Truck Inventory and Use Survey (TIUS) 1982
Technical Documentation
The Bureau of Transportation Statistics
https://doi.org/10.21949/1521115

DATA USER SERVICES DIVISION

BUREAU OF THE CENSUS

DEPARTMENT OF COMMERCE

WASHINGTON D. C. 20233

EBCDIC   6250 BPI   SL   JULIAN DATE 85322

VOLUME   907767

FILE IDENTIFIER (DSN)	FILE POSITION	BLOCK LENGTH	RECORD LENGTH	RECORD COUNT
TIUS1982.TRANSPXX	001	7200	360	84334

IMPORTANT NOTICE TO TAPE USERS

Re: Tape Copies with IBM OS/VS Standard Labels

The enclosed computer tape(s) were copies on the Census Bureau's UNIVAC 1100 System. Please note that a UNIVAC-produced IBM OS/VS standard label does not conform completely to the OS/VS label format. One difference is that the block attribute field contains a blank in the 'HDR1' label. The field should contain the letter 'B', indicating the existence of blocked records.

The adjust for this difference, the DCB=RECFM=FB parameter must be included in the JCL statement when reading the tape(s), as shown in the following example:

```
//SYSUT1 DD DSN='PL94-171.VA51',
//    DCB=RECFM=FB,UNIT=TAPE,VOL=SER=123654,
//    DISP=(OLD,KEEP),LABEL=(1,SL)
```

Tapes copied on the UNIVAC 1100 system also contain 2 other label differences which are not significant in the usual OS/VS environment, but may create problems for users with other operating systems. The data set sequence number field of the 'HDR1' label contains a value of '0001' regardless of the file sequence. Users should be aware of this anomaly when processing multi-file tapes, if their operating systems utilized this field. Also the density field of the HDR1 record is blank. It should contain a '3' for 1600 BPI tapes or a '4' for 6250 tapes. The omission should cause no problems since density settings are usually taken care of automatically by tape drives.

CUSTOMER SERVICES BRANCH
DATA USER SERVICES DIVISION
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

CENSUS OF TRANSPORTATION, 1982

TRUCK INVENTORY AND USE SURVEY

TECHNICAL DOCUMENTATION

This documentation consists of the following materials:

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 Economic Surveys Division, Bureau of the Census, Washington, D.C. 20233. Phone: (301) 763-1744.

Attachment 1

ABSTRACT

Census of Transportation; 1982
Truck Inventory and Use Survey [machine-
readable data file] / conducted by the
Bureau of the Census. --Washington: The
Bureau [producer and distributor], 1985.

TYPE OF FILE:

   Microdata.

UNIVERSE DESCRIPTION:

   The universe is approximately 33 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 120,000 trucks.

SUBJECT-MATTER DESCRIPTION:

   The data available for individual trucks include make, model, 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, transmission type, brake type,
   power steering, fuel conservation equipment, body and vehicle type and size
   class, and cab type).

GEOGRAPHIC COVERAGE:

   The State in which the truck is registered.

TECHNICAL DESCRIPTION:

   FILE STRUCTURE: rectangular.

   FILE SIZE: 84,334 logical records; 360 character logical record length.

   FILE SORT SEQUENCE: serial number

REFERENCE MATERIALS:

   "Census of Transportation, 1982 Truck Inventory and Use Survey Technical
   Documentation." Available from Customer Services (Tapes). It includes an
   abstract, record description, and other information about the file. When
   ordered separately from the file, the cost is $5.

RELATED PRINTED REPORTS:

   United States Bureau of the Census. 1982 Census of Transportation, Truck
   Inventory and Use Survey (TC82-T-1 to -52). This series includes a U.S.

summary and a separate report for each State and the District of Columbia. Available from the U.S. Government Printing Office, Washington, D.C. 20402. Contact Customer Services (301/763-4100) for prices and ordering information.

RELATED MACHINE-READABLE DATA FILES:

Census of Transportation, 1967, 1972, and 1977 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 or 6250 bpi for $140 from Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, D.C. 20233.

INTRODUCTION

ECONOMIC CENSUSES OVER TIME

The early beginnings of America's industrial output were first measured in the United States in the 1810 Decennial Census and again in 1820, when questions on manufacturing were included with those for population. Beginning with the 1840 Decennial Census, there were enumerations of manufactures and mineral industries at 10-year intervals up to and including the year 1900 for manufactures and 1940 for mineral industries. The latter census was taken again for 1954, 1958, 1963, and 1967.

Because of the increasing dominance of manufacturing in the early 20th century, Congress directed that quinquennial censuses of manufactures be taken beginning in 1905. However, from 1919 through 1939, these censuses were conducted every 2 years. The need for war-related current surveys in the early 1940's postponed the next census of manufactures until 1948 (for 1947). That census was again taken for 1954, 1958, 1963, and 1967.

Retail and wholesale trade data were first collected in 1930, and in 1933 information on selected service industries was added to the data-collection operation. These business censuses, as they were called, were again taken for 1935, 1939 (as part of the 1940 decennial program), 1948, 1954, 1958, 1963, and 1967.

Information on construction industries was first obtained in 1930 and again for 1935 and 1939. Data for the full spectrum of construction industries were not gathered again until 1968 (for 1967).

The need for transportation data to supplement information available from existing governmental or private sources was recognized by Congress in the late 1950's and early 1960's. The census of transportation (consisting of several surveys) was first taken for 1963 and again for 1967.

Since 1967, all of the above censuses have been taken quinquennially as part of the Census Bureau's economic census program. (For the 1977 censuses, the coverage of the service industries was broadened from "selected services" to all services, except religious organizations and private households. A total of 41 additional four-digit standard industrial classifications[1] (SIC's) in 7 SIC major groups was added to the scope of the

census. While most of the industries included for the first time for 1977 were covered again for 1982, some were not, i.e., hospitals; elementary and secondary schools; colleges, universities, and professional schools; junior colleges and technical institutes; labor unions and similar labor organizations; and political organizations.)

The first manufacturing census for an outlying area was conducted in Puerto Rico for the year 1909. Thereafter, with the exception of 1929, a census was taken at 10-year intervals through 1949. The first censuses of retail trade, wholesale trade, and selected service industries in Puerto Rico were conducted for 1939. These censuses also were taken for the years 1949, 1954, 1958, 1963, and 1967. A census of construction industries was first introduced in Puerto Rico for 1967. These censuses of Puerto Rico have been taken since then for the years 1972, 1977, and 1982.

Censuses of manufactures, retail trade, wholesale trade, and selected service industries were conducted in Guam and the Virgin Islands of the United States for 1958, 1963, 1967, 1972, 1977, and 1982. Censuses of mineral industries were taken in the Virgin Islands of the United States for the years 1958, 1963, and 1967 but not since that time. A census of construction industries was also undertaken in these areas for 1972, 1977, and 1982.

Retail trade, wholesale trade, selected service industries, manufacturing, and construction industries were canvassed for the first time in the Northern Mariana Islands in 1983 (for 1982).

For 1982, the economic censuses and agriculture censuses were conducted concurrently.

USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source for facts about the structure and functioning of the Nation's economy and provide essential information for government, business, industry, and the general public. They provide an important part of the framework for such composite measures as the gross national product, input-output measures, indexes of industrial production, and indexes measuring productivity and price levels. Information from the censuses is used to establish sampling frames and as benchmarks for current surveys of business activity, which are essential for measuring short-term economic conditions.

State and local governments use census data to assess business activities within their jurisdictions. The private sector uses the data to forecast general economic conditions; analyze sales performance; lay out sales territories; allocate funds for advertising; decide on locations for new plants, warehouses, or stores; and measure potential markets in terms of size, geographic areas, kinds of business, and kinds of products made or sold.

Following every census, thousands of businesses and other users purchase reports. Likewise, census facts are widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. All 1982 data are

Item 9a – 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.

313

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

- 12 ☐ Basic enclosed van (dry cargo)
- 10 ☐ Drop frame van – including furniture van, etc.
- 08 ☐ Insulated, non-refrigerated van
- 09 ☐ Insulated, refrigerated-van
- 03 ☐ Multistop or step van
- 11 ☐ Open top van, including low-side grain, fruit

SPECIALIZED USE TRUCKS

- 18 ☐ Automobile transport
- 13 ☐ Beverage truck
- 28 ☐ Cargo container chassis
- 70 ☐ Concrete mixer
- 40 ☐ Dump truck
- 29 ☐ Grain bodies (hopper)

SPECIALIZED USE TRUCKS – Con.

- 10 ☐ Garbage truck
- 07 ☐ Livestock truck, including livestock drop frame
- 27 ☐ Oilfield truck – service equipment permanently mounted on vehicle
- 17 ☐ Pole, logging, 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 the "Other" box below and describe.

