7 - What is the overall length of this vehicle or vehicle and trailer (if a trailer was pulled more than 60 percent of the annual miles)? Report distance from front bumper to rear of vehicle or trailer, whichever is applicable. 225 Feet</p> <p>Item 8a - What was the average weight (empty weight plus weight of cargo) of this vehicle as it was usually operated? 227 Pounds An estimate is acceptable.</p> <p>b. What percent of annual mileage did this vehicle carry no payload? 228 %</p> <p>c. What percent of annual mileage did this vehicle carry payloads that -</p> <p>(1) filled its maximum cargo size? 229 %</p> <p>(2) weighed the maximum cargo weight? 230 %</p>																																																			
<p>Item 9 - During 1987, did you attach any trailers to this vehicle?</p> <p>301 <input type="checkbox"/> YES - Continue with items 9a, b, c, and d below <input type="checkbox"/> NO - SKIP to item 10</p> <p>a. What percent of annual mileage did this vehicle pull a trailer? If less than 50 percent, skip to item 10. 302 %</p> <p>b. How many axles were on the trailer unit which you attached most frequently to the vehicle? 303</p>	<p>Item 10 - Not applicable to this form.</p>																																																			

Continue on reverse

Item 23 — Which of the following best describes your business (or the part of your business in which the vehicle was used)? If vehicle was leased, indicate business of lessee

- 525 ☐ 01 AGRICULTURAL ACTIVITIES (including fisheries)
- 526 ☐ 02 FORESTRY OR LUMBERING ACTIVITIES
- 527 ☐ 03 CONSTRUCTION WORK — buildings, homes, roads, structures, etc.
- 528 ☐ 04 CONTRACTOR ACTIVITIES OR SPECIAL TRADES — painting, plumbing, electrical work, masonry, carpentry, etc.
- 529 ☐ 05 MANUFACTURING, REFINING, OR PROCESSING ACTIVITIES
- 530 ☐ 06 WHOLESALE TRADE
- 531 ☐ 07 RETAIL TRADE
- 532 ☐ 08 BUSINESS AND PERSONAL SERVICES — used to assist in such services as lodging operations, landscaping, repair (except plumbing, electrical work, etc. — See "Contractor Activities"), laundry, advertising, entertainment, etc.
- 533 ☐ 09 UTILITIES — Used to assist in operation or service of public utilities (telephone, gas, electric, etc.)
- 534 ☐ 10 MINING OR QUARRY ACTIVITIES (includes well drilling) — used to assist in the extraction of natural resources or in hauling to processors
- 535 ☐ 11 DAILY RENTAL — rented out, without a driver, to someone else on a daily or short-term basis
- 536 ☐ 12 ONE-WAY RENTAL
- 537 ☐ 13 GOVERNMENTAL OPERATIONS
- 538 ☐ 14 NOT IN USE — vehicle idle, wrecked, awaiting repair, etc., for more than 90 days
- 539 ☐ 15 FOR HIRE TRANSPORTATION — including small package delivery
- 540 ☐ 16 OTHER — Please describe in detail.

Item 24 — From the following list of products, materials, and equipment, indicate which item or items the vehicle carried. Write in the approximate percentage of the vehicle's annual mileage that was accounted for while carrying loads. (See instruction sheet for further explanation and examples.)

Products, equipment, materials, etc.

(1) AGRICULTURAL AND FOOD PRODUCTS

- (a) Live animals — cattle, horses, poultry, hogs, live seafood, insects, etc. 526 %
- (b) Fresh farm products — grain, crops, flowers, nursery stock, raw milk, raw tobacco, etc. 527 %
- (c) Processed foods and tobacco products — canned goods, prepared meats, frozen foods, beverages, bottled water, dairy products, cigarettes, etc. 528 %

(2) MINING PRODUCTS, UNREFINED — crude oil, coal, metal ores 529 %

(3) BUILDING MATERIALS — gravel, sand, concrete, flat glass, etc. (except cut lumber — See "Lumber.") 530 %

(4) FORESTRY, WOOD, AND PAPER PRODUCTS 531 %

- (a) Logs and forest products — except cut lumber and fabricated wood products (See below.) 532 %
- (b) Lumber and fabricated wood products — except furniture (See (7) below.) 533 %
- (c) Paper and paper products 534 %

(5) CHEMICALS, PETROLEUM, AND ALLIED PRODUCTS

- (a) Chemicals and/or drugs (including fertilizers, pesticides, cosmetics, paints, etc.) 535 %
- (b) Petroleum and petroleum products (including paving and roofing materials) 536 %
- (c) Plastics and/or rubber products 537 %

(6) METALS AND METAL PRODUCTS

- (a) Primary metal products — pipes, ingots, billets, sheets, etc. 538 %
- (b) Fabricated metal products — except machinery or transportation equipment (See below.) 539 %
- (c) Machinery — electrical or nonelectrical and electronic 540 %
- (d) Transportation equipment (including complete vehicles) and parts 541 %

(7) OTHER MANUFACTURED PRODUCTS

- (a) Furniture (wood and nonwood) and/or hardware — not involved in household moving 542 %
- (b) Glass products 543 %
- (c) Textiles and apparel — fibers, leather goods, carpets, clothing, etc. 544 %
- (d) Miscellaneous products of manufacturing — including photographic goods, watches, clocks, jewelry, and toys 545 %

(8) MISCELLANEOUS

- (a) Moving of household and office furniture — from home, offices, etc., under contract 546 %
- (b) Miscellaneous tools and/or parts for specialized use, as in a craftsman's vehicle — traveling workshop for plumbers, carpenters, road service crews, etc. 547 %
- (c) Mixed cargo, general freight (including the delivery of small packages) 548 %
- (d) Scrap, garbage, trash, septic tank waste 549 %
- (e) Industrial water 550 %
- (f) Hazardous waste 551 %

(9) OTHER (not elsewhere classified) — Please describe in detail.

Item 25 — At any time during 1987 was this vehicle (or combination) used to haul hazardous materials in quantities large enough to require a placard placed on the vehicle due to the Code of Federal Regulations, title 49, Transportation?

- 552 ☐ YES — Continue with items 25a and b
- 553 ☐ NO — SKIP to item 26

a. What types of hazardous materials were carried by this vehicle? Mark (X) all that apply.

Hazardous Materials

- 554 ☐ Flammable liquids
- 555 ☐ Combustible liquids
- 556 ☐ Corrosive liquids
- 557 ☐ Poison B solids
- 558 ☐ Poison B liquids
- 559 ☐ Flammable solids
- 560 ☐ Oxidizers
- 561 ☐ Flammable gas
- 562 ☐ Nonflammable gas
- 563 ☐ Poison A
- 564 ☐ Corrosive solids
- 565 ☐ Explosives, A or B
- 566 ☐ Blasting agents
- 567 ☐ Radioactive materials
- 568 ☐ ORM — A, B, or C
- 569 ☐ ORM E
- 570 ☐ Hazardous materials not listed above — Specify

b. Approximately what percent of this vehicle's annual mileage was accounted for by carrying these hazardous materials?

- 570 ☐ 1 Below 10%
- 571 ☐ 2 10–24%
- 572 ☐ 3 25–49%
- 573 ☐ 4 50–74%
- 574 ☐ 5 75–100%

Item 26a — Was this truck or power unit involved in any accidents during 1987?

- 580 ☐ YES — Continue with item 26b
- 581 ☐ NO — SKIP to item 27

b. If this truck or power unit was involved in any accidents during 1987, how many —

- (1) involved a fatality? 582
- (2) involved no fatalities, but involved bodily injury requiring medical treatment? 583
- (3) involved property damage of \$4,200 or more?

Item 27 — Please enter below the number of any ADDITIONAL trucks and/or trailers you own and/or operate at the same home base you listed in item 13.

- a. Pickups, small vans (includes mini-vans) 571
- b. Straight trucks 572
- c. Truck-tractors (power units) 573
- d. Trailers (semi- and/or full) 574
- e. Converter dollies 575

Item 28 — Please enter below Employer Identification (EI) Number if vehicle owned by company or Social Security Number (SSN) if vehicle owned by individual.

EI

or

SSN

Item 29 — REMARKS — Please use this space for any explanations that may be essential in understanding your reported data.

Item 30 — Person to contact regarding this report

Does this person have records on (or knowledge of) the daily activities of driver (stops, weight of individual shipments, destinations of shipments, etc.)?

1 ☐ YES

2 ☐ NO

Name				Address (Number and street)	
City				State	
				ZIP Code	
Daytime telephone number →	Area code	Number	Extension, if any	If this vehicle has a fleet number, please enter it here →	
				576	

1987 CENSUS OF TRANSPORTATION
TRUCK INVENTORY AND USE SURVEY

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Please complete this
form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47134

DUE DATE: 15 days after receipt of form

Important — Please read

All questions on this form refer to the vehicle described below and its use during 1987. If you did not own the vehicle during 1987, please continue with the questionnaire answering each item according to how you used the vehicle during the last 12 months you owned (or leased) it. If there are errors in the vehicle registration information, consult the instruction sheet before continuing with the questionnaire.

ESTIMATES ARE ACCEPTABLE.

In correspondence pertaining to this report,
please refer to this Census File Number (CFN)

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

CENSUS USE	1	2	3	4	5	6	7

REGISTRATION INFORMATION

Make of vehicle	Year of model	State	License number	Vehicle identification number (VIN)
101	102	103	104	105

Item 1 — When did you obtain this vehicle?
Enter figures only

110 Month Year

Item 2 — How did you obtain this vehicle?

- 111 ☐ Purchased it new
112 ☐ Purchased it used (or otherwise acquired)
113 ☐ Leased or rented it FROM someone else — Continue with items 2a and b
- SKIP to item 3

a. How was this vehicle leased or rented?

- 112 ☐ Without a driver
113 ☐ With a driver other than an owner-operator
114 ☐ With an owner-operator as driver

b. Was the agreement for 12 months or more?

- 113 ☐ NO
114 ☐ YES — Which of the following did the leasing agreement include?
Mark (X) all that apply
- 114 ☐ Financing only (Do not mark if installment sales contract)
115 ☐ Full maintenance
116 ☐ Maintenance on specified parts only
117 ☐ Payment on taxes
118 ☐ Obtaining licenses and permits
119 ☐ Recordkeeping for leased trucks
120 ☐ Other — Specify

Item 3 — Is this vehicle still in your possession?

- 206 ☐ YES — Are you the — 207 ☐ owner? } SKIP to item 4 and continue
208 ☐ lessee? } with questionnaire
2 ☐ NO — Please continue with this questionnaire, answering each item according to how you used the vehicle during the last 12 months you owned (or leased) it. Continue with items 3a and b.

a. When did you dispose of this vehicle?
Enter figures only

208 Month Year

b. How did you dispose of this vehicle?

- 208 ☐ Sold it (or gave it away)
2 ☐ Junked, scrapped, or otherwise destroyed
3 ☐ Returned to leasing company

Item 8 — Please indicate the body type which most closely resembles this vehicle or the trailer most often attached to it, if the power-unit is a truck-tractor.

311 PLATFORM TYPES

- 05 ☐ Low boy (gooseneck) — platform with depressed center
06 ☐ Basic platform — including flatbed, stake, etc.
04 ☐ Platform with devices permanently mounted on bed of truck — such as high lift, lift gate, hoist, etc.

VAN TYPES

- 03 ☐ Multistop or step van (including hi-cube or cutaway)
12 ☐ Basic enclosed van (dry cargo)
10 ☐ Drop frame van — including furniture van, etc.
08 ☐ Insulated, non-refrigerated van
09 ☐ Insulated, refrigerated van
11 ☐ Open top van, including fruit

SPECIALIZED USE TRUCKS

- 18 ☐ Automobile transport
13 ☐ Beverage truck
70 ☐ Concrete mixer
40 ☐ Dump truck (including belly or bottom dump)
28 ☐ Grain bodies (including low-side grain and hoppers, etc.)
30 ☐ Garbage truck
07 ☐ Livestock truck (including livestock drop frame)
27 ☐ Oilfield truck — service equipment permanently mounted on vehicle
17 ☐ Pole, logging, pulpwood, or pipe truck
22 ☐ Service truck or "craftsman's vehicle" — body equipped for mobile repair and service
60 ☐ Tank truck for dry bulk
50 ☐ Tank truck for liquids or gases
14 ☐ Utility truck — used in public utility operations (telephone line truck, etc.), body equipped for major repair (may have aerial lift, derrick, etc.)
15 ☐ Winch or crane truck — lifting equipment (including roll on, roll off) permanently mounted on vehicle
16 ☐ Wrecker — for motor vehicle towing or lifting
23 ☐ Yard tractor — cab and chassis ONLY, used to spot trailers

NOTE — If none of the above descriptions match the body type of this vehicle, or the trailer usually attached to it, mark (X) the "Other" box below and specify type.

- 80 ☐ Other — Specify

Item 4 - Did you lease or rent out this vehicle TO anyone else?

- 210 1 ☐ YES - Continue with items 4a and b
2 ☐ NO - Skip to item 5

a. How was it leased or rented out?

- 211 1 ☐ Without a driver
2 ☐ With a driver other than an owner-operator
3 ☐ With an owner-operator as driver

b. Was the agreement for 12 months or more?

- 212 2 ☐ NO
1 ☐ YES - Which of the following did the leasing agreement include? Mark (X) all that apply
- 214 ☐ Financing only (Do not mark if installment sales contract)
215 ☐ Full maintenance
216 ☐ Maintenance on specified parts only
217 ☐ Payment of taxes
218 ☐ Obtaining licenses and permits
219 ☐ Recordkeeping for leased trucks
220 ☐ Other - Specify _____

Item 5 - How would you best describe this vehicle as it was most often operated? (If the vehicle is a pickup, compact van, mini-van, or panel truck, enter body type on the "Other" line.)

- 300 1 ☐ Straight truck
2 ☐ Straight truck pulling trailer(s)
3 ☐ Truck-tractor (power unit) pulling trailer(s)
4 ☐ Other - Specify _____

Item 6 - If you indicated in item 5 that you operated this vehicle with trailer(s) attached, indicate below the kind of trailer(s) you most often pulled. Mark (X) one box only, also indicate if axles are liftable.

a. Utility and other trailers less than 20 feet used with straight truck

- 304 1 ☐ One axle on trailer
2 ☐ Two axles on trailer
3 ☐ Three axles or more on trailer

b. One full trailer *used with straight truck

- 305 1 ☐ Two axles on trailer
2 ☐ Three axles on trailer
3 ☐ Four or more axles on trailer

How many, IF ANY, of the trailer's axles are liftable? → 306 _____

c. One semi-trailer, used with truck-tractor (power unit)

- 307 1 ☐ One axle on trailer
2 ☐ Two axles on trailer
3 ☐ Three or more axles on trailer

How many, IF ANY, of the trailer's axles are liftable? → 308 _____

d. Two trailers, one semi- and one full *used with truck-tractor (power unit)

- 308 1 ☐ Three axles on two trailers
2 ☐ Four axles on two trailers
3 ☐ Five axles on two trailers
4 ☐ Six or more axles on two trailers

How many, IF ANY, of the trailer's axles are liftable? → 309 _____

e. Three trailers, one semi- and two full *used with truck-tractor (power unit)

- 309 1 ☐ Five axles on three trailers
2 ☐ Six axles on three trailers
3 ☐ Seven axles on three trailers
4 ☐ Eight or more axles on three trailers

How many, IF ANY, of the trailer's axles are liftable? → 310 _____

f. Other - Please describe in detail the number of trailers and axles on those trailers. Also give number of any liftable axles on trailer(s).