- 80 ☐ Other – Specify _____

	Feet
b. What is the overall length of this vehicle or combination (distance from front bumper to rear of truck or rear of the last trailer attached)?	314

	Pounds
Item 10 – What is the weight of this vehicle or vehicle/trailer combination when empty? An estimate is acceptable.	316

	Pounds
Item 11 – What was the average weight of the vehicle or vehicle/trailer combination when carrying a typical payload during the past year? An estimate is acceptable.	318

	Pounds
Item 12 – What was the maximum gross weight (MGW) at which this vehicle or vehicle/trailer combination was operated? An estimate is acceptable.	320

Item 13 – What kind of fuel does this vehicle use?

321
- 1 ☐ Gasoline
- 2 ☐ Diesel
- 3 ☐ Liquefied petroleum gas (LPG)
- 4 ☐ Other – Specify fuel _____

Item 14 – How many cylinders does this vehicle have?

322
- 1 ☐ 4 cylinders
- 2 ☐ 6 cylinders
- 3 ☐ 8 cylinders
- 4 ☐ Other – Specify unit _____

Item 15 – What is the size (displacement) of your engine? Enter cubic inches, cubic centimeters, or liters, whichever is applicable.

Cubic inches (CI)		Cubic centimeters (CC)		Liters (L)
323	OR	324	OR	325

Item 16 – What is the horsepower rating of this vehicle's engine?

	Horsepower
	326

Item 17 – What kind of transmission does this vehicle have?

327
- 1 ☐ Manual
- 2 ☐ Automatic

Item 18 – What type of brakes does the power unit (truck or truck-tractor) have?

328
- 1 ☐ Hydraulic (standard)
- 2 ☐ Hydraulic with power assist
- 3 ☐ Air

Item 19 – Does this vehicle have any of the following equipment? Mark (X) as many as apply.

329
- 01 ☐ Aerodynamic features
- 02 ☐ Axle or drive ratio to maximize fuel efficiency
- 03 ☐ Fuel economy engine with low RPM, high torque rise, turbo-charge, etc.
- 04 ☐ Reflective materials (in addition to those required by law)
- 05 ☐ Radial tires
- 06 ☐ Road speed governor
- 07 ☐ Variable fan drives
- 08 ☐ Other fuel conservation features
- 09 ☐ Power steering
- 10 ☐ Air conditioning in cab
- 11 ☐ Engine retarder

Item 20 – Who performed the general maintenance and major overhauls on this vehicle? Mark (X) as many as apply.

	General maintenance 330	Major overhauls 331
Yourself	1 ☐	1 ☐
Your company's own maintenance facilities	2 ☐	2 ☐
Dealership's service department	3 ☐	3 ☐
Leasing company	4 ☐	4 ☐
Independent garage or private mechanic	5 ☐	5 ☐
Component distributorship	6 ☐	6 ☐
Other – Specify _____	7 ☐	7 ☐

Item 21 – How many miles was this vehicle driven during the past 12 months? An estimate is acceptable.

NOTE – If driven less than 12 months, please estimate mileage for a full year _____
| 332 |

Item 22 – How many miles has this vehicle been driven since it was new? 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.
| 333 |

Item 23 – How many miles-per-gallon (MPG) did this vehicle average during the last year? (Use tenths, if available.)

	Miles	Tenths
Example: 10.5 MPG should be entered as	10	5

Enter miles per gallon →	Miles 334	Tenths

Item 24 – Where was the home base of this vehicle?

350 City

351 County	352 State	353 ZIP code

	Percent
Item 25 – What percent of annual mileage was driven OUTSIDE the home base state? An estimate is acceptable.	354 %

Item 26 – 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%.)

	Percent
Trips off-the-road, little travel on public roads	360 %
Trips within a 50 mile radius of vehicle's home base	361 %
Trips within a 50–200 mile radius of vehicle's home base	362 %
Trips beyond a 200 mile radius of vehicle's home base	363 %
TOTAL – Should equal 100%	100%

Item 27a – Which of the following best describes the primary way this vehicle was operated?

401

NEVER FOR HIRE

- 1 ☐ BUSINESS USE – Operated by and for a private business (including self-employers) or a company; used in related activities of that business (including transportation of personnel) ... SKIP to item 28
- 2 ☐ 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 30
- 3 ☐ MIXED – A mixture of both business use and personal transportation

  | Percent personal transportation | 402 % |
  | Percent business | 403 % |
  } SKIP to item 28

ALWAYS FOR HIRE – ICC regulated?

411 1 ☐ YES
2 ☐ NO

- 4 ☐ MOTOR CARRIER – Operated by a company whose primary business is to provide transportation services, carrying freight belonging to others ... Complete items 27b and c below.
- 5 ☐ OWNER/OPERATOR – Operated by an independent trucker who drives vehicle for himself or on lease to a company
- 6 ☐ MIXED – A mixture of private carriage and common and/or contract carriage

  | Percent not for hire (private) | 404 % |
  | Percent for hire | 405 % |
  } Complete items 27b and c below
- 7 ☐ DAILY RENTAL OR SHORT TERM LEASE – Rented or leased out to various operators and for various activities, under daily or short term rental or lease agreements ... SKIP to item 28

b. What was the FOR HIRE jurisdiction in which vehicle operated?

406 1 ☐ Interstate
2 ☐ Intrastate
3 ☐ Local – in a single municipality, contiguous municipalities or a municipality and its suburban area; in commercial zones

c. In what type of carrier service was the vehicle involved? Enter percentage of mileage.

	Percent
407 1 ☐ Contract – offered transportation service to certain shippers under specific contracts	408 %
2 ☐ Common – offered transportation service to the general public over regular or irregular routes	409 %
3 ☐ Exempt – transported commodities or provided types of services that were exempt from Federal regulation; operated within exempt commercial zones	410 %

FORM TC-5501

TRANSPORTATION—TRUCK INVENTORY AND USE SURVEY

Item 28 – 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.

414 01 ☐ AGRICULTURAL ACTIVITIES

02 ☐ FORESTRY OR LUMBERING ACTIVITIES

03 ☐ CONSTRUCTION WORK – buildings, homes, roads, structures, etc.

04 ☐ CONTRACTOR ACTIVITIES OR SPECIAL TRADES – painting, plumbing, electrical work, masonry, carpentry, etc.

05 ☐ MANUFACTURING, REFINING, OR PROCESSING ACTIVITIES

06 ☐ WHOLESALE TRADE

07 ☐ RETAIL TRADE

08 ☐ 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.

09 ☐ UTILITIES – used to assist in operation or service of public utilities (telephone, gas, electric, etc.)

10 ☐ MINING OR QUARRY ACTIVITIES – used to assist in the extraction of natural resources

11 ☐ DAILY RENTAL – rented out, without a driver, to someone else on a daily or short-term basis

12 ☐ GOVERNMENTAL OPERATIONS

13 ☐ NOT IN USE – vehicle idle, wrecked, awaiting repair, etc., for more than 90 days

14 ☐ FOR HIRE TRANSPORTATION – including small package delivery

15 ☐ Other – *Please describe in detail*

Item 29 – 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 and while empty (backhauls, etc.). Be sure that percentages add up to 100%. (See instruction sheet for further explanation and examples.)

A. PRODUCTS, EQUIPMENT, MATERIALS, ETC.	Percentage of annual mileage
(1) Agricultural and Food Products	
(a) Live animals – cattle, horses, poultry, hogs, etc.	415 %
(b) Fresh farm products – grain, cress, flowers, nursery stock, raw milk, raw tobacco, etc.	416 %
(c) Processed foods – canned goods, prepared meats, frozen foods, beverages, dairy products, tobacco products, etc.	417 %
(2) Mining Products, Unrefined – crude oil, coal, metal ores	418 %
(3) Building Materials – gravel, sand, concrete, glass, etc. (except cut lumber – see "Lumber")	419 %
(4) Forestry, Wood, and Paper Products	420
(a) Logs and forest products – except cut lumber and fabricated wood products (see below)	%
(b) Lumber and fabricated wood products – except furniture (see (7) below)	421 %
(c) Paper and paper products	422 %
(5) Chemicals, Petroleum, and Allied Products	423
(a) Chemicals and/or drugs (including fertilizers, pesticides, cosmetics, paints, etc.)	%
(b) Petroleum and petroleum products	424 %
(c) Plastics and/or rubber products	425 %
(6) Metals and Metal Products	426
(a) Primary metal products – pipes, ingots, billets, sheets, etc. . . .	%
(b) Fabricated metal products – except machinery or transportation equipment (see below)	427 %
(c) Machinery – electrical or nonelectrical	428 %
(d) Transportation equipment (including complete vehicles) and parts	429 %
(7) Other Manufactured Products	430
(a) Furniture (wood and nonwood) and/or hardware – not involved in household moving	%
(b) Textiles and apparels – fibers, leather goods, carpets, clothing, etc.	431 %
(8) Miscellaneous	432
(a) Moving of household and office furniture – from home, offices, etc., under contract	%
(b) Miscellaneous tools and/or parts for specialized use, as in a craftsman's vehicle – traveling workshop for plumbers, carpenters, road service crews, etc.	433 %
(c) Mixed cargo, general freight	434 %
(d) Scrap, garbage, trash	435 %
(9) Other (not elsewhere classified) – *Please describe in detail*	
	436 %
	437 %
B. NO LOAD CARRIED – Vehicle empty	
TOTAL – Should equal 100%	100%

FORM TC-9502

Item 30 – At any time during the past 12 months, 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?