310 _____

Item 7 - If you indicated in item 6 that you operated a truck-tractor (power unit) pulling trailer(s), what percent of annual mileage did you haul -

- a. Railroad, ocean-going, or similar containers? 312 %
b. Piggyback trailers? 313 %

Item 9 - How many axles are on this vehicle and how many of them are driving axles? (Do not include axles on any trailers pulled.)

a. Total number of axles on truck or truck-tractor (power unit) (include front and rear axles.)

- 316 1 ☐ Two axles (4 tires)
2 ☐ Two axles (6 tires)
3 ☐ Three axles
4 ☐ Four or more axles

How many, IF ANY, are liftable axles? → 317 _____

b. Number of driving (powered) axles on truck or truck-tractor (power unit)

- 318 1 ☐ One driving axle
2 ☐ Two driving axles
3 ☐ Three or more driving axles

Item 10 - What type of cab does this vehicle have?

- 319 1 ☐ Cab forward of engine
2 ☐ Cab over engine
3 ☐ Conventional cab
4 ☐ Cab beside engine
5 ☐ Other

Item 11a - What is the OVERALL length of this vehicle or combination as it was most often operated? Report distance from front bumper to rear of truck or rear of the last trailer attached.

325 Feet

b. If this is a combination vehicle, what was the width of the trailer most often attached to the truck or power unit? (If more than one trailer was pulled, give the width of the widest trailer pulled.)

326 Inch

Item 12 - What is the EMPTY weight (truck minus cargo) of this vehicle or vehicle/trailer combination?

An estimate is acceptable.

328 Pounds

Item 13 - What was the AVERAGE weight (empty weight plus weight of cargo) of the vehicle or vehicle/trailer combination when carrying a typical payload during the past year?

An estimate is acceptable.

327 Pounds

Item 14a - What was the MAXIMUM GROSS weight (MGW) at which this vehicle or vehicle/trailer combination was operated?

An estimate is acceptable.

334 Pounds

b. What percent of annual mileage did this vehicle carry no payload?

329 _____

c. What percent of annual mileage did this vehicle carry payloads that -

- (1) filled its maximum cargo size? 330 _____
(2) weighed the maximum cargo weight? 331 _____

Item 15 - How many miles was this vehicle driven during 1987?

An estimate is acceptable.

400 Miles

Item 16 - How many miles has this vehicle been driven since it was manufactured?

An estimate is acceptable.

401 Miles

NOTE - If it is no longer in your possession, please estimate the total lifetime mileage at the time you last operated it.
If the odometer/speedometer is broken, please give your best estimate.
If the odometer has turned over (100,000+ miles), please enter the total figure.

Item 17 - How many miles-per-gallon (MPG) did this vehicle average during 1987? (Use tenths, if available.)

Example: 10.5 MPG should be entered as 10 5
Miles Tenths Enter miles per gallon →

402 Miles (Ten)

Item 18 - Where was the home base of this vehicle on July 1, 1987? If put into service after July 1, 1987, enter current home base.

404 City _____
405 County _____ 406 State _____ 407 ZIP Code _____

Continue on reverse

* or Semi-trailer with converter dolly

Item 19 — What percent of annual mileage was driven OUTSIDE the home base state? 408
An estimate is acceptable. (If none, enter zero.) %

Item 20 — What PERCENTAGE of this vehicle's ANNUAL MILEAGE was accounted for by the type of trips listed below? (If all trips were within one range, enter 100%. If more than one range is applicable, be sure that percentages add up to 100%.) 409 %

Trips off-the-road, little travel on public roads	410	%
Trips less than a 50 mile radius of vehicle's home base	411	%
Trips within a 50–200 mile radius of vehicle's home base	412	%
Trips beyond a 200 mile radius of vehicle's home base		
TOTAL — Should equal 100%	100%	

Item 21 — Not applicable to this form.

Item 22 — What is the horsepower rating of this vehicle's engine? 341 Horsepower

Item 23 — What is the size (displacement) of this vehicle's engine?
Enter cubic inches, cubic centimeters, or liters, whichever is applicable.

342 Cubic inches (CI)	OR	343 Cubic centimeters (CC)	OR	344 Liters (L)
-----------------------	----	----------------------------	----	----------------

Item 24 — What kind of fuel does this vehicle use?

345 1 ☐ Gasoline
2 ☐ Diesel
3 ☐ Liquefied petroleum gas (LPG)
4 ☐ Other — Specify fuel _____

Item 25 — What type of brakes does the power unit (truck or truck-tractor) have?

347 1 ☐ Hydraulic (standard)
2 ☐ Hydraulic with power assist
3 ☐ Air

Item 26 — Does this vehicle have any of the following equipment? Mark (X) all that apply.

350 <input type="checkbox"/> Aerodynamic features	
351 <input type="checkbox"/> Axle or drive shaft to maximize fuel efficiency	
352 <input type="checkbox"/> Fuel economy engine with low RPM, high torque rise, turbo-charge, etc.	
353 <input type="checkbox"/> Reflective materials (in addition to those required by law)	
354 <input type="checkbox"/> Radial tires	
355 <input type="checkbox"/> Road speed governor	
356 <input type="checkbox"/> Variable fan drives	
357 <input type="checkbox"/> Other fuel conservation features	
358 <input type="checkbox"/> Power steering	
359 <input type="checkbox"/> Air conditioning in cab	
360 <input type="checkbox"/> Engine retarder	
361 <input type="checkbox"/> Electronic vehicle management system	
362 <input type="checkbox"/> Electronic vehicle identification device (transponder), etc.	
363 <input type="checkbox"/> Trip recorders	
364 <input type="checkbox"/> Navigational systems	

Item 27 — Who performed the general maintenance and major overhauls on this vehicle? Mark (X) all that apply.

	General maintenance	Major overhauls
Yourself	370 <input type="checkbox"/>	378 <input type="checkbox"/>
Your company's own maintenance facilities	371 <input type="checkbox"/>	379 <input type="checkbox"/>
Dealership's service department	372 <input type="checkbox"/>	380 <input type="checkbox"/>
Leasing company	373 <input type="checkbox"/>	381 <input type="checkbox"/>
Independent garage or private mechanic (includes gasoline or service stations)	374 <input type="checkbox"/>	382 <input type="checkbox"/>
Component distributorship (engine, transmission, etc.)	375 <input type="checkbox"/>	383 <input type="checkbox"/>
No one	376 <input type="checkbox"/>	384 <input type="checkbox"/>
Other — Specify _____	377 <input type="checkbox"/>	385 <input type="checkbox"/>

Item 30 — From the following list of products, materials, and equipment, indicate which item or items this vehicle carried. Write in the approximate percentage of the vehicle's annual mileage that was accounted for while carrying loads. (See instruction sheet for further explanation and examples.)

Products, equipment, materials, etc.

(1) AGRICULTURAL AND FOOD PRODUCTS

(a) Live animals — cattle, horses, poultry, hogs, live seafood, insects, etc.	526	%
(b) Fresh farm products — grain, crops, flowers, nursery stock, raw milk, raw tobacco, etc.	527	%
(c) Processed foods and tobacco products — canned goods, prepared meats, frozen foods, beverages, bottled water, dairy products, cigarettes, etc.	528	%
(2) MINING PRODUCTS, UNREFINED — crude oil, coal, metal ores	529	%
(3) BUILDING MATERIALS — gravel, sand, concrete, flat glass, etc. (except cut lumber — See "Lumber.")	530	%
(4) FORESTRY, WOOD, AND PAPER PRODUCTS	531	%
(a) Logs and forest products — except cut lumber and fabricated wood products (See below.)	532	%
(b) Lumber and fabricated wood products — except furniture (See (7) below.)	533	%
(c) Paper and paper products		
(5) CHEMICALS, PETROLEUM, AND ALLIED PRODUCTS	534	%
(a) Chemicals and/or drugs (including fertilizers, pesticides, cosmetics, paints, etc.)	535	%
(b) Petroleum and petroleum products (including paving and roofing materials)	536	%
(c) Plastics and/or rubber products	537	%
(6) METALS AND METAL PRODUCTS	538	%
(a) Primary metal products — pipes, ingots, billets, sheets, etc.	539	%
(b) Fabricated metal products — except machinery or transportation equipment (See below.)	540	%
(c) Machinery — electrical or nonelectrical and electronic	541	%
(d) Transportation equipment (including complete vehicles) and parts		
(7) OTHER MANUFACTURED PRODUCTS	542	%
(a) Furniture (wood and nonwood) and/or hardware — not involved in household moving	543	%
(b) Glass products	544	%
(c) Textiles and apparel — fibers, leather goods, carpets, clothing, etc.	545	%
(d) Miscellaneous products of manufacturing — including photographic goods, watches, clocks, jewelry, and toys	546	%
(8) MISCELLANEOUS	547	%
(a) Moving of household and office furniture — from home, offices, etc., under contract	548	%
(b) Miscellaneous tools and/or parts for specialized use, as in a craftsman's vehicle — traveling workshop for plumbers, carpenters, road service crews, etc.	549	%
(c) Mixed cargo, general freight (including the delivery of small packages)	550	%
(d) Scrap, garbage, trash, septic tank waste	551	%
(e) Industrial waste		
(f) Hazardous waste		
(8) OTHER (not elsewhere classified) — Please describe in detail: _____		

Item 31 — At any time during 1987 was this vehicle (or combination) used to haul hazardous materials in quantities large enough to require a special placard placed on the vehicle due to the Code of Federal Regulations, title 49, Transportation?

552 1 ☐ YES — Continue with items 31a and b
2 ☐ NO — SKIP to item 32

a. What types of hazardous materials were carried by this vehicle? Mark (X) all that apply.

Hazardous Materials

553 <input type="checkbox"/> Flammable liquids	558 <input type="checkbox"/> Blasting agents
554 <input type="checkbox"/> Combustible liquids	559 <input type="checkbox"/> Radioactive materials
555 <input type="checkbox"/> Corrosive liquids	560 <input type="checkbox"/> ORM — A, B, or C
556 <input type="checkbox"/> Poison B solids	561 <input type="checkbox"/> ORM E
557 <input type="checkbox"/> Poison B liquids	562 <input type="checkbox"/> Hazardous materials not listed above — Specify: _____
558 <input type="checkbox"/> Flammable solids	
559 <input type="checkbox"/> Oxidizers	
560 <input type="checkbox"/> Flammable gas	
561 <input type="checkbox"/> Nonflammable gas	
562 <input type="checkbox"/> Poison A	
563 <input type="checkbox"/> Corrosive solids	
564 <input type="checkbox"/> Explosives, A or B	

b. Approximately what percent of this vehicle's annual mileage was accounted for by carrying these hazardous materials?

570 1 <input type="checkbox"/> Below 10%	4 <input type="checkbox"/> 50–74%
2 <input type="checkbox"/> 10–24%	5 <input type="checkbox"/> 75–100%
3 <input type="checkbox"/> 25–49%	

Approximating Unpublished Relative Standard Errors

The relative standard errors (RSE's) are presented for only the row and column totals for U.S. tables 3 through 14.

The relative standard errors for an individual cell in U.S. tables can be approximated by using the appropriate two-step procedure below. Actual RSE's, estimated from the sample data, are available on request.

U.S. tables 3 through 9

First, calculate the standard deviation for the U.S. table cell:

$$SD(CLT) = \frac{RCT \times RSE(RCT)}{100} \sqrt{\frac{(CLT)(UST - CLT)}{(RCT)(UST - RCT)}}$$

where:

RCT = the number of trucks in the row (or column)

CLT = the number of trucks in the cell

UST = the number of trucks in the United States

Now, the RSE in percent can be calculated as follows:

$$RSE(CLT) = \frac{100 \times SD(CLT)}{CLT}$$

U.S. tables 10 through 14

For tables 10 through 14, replace "number of trucks" by "truck miles." Although either the row or column total can be used, it is usually best to use the smallest of the two for RCT.

Example—

Suppose, in U.S. table 3, there are an estimated 10.3 thousand trucks in the cell for agricultural multistops or walk-ins, for which an approximation of the RSE in percent is needed. To approximate the RSE in percent for the agricultural multistop or walk-in cell, the following information must be extracted from the table (1) 33,834.6 thousand trucks in the U.S., (2) 3,848.6 thousand trucks and an estimated RSE of 2.4 percent for the "Agriculture" column, and (3) 213.6 thousand trucks and an estimated RSE of 5.3 percent for the "Multistop or walk-in" row. Since the

row total of 213.6 thousand is less than the column total of 3,848.6 thousand, use the row figures to approximate the RSE in percent:

$$SD(10.3) = \frac{213.6 \times 5.3}{100} \sqrt{\frac{10.3(33834.6 - 10.3)}{213.6(33834.6 - 213.6)}} = 2.5$$

$$RSE(10.3) = \frac{100 \times 2.5}{10.3} = 24.3 \text{ percent}$$

Some exceptions from this procedure will yield better approximations of the relative standard error in particular cells. Certain rows and columns in the tables are composed predominately of trucks, excluding pickups and vans ("large trucks"). Because of the sample design, one obtains a better approximation of the relative standard error of the estimate for a cell within a row (column) of "large trucks" by using the row (column) total even though the column (row) total might be smaller. When both totals consist of "large trucks," use the smaller of the row or column totals.

Columns of predominately "large trucks:"

Tables 4 and 11—Light-heavy and Heavy-heavy

Table 5—50,000 to 74,999 miles and 75,000 miles or more

Tables 7 and 13—All except Single-unit 2 axle trucks

Rows of predominately "large trucks:"

Body Type—All except Pickup, Panel truck or Van, and Multistop or Walk-in

Annual Miles—50,000 to 74,999 and 75,000 or more

Range of Operation—Long range (more than 200 miles)

Gross Weight—All from 19,501 pounds and over

Lease Characteristics—Leased with driver

Hazardous Materials Carried—All carrying hazardous materials

Miles per Gallon—Less than 5 and 5 to 6.9

Equipment Type, Braking System—Air

Truck Type and Axle Arrangement—All except Single-unit 2 axle trucks

Cab Type—All

Note: To calculate RSE's at the state level for comparable cross tabulations as presented in the U.S. Summary for tables 3 through 14, use the above formulas.

ATTACHMENT 3

HOW TO USE THE DATA DICTIONARY

The Data Dictionary describes the contents and record layout of the public-use computer tape file. The first line of each data item description, indicated by a "D" (left-justified, two characters), gives the data name, size of the data field, begin position of the field, data type if other than numeric, and implied decimal places as described below. This information (in machine-readable form) can be used to help access the data file.

Data. Alphabetic, numeric, and the special character (-). No other special characters are used. It may be a mnemonic such as "SAMTYP" or "AVGWGT", or a sequential identifier such as "TLSOUT-1". Data item names are unique throughout the entire file.

Size. Numeric. The size of a data item is given in characters. Indication of implied decimal places is provided in notes.

Begin. Numeric. Contains the location in the data record of the first character position of the data item field.

Type. Character variable indicator "CHAR" or blanks if numeric variable.

Decimal. Implied decimal places.

The next few lines contain descriptive text and any applicable notes. Categorical value codes and labels are given where needed. Comment notes marked by an (*) are provided throughout. Comments should be removed from the machine-readable version of the data dictionary before using it to help access the data file.

The line beginning with the character "U" describes the universe for that item. Lines containing categorical value codes and labels follow next and begin with the character "V". The special character (.) denotes the start of the value labels. Two examples of data item descriptions follow:

```
D OBTAIN      1      27
      HOW WAS THE VEHICLE OBTAINED?
U ALL SAMPLE UNITS
V      1 .PURCHASED IT NEW
V      2 .PURCHASED IT USED
V      3 .LEASED OR RENTED IT FROM OTHERS
```

```
D EVMS       1     132
      DOES THIS VEHICLE HAVE AN ELECTRONIC
      VEHICLE MANAGEMENT SYSTEM?
U ALL SAMPLE UNITS IN STRATA 3, 4, 5
V      1 .YES
```

Note. A number of the data fields on this tape will be "blank". This occurs when the respondent does not enter data or does not "check" a box. In many instances this is the appropriate response to the item, but in some instances this represents a failure by the respondent to answer the question.

ATTACHMENT 3

1987 TRUCK INVENTORY AND USE SURVEY DATA DICTIONARY

DATA SIZE BEGIN

D LINKID 11 1

SERIAL NUMBER. SAMPLE UNIT IDENTIFIER.

RANGE = 0000000000:0009999999.

U ALL SAMPLE UNITS

D FIPST 2 12

FIPS STATE CODE FOR THE SAMPLE UNIT.

U ALL SAMPLE UNITS

V 01 .ALABAMA
V 02 .ALASKA
V 04 .ARIZONA
V 05 .ARKANSAS
V 06 .CALIFORNIA
V 08 .COLORADO
V 09 .CONNECTICUT
V 10 .DELAWARE
V 11 .DISTRICT OF COLUMBIA
V 12 .FLORIDA
V 13 .GEORGIA
V 15 .HAWAII
V 16 .IDAHO
V 17 .ILLINOIS
V 18 .INDIANA
V 19 .IOWA
V 20 .KANSAS
V 21 .KENTUCKY
V 22 .LOUISIANA
V 23 .MAINE
V 24 .MARYLAND
V 25 .MASSACHUSETTS
V 26 .MICHIGAN
V 27 .MINNESOTA
V 28 .MISSISSIPPI
V 29 .MISSOURI
V 30 .MONTANA
V 31 .NEBRASKA
V 32 .NEVADA
V 33 .NEW HAMPSHIRE
V 34 .NEW JERSEY
V 35 .NEW MEXICO
V 36 .NEW YORK
V 37 .NORTH CAROLINA
V 38 .NORTH DAKOTA
V 39 .OHIO
V 40 .OKLAHOMA
V 41 .OREGON
V 42 .PENNSYLVANIA
V 44 .RHODE ISLAND
V 45 .SOUTH CAROLINA
V 46 .SOUTH DAKOTA
V 47 .TENNESSEE
V 48 .TEXAS
V 49 .UTAH
V 50 .VERMONT
V 51 .VIRGINIA
V 53 .WASHINGTON
V 54 .WEST VIRGINIA
V 55 .WISCONSIN
V 56 .WYOMING

D SAMTYP 1 14

DIVISION OF SAMPLE UNITS BY STRATA.

STRATUM 1 CONSISTS OF ALL PICKUP TRUCKS.

STRATUM 2 INCLUDES PANEL TRUCKS, VANS
(INCLUDING MINI-VANS), UTILITY TYPE
VEHICLES (INCLUDING JEEPS), AND STATION
WAGONS ON TRUCK CHASSIS. STRATUM 3

DATA SIZE BEGIN

CONSISTS OF ALL SINGLE-UNIT TRUCKS

(EXCEPT THOSE IN THE PICKUP AND VAN

STRATA) WITH A GROSS VEHICLE WEIGHT

(GVW) OF 26,000 POUNDS OR LESS. STRATUM 4

CONSISTS OF THE REMAINING SINGLE-UNIT

TRUCKS. STRATUM 5 CONSISTS ONLY OF TRUCK

TRACTORS.

U ALL SAMPLE UNITS

V 1 .PICKUP
V 2 .VAN
V 3 .SINGLE-UNIT LIGHT
V 4 .SINGLE-UNIT HEAVY
V 5 .TRUCK TRACTOR

D EXPFAC 6 15 2

EXPANSION FACTOR OR WEIGHTING FACTOR BY
STATE BY STRATUM. RANGE 0000.00:9999.99.

U ALL SAMPLE UNITS

D MAKE 2 21

VEHICLE MAKE RECODE.

U ALL SAMPLE UNITS

V 01 .AUTOCAR
V 02 .CHEVROLET
V 03 .CHRYSLER (DODGE/PLYMOUTH)
V 04 .DATSUN/NISSAN
V 05 .DIAMOND-REO, REO
V 06 .FORD
V 07 .GMC
V 08 .IVECO
V 09 .INTERNATIONAL HARVESTER
V 10 .ISUZU
V 11 .JEEP
V 12 .KENWORTH
V 13 .MACK
V 14 .MAZDA
V 15 .MERCEDES BENZ
V 16 .PETERBILT
V 17 .TOYOTA
V 18 .VOLKSWAGEN
V 19 .WHITE
V 20 .WHITE FREIGHTLINER
V 21 .WESTERN STAR
V 22 .VOLVO
V 27 .OTHER DOMESTIC
V 28 .OTHER FOREIGN
V 29 .UNKNOWN

D MDLYR 2 23

MODEL YEAR RECODE OF SPECIFIC MODEL YEAR
RANGES.

U ALL SAMPLE UNITS

V 01 .1988, 1987
V 02 .1986
V 03 .1985
V 04 .1984
V 05 .1983
V 06 .1982
V 07 .1981
V 08 .1980
V 09 .1979
V 10 .1978
V 11 .pre-1978

DATA SIZE BEGIN

D WHNACQ 2 25

ACQUISITION YEAR.

U ALL SAMPLE UNITS

D OBTAIN 1 27

HOW WAS THE VEHICLE OBTAINED?

U ALL SAMPLE UNITS

V 1 .PURCHASED IT NEW

V 2 .PURCHASED IT USED

V 3 .LEASED OR RENTED IT FROM OTHERS

D HOWLEA 1 28

IF LEASED, HOW WAS THE VEHICLE LEASED
FROM OTHERS?

U SAMPLE UNITS WITH VALUES OF "3" FOR OBTAIN

V 1 .WITHOUT A DRIVER

V 2 .WITH A DRIVER OTHER THAN AN

V OWNER-OPERATOR

V 3 .WITH AN OWNER-OPERATOR AS DRIVER

D HWLONG 1 29

IF LEASED, WAS THE AGREEMENT
FOR 12 MONTHS OR MORE?

U SAMPLE UNITS WITH VALUES OF "3" FOR OBTAIN

V 1 .YES

V 2 .NO

D TYPLEA-1 1 30

DID THE LEASING AGREEMENT INCLUDE
FINANCING ONLY?

U SAMPLE UNITS WITH VALUES OF "1" FOR HWLONG

V 1 .YES

D TYPLEA-2 1 31

DID THE LEASING AGREEMENT INCLUDE FULL
MAINTENANCE?

U SAMPLE UNITS WITH VALUES OF "1" FOR HWLONG

V 1 .YES

D TYPLEA-3 1 32

DID THE LEASING AGREEMENT INCLUDE
MAINTENANCE ON SPECIFIED PARTS ONLY?

U SAMPLE UNITS WITH VALUES OF "1" FOR HWLONG

V 1 .YES

D TYPLEA-4 1 33

DID THE LEASING AGREEMENT INCLUDE
PAYMENT ON TAXES?

U SAMPLE UNITS WITH VALUES OF "1" FOR HWLONG

V 1 .YES

D TYPLEA-5 1 34

DID THE LEASING AGREEMENT INCLUDE
OBTAINING LICENSES AND PERMITS?

U SAMPLE UNITS WITH VALUES OF "1" FOR HWLONG

V 1 .YES

D TYPLEA-6 1 35

DID THE LEASING AGREEMENT INCLUDE
RECORDKEEPING FOR LEASED TRUCKS?

U SAMPLE UNITS WITH VALUES OF "1" FOR HWLONG

V 1 .YES

D TYPLEA-7 1 36

DID THE LEASING AGREEMENT INCLUDE ANY
OTHER PROVISIONS?

U SAMPLE UNITS WITH

V 1 .YES

D STLOWN 1 37

IS THIS VEHICLE STILL IN YOUR POSSESSION?

U ALL SAMPLE UNITS

V 1 .YES

V 2 .NO

DATA SIZE BEGIN

D OWNLES 1 38

ARE YOU THE OWNER OR THE LESSEE?

U SAMPLE UNITS WITH VALUES OF "1" FOR STLOWN

V 1 .OWNER

V 2 .LESSEE

D DISPOZ 4 39

WHEN DID YOU DISPOSE OF THE VEHICLE?

DISPOSAL MONTH-2 DIGITS. DISPOSAL YEAR-
2 DIGITS.

U SAMPLE UNITS WITH VALUES OF "2" FOR STLOWN

D HOWRID 1 43

HOW DID YOU DISPOSE OF THE VEHICLE?

U SAMPLE UNITS WITH VALUES OF "2" FOR STLOWN

V 1 .SOLD IT OR GAVE IT AWAY

V 2 .JUNKED, SCRAPPED, OR OTHERWISE

V DESTROYED

V 3 .RETURNED IT TO LEASING COMPANY

D LEAOUT 1 44

DID YOU LEASE OR RENT THE VEHICLE TO
ANYONE ELSE?

U ALL SAMPLE UNITS

V 1 .YES

V 2 .NO

D HLSOUT 1 45

HOW WAS THE VEHICLE LEASED OR RENTED OUT?

U SAMPLE UNITS WITH A VALUE OF "1" FOR LEAOUT

V 1 .WITHOUT A DRIVER

V 2 .WITH A DRIVER OTHER THAN AN

V OWNER-OPERATOR

V 3 .WITH AN OWNER-OPERATOR AS DRIVER

D LLEOUT 1 46

IF THE VEHICLE WAS LEASED TO OTHERS, WAS
AGREEMENT FOR 12 MONTHS OR MORE?

U SAMPLE UNITS WITH A VALUE OF "1" FOR LEAOUT

V 1 .YES

V 2 .NO

D TLSOUT-1 1 47

IF THE VEHICLE WAS LEASED TO OTHERS FOR
12 MONTHS OR MORE, DID THE LEASING
AGREEMENT INCLUDE FINANCING ONLY? (DO NOT
MARK IF INSTALLMENT SALES CONTRACT).

U SAMPLE UNITS WITH A VALUE OF "1" FOR LLEOUT

V 1 .YES

D TLSOUT-2 1 48

IF THE VEHICLE WAS LEASED TO OTHERS FOR
12 MONTHS OR MORE, DID THE LEASING
AGREEMENT INCLUDE FULL MAINTENANCE?

U SAMPLE UNITS WITH A VALUE OF "1" FOR LLEOUT

V 1 .YES

D TLSOUT-3 1 49

IF THE VEHICLE WAS LEASED TO OTHERS FOR
12 MONTHS OR MORE, DID THE LEASING
AGREEMENT INCLUDE MAINTENANCE ON
SPECIFIED PARTS ONLY?

U SAMPLE UNITS WITH A VALUE OF "1" FOR LLEOUT

V 1 .YES

D TLSOUT-4 1 50

IF THE VEHICLE WAS LEASED TO OTHERS FOR
12 MONTHS OR MORE, DID THE LEASING
AGREEMENT INCLUDE PAYMENT OF TAXES?

U SAMPLE UNITS WITH A VALUE OF "1" FOR LLEOUT

V 1 .YES

DATA SIZE BEGIN

D TLSOUT-5 1 51
IF THE VEHICLE WAS LEASED TO OTHERS FOR
12 MONTHS OR MORE, DID THE LEASING
AGREEMENT INCLUDE PROVISIONS FOR
OBTAINING LICENSES AND PERMITS?
U SAMPLE UNITS WITH VALUES OF "1" FOR LLEOUT
V 1 .YES

D TLSOUT-6 1 52
IF THE VEHICLE WAS LEASED TO OTHERS FOR
12 MONTHS OR MORE, DID THE LEASING
AGREEMENT INCLUDE RECORDKEEPING FOR
LEASED TRUCKS?
U SAMPLE UNITS WITH VALUES OF "1" FOR LLEOUT
V 1 .YES

D TLSOUT-7 1 53
IF THE VEHICLE WAS LEASED TO OTHERS FOR
12 MONTHS OR MORE, DID THE LEASING
AGREEMENT INCLUDE ANY OTHER PROVISIONS?
(OTHER THAN THE ABOVE-MENTIONED ITEMS).
U SAMPLE UNITS WITH VALUES OF "1" FOR LLEOUT
V 1 .YES

D BODYTP 2 54
INDICATE THE BODY TYPE WHICH MOST CLOSELY
RESEMBLES THIS VEHICLE OR THE TRAILER
MOST OFTEN ATTACHED TO IT, IF THE
POWER-UNIT IS A TRUCK TRACTOR.
U ALL SAMPLE UNITS
V 01 .PICKUP
V 02 .VAN OTHER THAN MINI-VAN
V 03 .MULTI-STOP OR STEP VAN
(INCLUDING HI-CUBE OR CUTAWAY)
V 04 .PLATFORM WITH DEVICES
PERMANENTLY MOUNTED ON BED OF
TRUCK (SUCH AS HIGH LIFT, LIFT
GATE, HOIST, ETC.)
V 05 .LOW BOY (GOOSENECK) - PLATFORM
WITH DEPRESSED CENTER
V 06 .BASIC - INCLUDING FLATBED,
STAKE, ETC.
V 07 .LIVESTOCK TRUCK (INCLUDING
LIVESTOCK DROP FRAME)
V 08 .INSULATED, NON-REFRIGERATED VAN
V 09 .INSULATED REFRIGERATED VAN
V 10 .DROP FRAME VAN - INCLUDING
FURNITURE VAN, ETC.
V 11 .OPEN TOP VAN, INCLUDING FRUIT
V 12 .BASIC ENCLOSED VAN (DRY CARGO)
V 13 .BEVERAGE TRUCK
V 14 .UTILITY TRUCK - USED IN PUBLIC
UTILITY OPERATIONS (TELEPHONE
LINE TRUCK, ETC.), BODY EQUIPPED
FOR MAJOR REPAIR (MAY HAVE
AERIAL LIFT, DERRICK, ETC.)
V 15 .WINCH OR CRANE TRUCK - LIFTING
EQUIPMENT (INCLUDING ROLL-ON,
ROLL-OFF) PERMANENTLY MOUNTED ON
VEHICLE
V 16 .WRECKER - FOR MOTOR VEHICLE
TOWING OR LIFTING
V 17 .POLE, LOGGING, PULPWOOD OR PIPE
TRUCK
V 18 .AUTOMOBILE TRANSPORT
V 22 .SERVICE TRUCK OR "CRAFTSMAN'S
VEHICLE" - BODY EQUIPPED FOR
MOBILE REPAIR AND SERVICE
V 23 .YARD TRACTOR - CAB AND CHASSIS
ONLY, USED TO SPOT TRAILERS
V 24 .UTILITY (FOR EXAMPLE: BRONCO,
BLAZER, JEEP, CJ-5, 7, ETC.)
V 25 .STATION WAGON BUILT ON TRUCK
CHASSIS (FOR EXAMPLE: SUBURBAN,