438 1 ☐ YES – Continue with items a and b

2 ☐ NO – Go to item 31

a. What type(s) of hazardous materials were carried by this vehicle? Mark (X) as many as apply.

439 1 ☐ Flammables or combustibles   5 ☐ Hazardous waste

2 ☐ Acids, poisons, caustics, etc.   6 ☐ Hazardous materials not listed above

3 ☐ Explosives

4 ☐ Radioactive materials

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

440 1 ☐ Below 25%   3 ☐ 50–74%

2 ☐ 25–49%   4 ☐ 75–100%

Item 31 – 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 24.

	Number
	443
Pickups, small vans	444
Straight trucks	445
Truck-tractors (power units)	446
Trailers (semi- and/or full)	447
Converter dollies	

Item 32 – REMARKS – Please use this space for any explanations that may be essential in understanding your reported data.

Item 33 – 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

TRANSPORTATION—TRUCK INVENTORY AND USE SURVEY

Approximating Unpublished Relative Standard Errors

The relative standard errors (RSEs) are presented for only the row and column totals for U.S. tables 3 through 14 and State tables 3 through 7.

The relative standard errors for an individual cell in U.S. tables can be approximated by using the appropriate two-step procedure below.

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 row or column total can be used, it is usually best to use the smallest of the two for RCT.

State tables 3 through 7

The relative standard errors for an individual cell in State tables 3 through 7 may be approximated by a similar two-step procedure.

First, calculate the standard deviation for the State table cell:

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

where:

RCT = the number of trucks in the row (or column)
CLT = the number of trucks in the cell
STT = the number of trucks in the State

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

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

Although either the row or column total can be used, it is usually best to use the smallest of the two for RCT.

Example—For a given State, there are an estimated 5.5 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) 500.3 thousand trucks in the State, (2) 110.3 thousand trucks and an estimated RSE of 7.6 percent for the "Agriculture" column, and (3) 27.7 thousand trucks and an estimated RSE of 11.2 percent for the "Multistop or walk-in" row. Since the row total of 27.7 thousand is less than the column total of 110.3 thousand, use the row figures to approximate the RSE in percent:

$$SD(5.5) = \frac{27.7 \times 11.2}{100} \sqrt{\frac{5.5(500.3 - 5.5)}{27.7\ (500.3 - 27.7)}} = 1.4$$

$$RSE(5.5) = \frac{100 \times 1.4}{5.5} = 25.5 \text{ percent}$$

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

HOW TO USE THE DATA DICTIONARY

This computer generated report documents the data contents and record layout. The data item description contains several pieces of information for each data item as follows:

ITEM IN –   An arbitrarily assigned 6 character label, followed by the starting position of the field and the length of the field. It may be a mnemonic or a numeric value indicating the location of the variable on the survey questionnaire.

DESCRIPTION –   A label describing the data item.

VALUE –   A listing of the values for the item.

DES –   A listing of the meaning of the specific value.

FOR EXAMPLE:

```
14                          ITEM IN FIPST                 C    12   2 ALPHANUMERIC ASCEI
15                          DESCRIPTION " FIPS STATE"
16                                          "P010 FIPST"
17                          VALUE (01)
18                                          DES "ALABAMA"
19                          VALUE (02)
20                                          DES "ALASKA"
21                          VALUE (04)
22                                          DES "ARIZONA"
```

NOTE: EACH ITEM IS FOLLOWED BY AN ACRONYN, TYPE OF DATA, BEGIN POSITION,
AND FIELD LENGTH (E.G.:   ITEM IN-FIRST C 12 2 ALPHANUMERIC ASCII).

$ ITEM IN-SERNUM   C 1 11 ALPHANUMERIC ASCII
        DESCRIPTION ' SERIAL NUMBER '
                        'D820-SERNUM'