DATA SIZE BEGIN

V WAGONEER, ETC.)
V 26 .MINI-VAN
V 27 .OILFIELD TRUCK - SERVICE EQUIP-
MENT PERMANENTLY MOUNTED ON
VEHICLE
V 29 .GRAIN BODIES (INCLUDING LOW-SIDE
GRAIN AND HOPPERS, ETC.)
V 30 .GARBAGE TRUCK
V 40 .DUMP TRUCK (INCLUDING BELLY OR
BOTTOM DUMP)
V 50 .TANK TRUCK FOR LIQUIDS OR GASES
V 60 .TANK TRUCK FOR DRY BULK
V 80 .OTHER (SPECIFIED BY RESPONDENT)

D LENGTH 3 56
VEHICLE LENGTH IN FEET. RANGE=010:115.
U ALL SAMPLE UNITS

D EMPWGT 5 59
EMPTY WEIGHT OF THE VEHICLE IN POUNDS.
RANGE = 1500:40000.
U SAMPLE UNITS IN STRATA 3, 4, AND 5

D AVGWGT 6 64
AVERAGE WEIGHT (EMPTY WEIGHT PLUS WEIGHT
OF CARGO) OF VEHICLE OR VEHICLE/TRAILER
COMBINATION WHEN CARRYING A TYPICAL
PAYLOAD DURING THE PAST YEAR.
RANGE = 1500:130000 POUNDS.
U ALL SAMPLE UNITS

D MAXWGT 6 70
MAXIMUM GROSS WEIGHT AT WHICH THE VEHICLE
OR VEHICLE/TRAILER COMBINATION WAS
OPERATED
RANGE = 1500:200000 POUNDS
U SAMPLE UNITS IN STRATA 3, 4, AND 5

D PCARSZ 3 76
WHAT PERCENT OF ANNUAL MILEAGE DID THE
VEHICLE CARRY PAYLOADS THAT FILLED ITS
MAXIMUM CARGO SIZE? RANGE = 0:100.
U ALL SAMPLE UNITS

D PCARWT 3 79
WHAT PERCENT OF ANNUAL MILES DID THE
VEHICLE CARRY PAYLOADS THAT WEIGHED
THE MAXIMUM CARGO WEIGHT? RANGE = 0:100.
U ALL SAMPLE UNITS

D NAXLES 1 82
TOTAL NUMBER OF AXLES ON TRUCK OR
TRUCK TRACTOR (POWER-UNIT). INCLUDE
FRONT AND REAR AXLES.

U ALL SAMPLE UNITS
V 1 .TWO AXLES (FOUR TIRES)
V 2 .TWO AXLES (SIX TIRES)
V 3 .THREE AXLES
V 4 .FOUR OR MORE AXLES

D LIFTAX 1 83
OF THE TOTAL NUMBER OF AXLES ON THE
TRUCK OR TRUCK TRACTOR, HOW MANY OF
THEM ARE LIFTABLE AXLES?
U SAMPLE UNITS IN STRATA 3, 4, AND 5

D DRAXLS 1 84
NUMBER OF DRIVING (POWERED) AXLES ON
TRUCK OR TRUCK TRACTOR (POWER-UNIT).
U ALL SAMPLE UNITS
V 1 .ONE DRIVING AXLE
V 2 .TWO DRIVING AXLES
V 3 .THREE OR MORE DRIVING AXLES

DATA SIZE BEGIN

D VEHTYP 1 85
VEHICLE TYPE OF THE TRUCK AS IT WAS
MOST OFTEN OPERATED.

U ALL SAMPLE UNITS

V 1 .STRAIGHT TRUCK
V 2 .STRAIGHT TRUCK PULLING
V TRAILERS
V 3 .TRUCK TRACTOR (POWER-UNIT)
V PULLING TRAILER(S)
V 4 .OTHER

D TRLATT 1 86
DURING 1987 DID YOU ATTACH ANY
TRAILERS TO THIS VEHICLE?

U SAMPLE UNITS IN STRATA 1 AND 2

V 1 .YES
V 2 .NO

D PCTPUL 3 87
WHAT PERCENT OF ANNUAL MILEAGE DID
THE VEHICLE PULL A TRAILER?

U SAMPLE UNITS IN STRATA 1 AND 2 WITH VALUES
OF "1" FOR TRLATT

D AXONTU 1 90
HOW MANY AXLES WERE ON THE TRAILER UNIT
YOU MOST FREQUENTLY ATTACHED TO THE
VEHICLE? RANGE = 0:8.

U SAMPLE UNITS IN STRATA 1 AND 2 WITH VALUES
OF "1" FOR TRLATT AND A VALUE > 050 FOR
PCTPUL.

D LOADWT 5 91
WHAT WAS THE LOADED WEIGHT OF THE TRAILER
MOST OFTEN ATTACHED TO THE VEHICLE? (AN
ESTIMATE IS ACCEPTABLE). RANGE = 100:30000
POUNDS.

U SAMPLE UNITS IN STRATA 1 AND 2 WITH VALUES
OF "1" FOR TRLATT AND A VALUE > 050 FOR
PCTPUL.

D LAXTRL 1 96
IF THE VEHICLE WAS OPERATED WITH A
TRAILER, HOW MANY, IF ANY, OF THE
TRAILER'S AXLES ARE LIFTABLE? RANGE = 0:6

U SAMPLE UNITS IN STRATA 3, 4, AND 5.

D WTHTRL 3 97
WHAT WAS THE WIDTH OF THE TRAILER
MOST OFTEN ATTACHED TO THE VEHICLE?
RANGE = 78:102 INCHES.

U SAMPLE UNITS IN STRATA 1 AND 2 WITH VALUES
OF "1" FOR TRLATT AND A VALUE > 050 FOR
PCTPUL. SAMPLE UNITS IN STRATA 3, 4, AND 5
WITH VALUE OF "2" OR "3" FOR VEHTYP

* THE FOLLOWING SIX VARIABLES (SINGLE, DOUBLE,
* TRIPLE, STTRFT, UTLTRL, OTHTRL) ARE
* CATEGORIES OF POSSIBLE ANSWERS TO ITEM 6,
* FORM 9502: "IF INDICATED THAT THE VEHICLE
* OPERATED WITH TRAILER(S) ATTACHED, INDICATE
* THE KIND OF TRAILER YOU MOST OFTEN PULLED."

D SINGLE 1 100
ONE SEMI-TRAILER USED WITH TRUCK TRACTOR
(POWER-UNIT).

U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5

V 1 .ONE AXLE ON TRAILER
V 2 .TWO AXLES ON TRAILER
V 3 .THREE OR MORE AXLES ON TRAILER

D DOUBLE 1 101
TWO TRAILERS, ONE SEMI- AND ONE FULL OR
SEMI-TRAILER WITH CONVERTER DOLLY, USED

DATA SIZE BEGIN

WITH TRUCK TRACTOR (POWER-UNIT).

U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5

V 1 .THREE AXLES ON TWO TRAILERS
V 2 .FOUR AXLES ON TWO TRAILERS
V 3 .FIVE AXLES ON TWO TRAILERS
V 4 .SIX OR MORE AXLES ON TWO
V TRAILERS

D TRIPLE 1 102
THREE TRAILERS, ONE SEMI- AND TWO FULL OR
SEMI-TRAILERS WITH CONVERTER DOLLY USED
WITH TRUCK TRACTOR (POWER UNIT).

U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5

V 1 .FIVE AXLES ON THREE TRAILERS
V 2 .SIX AXLES ON THREE TRAILERS
V 3 .SEVEN AXLES ON THREE TRAILERS
V 4 .EIGHT OR MORE AXLES ON THREE
V TRAILERS

D STTRFT 1 103
ONE FULL TRAILER OR SEMI-TRAILER WITH
CONVERTER DOLLY USED WITH A STRAIGHT
TRUCK.

U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5

V 1 .TWO AXLES ON TRAILER
V 2 .THREE AXLES ON TRAILER
V 3 .FOUR OR MORE AXLES ON TRAILER

D UTLTRL 1 104
UTILITY AND OTHER TRAILERS LESS THAN 20
FEET USED WITH STRAIGHT TRUCK.

U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5

V 1 .ONE AXLE ON TRAILER
V 2 .TWO AXLES ON TRAILER
V 3 .THREE AXLES OR MORE ON TRAILER

D OTHTRL 1 105
OTHER TYPE OF TRAILER NOT SPECIFIED

U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5

V 1 .YES

D PCNTNR 3 106
IF YOU OPERATED A TRUCK TRACTOR
(POWER-UNIT) PULLING TRAILER(S),
WHAT PERCENT OF ANNUAL MILEAGE DID
YOU HAUL RAILROAD, OCEAN-GOING, OR
SIMILAR CONTAINERS? RANGE = 1:100.

U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5

D PPGIGY 3 109
IF YOU OPERATED A TRUCK TRACTOR
(POWER-UNIT) PULLING TRAILER(S),
WHAT PERCENT OF ANNUAL MILEAGE DID
YOU HAUL PIGGYBACK TRAILERS?
RANGE = 1:100.

U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5

D CABTYP 1 112
WHAT TYPE OF CAB DOES THIS VEHICLE
HAVE?

U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5

V 1 .CAB FORWARD OF ENGINE
V 2 .CAB OVER ENGINE
V 3 .CONVENTIONAL CAB
V 4 .CAB BESIDE ENGINE
V 5 .OTHER

D ENGTYP 1 113
WHAT KIND OF FUEL DOES THIS VEHICLE USE?

U ALL SAMPLE UNITS

V 1 .GASOLINE
V 2 .DIESEL
V 3 .LIQUIFIED PETROLEUM GAS
V 4 .OTHER

DATA SIZE BEGIN

D ENGSZE 1 114
ENGINE SIZE CODE/NUMBER OF CYLINDERS.
U ALL SAMPLE UNITS
V 1 .FOUR (4) CYLINDERS
V 2 .SIX (6) CYLINDERS
V 3 .EIGHT (8) CYLINDERS
V 4 .OTHER

D HRSPWR 2 115
WHAT IS THE HORSEPOWER RATING OF THE
VEHICLE'S ENGINE?
U ALL SAMPLE UNITS
* THE FOLLOWING VALUES FOR HORSEPOWER APPLY
* WHEN ENGTYP VALUES ARE EQUAL TO
* 1 (GASOLINE), 3 (LIQUIFIED PETROLEUM GAS),
* 4 (OTHER), OR BLANK.
V BLANK OR 0 .BLANK
V 01 .(1-99)
V 02 .(100-149)
V 03 .(150-199)
V 04 .(200-249)
V 05 .(250-350)
V 06 .(351-500)
V 07 .(501 AND OVER)
* THE FOLLOWING VALUES FOR HORSEPOWER APPLY
* WHEN ENGTYP VALUES ARE EQUAL TO 2 (DIESEL).
V BLANK OR 0 .BLANK
V 08 .(1-100)
V 09 .(101-249)
V 10 .(250-300)
V 11 .(301-349)
V 12 .(350-400)
V 13 .(401-449)
V 14 .(450-600)
V 15 .(601 AND OVER)

D CID 2 117
WHAT IS THE SIZE (DISPLACEMENT) OF
THIS VEHICLE'S ENGINE (IN CUBIC INCHES)?
U ALL SAMPLE UNITS
* THE FOLLOWING VALUES FOR CID APPLY WHEN ENG-
* TYP VALUES ARE EQUAL TO 1 (GASOLINE),
* 3 (LPG), 4 (OTHER), OR BLANK.
V BLANK OR 0 .BLANK
V 01 .(1-115)
V 02 .(116-133)
V 03 .(134-169)
V 04 .(170-199)
V 05 .(200-240)
V 06 .(241-280)
V 07 .(281-299)
V 08 .(300-340)
V 09 .(341-360)
V 10 .(361-399)
V 11 .(400-480)
V 12 .(481 AND OVER)
* THE FOLLOWING VALUES FOR CID APPLY WHEN
* ENGTYP VALUES FOR CID ARE EQUAL TO
* 2 (DIESEL).
V BLANK OR 0 .BLANK
V 13 .(1-300)
V 14 .(301-399)
V 15 .(400-499)
V 16 .(500-599)
V 17 .(600-699)
V 18 .(700-799)
V 19 .(800-899)
V 20 .(900-1000)
V 21 .(1001 AND OVER)

D BRAKES 1 119
WHAT TYPE OF BRAKES DOES THE POWER UNIT
(TRUCK OR TRUCK TRACTOR) HAVE?

DATA SIZE BEGIN

U ALL SAMPLE UNITS IN STRATUM 3, 4, AND 5
V 1 .HYDRAULIC (STANDARD)
V 2 .HYDRAULIC WITH POWER ASSIST
V 3 .AIR

* VEHICLE EQUIPMENT

D AERODN 1 120
DOES THE VEHICLE HAVE AERODYNAMIC
FEATURES?
U ALL SAMPLE UNITS IN STRATUM 3, 4, AND 5
V 1 .YES

D AXLRAT 1 121
DOES THE VEHICLE HAVE AXLE OR DRIVE
RATIO TO MAXIMIZE FUEL EFFICIENCY?
U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5
V 1 .YES

D ECOENG 1 122
DOES THE VEHICLE HAVE A FUEL ECONOMY
ENGINE WITH LOW RPM, HIGH TORQUE RISE,
TURBO-CHARGE, ETC.?
U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5
V 1 .YES

D REFLCT 1 123
DOES THE VEHICLE HAVE REFLECTIVE
MATERIALS (IN ADDITION TO THOSE
REQUIRED BY LAW)?
U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5
V 1 .YES

D RADIAL 1 124
DOES THIS VEHICLE HAVE RADIAL TIRES?
U ALL SAMPLE UNITS
V 1 .YES

D GOVNOR 1 125
DOES THIS VEHICLE HAVE A ROAD SPEED
GOVERNOR?
U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5
V 1 .YES

D VARFAN 1 126
DOES THIS VEHICLE HAVE VARIABLE
FAN DRIVES?
U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5
V 1 .YES

D OTHFUL 1 127
DOES THIS VEHICLE HAVE OTHER FUEL
CONSERVATION FEATURES?
U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5
V 1 .YES

D PWRSTR 1 128
DOES THIS VEHICLE HAVE POWER STEERING?
U ALL SAMPLE UNITS
V 1 .YES

D AIRCON 1 129
DOES THIS VEHICLE HAVE AIR CONDITIONING?
U ALL SAMPLE UNITS
V 1 .YES

D ENGRET 1 130
DOES THIS VEHICLE HAVE AN ENGINE
RETARDER?
U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5
V 1 .YES

DATA SIZE BEGIN

D EVMS 1 131
DOES THIS VEHICLE HAVE AN ELECTRONIC
VEHICLE MANAGEMENT SYSTEM?
U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5
V 1 .YES

D EVIS 1 132
DOES THE VEHICLE HAVE AN ELECTRONIC
VEHICLE IDENTIFICATION DEVICE
(TRANSPONDER), ETC.?
U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5
V 1 .YES

D RECRDR 1 133
DOES THE VEHICLE HAVE TRIP RECORDERS?
U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5
V 1 .YES

D NAVSYS 1 134
DOES THE VEHICLE HAVE NAVIGATIONAL
SYSTEMS?
U ALL SAMPLE UNITS IN STRATA 3, 4, AND 5
V 1 .YES

D FRNWH 1 135
DOES THE VEHICLE HAVE FRONT-WHEEL DRIVE?
U ALL SAMPLE UNITS IN STRATA 1 AND 2
V 1 .YES

* GENERAL MAINTENANCE

D GMSELF 1 136
DID YOU PERFORM THE GENERAL MAINTENANCE
ON THIS VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D GMCOMP 1 137
DID YOUR COMPANY'S OWN MAINTENANCE
FACILITIES PERFORM THE GENERAL
MAINTENANCE ON THIS VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D GMDEAL 1 138
DID A DEALERSHIP'S SERVICE DEPARTMENT
PERFORM THE GENERAL MAINTENANCE ON THIS
VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D GMLEAS 1 139
DID A LEASING COMPANY PERFORM THE
GENERAL MAINTENANCE ON THIS VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D GMGARG 1 140
DID AN INDEPENDENT GARAGE OR PRIVATE
MECHANIC (INCLUDES GASOLINE OR SERVICE
STATIONS) PERFORM THE GENERAL
MAINTENANCE ON THIS VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D GMDIST 1 141
DID A COMPONENT DISTRIBUTORSHIP (ENGINE,
TRANSMISSION, ETC.) PERFORM THE GENERAL
MAINTENANCE ON THIS VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

DATA SIZE BEGIN

D GMNONE 1 142
DID NO ONE PERFORM THE GENERAL
MAINTENANCE ON THIS VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D GMOTHR 1 143
DID SOMEONE OTHER THAN THOSE SPECIFICALLY
MENTIONED PREVIOUSLY PERFORM THE GENERAL
MAINTENANCE ON THIS VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

* MAJOR OVERHAULS

D OVSELF 1 144
DID YOU PERFORM THE MAJOR OVERHAULS ON
THIS VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D OVCOMP 1 145
DID YOUR COMPANY'S OWN MAINTENANCE
FACILITIES PERFORM THE MAJOR OVERHAULS
ON THIS VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D OVDEAL 1 146
DID A DEALERSHIP'S SERVICE DEPARTMENT
PERFORM THE MAJOR OVERHAULS ON THIS
VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D OVLEAS 1 147
DID A LEASING COMPANY PERFORM THE MAJOR
OVERHAULS ON THIS VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D OVGARG 1 148
DID AN INDEPENDENT GARAGE OR PRIVATE
MECHANIC (INCLUDING GASOLINE OR SERVICE
STATIONS) PERFORM THE MAJOR OVERHAULS ON
THIS VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D OVDIST 1 149
DID A COMPONENT DISTRIBUTORSHIP (ENGINE,
TRANSMISSION, ETC.) PERFORM THE MAJOR
OVERHAULS ON THIS VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D OVNONE 1 150
DID NO ONE PERFORM THE MAJOR OVERHAULS
ON THIS VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D OVOTHR 1 151
DID SOMEONE OTHER THAN THOSE SPECIFICALLY
MENTIONED ABOVE PERFORM THE MAJOR
OVERHAULS ON THE VEHICLE?
U ALL SAMPLE UNITS
V 1 .YES

D ANN MIL 6 152
HOW MANY MILES WAS THIS VEHICLE DRIVEN
DURING 1987? RANGE = 0:250000.
U ALL SAMPLE UNITS

DATA SIZE BEGIN

D LTMIL 7 158
HOW MANY MILES HAS THIS VEHICLE BEEN
DRIVEN SINCE IT WAS MANUFACTURED?
NOTES: IF THE VEHICLE IS NO LONGER IN
YOUR POSSESSION, ESTIMATE THE TOTAL
LIFETIME MILEAGE AT THE TIME YOU LAST
OPERATED IT. IF THE ODOMETER/SPEEDOMETER
IS BROKEN, GIVE YOUR BEST ESTIMATE. IF
THE ODOMETER HAS TURNED OVER (100,000+
MILES), PLEASE ENTER THE TOTAL READING.
RANGE = 0:2000000.
U ALL SAMPLE UNITS

D MPG 3 165 1
HOW MANY MILES-PER-GALLON (MPG) DID THIS
VEHICLE AVERAGE DURING 1987? (USE TENTHS,
IF AVAILABLE). RANGE = 0.0:40.0 OR BLANK
U ALL SAMPLE UNITS

D BASTAT 2 168 CHAR
WHERE WAS THE HOME BASE OF THIS VEHICLE
ON JULY 1, 1987? IF PUT INTO SERVICE
AFTER JULY 1, 1987, ENTER THE CURRENT
HOME BASE.
U ALL SAMPLE UNITS

D MSAIO 1 170
MSA INDICATOR. IS THE HOME BASE OF THE
VEHICLE LOCATED WITHIN A METROPOLITAN
STATISTICAL AREA? NOTE: IF THE
HOME BASE WAS NOT REPORTED THEN THE
REGISTRATION MAILING ADDRESS WAS USED
TO CODE MSAIO.
U ALL SAMPLE UNITS
V ZERO .NO
V 1 .YES

D POBAST 3 171
WHAT PERCENT OF ANNUAL MILEAGE WAS DRIVEN
OUTSIDE THE HOME BASE STATE?
RANGE = 0:100.
U ALL SAMPLE UNITS

D POFFRD 3 174
WHAT PERCENT OF THIS VEHICLE'S ANNUAL
MILEAGE WAS ACCOUNTED FOR BY TRIPS
OFF-THE-ROAD (LITTLE TRAVEL ON PUBLIC
ROADS)? RANGE = 0:100.
U ALL SAMPLE UNITS

D PLOCAL 3 177
WHAT PERCENT OF THIS VEHICLE'S ANNUAL
MILEAGE WAS ACCOUNTED FOR BY TRIPS LESS
THAN A 50 MILE RADIUS OF THE VEHICLE'S
HOME BASE? RANGE = 0:100.
U ALL SAMPLE UNITS

D PSHORT 3 180
WHAT PERCENT OF THIS VEHICLE'S ANNUAL
MILEAGE WAS ACCOUNTED FOR BY TRIPS
WITHIN A 50-200 MILE RADIUS OF THE
VEHICLE'S HOME BASE? RANGE = 0:100.
U ALL SAMPLE UNITS

D PLONG 3 183
WHAT PERCENT OF THIS VEHICLE'S ANNUAL
MILEAGE WAS ACCOUNTED FOR BY TRIPS
BEYOND A 200 MILE RADIUS OF A VEHICLE'S
HOME BASE? RANGE = 0:100.
U ALL SAMPLE UNITS
* THE SUM OF POFFRD, PLOCAL, PSHORT, PLONG
* SHOULD BE 100%.

DATA SIZE BEGIN

D OPCLAS 1 186
WHICH OF THE FOLLOWING BEST DESCRIBES
THE PRIMARY WAY THE VEHICLE WAS
OPERATED?
U ALL SAMPLE UNITS
V 1 .BUSINESS USE - OPERATED BY
AND FOR PRIVATE BUSINESSES
(INCLUDING SELF-EMPLOYERS)
OR A COMPANY; USED IN RELATED
ACTIVITIES OF THAT BUSINESS
(INCLUDING TRANSPORTATION OF
EMPLOYEES).
V 2 .PERSONAL TRANSPORTATION -
OPERATED AS A PERSONAL-USE
VEHICLE IN PLACE OF AN AUTO-
MOBILE FOR PLEASURE DRIVING,
TRAVEL TO WORK, ETC. (NO
BUSINESS USE).
V 3 .FOR HIRE
V 4 .DAILY RENTAL (NOT A MOTOR
CARRIER)
V 5 .MIXED

D PPTRAN 3 187
IF 'MIXED' WAS CHECKED FOR OPCLAS,
WHAT PERCENT WAS PERSONAL USE?
RANGE = 0:100.
U ALL SAMPLE UNITS

D PBUS 3 190
IF 'MIXED' WAS CHECKED FOR OPCLAS,
WHAT PERCENT WAS BUSINESS USE?
RANGE = 0:100.
U ALL SAMPLE UNITS

D PFORHR 3 193
IF 'MIXED' WAS CHECKED FOR OPCLAS,
WHAT PERCENT WAS FOR HIRE USE (INCLUDES
INTERCORPORATE HAULING AND TRIP LEASING,
ETC.)? RANGE = 0:100.
U ALL SAMPLE UNITS

D ICCREG 1 196
WAS THIS VEHICLE UNDER ICC AUTHORITY?
U SAMPLE UNITS WITH A VALUE OF "3"
FOR OPCLAS, OR "5" FOR OPCLAS WITH A PERCENT
IN PFORHR.
V 1 .YES
V 2 .NO
V BLANK .NOT REPORTED

D OPTYP 1 197
THIS VALUE INDICATES IN WHAT CAPACITY
THE VEHICLE WAS MOST OFTEN OPERATED.
U SAMPLE UNITS WITH A VALUE OF "3"
FOR OPCLAS, OR "5" FOR OPCLAS WITH A PERCENT
IN PFORHR
V 1 .MOTOR CARRIER
V 2 .INDEPENDENT
V 3 .LEASED

D PMOCAR 3 198
IF THE VEHICLE WAS FOR HIRE, WHAT PERCENT
OF ANNUAL MILEAGE WAS IT OPERATED AS A
MOTOR CARRIER? RANGE = 0:100.
U SAMPLE UNITS WITH A VALUE OF "3"
FOR OPCLAS, OR "5" FOR OPCLAS WITH A PERCENT
IN PFORHR

DATA SIZE BEGIN

D PINDEP 3 201
IF THE VEHICLE WAS FOR HIRE, WHAT PERCENT
OF ANNUAL MILEAGE WAS IT OPERATED AS AN
INDEPENDENT OWNER OPERATOR?
RANGE = 0:100.
U SAMPLE UNITS WITH A VALUE OF "3"
FOR OPCLAS OR "5" FOR OPCLAS WITH A PERCENT
IN PFORHR

D PLEASE 3 204
IF THE VEHICLE WAS FOR HIRE, WHAT PERCENT
OF ANNUAL MILEAGE WAS IT OPERATED AS AN
OWNER-OPERATOR LEASED TO A COMPANY?
RANGE = 0:100.
U SAMPLE UNITS WITH A VALUE OF "3"
FOR OPCLAS OR "5" FOR OPCLAS WITH A PERCENT
IN PFORHR

D JURISD 1 207
THIS VALUE INDICATES THE JURISDICTION
TRAVELED BY THE VEHICLE.
U SAMPLE UNITS WITH A VALUE OF "3"
FOR OPCLAS OR "5" FOR OPCLAS WITH A PERCENT
IN PFORHR
V 1 .INTERSTATE
V 2 .INTRASTATE
V 3 .LOCAL

D PINTER 3 208
IF THE VEHICLE WAS FOR HIRE, WHAT PERCENT
OF ANNUAL MILEAGE WAS IT OPERATED
INTERSTATE? RANGE = 0:100.
U SAMPLE UNITS WITH A VALUE OF "3"
FOR OPCLAS OR "5" FOR OPCLAS WITH A PERCENT
IN PFORHR

D PINTRA 3 211
IF THE VEHICLE WAS FOR HIRE, WHAT PERCENT
OF ANNUAL MILEAGE WAS IT OPERATED
INTRASTATE? RANGE = 0:100.
U SAMPLE UNITS WITH A VALUE OF "3"
FOR OPCLAS OR "5" FOR OPCLAS WITH A PERCENT
IN PFORHR

D PLCAL 3 214
IF THE VEHICLE WAS FOR HIRE, WHAT PERCENT
OF ANNUAL MILEAGE WAS IT OPERATED
LOCALLY? RANGE = 1:100.
U SAMPLE UNITS WITH A VALUE OF "3"
FOR OPCLAS OR "5" FOR OPCLAS WITH A PERCENT
IN PFORHR

D TYPCAR 1 217
THIS VALUE INDICATES WHAT TYPE OF CARRIER
THE VEHICLE IS CLASSIFIED AS.
U SAMPLE UNITS WITH A VALUE OF "3"
FOR OPCLAS OR "5" FOR OPCLAS WITH A PERCENT
IN PFORHR
V 1 .CONTRACT
V 2 .COMMON
V 3 .EXEMPT

D PCONTR 3 218
IF THE VEHICLE WAS FOR HIRE, WHAT PERCENT
OF ANNUAL MILEAGE WAS IT OPERATED AS A
CONTRACT CARRIER? RANGE = 0:100.
U SAMPLE UNITS WITH A VALUE OF "3" FOR OPCLAS
OR "5" FOR OPCLAS WITH A PERCENT IN PFORHR

DATA SIZE BEGIN

D PCOMON 3 221
IF THE VEHICLE WAS FOR HIRE, WHAT PERCENT
OF ANNUAL MILEAGE WAS IT OPERATED AS A
COMMON CARRIER? RANGE = 0:100.
U SAMPLE UNITS WITH A VALUE OF "3"
FOR OPCLAS OR "5" FOR OPCLAS WITH A PERCENT
IN PFORHR

D PEXEMT 3 224
IF THE VEHICLE WAS FOR HIRE, WHAT PERCENT
OF ANNUAL MILEAGE WAS IT OPERATED AS AN
EXEMPT CARRIER? RANGE = 0:100.
U SAMPLE UNITS WITH A VALUE OF "3"
FOR OPCLAS OR "5" FOR OPCLAS WITH A PERCENT
IN PFORHR