  ITEM IN-FIPST   C 12 2 ALPHANUMERIC ASCII
        DESCRIPTION ' FIPS STATE'
                        'P010-FIPST'
                VALUE (01)
                        DES 'ALABAMA'
                VALUE (02)
                        DES 'ALASKA'
                VALUE (04)
                        DES 'ARIZONA'
                VALUE (05)
                        DES 'ARKANSAS'
                VALUE (06)
                        DES 'CALIFORNIA'
                VALUE (08)
                        DES 'COLORADO'
                VALUE (09)
                        DES 'CONNECTICUT'
                VALUE (10)
                        DES 'DELAWARE'
                VALUE (11)
                        DES 'DIST OF COLUMBIA'
                VALUE (12)
                        DES 'FLORIDA'
                VALUE (13)
                        DES 'GEORGIA'
                VALUE (15)
                        DES 'HAWAII'
                VALUE (16)
                        DES 'IDAHO'
                VALUE (17)
                        DES 'ILLINOIS'
                VALUE (18)
                        DES 'INDIANA'
                VALUE (19)
                        DES 'IOWA'
                VALUE (20)
                        DES 'KANSAS'
                VALUE (21)
                        DES 'KENTUCKY'
                VALUE (22)
                        DES 'LOUISIANA'
                VALUE (23)
                        DES 'MAINE'
                VALUE (24)
                        DES 'MARYLAND'
                VALUE (25)
                        DES 'MASSACHUSETTS'
                VALUE (26)
                        DES 'MICHIGAN'
                VALUE (27)
                        DES 'MINNESOTA'
                VALUE (28)
                        DES 'MISSISSIPPI'
                VALUE (29)
                        DES 'MISSOURI'
                VALUE (30)
                        DES 'MONTANA'
                VALUE (31)
                        DES 'NEBRASKA'
                VALUE (32)
                        DES 'NEVADA'
                VALUE (33)

```
                              DES 'NEW HAMPSHIRE'
                  VALUE (34)
                              DES 'NEW JERSEY'
                  VALUE (35)
                              DES 'NEW MEXICO'
                  VALUE (36)
                              DES 'NEW YORK'
                  VALUE (37)
                              DES 'NORTH CAROLINA'
                  VALUE (38)
                              DES 'NORTH DAKOTA'
                  VALUE (39)
                              DES 'OHIO'
                  VALUE (40)
                              DES 'OKLAHOMA'
                  VALUE (41)
                              DES 'OREGON'
                  VALUE (42)
                              DES 'PENNSYLVANIA'
                  VALUE (44)
                              DES 'RHODE ISLAND'
                  VALUE (45)
                              DES 'SOUTH CAROLINA'
                  VALUE (46)
                              DES 'SOUTH DAKOTA'
                  VALUE (47)
                              DES 'TENNESSEE'
                  VALUE (48)
                              DES 'TEXAS'
                  VALUE (49)
                              DES 'UTAH'
                  VALUE (50)
                              DES 'VERMONT'
                  VALUE (51)
                              DES 'VIRGINIA'
                  VALUE (53)
                              DES 'WASHINGTON'
                  VALUE (54)
                              DES 'WEST VIRGINIA'
                  VALUE (55)
                              DES 'WISCONSIN'
                  VALUE (56)
                              DES 'WYOMING'

ITEM IN-EXPANF                     C 14 6 ALPHANUMERIC ASCII
                                          (2 IMPLIED DECIMALS)
        DESCRIPTION ' EXPANSION FACTOR '
                              'D795-EXPANF'

ITEM IN-MDLYR                      C 20 2 ALPHANUMERIC ASCII
        DESCRIPTION ' TWO DIGITS REPRESENTING ACTUAL MODEL YEAR'
                              'P035-MDLYR'
                  VALUE (01)
                              DES '1983 AND 1982'
                  VALUE (02)
                              DES '1981'
                  VALUE (03)
                              DES '1980'
                  VALUE (04)
                              DES '1979'
                  VALUE (05)
                              DES '1978'
                  VALUE (06)
                              DES '1977'
                  VALUE (10)
                              DES '1976'
                  VALUE (08)
                              DES '1975'
                  VALUE (09)
                              DES '1974'
                  VALUE (10)
                              DES '1973'
                  VALUE (11)
                              DES 'PRE 1973'

$ ITEM IN-STLOWN                   C 22 1 ALPHANUMERIC ASCII
        DESCRIPTION ' OWNERSHIP OF VEHICLE              '
```

```
                              'D110-STLOWN'
             VALUE (1)
                   DES 'YES'
             VALUE (2)
                   DES 'NO'
             VALUE (ELSE)
                   DES 'NOT REPORTED'

  $ ITEM IN-OWNLES                    C 23 1 ALPHANUMERIC ASCII
        DESCRIPTION ' OWNER OR LESSEE                  '
                              'D115-OWNLES'
             VALUE (1)
                   DES 'OWNER'
             VALUE (2)
                   DES 'LESSEE'
             VALUE (ELSE)
                   DES 'NOT REPORTED'

    ITEM IN-DISPZM                    C 24 2 ALPHANUMERIC ASCII
        DESCRIPTION ' WHEN DISPOSE OF VEHICLE     '
                              'D120-DISPOZ'
             VALUE (01 THRU 12)
                   DES 'MONTH'
             VALUE (BLANK)
                   DES 'NOT REPORTED'

    ITEM IN-DISPZY                    C 26 2 ALPHANUMERIC ASCII
             VALUE (01 THRU 83)
                   DES 'YEAR'
             VALUE (ZERO AND BLANK)
                   DES 'NOT REPORTED'

  $ ITEM IN-HOWRID                    C 28 1 ALPHANUMERIC ASCII
        DESCRIPTION ' HOW DISPOSE OF VEHICLE'
                              'D125-HOWRID'
             VALUE (1)
                   DES 'SOLD IT (OR GAVE IT AWAY)'
             VALUE (2)
                   DES 'JUNKED OR SCRAPPED IT'
             VALUE (3)
                   DES 'RETURNED TO LEASING CO '
             VALUE (ELSE)
                   DES 'NOT REPORTED'

    ITEM IN-WHNACK                    C 29 2 ALPHANUMERIC ASCII
        DESCRIPTION ' WHEN OBTAIN VEHICLE
                          'D130-WHNACK'
             VALUE (00 THRU 83)
                   DES 'YEAR'
             VALUE (BLANK)
                   DES 'NOT REPORTED'

  $ ITEM IN-OBTAIN                    C 31 1 ALPHANUMERIC ASCII
        DESCRIPTION ' HOW OBTAIN VEHICLE      '
                          'D135-OBTAIN'
             VALUE (1)
                   DES 'PURCHASED IT NEW'
             VALUE (2)
                   DES 'PURCHASED IT USED'
             VALUE (3)
                   DES 'LEASED OR RENTED'
             VALUE (ELSE)
                   DES 'NOT REPORTED'

  $ ITEM IN-HOWLEA                    C 32 1 ALPHANUMERIC ASCII
        DESCRIPTION ' HOW LEASED OR RENTED          '
                          'D140-HOWLEA'
             VALUE (1)
                   DES 'WITHOUT A DRIVER'
             VALUE (2)
                   DES 'WITH A DRIVER'
             VALUE (3)
                   DES 'WITH AN OWNER-OPERATOR AS DRIVER'
             VALUE (ELSE)
                   DES 'NOT REPORTED'
```

```
$  ITEM IN-TYPLEA                    C 33 1 ALPHANUMERIC ASCII
       DESCRIPTION ' TYPE OF LEASE       '
                          'D145-TYPLEA'
          VALUE (1)
                 DES 'YES'
          VALUE (2)
                 DES 'FINANCING - NO MAINT'
          VALUE (3)
                 DES 'FINANCING - FULL MAINT'
          VALUE (4)
                 DES 'OTHER'
          VALUE (5)
                 DES 'NO'
           VALUE (ELSE)
                 DES 'NOT REPORTED'

$  ITEM IN-LEAOUT                    C 34 1 ALPHANUMERIC ASCII
       DESCRIPTION ' LEASED OR RENTED TO ANYONE          '
                          'D150-LEAOUT'
          VALUE (1)
                 DES 'YES'
          VALUE (2)
                 DES 'NO'
          VALUE (ELSE)
                 DES 'NOT REPORTED'

$  ITEM IN-HLSOUT                    C 35 1 ALPHANUMERIC ASCII
       DESCRIPTION ' HOW LEASED               '
                          'D155-HLSOUT'
          VALUE (1)
                 DES 'WITHOUT A DRIVER'
          VALUE (2)
                 DES 'WITH A DRIVER'
          VALUE (3)
                 DES 'WITH AN OWNER-OPERATOR AS DRIVER'
          VALUE (ELSE)
                 DES 'NOT REPORTED'

$  ITEM IN-TLSOUT                    C 36 1 ALPHANUMERIC ASCII
       DESCRIPTION ' TYPE OF LEASE       '
                          'D160-TLSOUT'
          VALUE (1)
                 DES 'YES'
          VALUE (2)
                 DES 'FINANCING NO MAINT'
          VALUE (3)
                 DES 'FINANCING FULL MAINT'
          VALUE (4)
                 DES 'OTHER'
          VALUE (5)
                 DES 'NO'
          VALUE (ELSE)
                 DES 'NOT REPORTED'

$  ITEM IN-BODTYP                    C 37 2 ALPHANUMERIC ASCII
       DESCRIPTION ' BODY TYPE           '
                          'D165-BODTYP'
          VALUE (01)
                 DES 'PICKUP'
          VALUE (02)
                 DES 'PANEL OR COMPACT VAN'
          VALUE (03)
                 DES 'MULTISTOP OR STEP VAN'
          VALUE (04)
                 DES 'PLATFORM WITH DEVICES'
          VALUE (05)
                 DES 'LOW BOY'
          VALUE (06)
                 DES 'BASIC PLATFORM'
          VALUE (07)
                 DES 'LIVESTOCK'
          VALUE (08)
                 DES 'INSULATED NON-REFRIG VAN'
          VALUE (09)
                 DES 'INSULATED REFRIG VAN'
          VALUE (10)
```

```
                    DES 'DROP FRAME VAN'
          VALUE (11)
                    DES 'OPEN TOP VAN'
          VALUE (12)
                    DES 'BASIC ENCLOSED VAN'
          VALUE (13)
                    DES 'BEVERAGE TRUCK'
          VALUE (14)
                    DES 'UTILITY TRUCK'
          VALUE (15)
                    DES 'WINCH OR CRANE TRUCK'
          VALUE (16)
                    DES 'WRECKER'
          VALUE (17)
                    DES 'POLE,LOGGING,PIPE TRUCK'
          VALUE (18)
                    DES 'AUTO TRANSPORT'
          VALUE (22)
                    DES 'SERVICE TRUCK'
          VALUE (23)
                    DES 'YARD TRACTOR'
          VALUE (24)
                    DES 'UTILITY (BRONCO BLAZER JEEP)'
          VALUE (25)
                    DES 'STATION WAGON BUILT ON TRK CHASSIS'
          VALUE (27)
                    DES 'OILFIELD TRUCK'
          VALUE (28)
                    DES 'CARGO CONTAINER CHASSIS'
          VALUE (29)
                    DES 'GRAIN BODY'
          VALUE (30)
                    DES 'GARBAGE TRUCK'
          VALUE (40)
                    DES 'DUMP TRUCK'
          VALUE (50)
                    DES 'TANK TRUCK FOR LIQUIDS OR GASES'
          VALUE (60)
                    DES 'TANK TRUCK FOR DRY BULK'
          VALUE (70)
                    DES 'CONCRETE MIXER'
          VALUE (80)
                    DES 'OTHER'
          VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-LENGTH                    C 39 3 ALPHANUMERIC ASCII
     DESCRIPTION ' BODY LENGTH                '
                         'D170-LENGTH'
          VALUE (BLANK)
                    DES 'NOT REPORTED'

ITEM IN-AVGWGT                    C 42 6 ALPHANUMERIC ASCII
     DESCRIPTION ' AVERAGE WEIGHT             '
                         'D175-AVGWGT'
          VALUE (BLANK)
                    DES 'NOT REPORTED'

ITEM IN-EMPWGT                    C 48 5 ALPHANUMERIC ASCII
     DESCRIPTION ' EMPTY WEIGHT              '
                         'D180-EMPWGT'
          VALUE (BLANK)
                    DES 'NOT REPORTED'

ITEM IN-MAXWGT                    C 53 6 ALPHANUMERIC ASCII
     DESCRIPTION ' MAXIMUM GROSS WGT          '
                         'D185-MAXWGT'
          VALUE (BLANK)
                    DES 'NOT REPORTED'

ITEM IN-PCARSZ                    C 59 3 ALPHANUMERIC ASCII
     DESCRIPTION ' % LESS THAN 1/2'
     'MAX CARGO SZE'
                         'D190-PCARSZ'
          VALUE (1 THRU 100)
                    DES 'LESS THAN HALF CARGO SIZE'
```

```
                    VALUE (00 AND BLANK)
                          DES 'NOT REPORTED'

ITEM IN-PCARWT                         C 62 3 ALPHANUMERIC ASCII
     DESCRIPTION ' % LESS THAN 12 '
                    'MAX CARGO WGT'
                          'D195-PCARWT'
          VALUE (1 THRU 100)
                          DES 'LESS THAN HALF CARGO WGT'
          VALUE (00 AND BLANK)
                          DES 'NOT REPORTED'

ITEM IN-NAXLES                         C 65 1 ALPHANUMERIC ASCII
     DESCRIPTION ' NO  OF AXLES ON VEHICLE            '
                          'D200-NAXLES'
          VALUE (1)
                          DES 'TWO AXLES (4 TIRES)'
          VALUE (2)
                          DES 'TWO AXLES (6 TIRES)'
          VALUE (3)
                          DES 'THREE AXLES'
          VALUE (4)
                          DES 'FOUR OR MORE AXLES'
          VALUE (ELSE)
                          DES 'NOT REPORTED'

ITEM IN-LIFTAX                         C 66 1 ALPHANUMERIC ASCII
     DESCRIPTION ' LIFTABLE AXLES ON VEHICLE'
                          'D205-LIFTAX'
          VALUE (0 THRU 5)
                          DES 'HOW MANY LIFTABLE AXLES'
          VALUE (ELSE)
                          DES 'NOT REPORTED'

ITEM IN-DRAXLS                         C 67 1 ALPHANUMERIC ASCII
     DESCRIPTION ' NO  OF DRIVING AXLES '
                          'D210-DRAXLS'
          VALUE (1)
                          DES 'ONE DRIVING AXLE'
          VALUE (2)
                          DES 'TWO DRIVING AXLE'
          VALUE (3)
                          DES 'THREE OR MORE'
          VALUE (ELSE)
                          DES 'NOT REPORTED'

ITEM IN-VEHTYP                         C 68 1 ALPHANUMERIC ASCII
     DESCRIPTION ' VEHICLE TYPE '
                          'D215-VEHTYP'
          VALUE (1)
                          DES 'STRAIGHT TRUCK'
          VALUE (2)
                          DES 'STRAIGHT TRK PULLING TRAILER(S)'
          VALUE (3)
                          DES 'TRK/TRACTOR PULLING TRAILER(S)'
          VALUE (4)
                          DES 'OTHER'
          VALUE (ELSE)
                          DES 'NOT REPORTED'

ITEM IN-TRLATT                         C 69 1 ALPHANUMERIC ASCII
     DESCRIPTION ' ATTACH TRAILERS TO VEHICLE '
                          'D220-TRLATT'
          VALUE (1)
                          DES 'YES'
          VALUE (2)
                          DES 'NO'
          VALUE (ELSE)
                          DES 'NOT REPORTED'

ITEM IN-PCTPUL                         C 70 3 ALPHANUMERIC ASCII
     DESCRIPTION ' PERCENT PULL A TRAILER '
                          'D225-PCTPUL'
          VALUE (1 THRU 100)
                          DES 'PERCENT OF TIME VEHICLE PULLED TRAILER'
          VALUE (ZERO AND ELSE)
                          DES 'NOT REPORTED'
```

```
ITEM IN-AXONTU                    C 73 1 ALPHANUMERIC ASCII
     DESCRIPTION ' AXLES ON TRAILER UNIT ATTACHED '
                     'D230-AXONTU'
          VALUE (1 THRU 4)
               DES 'NO OF AXLES ON TRAILER ATTACHED MOST FREQUENTLY'
          VALUE (ELSE)
               DES 'NOT REPORTED'

ITEM IN-LOADWT                    C 74 6 ALPHANUMERIC ASCII
     DESCRIPTION ' LOADED WEIGHT OF TRAILER '
                     'D235-LOADWT'
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-LAXTRL                    C 80 1 ALPHANUMERIC ASCII
     DESCRIPTION ' LIFTABLE AXLES ON TRAILER(S) '
                     'D240-LAXTRL'
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-SINGLE                    C 81 1 ALPHANUMERIC ASCII
     DESCRIPTION ' SEMI-TRAILER WITH TT '
                     'D245-SINGLE'
          VALUE (1)
               DES 'ONE AXLE ON TRAILER'
          VALUE (2)
               DES 'TWO AXLES ON TRAILER'
          VALUE (3)
               DES 'THREE OR MORE AXLES'
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-DOUBLE                    C 82 1 ALPHANUMERIC ASCII
     DESCRIPTION ' TWO TRAILERS WITH TT '
                     'D250-DOUBLE'
          VALUE (1)
               DES 'THREE AXLES ON TWO TRAILERS'
          VALUE (2)
               DES 'FOUR AXLES ON TWO TRAILERS'
          VALUE (3)
               DES 'FIVE AXLES ON TWO TRAILERS'
          VALUE (4)
               DES 'SIX OR MORE AXLES ON TWO TRAILERS'
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-TRIPLE                    C 83 1 ALPHANUMERIC ASCII
     DESCRIPTION ' THREE TRAILERS WITH TT '
                     'D255-TRIPLE'
          VALUE (1)
               DES 'FIVE AXLES ON THREE TRAILERS'
          VALUE (2)
               DES 'SIX AXLES ON THREE TRAILERS'
          VALUE (3)
               DES 'SEVEN AXLES ON THREE TRAILERS'
          VALUE (4)
               DES 'EIGHT OR MORE AXLES ON THREE TRAILERS'