D MAJUSE 2 227
WHICH OF THE FOLLOWING BEST DESCRIBES
YOUR BUSINESS OR THE PART OF YOUR
BUSINESS IN WHICH THE VEHICLE WAS USED?
(IF THE VEHICLE WAS LEASED, INDICATE
BUSINESS OF LESSEE).
U ALL SAMPLE UNITS
V 01 .AGRICULTURAL SERVICES
(INCLUDING FISHERIES)
V 02 .FORESTRY OR LUMBERING
ACTIVITIES
V 03 .CONSTRUCTION WORK (BUILDINGS,
HOMES, ROADS, STRUCTURES, ETC.)
V 04 .CONTRACTOR ACTIVITIES OR SPECIAL
TRADES (PAINTING, PLUMBING,
ELECTRICAL WORK, MASONRY,
CARPENTRY, ETC.)
V 05 .MANUFACTURING, REFINING, OR
PROCESSING ACTIVITIES
V 06 .WHOLESALE TRADE
V 07 .RETAIL TRADE
V 08 .BUSINESS AND PERSONAL SERVICES -
(USED TO ASSIST IN SUCH SERVICES
AS LODGING OPERATIONS, LAND-
SCAPING, REPAIR (EXCEPT
PLUMBING, ELECTRICAL WORK,
ETC.), LAUNDRY, ADVERTISING,
ENTERTAINMENT, ETC.)
V 09 .UTILITIES - USED TO ASSIST IN
OPERATION OR SERVICE OF PUBLIC
UTILITIES (TELEPHONE, GAS,
ELECTRIC, ETC.)
V 10 .MINING OR QUARRY ACTIVITIES
(INCLUDES WELL-DRILLING) - USED
TO ASSIST IN THE EXTRACTION OF
NATURAL RESOURCES OR IN HAULING
TO PROCESSORS
V 11 .DAILY RENTAL - RENTED OUT,
WITHOUT A DRIVER, TO SOMEONE
ELSE ON A DAILY OR SHORT-TERM
BASIS
V 12 .GOVERNMENTAL OPERATIONS
V 13 .NOT IN USE - VEHICLE IDLE,
WRECKED, AWAITING REPAIR, ETC.,
FOR MORE THAN 90 DAYS
V 14 .FOR HIRE TRANSPORTATION -
INCLUDING SMALL PACKAGE DELIVERY
V 15 .OTHER
V 20 .PERSONAL TRANSPORTATION

DATA SIZE BEGIN

D HAZMAT 1 229
AT ANY TIME DURING 1987 WAS THIS
VEHICLE (OR COMBINATION) USED TO HAUL
HAZARDOUS MATERIALS IN QUANTITIES LARGE
ENOUGH TO REQUIRE A SPECIAL PLACARD
PLACED ON THE VEHICLE DUE TO THE "CODE OF
FEDERAL REGULATIONS, TITLE 49,
TRANSPORTATION"?

U ALL SAMPLE UNITS
V 1 .YES
V 2 .NO
V BLANK .NOT REPORTED

* IF HAZARDOUS MATERIALS WERE CARRIED BY THE
* VEHICLE, THE TYPES ARE INDICATED BY THE
* MNEMONICS 'FLAMLQ' THROUGH 'HMOTHR' (LISTED
* BELOW).

D FLAMLQ 1 230
WERE FLAMMABLE LIQUIDS CARRIED BY THIS
VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D COMBLQ 1 231
WERE COMBUSTIBLE LIQUIDS CARRIED BY THIS
VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D CORRLQ 1 232
WERE CORROSIVE LIQUIDS CARRIED BY THIS
VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D POISNBS 1 233
WERE POISON B SOLIDS CARRIED BY THIS
VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D POISNBL 1 234
WERE POISON B LIQUIDS CARRIED BY THIS
VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D FLAMS 1 235
WERE FLAMMABLE SOLIDS CARRIED BY THIS
VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D OXIDZS 1 236
WERE OXIDIZERS CARRIED BY THIS VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D FLMGAS 1 237
WAS FLAMMABLE GAS CARRIED BY THIS
VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D NFLGAS 1 238
WAS NONFLAMMABLE GAS CARRIED BY THIS
VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

DATA SIZE BEGIN

D POISNA 1 239
WERE POISON A CARRIED BY THIS VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D CORRSL 1 240
WERE CORROSIVE SOLIDS CARRIED BY THIS
VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D EXPLSV 1 241
WERE EXPLOSIVES, A OR B, CARRIED BY THIS
VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D BLSAGT 1 242
WERE BLASTING AGENTS CARRIED BY THE
VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D RADMAT 1 243
WERE RADIOACTIVE MATERIALS CARRIED BY
THE VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D ORMABC 1 244
WERE ORM (OTHER REGULATED MATERIALS) -
A, B, OR C CARRIED BY THE VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D ORME 1 245
WERE ORM (OTHER REGULATED MATERIALS) - E
CARRIED BY THIS VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D HMOTHR 1 246
WERE ANY HAZARDOUS MATERIALS NOT LISTED
ABOVE CARRIED BY THIS VEHICLE?

U ALL SAMPLE UNITS
V 1 .YES

D PHAZMAT 1 247
IF THE VEHICLE CARRIED HAZARDOUS
MATERIALS, WHAT PERCENT OF ANNUAL
MILEAGE WAS ACCOUNTED FOR BY CARRYING
THESE HAZARDOUS MATERIALS?

U ALL SAMPLE UNITS
V 1 .BELOW 10%
V 2 .10-24%
V 3 .25-49%
V 4 .50-74%
V 5 .75-100%
V BLANK .NOT REPORTED

* PRODUCTS CARRIED BY PERCENT OF ANNUAL MILES

D LVANML 3 248
WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR WHILE CARRYING LIVE ANIMALS - CATTLE,
HORSES, POULTRY, HOGS, LIVE SEAFOOD,
INSECTS, ETC.? RANGE = 0:100 OR BLANK
(NOT REPORTED).

U ALL SAMPLE UNITS

DATA SIZE BEGIN

D FARMPD 3 251

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR WHILE CARRYING FRESH FARM PRODUCTS
(GRAIN, CROPS, FLOWERS, NURSERY STOCK,
RAW MILK, RAW TOBACCO, ETC.)?
RANGE = 0:100 OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D PRFOOD 3 254

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING PROCESSED FOODS AND
TOBACCO PRODUCTS (CANNED GOODS, PREPARED
MEATS, FROZEN FOODS, BEVERAGES, BOTTLED
WATER, DAIRY PRODUCTS, CIGARETTES,
ETC.)? RANGE = 0:100 OR BLANK (NOT
REPORTED).

U ALL SAMPLE UNITS

D MINPRO 3 257

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING MINING PRODUCTS -
UNREFINED (CRUDE OIL, COAL, METAL ORES)?
RANGE = 0:100 OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D BLDGMA 3 260

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING BUILDING MATERIALS -
GRAVEL, SAND, CONCRETE, FLAT GLASS, ETC.
- EXCEPT CUT LUMBER (SEE 'LUMBER')?
RANGE = 0:100 OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D LOGPRO 3 263

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING LOGS AND FOREST PRODUCTS
(EXCEPT CUT LUMBER AND FABRICATED WOOD
PRODUCTS)? RANGE = 0:100 OR BLANK (NOT
REPORTED).

U ALL SAMPLE UNITS

D LUMBER 3 266

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING LUMBER AND FABRICATED
WOOD PRODUCTS - EXCEPT FURNITURE?
RANGE = 0:100 OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D PAPER 3 269

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING PAPER AND PAPER PRODUCTS?
RANGE 0:100 OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D CHEM 3 272

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING CHEMICALS AND/OR DRUGS
(INCLUDING FERTILIZERS, PESTICIDES,
COSMETICS, PAINTS, ETC.)? RANGE = 0:100
OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

DATA SIZE BEGIN

D PETROL 3 275

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING PETROLEUM AND PETROLEUM
PRODUCTS - INCLUDING PAVING AND ROOFING
MATERIALS? RANGE = 0:100 OR BLANK (NOT
REPORTED).

U ALL SAMPLE UNITS

D PLASTK 3 278

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING PLASTICS AND/OR RUBBER
PRODUCTS? RANGE = 0:100 OR BLANK (NOT
REPORTED).

U ALL SAMPLE UNITS

D PRIMTL 3 281

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING PRIMARY METAL PRODUCTS -
PIPES, INGOTS, BILLETS, SHEETS, ETC?
RANGE = 0:100 OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D FABMTL 3 284

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING FABRICATED METAL PRODUCTS
(EXCEPT MACHINERY OR TRANSPORTATION
EQUIPMENT)? RANGE = 0:100 OR BLANK (NOT
REPORTED).

U ALL SAMPLE UNITS

D MACHINE 3 287

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING MACHINERY - ELECTRICAL
OR NONELECTRICAL AND ELECTRONIC?
RANGE = 0:100 OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D TEQUIP 3 290

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING TRANSPORTATION EQUIPMENT
(INCLUDING COMPLETE VEHICLES) AND PARTS?

U ALL SAMPLE UNITS

D FURN 3 293

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING FURNITURE (WOOD OR
NONWOOD) AND/OR HARDWARE - NOT INVOLVED
IN HOUSEHOLD MOVING. RANGE = 0:100 OR
BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D GLASS 3 296

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING GLASS PRODUCTS.
RANGE = 0:100 OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D TEXTIL 3 299

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING TEXTILES AND APPARELS -
FIBERS, LEATHER GOODS, CARPETS,
CLOTHING, ETC. RANGE = 0:100 OR BLANK
(NOT REPORTED).

U ALL SAMPLE UNITS

DATA SIZE BEGIN

D MSCMFG 3 302

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING MISCELLANEOUS PRODUCTS OF
MANUFACTURING - INCLUDING PHOTOGRAPHIC
GOODS, WATCHES, CLOCKS, JEWELRY AND TOYS?
RANGE = 0:100 OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D MOVING 3 305

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY THE MOVING OF HOUSEHOLD
FURNITURE - FROM HOMES, OFFICES, ETC.,
UNDER CONTRACT? RANGE = 0:100 OR
BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D TOOLS 3 308

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING MISCELLANEOUS TOOLS
AND/OR PARTS FOR SPECIALIZED USE, AS IN
A CRAFTSMAN'S VEHICLE - TRAVELING
WORKSHOP FOR PLUMBERS, CARPENTERS, ROAD
SERVICE CREWS, ETC.? RANGE = 0:100 OR
BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D MXDCAR 3 311

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING MIXED CARGO, GENERAL
FREIGHT (INCLUDING THE DELIVERY OF SMALL
PACKAGES)? RANGE = 0:100 OR BLANK (NOT
REPORTED).

U ALL SAMPLE UNITS

D REFUSE 3 314

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING SCRAP, GARBAGE, TRASH,
SEPTIC TANK WASTE? RANGE 0:100 OR BLANK
(NOT REPORTED).

U ALL SAMPLE UNITS

D INDWTR 3 317

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING INDUSTRIAL WATER?
RANGE = 0:100 OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D HWASTE 3 320

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING HAZARDOUS WASTE?
RANGE = 0:100 OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D OTHER 3 323

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING LOADS OTHER THAN THOSE
PREVIOUSLY MENTIONED? RANGE = 0:100
OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D PNOLOD 3 326

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY CARRYING NO LOAD? RANGE = 0:100
OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

DATA SIZE BEGIN

D PPSTRN 3 329

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED
FOR BY PERSONAL TRANSPORTATION?
RANGE = 0:100 OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D NONUSE 3 332

WHAT APPROXIMATE PERCENTAGE OF THE
VEHICLE'S ANNUAL MILEAGE WAS THE
VEHICLE NOT IN USE? RANGE = 0:100
OR BLANK (NOT REPORTED).

U ALL SAMPLE UNITS

D ACCDNT 1 335

WAS THIS TRUCK OR POWER UNIT INVOLVED
IN ANY ACCIDENTS DURING 1987?

U ALL SAMPLE UNITS

V 1 .YES

V 2 .NO

V BLANK .NOT REPORTED

D NFATAL 1 336

IF THIS TRUCK OR POWER UNIT WAS INVOLVED
IN ANY ACCIDENTS DURING 1987, DID ANY OF
THE ACCIDENTS INVOLVE A FATALITY?
A BLANK INDICATES "NOT REPORTED" OR "NONE".

U ALL SAMPLE UNITS WITH A VALUE OF "1"

IN ACCDNT

V 1 .YES

D BODINJ 1 337

IF THIS TRUCK OR POWER UNIT WAS INVOLVED
IN ANY ACCIDENTS DURING 1987, DID ANY OF
THE ACCIDENTS INVOLVE BODILY INJURY
REQUIRING MEDICAL TREATMENT, BUT NO
FATALITIES? A BLANK INDICATES "NOT
REPORTED" OR "NONE".

U ALL SAMPLE UNITS WITH A VALUE OF "1"

IN ACCDNT

V 1 .YES

D PRPDAM 1 338

IF THIS TRUCK OR POWER UNIT WAS INVOLVED
IN ANY ACCIDENTS DURING 1987, DID ANY OF
THE ACCIDENTS INVOLVE PROPERTY DAMAGE OF
\$4,200 OR MORE? A BLANK INDICATES "NOT
REPORTED" OR "NONE".

U ALL SAMPLE UNITS WITH A VALUE OF "1"

IN ACCDNT

V 1 .YES

D FLTSZE 1 339

TOTAL NUMBER OF TRUCKS AND/OR TRAILERS
YOU OWN AND/OR OPERATE AT THE SAME HOME
BASE LISTED PREVIOUSLY.

U ALL SAMPLE UNITS

V 1 .1

V 2 .2-5

V 3 .6-19

V 4 .20-99

V 5 .100-499

V 6 .500 AND OVER

D AXLRE 2 340

THIS ITEM IS A REPRESENTATION OF THE
TOTAL NUMBER OF AXLES ON A PARTICULAR
TRUCK AND/OR COMBINATION. THE VALUE OF
THIS ITEM DEPENDS UPON THE TYPE OF
VEHICLE, THE NUMBER OF AXLES ON THE
VEHICLE ITSELF, AND THE TYPE OF TRAILER
PULLED, IF ANY.

U ALL SAMPLE UNITS

DATA SIZE BEGIN

* FOR VALUES SEE ATTACHED "AXLE RECODE CHART"

D PRNPRO 2 342

THIS VALUE INDICATES THE PRINCIPAL
PRODUCT CARRIED BY THE VEHICLE, IF ANY.

U ALL SAMPLE UNITS

* FOR VALUES SEE ATTACHED "PRINCIPAL PRODUCTS,
* CORRESPONDING MNEMONICS AND CODES"

D AREAOP 1 344

THIS VALUE INDICATES THE AREA OF
OPERATION OF THE VEHICLE.

U ALL SAMPLE UNITS

V 1 .GREATEST PERCENTAGE OF
MILES TRAVELED OFF-ROAD
V 2 .GREATEST PERCENTAGE OF
MILES TRAVELED WITHIN A
50 MILE RADIUS OF HOME BASE
V 3 .GREATEST PERCENTAGE OF
MILES TRAVELED WITHIN A 50-
200 MILE RADIUS OF HOME BASE
V 4 .GREATEST PERCENTAGE OF
MILES TRAVELED BEYOND A 200
MILE RADIUS FROM HOME BASE

D TIUGVW 2 345

THIS VALUE INDICATES THE GROSS WEIGHT OF
THE VEHICLE BASED ON AVERAGE WEIGHT AND
RECODED TO TIUS SPECIFICATIONS (LBS).