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-STTRFT                    C 84 1 ALPHANUMERIC ASCII
     DESCRIPTION ' STRAIGHT TRUCK-FULL TRAILER '
                     'D260-STTRFT'
          VALUE (1)
               DES 'TWO AXLES ON TRAILER'
          VALUE (2)
               DES 'THREE AXLES ON TRAILER'
          VALUE (3)
               DES 'FOUR OR MORE AXLES ON TRAILER'
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-OTHTRL                    C 85 1 ALPHANUMERIC ASCII
     DESCRIPTION ' OTHER TRAILER ARRANGEMENT '
                     'D265-OTHTRL'
          VALUE (9)
```

```
                        DES 'DESCRIBE THE NO OF TRAILERS'
                            'AND AXLES ON TRAILERS'
        VALUE (BLANK)
                        DES 'NOT REPORTED'

ITEM IN-CABTYP                   C 86 1 ALPHANUMERIC ASCII
     DESCRIPTION ' CAB TYPE '
                          'D270-CABTYP'
          VALUE (1)
                    DES 'CAB FORWARD OF ENGINE'
          VALUE (2)
                    DES 'CAB OVER ENGINE'
          VALUE (3)
                    DES 'SHORT HOOD'
          VALUE (4)
                    DES 'MEDIUM HOOD'
          VALUE (5)
                    DES 'LONG HOOD'
          VALUE (6)
                    DES 'CAB BESIDE ENGINE'
          VALUE (7)
                    DES 'OTHER'
          VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-ENGTYP                   C 87 1 ALPHANUMERIC ASCII
     DESCRIPTION ' FUEL TYPE '
                          'D275-ENGTYP'
          VALUE (1)
                    DES 'GASOLINE'
          VALUE (2)
                    DES 'DIESEL'
          VALUE (3)
                    DES 'LPG'
          VALUE (4)
                    DES 'OTHER'
          VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-ENGSZE                     C 88 1 ALPHANUMERIC ASCII
     DESCRIPTION ' NUMBER OF CYLINDERS '
                          'D280-ENGSZE'
          VALUE (1)
                    DES '4 CYLINDERS'
          VALUE (2)
                    DES '6 CYLINDERS'
          VALUE (3)
                    DES '8 CYLINDERS'
          VALUE (4)
                    DES 'OTHER'
          VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-HRSPWR                     C 89 3 ALPHANUMERIC ASCII
     DESCRIPTION ' HORSEPOWER '
                          'D300-HRSPWR'
          VALUE (BLANK)
                    DES 'NOT REPORTED'

ITEM IN-TRNSMS                   C 92 1 ALPHANUMERIC ASCII
     DESCRIPTION ' TYPE OF TRANSMISSION '
                          'D305-TRNSMS'
          VALUE (1)
                    DES 'MANUAL'
          VALUE (2)
                    DES 'AUTOMATIC'
          VALUE (ELSE)
                    DES 'NOT REPORTED'


ITEM IN-BRAKES                     C 93 1 ALPHANUMERIC ASCII
     DESCRIPTION ' TYPE OF BRAKES '
                          'D310-BRAKES'
          VALUE (1)
                    DES 'HYDRAULIC'
          VALUE (2)
```

```
                    DES 'HYDRAULIC WITH POWER ASSIST'
          VALUE (3)
                    DES 'AIR'
          VALUE (ELSE)
                    DES 'NOT REPORTED'

   ITEM IN-AERODV                    C 94 2 ALPHANUMERIC ASCII
      DESCRIPTION ' AERODYNAMIC DEVICES '
                        'D315-AERODV'
          VALUE (01)
                    DES 'AERODYNAMIC FEATURES'
          VALUE (BLANK)
                    DES 'NOT REPORTED'

   ITEM IN-AXLRAT                    C 96 2 ALPHANUMERIC ASCII
      DESCRIPTION ' AXLES OR DRIVE RATIO '
                        'D320-AXLRAT'
          VALUE (02)
                    DES 'AXLE OR DRIVE'
          VALUE (BLANK)
                    DES 'NOT REPORTED'

   ITEM IN-ECOENG                    C 98 2 ALPHANUMERIC ASCII
      DESCRIPTION ' FUEL ECONOMY ENGINE '
                        'D325-ECOENG'
          VALUE (03)
                    DES 'FUEL ECONOMY'
          VALUE (BLANK)
                    DES 'NOT REPORTED'

   ITEM IN-REFLCT                    C 100 2 ALPHANUMERIC ASCII
      DESCRIPTION ' REFLECTIVE MATERIALS '
                        'D330-REFLCT'
          VALUE (04)
                    DES 'REFLECTIVE MATERIALS'
          VALUE (BLANK)
                    DES 'NOT REPORTED'

   ITEM IN-RADIAL                    C 102 2 ALPHANUMERIC ASCII
      DESCRIPTION ' RADIAL TIRES '
                        'D335-RADIAL'
          VALUE (05)
                    DES 'RADIAL TIRES'
          VALUE (BLANK)
                    DES 'NOT REPORTED'

   ITEM IN-GOVNOR                    C 104 2 ALPHANUMERIC ASCII
      DESCRIPTION ' ROAD SPEED GOVERNOR '
                        'D340-GOVNOR'
          VALUE (06)
                    DES 'ROAD SPEED GOVERNOR'
          VALUE (BLANK)
                    DES 'NOT REPORTED'

   ITEM IN-VARFAN                    C 106 2 ALPHANUMERIC ASCII
      DESCRIPTION ' VARIABLE FAN DRIVES '
                        'D345-VARFAN'
          VALUE (07)
                    DES 'VARIABLE FAN DRIVES'
          VALUE (BLANK)
                    DES 'NOT REPORTED'

   ITEM IN-OTHDEV                    C 108 2 ALPHANUMERIC ASCII
      DESCRIPTION ' OTHER FUEL CONSERVATION DEVICES '
                        'D350-OTHDEV'
          VALUE (08)
                    DES 'OTHER FUEL CONSERVATION FEATURES'
          VALUE (BLANK)
                    DES 'NOT REPORTED'

   ITEM IN-PWRSTR                    C 110 2 ALPHANUMERIC ASCII
      DESCRIPTION ' POWER STEERING '
                        'D355-PWRSTR'
          VALUE (09)
                    DES 'POWER STEERING'
          VALUE (BLANK)
```

```
                              DES 'NOT REPORTED'

ITEM IN-AIRCON                   C 112 2 ALPHANUMERIC ASCII
     DESCRIPTION ' AIR CONDITIONING '
                          'D360-AIRCON'
          VALUE (10)
               DES 'AIR CONDITIONING'
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-ENGRET                   C 114 2 ALPHANUMERIC ASCII
     DESCRIPTION ' ENGINE RETARDER '
                          'D365-ENGRET'
          VALUE (11)
               DES 'ENGINE RETARDER'
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-4WHDR                    C 116 2 ALPHANUMERIC ASCII
     DESCRIPTION ' 4-WHEEL DRIVE '
                          'D370-4WHDR'
          VALUE (12)
               DES '4-WHEEL DRIVE'
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-FRNTWH                   C 118 2 ALPHANUMERIC ASCII
     DESCRIPTION ' FRONT-WHEEL DRIVE '
                          'D375-FRNTWH'
          VALUE (13)
               DES 'FRONT-WHEEL DRIVE'
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-GMSELF                   C 120 1 ALPHANUMERIC ASCII
     DESCRIPTION ' GENERAL MAINTENANCE YOURSELF '
                          'D380-GMSELF'
          VALUE (1)
               DES 'YOURSELF'
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-GMCOMP                   C 121 1 ALPHANUMERIC ASCII
     DESCRIPTION ' GENERAL MAINTENANCE '
                    'BY COMPANYS MAINTE-'
                    'NANCE FACILITIES '
                          'D385-GMCOMP'
          VALUE (2)
        DES ' YOUR COMPANYS OWN MAINT'
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-GMDEAL                   C 122 1 ALPHANUMERIC ASCII
     DESCRIPTION 'DEALERSHIPS SERVICE DEPT'
                    'GENERAL MAINTENANCE BY '
                          'D390-GMDEAL'
          VALUE (3)
               DES 'DEALSHIP SERV DEPT'
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-GMLEAS                   C 123 1 ALPHANUMERIC ASCII
     DESCRIPTION ' LEASING COMPANY GENERAL '
                    'MAINTENANCE BY'
                          'D395-GMLEAS'
          VALUE (4)
               DES 'LEASING CO '
          VALUE (BLANK)
               DES 'NOT REPORTED'

ITEM IN-GMGARG                   C 124 1 ALPHANUMERIC ASCII
     DESCRIPTION ' INDEPENDENT GARAGE'
                    'OR PRIVATE MECHANIC '
                          'D400-GMGARG'
          VALUE (5)
               DES 'INDEPENDENT GARAGE'
          VALUE (BLANK)
               DES 'NOT REPORTED'
```

```
ITEM IN-GMDIST                    C 125 1 ALPHANUMERIC ASCII
    DESCRIPTION ' GENERAL MAINTENANCE'
                'BY COMPONENT  DISTRIBUTORSHIP '
                        'D405-GMDIST'
          VALUE (6)
                DES 'COMPONENT DISTRIBUTORSHIP'
    VALUE (BLANK)
                DES 'NOT REPORTED'

ITEM IN-GMOTHR                    C 126 1 ALPHANUMERIC ASCII
    DESCRIPTION ' GENERAL MAINTENANCE BY OTHERS '
                        'D410-GMOTHR'
          VALUE (7)
                DES 'OTHER'
          VALUE (BLANK)
                DES 'NOT REPORTED'

ITEM IN-OVSELF                    C 127 1 ALPHANUMERIC ASCII
    DESCRIPTION ' MAJOR OVERHAULS BY YOURSELF '
                        'D415-OVSELF'
          VALUE (1)
                DES 'YOURSELF'
          VALUE (BLANK)
                DES 'NOT REPORTED'

ITEM IN-OVCOMP                    C 128 1 ALPHANUMERIC ASCII
    DESCRIPTION ' MAJOR OVERHAULS BY '
                'COMPANYS MAINT FACILITIES '
                        'D420-OVCOMP'
          VALUE (2)
                DES 'YOUR COMPS OWN MAINT '
          VALUE (BLANK)
                DES 'NOT REPORTED'

ITEM IN-OVDEAL                    C 129 1 ALPHANUMERIC ASCII
    DESCRIPTION ' MAJOR OVERHAULS BY '
                ' DEALERSHIPS SERVICE DEPT '
                        'D425-OVDEAL'
          VALUE (3)
                DES 'DEALERSHIP SERV DEPT '
          VALUE (BLANK)
                DES 'NOT REPORTED'

ITEM IN-OVLEAS                    C 130 1 ALPHANUMERIC ASCII
    DESCRIPTION ' MAJOR OVERHAULS BY '
                ' LEASING COMPANY'
                        'D430-OVLEAS'
          VALUE (4)
                DES 'LEASING COMP'
          VALUE (BLANK)
                DES 'NOT REPORTED'

ITEM IN-OVGARG                    C 131 1 ALPHANUMERIC ASCII
    DESCRIPTION ' MAJOR OVERHAULS BY '
                ' INDEPENDENT GARAGE '
                        'D435-OVGARG'
          VALUE (5)
                DES 'INDEPENDENT GARAGE'
          VALUE (BLANK)
                DES 'NOT REPORTED'

ITEM IN-OVDIST                    C 132 1 ALPHANUMERIC ASCII
    DESCRIPTION ' MAJOR OVERHAULS BY OTHERS '
                ' COMPONENT  DISTRIBUTORSHIP '
          VALUE (BLANK)
                DES 'NOT REPORTED'
                        'D440-OVDIST'
          VALUE (6)
                DES 'COMPONENT DISTRIBUTORSHIP'

ITEM IN-OVOTHR                    C 133 1 ALPHANUMERIC ASCII
    DESCRIPTION ' MAJOR OVERHAULS BY OTHER '
                        'D445-OVOTHR'
          VALUE (7)
                DES 'OTHER'
          VALUE (BLANK)
                DES 'NOT REPORTED'
```

```
ITEM IN-ANNMIL                      C 134 7 ALPHANUMERIC ASCII
     DESCRIPTION ' ANNUAL MILES '
                         'D450-ANNMIL'
       VALUE (ZERO AND BLANK)
             DES 'NOT REPORTED'

ITEM IN-LTMIL                       C 141 7 ALPHANUMERIC ASCII
     DESCRIPTION ' LIFETIME MILES '
                         'D455-LTMIL'
       VALUE (ZERO AND BLANK)
             DES 'NOT REPORTED'

ITEM IN-MPG                         C 148 3 ALPHANUMERIC ASCII
     DESCRIPTION ' MILES PER GALLON '
                         'D460-MPG'
       VALUE (ZERO AND BLANK)
             DES 'NOT REPORTED'

ITEM IN-BASTAT                      C 151  2 ALPHANUMERIC ASCII
     DESCRIPTION ' BASE OF OPERATION STATE '
                         'D475-BASTAT'
             DES 'SEE APPENDIX G'
       VALUE (BLANK)
             DES 'NOT REPORTED'

ITEM IN-POBAST                      C 153  3 ALPHANUMERIC ASCII
     DESCRIPTION ' PERCENT OF MILES OUTSIDE'
                  ' HOME BASE STATE'
                         'D485-POBAST'
       VALUE (0 THRU 100)
             DES '% OF ANNUAL MILES DRIVEN OUTSIDE HOME BASE'
       VALUE (ZERO AND BLANK)
             DES 'NOT REPORTED'

ITEM IN-POFFRD                      C 156  3 ALPHANUMERIC ASCII
     DESCRIPTION ' PERCENT OF MILES TRAVELED '
                  ' OFF THE ROAD '
                         'D490-POFFRD'
       VALUE (1 THRU 100)
             DES 'TRIPS OFF ROAD'
       VALUE (ZERO AND BLANK)
             DES 'NOT REPORTED'

ITEM IN-PLOCAL                      C 159  3 ALPHANUMERIC ASCII
     DESCRIPTION ' PERCENT OF MILES TRAVELED '
                  ' WITHIN A 50 MILE RADIUS '
                         'D495-PLOCAL'
       VALUE (1 THRU 100)
             DES 'TRIPS WITHIN 50 MILE RADIUS'
       VALUE (ZERO AND BLANK)
             DES 'NOT REPORTED'

ITEM IN-PSHORT                      C 162  3 ALPHANUMERIC ASCII
     DESCRIPTION ' PERCENT OF MILES TRAVELED '
                  ' WITHIN A 50-200 MILE RADIUS '
                         'D500-PSHORT'
       VALUE (1 THRU 100)
             DES 'TRIPS WITHIN 50-200 MILES RADIUS'
       VALUE (ZERO AND BLANK)
             DES 'NOT REPORTED'

ITEM IN-PLONG                       C 165  3 ALPHANUMERIC ASCII
     DESCRIPTION ' PERCENT OF MILES TRAVELED '
                  ' BEYOND A 200 MILE RADIUS '
                         'D505-PLONG'
       VALUE (1 THRU 100)
             DES 'TRIPS BEYOND 200 MILE RADIUS'
       VALUE (ZERO AND BLANK)
             DES 'NOT REPORTED'

ITEM IN-OPCLAS                      C 168 1 ALPHANUMERIC ASCII
     DESCRIPTION ' CLASS OF OPERATOR '
                         'D510-OPCLAS'
       VALUE (1 )
             DES 'BUSINESS USE'
       VALUE (2)
```

```
                    DES 'PERSONAL TRANSPORTATION'
            VALUE (3)
                    DES 'MIXED'
            VALUE (4)
                    DES 'MOTOR CARRIER'
            VALUE (5)
                    DES 'OWNER/OPERATOR'
            VALUE (6)
                    DES 'MIXED (MIXTURE OF PRIVATE CARRIAGE AND COMMON)'
            VALUE (7)
                    DES 'DAILY RENTAL'
            VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-AOPTYP                    C 169   14 ALPHANUMERIC ASCII
      DESCRIPTION ' OPERATION TYPE-ALPHA '
                      'D515-AOPTYP'
                    DES 'OPERATION TYPE'
            VALUE (BLANK)
                    DES 'NOT REPORTED'

ITEM IN-PPTRAN                    C 183   3 ALPHANUMERIC ASCII
      DESCRIPTION ' PERCENT PERSONAL TRANS '
                      'D520-PPTRAN'
            VALUE (1 THRU 100)
                    DES '% PERSONAL TRANSPORTATION'
            VALUE (ZERO AND BLANK)
                    DES 'NOT REPORTED'

ITEM IN-PBUS                     C 186  3 ALPHANUMERIC ASCII
      DESCRIPTION ' PERCENT BUSINESS '
                      'D525-PBUS'
            VALUE (1 THRU 100)
                    DES '% BUSINESS'
            VALUE (ZERO AND BLANK)
                    DES 'NOT REPORTED'

ITEM IN-ICCREG                    C 189  1 ALPHANUMERIC ASCII
      DESCRIPTION ' ICC REGULATED '
                      'D530-ICCREG'
            VALUE (1)
                    DES 'YES'
            VALUE (2)
                    DES 'NO'
            VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-PNOTFH                    C 190   3 ALPHANUMERIC ASCII
      DESCRIPTION ' PERCENT NOT FOR HIRE '
                      'D535-PNOTFH'
            VALUE (1 THRU 100)
                    DES '% NOT FOR HIRE'
            VALUE (ZERO AND BLANK)
                    DES 'NOT REPORTED'

ITEM IN-PFORHR                    C 193   3 ALPHANUMERIC ASCII
      DESCRIPTION ' PERCENT FOR HIRE '
                      'D540-PFORHR'
            VALUE (1 THRU 100)
                    DES '% FOR HIRE'
            VALUE (ZERO AND BLANK)
                    DES 'NOT REPORTED'

ITEM IN-JURISD                    C 196 1 ALPHANUMERIC ASCII
      DESCRIPTION ' JURISDICTION SERVED '
                      'D545-JURISD'
            VALUE (1)
                    DES 'INTERSTATE'
            VALUE (2)
                    DES 'INTRASTATE'
            VALUE (3)
                    DES 'LOCAL'
            VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-JURSDA                    C 197   10 ALPHANUMERIC ASCII
      DESCRIPTION ' JURISDICTION SERVED-ALPHA '
```

```
                          'D550-JURSDA'
                     DES 'JURISDICTION SERVED'
              VALUE (BLANK)
                     DES 'NOT REPORTED'

ITEM IN-TYPCAR                    C 207  1 ALPHANUMERIC ASCII
     DESCRIPTION ' KIND OF CARRIER SERVICE '
                          'D555-TYPCAR'
              VALUE (1)
                     DES 'CONTRACT'
              VALUE (2)
                     DES 'COMMON'
              VALUE (3)
                     DES 'EXEMPT'
              VALUE (ELSE)
                     DES 'NOT REPORTED'

ITEM IN-ALCAR                     C 208  8 ALPHANUMERIC ASCII
     DESCRIPTION ' KIND OF CARRIER SERVICE-ALPHA '
                          'D560-ALCAR'
                     DES 'KIND OF CARRIER'
              VALUE (BLANK)
                     DES 'NOT REPORTED'

ITEM IN-PCONTR                    C 216  3 ALPHANUMERIC ASCII
     DESCRIPTION ' PERCENT CONTRACT CARRIER '
                          'D565-PCONTR'
              VALUE (1 THRU 100)
                     DES '% CONTRACT CARRIER'
              VALUE (BLANK AND ZERO)
                     DES 'NOT REPORTED'

ITEM IN-PCOMON                    C 219  3 ALPHANUMERIC ASCII
     DESCRIPTION ' PERCENT COMMON CARRIER '
                          'D570-PCOMON'
              VALUE (1 THRU 100)
                     DES '% COMMON CARRIER'
              VALUE (BLANK AND ZERO)
                     DES 'NOT REPORTED'