U ALL SAMPLE UNITS

V 01 .6000 OR LESS
V 02 .6001 TO 10000
V 03 .10001 TO 14000
V 04 .14001 TO 16000
V 05 .16001 TO 19500
V 06 .19501 TO 26000
V 07 .26001 TO 33000
V 08 .33001 TO 40000
V 09 .40001 TO 50000
V 10 .50001 TO 60000
V 11 .60001 TO 80000
V 12 .80001 TO 100000
V 13 .100001 TO 130000
V 14 .130001 AND OVER

D VEHSZE 1 347

VEHICLE SIZE CLASS CODE. BASED ON
AVERAGE WEIGHT (LBS).

U ALL SAMPLE UNITS

V 1 .10000 OR LESS
V 2 .10001 TO 19500
V 3 .19501 TO 26000
V 4 .26001 AND OVER

* THE FOLLOWING VALUES ARE IMPUTE FLAGS FOR
* SELECTED VARIABLES. THE IMPUTE FLAG WILL
* INDICATE IF THE INFORMATION IS REPORTED,
* IMPUTED, EDITED OR CORRECTED BY AN ANALYST.
* THE IMPUTE FLAGS ON 'CID' AND 'HRSPWR'
* INDICATE WHETHER OR NOT THE REPORTED
* INFORMATION IS REASONABLE COMPARED TO THE
* TRUCK'S OTHER CHARACTERISTICS.

* THE FOLLOWING VALUES FOR IMPUTE FLAGS ARE
* POSSIBLE:

* "C" .COMPUTER EDIT CHANGE
* "I" .COMPUTER EDIT IMPUTATION
* "J" .ON 'CID' OR 'HRSPWR', INDICATES A
* SPECIAL CID/HRSPWR IMPUTATION
* "P" .POLK CONTROL FILE CORRECTION
* "A" .ANALYST CORRECTION
* "U" .UNREASONABLE REPORTED HRSPWR/CID
* TABULATED

DATA SIZE BEGIN

D RI110 1 348

IMPUTE FLAG FOR 'WHNACQ'.

U ALL SAMPLE UNITS

D RI111 1 349

IMPUTE FLAG FOR 'OBTAIN'.

U ALL SAMPLE UNITS

D RI112 1 350

IMPUTE FLAG FOR 'HOWLEA'.

U ALL SAMPLE UNITS

D RI113 1 351

IMPUTE FLAG FOR 'HWLONG'.

U ALL SAMPLE UNITS

D RI206 1 352

IMPUTE FLAG FOR 'STLOWN'.

U ALL SAMPLE UNITS

D RI207 1 353

IMPUTE FLAG FOR 'OWNLES'.

U ALL SAMPLE UNITS

D RI208 1 354

IMPUTE FLAG FOR 'DISPOZ'.

U ALL SAMPLE UNITS

D RI209 1 355

IMPUTE FLAG FOR 'HOWRID'.

U ALL SAMPLE UNITS

D RI210 1 356

IMPUTE FLAG FOR 'LEAOUT'.

U ALL SAMPLE UNITS

D RI211 1 357

IMPUTE FLAG FOR 'HLSOUT'.

U ALL SAMPLE UNITS

D RI213 1 358

IMPUTE FLAG FOR 'LLEOUT'.

U ALL SAMPLE UNITS

D RI311 1 359

IMPUTE FLAG FOR 'BOOTYP'.

U ALL SAMPLE UNITS

D RI325 1 360

IMPUTE FLAG FOR 'LENGTH'.

U ALL SAMPLE UNITS

D RI326 1 361

IMPUTE FLAG FOR 'EMPWGT'.

U ALL SAMPLE UNITS

D RI327 1 362

IMPUTE FLAG FOR 'AVGWGT'.

U ALL SAMPLE UNITS

D RI334 1 363

IMPUTE FLAG FOR 'MAXWGT'.

U ALL SAMPLE UNITS

D RI300 1 364

IMPUTE FLAG FOR 'VEHTYP'.

U ALL SAMPLE UNITS

D RI307 1 365

IMPUTE FLAG FOR 'SINGLE'.

U ALL SAMPLE UNITS

DATA	SIZE	BEGIN
D R1308	1	366
IMPUTE FLAG FOR 'DOUBLE'.		
U ALL SAMPLE UNITS		
D R1309	1	367
IMPUTE FLAG FOR 'TRIPLE'.		
U ALL SAMPLE UNITS		
D R1305	1	368
IMPUTE FLAG FOR 'STTRFT'.		
U ALL SAMPLE UNITS		
D R1304	1	369
IMPUTE FLAG FOR 'UTLTRL'.		
U ALL SAMPLE UNITS		
D R1345	1	370
IMPUTE FLAG FOR 'ENGSTZ'.		
U ALL SAMPLE UNITS		
D R1341	1	371
IMPUTE FLAG FOR 'HRSPWR'.		
U ALL SAMPLE UNITS		
D R1342	1	372
IMPUTE FLAG FOR 'CID'.		
U ALL SAMPLE UNITS		
D R1400	1	373
IMPUTE FLAG FOR 'ANNMIL'.		
U ALL SAMPLE UNITS		
D R1401	1	374
IMPUTE FLAG FOR 'STLOWN'.		
U ALL SAMPLE UNITS		
D R1402	1	375
IMPUTE FLAG FOR 'MPG'.		
U ALL SAMPLE UNITS		
D R1406	1	376
IMPUTE FLAG FOR 'BASTAT'.		
U ALL SAMPLE UNITS		
D R1408	1	377
IMPUTE FLAG FOR 'POBAST'.		
U ALL SAMPLE UNITS		
D R1409	1	378
IMPUTE FLAG FOR 'POFFRD'.		
U ALL SAMPLE UNITS		
D R1410	1	379
IMPUTE FLAG FOR 'PLOCAL'.		
U ALL SAMPLE UNITS		
D R1411	1	380
IMPUTE FLAG FOR 'PSHORT'.		
U ALL SAMPLE UNITS		
D R1412	1	381
IMPUTE FLAG FOR 'PLONG'.		
U ALL SAMPLE UNITS		
D R1501	1	382
IMPUTE FLAG FOR 'OPCLAS'.		
U ALL SAMPLE UNITS		
D R1506	1	383
IMPUTE FLAG FOR 'PMOCAR'.		
U ALL SAMPLE UNITS		

DATA	SIZE	BEGIN
D R1507	1	384
IMPUTE FLAG FOR 'PINDEP'.		
U ALL SAMPLE UNITS		
D R1508	1	385
IMPUTE FLAG FOR 'PLEASE'.		
U ALL SAMPLE UNITS		
D R1509	1	386
IMPUTE FLAG FOR 'PINTER'.		
U ALL SAMPLE UNITS		
D R1510	1	387
IMPUTE FLAG FOR 'PINTRA'.		
U ALL SAMPLE UNITS		
D R1511	1	388
IMPUTE FLAG FOR 'PLOCAL'.		
U ALL SAMPLE UNITS		
D R1512	1	389
IMPUTE FLAG FOR 'PCONTR'.		
U ALL SAMPLE UNITS		
D R1513	1	390
IMPUTE FLAG FOR 'PCOMON'.		
U ALL SAMPLE UNITS		
D R1514	1	391
IMPUTE FLAG FOR 'PEXEMT'.		
U ALL SAMPLE UNITS		
D R1525	1	392
IMPUTE FLAG FOR 'MAJUSE'.		
U ALL SAMPLE UNITS		
D R1552	1	393
IMPUTE FLAG FOR 'HAZMAT'.		
U ALL SAMPLE UNITS		
D R1570	1	394
IMPUTE FLAG FOR 'PHAZMAT'.		
U ALL SAMPLE UNITS		
D R1526	1	395
IMPUTE FLAG FOR 'LVANML'.		
U ALL SAMPLE UNITS		
D R1527	1	396
IMPUTE FLAG FOR 'FARMPD'.		
U ALL SAMPLE UNITS		
D R1528	1	397
IMPUTE FLAG FOR 'PRFOOD'.		
U ALL SAMPLE UNITS		
D R1529	1	398
IMPUTE FLAG FOR 'MINPRO'.		
U ALL SAMPLE UNITS		
D R1530	1	399
IMPUTE FLAG FOR 'BLDGMA'.		
U ALL SAMPLE UNITS		
D R1531	1	400
IMPUTE FLAG FOR 'LOGPRO'.		
U ALL SAMPLE UNITS		
D R1532	1	401
IMPUTE FLAG FOR 'LUMBER'.		
U ALL SAMPLE UNITS		

DATA SIZE BEGIN

D RI533 1 402
 IMPUTE FLAG FOR 'PAPER'.
U ALL SAMPLE UNITS

D RI534 1 403
 IMPUTE FLAG FOR 'CHEM'.
U ALL SAMPLE UNITS

D RI535 1 404
 IMPUTE FLAG FOR 'PETROL'.
U ALL SAMPLE UNITS

D RI536 1 405
 IMPUTE FLAG FOR 'PLASTK'.
U ALL SAMPLE UNITS

D RI537 1 406
 IMPUTE FLAG FOR 'PRIMTL'.
U ALL SAMPLE UNITS

D RI538 1 407
 IMPUTE FLAG FOR 'FABMTL'.
U ALL SAMPLE UNITS

D RI539 1 408
 IMPUTE FLAG FOR 'MACHNE'.
U ALL SAMPLE UNITS

D RI540 1 409
 IMPUTE FLAG FOR 'TEQUIP'.
U ALL SAMPLE UNITS

D RI541 1 410
 IMPUTE FLAG FOR 'FURN'.
U ALL SAMPLE UNITS

D RI542 1 411
 IMPUTE FLAG FOR 'GLASS'.
U ALL SAMPLE UNITS

D RI543 1 412
 IMPUTE FLAG FOR 'TEXTIL'.
U ALL SAMPLE UNITS

D RI544 1 413
 IMPUTE FLAG FOR 'MSCMFG'.
U ALL SAMPLE UNITS

D RI545 1 414
 IMPUTE FLAG FOR 'MOVING'.
U ALL SAMPLE UNITS

D RI546 1 415
 IMPUTE FLAG FOR 'TOOLS'.
U ALL SAMPLE UNITS

D RI547 1 416
 IMPUTE FLAG FOR 'MXDCAR'.
U ALL SAMPLE UNITS

D RI548 1 417
 IMPUTE FLAG FOR 'REFUSE'.
U ALL SAMPLE UNITS

D RI549 1 418
 IMPUTE FLAG FOR 'INDWTR'.
U ALL SAMPLE UNITS

D RI550 1 419
 IMPUTE FLAG FOR 'HWASTE'.
U ALL SAMPLE UNITS

DATA SIZE BEGIN

D RI551 1 420
 IMPUTE FLAG FOR 'OTHER'.
U ALL SAMPLE UNITS

D RI328 1 421
 IMPUTE FLAG FOR 'PNOLOD'.
U ALL SAMPLE UNITS

D BLANKS 3 422
 THREE BLANK SPACES OCCUR AT THE END OF
 THE RECORD.

APPENDIX A

Estimated Number of Trucks (000's) by State: 1987

STATE	FIPS STATE CODE	1987 TIUS	1987 FHWA
AL	01	893.7	881.9
AK	02	170.4	122.3
AZ	04	758.6	686.6
AR	05	520.7	494.6
CA	06	4,744.3	4,348.7
CO	08	972.8	785.6
CT	09	438.1	135.0
DE	10	120.3	102.9
DC	11	19.9	9.3
FL	12	1,924.0	2,015.8
GA	13	1,210.1	1,374.8
HI	15	160.8	76.7
ID	16	318.3	344.7
IL	17	1,603.5	1,379.7
IN	18	1,076.6	911.0
IA	19	679.4	731.4
KS	20	728.5	665.7
KY	21	808.1	857.2
LA	22	926.8	901.8
ME	23	259.2	221.7
MD	24	661.4	561.1
MA	25	673.6	455.2
MI	26	1,548.7	1,376.7
MN	27	849.7	670.1
MS	28	500.6	393.9
MO	29	1,014.1	1,020.7
MT	30	314.9	220.3
NE	31	444.2	421.0
NV	32	248.9	209.6
NH	33	233.2	175.4
NJ	34	806.2	473.6
NM	35	469.2	461.5
NY	36	1,541.1	1,154.8
NC	37	1,371.2	1,298.0
ND	38	267.9	256.9
OH	39	1,736.5	1,438.2
OK	40	903.6	909.7
OR	41	830.4	555.7
PA	42	1,687.3	1,381.9
RI	44	120.5	103.5
SC	45	597.6	550.3
SD	46	244.0	251.2
TN	47	1,017.0	783.9
TX	48	3,952.1	3,658.4
UT	49	379.2	347.8
VT	50	130.6	107.1
VA	51	1,139.1	970.3
WA	53	1,101.3	1,064.7
WV	54	422.2	333.3
WI	55	806.6	671.5
WY	56	224.4	185.5
TOTAL		44572.2	39529.6

APPENDIX B

EXPANSION FACTORS BY STATE AND STRATA

STATE	FIPS ST CODE	STRATA 1	STRATA 2	STRATA 3	STRATA 4	STRATA 5
---	-----					
AL	01	1400.47	1397.90	153.25	70.26	36.68
AK	02	303.29	271.57	21.70	11.51	4.37
AZ	04	1167.11	1152.61	107.40	34.69	15.65
AR	05	818.05	750.45	11.82	22.68	5.03
CA	06	7397.95	7447.44	621.08	213.63	112.68
CO	08	1479.78	1460.47	116.77	34.62	10.99
CT	09	701.35	625.34	74.20	23.84	10.92
DE	10	201.78	194.26	30.32	15.52	7.01
DC	11	45.03	40.73	6.08	2.56	1.77
FL	12	2974.67	2930.96	249.22	150.23	47.21
GA	13	1863.63	1822.06	199.28	130.21	37.59
HI	15	267.91	284.79	24.54	4.50	9.54
ID	16	432.89	429.78	41.96	14.80	8.74
IL	17	2215.02	2181.91	406.74	188.43	129.74
IN	18	1521.04	1472.20	224.43	174.93	45.19
IA	19	916.00	960.98	152.55	95.87	24.77
KS	20	1058.07	1107.79	162.25	80.84	18.56
KY	21	1123.11	1110.37	138.65	48.66	21.47
LA	22	1414.97	1315.83	129.51	48.20	24.83
ME	23	365.28	354.79	44.57	19.02	10.48
MD	24	935.34	934.97	144.38	53.74	23.36
MA	25	931.77	1003.69	149.92	49.74	28.43
MI	26	2109.12	2121.50	187.14	105.97	44.12
MN	27	1169.00	1154.50	151.84	81.33	24.76
MS	28	785.77	743.40	52.92	17.37	14.04
MO	29	1436.22	1389.62	166.39	63.78	29.87
MT	30	449.11	452.61	49.38	24.93	10.67
NE	31	635.89	644.75	136.95	66.55	25.23
NV	32	378.67	364.53	20.04	7.27	4.63
NH	33	356.26	363.49	46.69	20.05	8.47
NJ	34	1209.95	1162.33	203.20	82.40	40.99
NM	35	725.96	692.85	50.32	30.25	16.41
NY	36	2113.39	2277.46	302.48	114.34	46.70
NC	37	1873.48	1935.07	294.42	65.60	71.58
ND	38	355.92	360.70	108.06	22.04	9.61
OH	39	2439.76	2444.99	351.89	144.31	73.07
OK	40	1325.74	1318.72	160.36	46.34	36.00
OR	41	1170.92	1241.56	89.96	53.98	23.77
PA	42	2179.64	2271.68	293.52	164.76	58.04
RI	44	174.40	176.04	24.93	7.34	5.92
SC	45	850.90	895.80	93.38	30.98	14.39
SD	46	351.80	351.92	58.58	39.16	8.51
TN	47	1479.07	1540.76	139.22	127.65	30.98
TX	48	7059.36	6155.21	526.70	185.01	130.43
UT	49	514.06	514.11	45.55	23.61	8.56
VT	50	177.64	179.81	21.17	8.65	4.25
VA	51	1625.17	1553.60	189.01	85.32	29.31
WA	53	1567.18	1517.28	123.50	32.95	25.63
WV	54	575.81	564.59	64.38	13.69	9.92
WI	55	1064.86	1069.82	165.19	89.46	26.35
WY	56	334.87	345.58	36.63	15.84	8.99

APPENDIX C

TIUS STATE BY STRATA, TRUCK COUNTS

ST	01	02	03	04	05	TOTAL
01	000448	000119	000325	000368	000643	001923
02	000348	000191	000333	000292	000427	001652
04	000418	000179	000427	000244	000649	001917
05	000514	000121	000215	000041	001137	002072
06	000417	000167	000408	000244	000977	002213
08	000397	000210	000453	000612	000418	002090
09	000330	000245	000459	000522	000634	002190
10	000313	000197	000324	000348	000521	001703
11	000140	000299	000319	000233	000073	001064
12	000353	000237	000381	000177	000909	002062
13	000423	000153	000418	000211	000857	002062
15	000396	000139	000412	000764	000166	001877
16	000508	000157	000459	000402	000658	002184
17	000349	000246	000329	000373	000691	001988
18	000404	000195	000419	000218	000949	002185
19	000447	000152	000421	000433	000734	002187
20	000434	000130	000494	000367	000834	002259
21	000482	000149	000486	000386	000737	002210
22	000452	000154	000377	000401	000664	002048
23	000456	000167	000380	000542	000582	002127
24	000363	000234	000401	000571	000621	002190
25	000335	000259	000361	000724	000401	002080
26	000402	000264	000407	000201	000981	002255
27	000431	000202	000393	000448	000669	002143
28	000494	000107	000328	000401	000607	001937
29	000492	000132	000456	000374	000314	002268
30	000484	000140	000412	000244	000729	002009
31	000426	000120	000419	000284	000774	002023
32	000449	000178	000430	000255	000749	002061
33	000378	000192	000358	000360	000655	001941
34	000270	000293	000355	000496	000632	002046
35	000456	000154	000456	000121	000296	001433
36	000323	000282	000425	000426	000659	002158
37	000458	000160	000421	000553	000605	002197
38	000410	000116	000591	000463	000633	002213
39	000375	000233	000373	000596	000474	002051
40	000479	000125	000392	000367	000664	002027
41	000479	000134	000377	000174	000949	002143
42	000396	000265	000393	000331	000900	002285
44	000349	000246	000414	000460	000449	001918
45	000472	000147	000457	000390	000660	002126
46	000442	000132	000413	000294	000746	002027
47	000472	000140	000389	000159	000927	002087
48	000375	000159	000353	000237	000739	001863
49	000462	000215	000410	000234	000820	002141
50	000441	000211	000382	000496	000452	001982
51	000426	000200	000437	000344	000781	002199
53	000466	000190	000427	000347	000742	002172
54	000465	000192	000496	000688	000414	002256
55	000443	000189	000400	000423	000889	002349
56	000428	000164	000383	000205	000788	001968

APPENDIX D

AXLRE (Axle Recode) Chart

Vehicle Identification	TIUS Mnemonics						AXLRE code
	VEHTYP code	NAXLES code	STTRFT code	SINGLE code	DOUBLE code	TRIPLE code	
<u>Single Unit Truck</u>							
2 axle	1	① or ②	-	-	-	-	01
3 axle	1	3	-	-	-	-	02
4 or more axles	1	4	-	-	-	-	03
<u>Single Unit Truck Pulling a Full Trailer</u>							
2-Axle Single Unit Truck							
2 axles on trailer	2	1 or 2	1	-	-	-	04
3 axles on trailer	2	1 or 2	2	-	-	-	05
4 or more axles on trailer	2	1 or 2	3	-	-	-	08
3-Axle Single Unit Truck							
2 axles on trailer	2	3	1	-	-	-	06
3 axles on trailer	2	3	2	-	-	-	07
4 or more axles on trailer	2	3	3	-	-	-	09
4 or More-Axle Single Unit Truck							
2 axles on trailer	2	4	1	-	-	-	10
3 axles on trailer	2	4	2	-	-	-	11
4 or more axles on trailer	2	4	3	-	-	-	12
<u>Truck-Tractor Pulling One Semi-Trailer</u>							
2-Axle Truck-Tractor							
1 axle on trailer	3	1 or 2	-	1	-	-	13
2 axles on trailer	3	1 or 2	-	2	-	-	14
3 or more axles on trailer	3	1 or 2	-	3	-	-	18

Vehicle Identification	TIUS Mnemonics						AXLRE code
	VEHTYP code	NAXLES code	STTRFT code	SINGLE code	DOUBLE code	TRIPLE code	
<u>Truck-Tractor Pulling One Semi-Trailer con't</u>							
3-Axle Truck-Tractor							
1 axle on trailer	3	3	-	1	-	-	15
2 axles on trailer	3	3	-	2	-	-	16
3 or more axles on trailer	3	3	-	3	-	-	19
4 or More Axle Truck-Tractor							
1 axle on trailer	3	4	-	1	-	-	17
2 axles on trailer	3	4	-	2	-	-	20
3 or more axles on trailer	3	4	-	3	-	-	21
<u>Truck-Tractor Pulling Two Trailers</u>							
2-Axle Truck-Tractor							
3 axles on trailers	3	1 or 2	-	-	1	-	22
4 axles on trailers	3	1 or 2	-	-	2	-	23
5 axles on trailers	3	1 or 2	-	-	3	-	25
6 or more axles on trailers	3	1 or 2	-	-	4	-	26
3-Axle Truck-Tractor							
3 axles on trailers	3	3	-	-	1	-	24
4 axles on trailers	3	3	-	-	2	-	27
5 axles on trailers	3	3	-	-	3	-	28
6 or more axles on trailers	3	3	-	-	4	-	29
4 or More Axle Truck-Tractor							
3 axles on trailers	3	4	-	-	1	-	30
4 axles on trailers	3	4	-	-	2	-	31
5 axles on trailers	3	4	-	-	3	-	32
6 or more axles on trailers	3	4	-	-	4	-	33

Vehicle Identification	TIUS Mnemonics						AXLRE code
	VEHTYP code	NAXLES code	STTRFT code	SINGLE code	DOUBLE code	TRIPLE code	
<u>Truck-Tractor Pulling Three Trailers</u>							
2-Axle Truck-Tractor							
5 axles on trailers	3	1 or 2	-	-	-	1	34
6 axles on trailers	3	1 or 2	-	-	-	2	35
7 axles on trailers	3	1 or 2	-	-	-	3	36
8 or more axles on trailers	3	1 or 2	-	-	-	4	37
3-Axle Truck-Tractor							
5 axles on trailers	3	3	-	-	-	1	38
6 axles on trailers	3	3	-	-	-	2	39
7 axles on trailers	3	3	-	-	-	3	40
8 or more axles on trailers	3	3	-	-	-	4	41
4 or More Axle Truck-Tractor		-					
5 axles on trailers	3	4	-	-	-	1	42
6 axles on trailers	3	4	-	-	-	2	43
7 axles on trailers	3	4	-	-	-	3	44
8 or more axles on trailers	3	4	-	-	-	4	45

Vehicle Identification	TIUS Mnemonics							
	VEHTYP Code	NAXLES Code	STTRFT Code	Single Code	Double Code	Triple Code	AXONTU Code	AXLRE Code
Straight Truck Pulling Utility Trailer								
2-Axle Small Single Unit								
1 axle on trailer	2	1 or 2	-	1	-	-	1	46
2 axles on trailer	2	1 or 2	-	2	-	-	2	47
3 axles or more on trailer	2	1 or 2	-	3	-	-	3	48
3-Axle Small Single Unit								
1 axle on trailer	2	3	-	1	-	-	1	49
2 axles on trailer	2	3	-	2	-	-	2	50
3 axles or more on trailer	2	3	-	3	-	-	3	51
4-Axle Larger Single Unit								
1 axle on trailer	2	3	-	1	-	-	-	52
2 axles on trailer	2	3	-	2	-	-	-	53
3 axles or more on trailer	2	3	-	3	-	-	-	54
3-Axle Single Unit								
1 axle on trailer	2	3	-	1	-	-	-	55
2 axles on trailer	2	3	-	2	-	-	-	56
3 axles or more on trailer	2	3	-	3	-	-	-	57
4 or More Axle Single Unit								
1 axle on trailer	2	4	-	1	-	-	-	58
2 axles on trailer	2	4	-	2	-	-	-	59
3 axles or more on trailer	2	4	-	3	-	-	-	60

APPENDIX E

PRINCIPAL PRODUCTS, CORRESPONDING MNEMONICS AND CODES

DESCRIPTION	MNEMONIC	PRNPRO CODE
LIVE ANIMALS	LVANML	02
FRESH FARM PRODUCTS	FARMPD	01
PROCESSED FOODS	PRFOOD	03
MINING PRODUCTS	MINPRO	04
BUILDING MATERIALS	BLDGMA	05
LOGS AND FOREST PRODUCTS	LOGPRO	06
LUMBER AND FABRICATED WOOD PRODUCTS	LUMBER	07
PAPER AND PAPER PRODUCTS	PAPER	08
CHEMICALS AND/OR DRUGS	CHEM	09
PETROLEUM AND PETROLEUM PRODUCTS	PETROL	10
PLASTICS AND/OR RUBBER PRODUCTS	PLASTK	11
PRIMARY METAL PRODUCTS	PRIMTL	12
FABRICATED METAL PRODUCTS	FABMTL	13
MACHINERY	MACHNE	14
TRANSPORTATION EQUIPMENT	TEQUIP	15
FURNITURE AND/OR HARDWARE	FURN	16
GLASS PRODUCTS	GLASS	26
TEXTILES AND APPARELS	TEXTIL	17
MISCELLANEOUS PRODUCTS OF MANUFACTURING	MSCMFG	27
MOVING OF HOUSEHOLD AND OFFICE FURNITURE	MOVING	18
MISCELLANEOUS TOOLS AND/OR PARTS FOR USE as in a CRAFTMAN'S VEHICLE	TOOLS	19
MIXED CARGO, GENERAL FREIGHT	MXDCAR	20
SCRAP, GARBAGE, TRASH SEPTIC TANK WASTE	REFUSE	21

DESCRIPTION	MNEMONIC	PRNPRO CODE
INDUSTRIAL WATER	INDWTR	28
HAZARDOUS WASTE	HWASTE	29
OTHER	OTHER	22
PERSONAL TRANSPORTATION	PRSTN	24
NO LOAD CARRIED	PNOLOD	23
NOT IN USE	NONUSE	25

APPENDIX F

1987 TIUS

STATE	STATE ABBR	FIPS CODE
Alabama	AL	01
Alaska	AK	02
Arizona	AZ	04
Arkansas	AR	05
California	CA	06
Colorado	CO	08
Connecticut	CT	09
Delaware	DE	10
District Of Columbia	DC	11
Florida	FL	12
Georgia	GA	13
Hawaii	HI	15
Idaho	ID	16
Illinois	IL	17
Indiana	IN	18
Iowa	IA	19
Kansas	KS	20
Kentucky	KY	21
Louisiana	LA	22
Maine	ME	23
Maryland	MD	24
Massachusetts	MA	25
Michigan	MI	26
Minnesota	MN	27
Mississippi	MS	28
Missouri	MO	29
Montana	MT	30
Nebraska	NE	31
Nevada	NV	32
New Hampshire	NH	33
New Jersey	NJ	34
New Mexico	NM	35
New York	NY	36
North Carolina	NC	37
North Dakota	ND	38
Ohio	OH	39
Oklahoma	OK	40
Oregon	OR	41
Pennsylvania	PA	42
Rhode Island	RI	44
South Carolina	SC	45
South Dakota	SD	46
Tennessee	TN	47
Texas	TX	48
Utah	UT	49
Vermont	VT	50
Virginia	VA	51
Washington	WA	53
West Virginia	WV	54
Wisconsin	WS	55
Wyoming	WY	56

APPENDIX G

Machine-Readable Data Dictionary Layout

Data dictionary lines are 46 characters. The character on the first position determines the type of lines. Each variable may have the following lines:

1. COMMENTS (" * ") lines
2. DATA DICTIONARY (" D ") lines and DATA DESCRIPTION
3. UNIVERSE (" U ") lines
4. VALUE DESCRIPTION (" V ") lines
5. One blank line at the end

FORMAT

"*" LINE COMMENTS

- a. " * " in the first position indicates that this is a comment line. This line can appear any place in the dictionary. It will be used for short comments or to nullify any value codes.
- b. " ** " in the first two positions is also comments but it has additional meaning. It indicates this is a block of comments which will be applied to several variables. The first line of this block will have the COMMENT NO. so that subsequent variable can refer back to this comment block.

"D" LINE DATA DICTIONARY

This line contains the following information:

ID	"D"	COL.	1- 1
NAME	Variable name	COL.	3-10
SIZE	Size of data field	COL.	14-15
BEGIN	Begin position of data field	COL.	19-22
TYPE	Character variable indicator "CHAR" or blanks if numeric variable	COL.	26-29
DEC	Implied decimal places	COL.	33-34
IND	TABLE variable indicator "TABLE" with "(aa)" for its dimension; otherwise blanks	COL.	38-46

Text describing the variable will follow this "D" line. Use COL. 6-46 and repeat as many lines as necessary.

"U" LINE UNIVERSE DEFINITION

This line contains the universe definition. Use COL. 3-46 and repeat as many lines as necessary.

ID	" U "	COL.	1- 1
DESCRIPTION	Universe description	COL.	3-46

(For continuation use COL. 3-46 and repeat as many lines as necessary.)

"V" LINE VALUE DEFINITION

ID	" V "	COL.	1- 1
VALUE	Value code-right justified	COL.	3-12
.	" "	COL.	14
DESCRIPTION	Value description	COL.	15-46

(Repeat COL. 14-46 format for continued value description.)