ITEM IN-PEXEMT                    C 222  3 ALPHANUMERIC ASCII
     DESCRIPTION ' PERCENT EXEMPT CARRIER '
                          'D575-PEXEMT'
              VALUE (1 THRU 100)
                     DES '% EXEMPT CARRIER'
              VALUE (BLANK AND ZERO)
                     DES 'NOT REPORTED'

ITEM IN-MAJUSE                    C 225  2 ALPHANUMERIC ASCII
     DESCRIPTION ' MAJOR USE '
                          'D580-MAJUSE'
              VALUE (01)
                     DES 'AGRICULTURAL ACTIVITIES'
              VALUE (02)
                     DES 'FORESTRY OR LUMBERING'
              VALUE (03)
                     DES 'CONSTRUCTION WORK'
              VALUE (04)
                     DES 'CONTRACTOR ACTIVITIES'
              VALUE (05)
                     DES 'MANUF,REFINING,PROCESSING'
              VALUE (06)
                     DES 'WHOLESALE TRADE'
              VALUE (07)
                     DES 'RETAIL TRADE'
              VALUE (08)
                     DES 'PERSONAL SERVICE'
              VALUE (09)
                     DES 'UTILITIES'
              VALUE (10)
                     DES 'MINING OR QUARRY'
              VALUE (11)
                     DES 'DAILY RENTAL'
              VALUE (12)
                     DES 'GOVERNMENTAL OPERATIONS'
              VALUE (13)
```

```
                    DES 'NOT IN USE'
          VALUE (14)
                    DES 'FOR HIRE TRANSPORTATION'
          VALUE (15)
                    DES 'OTHER'
          VALUE (20)
                    DES 'PERSONAL TRANSPORTATION'
          VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-HAZMAT                    C 227 1 ALPHANUMERIC ASCII
    DESCRIPTION ' CARRY HAZARDOUS MATERIAL '
                    'D585-HAZMAT'
          VALUE (1)
                    DES 'YES'
          VALUE (2)
                    DES 'NO'
          VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-HMFLAM                    C 228 1 ALPHANUMERIC ASCII
    DESCRIPTION ' FLAMMABLES OR COMBUSTIBLES '
                    'D590-HMFLAM'
          VALUE (1)
                    DES 'FLAMMABLES OR COMBUSTIBLES'
          VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-HMACID                    C 229 1 ALPHANUMERIC ASCII
    DESCRIPTION ' ACIDS,POISONS,CAUSTICS '
                    'D595-HMACID'
          VALUE (2)
                    DES 'ACIDS,POISONS,CAUSTICS'
          VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-HMEXPL                    C 230 1 ALPHANUMERIC ASCII
    DESCRIPTION ' EXPLOSIVES '
                    'D600-HMEXPL'
          VALUE (3)
                    DES 'EXPLOSIVES'
          VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-HMRAD                     C 231 1 ALPHANUMERIC ASCII
    DESCRIPTION ' RADIOACTIVE MATERIALS '
                    'D605-HMRAD'
          VALUE (4)
                    DES 'RADIOACTIVE MATERIALS'
          VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-HMWAST                    C 232 1 ALPHANUMERIC ASCII
    DESCRIPTION ' HAZARDOUS WASTE '
                    'D610-HMWAST'
          VALUE (5)
                    DES 'HAZARDOUS WASTE'
          VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-HMOTHR                    C 233 1 ALPHANUMERIC ASCII
    DESCRIPTION ' HAZARDOUS MATERIALS NOT'
                ' LISTED ABOVE '
                    'D615-HMOTHR'
          VALUE (6)
                    DES 'HAZARDOUS MATERIALS NOT LISTED'
          VALUE (ELSE)
                    DES 'NOT REPORTED'

ITEM IN-PHAZMT                    C 234 1 ALPHANUMERIC ASCII
    DESCRIPTION ' PERCENT OF ANNUAL MILES'
                ' CARRYING HAZARDOUS MATERIALS '
                    'D620-PHAZMT'
          VALUE (1)
                    DES 'BELOW 25 %'
          VALUE (2)
```

```
                        DES  '25-49 %'
              VALUE (3)
                        DES  '50-74 %'
              VALUE (4)
                        DES  '75-100 %'
              VALUE (BLANK)
                        DES 'NOT REPORTED'

   ITEM IN-LVANML                 C 235  3 ALPHANUMERIC ASCII
        DESCRIPTION ' PRODUCTS CARRIED-LIVE ANIMAL '
                        'D625-LVANML'
              VALUE (1 THRU 100)
                        DES 'LIVE ANIMALS'
              VALUE (ELSE)
                        DES 'NOT REPORTED'

   ITEM IN-FARMPD                 C 238  3  ALPHANUMERIC ASCII
        DESCRIPTION ' PRODUCTS CARRIED-FRESH FARM PRODUCTS '
                        'D630-FARMPD'
              VALUE (1 THRU 100)
                        DES 'FRESH FARM PRODUCTS'
              VALUE (ELSE)
                        DES 'NOT REPORTED'

   ITEM IN-PRFOOD                 C 241  3 ALPHANUMERIC ASCII
        DESCRIPTION ' PROCESSED FOOD '
                        'D631-PRFOOD'
              VALUE (1 THRU 100)
                        DES 'PROCESSED FOODS'
              VALUE (ELSE)
                        DES 'NOT REPORTED'

   ITEM IN-MINPRO                 C 244  3 ALPHANUMERIC ASCII
        DESCRIPTION ' MINING PRODUCTS '
                        'D635-MINPRO'
              VALUE (1 THRU 100)
                        DES 'MINPRO'
              VALUE (ELSE)
                        DES 'NOT REPORTED'

   ITEM IN-BLDGMA                 C 247  3 ALPHANUMERIC ASCII
        DESCRIPTION ' BUILDING MATERIALS '
                        'D640-BLDGMA'
              VALUE (1 THRU 100)
                        DES 'BLDGMA'
              VALUE (ELSE)
                        DES 'NOT REPORTED'

   ITEM IN-LOGPRO                 C 250  3 ALPHANUMERIC ASCII
        DESCRIPTION ' LOGS AND FOREST PRODUCTS '
                        'D645-LOGPRO'
              VALUE (1 THRU 100)
                        DES 'LOGPRO'
              VALUE (ELSE)
                        DES 'NOT REPORTED'

   ITEM IN-LUMBER                 C 253  3 ALPHANUMERIC ASCII
        DESCRIPTION ' LUMBER AND FABRICATED '
                        ' WOOD PRODUCTS '
                        'D650-LUMBER'
              VALUE (1 THRU 100)
                        DES 'LUMBER'
              VALUE (ELSE)
                        DES 'NOT REPORTED'

   ITEM IN-PAPER                  C 256  3 ALPHANUMERIC ASCII
        DESCRIPTION ' PAPER AND PAPER PRODUCTS '
                        'D655-PAPER'
              VALUE (1 THRU 100)
                        DES 'PAPER'
              VALUE (ELSE)
                        DES 'NOT REPORTED'

   ITEM IN-CHEM                   C 259  3 ALPHANUMERIC ASCII
        DESCRIPTION ' CHEMICALS AND/OR DRUGS '
                        'D660-CHEM'
```

```
            VALUE (1 THRU 100)
                  DES 'CHEM'
            VALUE (ELSE)
                  DES 'NOT REPORTED'

  ITEM IN-PETROL                    C 262   3 ALPHANUMERIC ASCII
      DESCRIPTION ' PETROLEUM AND PETROLEUM PRODUCTS '
                        'D666-PETROL'
            VALUE (1 THRU 100)
                  DES 'PETROL'
            VALUE (ELSE)
                  DES 'NOT REPORTED'

  ITEM IN-PLASTK                    C 265   3 ALPHANUMERIC ASCII
      DESCRIPTION ' PLASTICS ANDOR RUBBER PRODUCTS '
                        'D670-PLASTK'
            VALUE (1 THRU 100)
                  DES 'PLASTK'
            VALUE (ELSE)
                  DES 'NOT REPORTED'

  ITEM IN-PRIMTL                    C 268   3 ALPHANUMERIC ASCII
      DESCRIPTION ' PRIMARY METAL PRODUCTS '
                        'D675-PRIMTL'
            VALUE (1 THRU 100)
                  DES 'PRIMTL'
            VALUE (ELSE)
                  DES 'NOT REPORTED'

  ITEM IN-FABMTL                    C 271   3 ALPHANUMERIC ASCII
      DESCRIPTION ' FABRICATED METAL PRODUCTS '
                        'D680-FABMTL'
            VALUE (1 THRU 100)
                  DES 'FABMTL'
            VALUE (ELSE)
                  DES 'NOT REPORTED'

  ITEM IN-MACHNE                    C 274   3 ALPHANUMERIC ASCII
      DESCRIPTION ' MACHINERY-ELECTRICAL OR NON-ELECTRICAL '
                        'D685-MACHNE'
            VALUE (1 THRU 100)
                  DES 'MACHNE'
            VALUE (ELSE)
                  DES 'NOT REPORTED'

  ITEM IN-TEQUIP                    C 277   3 ALPHANUMERIC ASCII
      DESCRIPTION ' TRANSPORTATION EQUIPMENT AND PARTS '
                        'D690-TEKUIP'
            VALUE (1 THRU 100)
                  DES 'TEQUIP'
            VALUE (ELSE)
                  DES 'NOT REPORTED'

  ITEM IN-FURN                      C 280   3 ALPHANUMERIC ASCII
      DESCRIPTION ' FURNITURE OR HARDWARE '
                        'D695-FURN'
            VALUE (1 THRU 100)
                  DES 'FURN'
            VALUE (ELSE)
                  DES 'NOT REPORTED'

  ITEM IN-TEXTIL                    C 283   3 ALPHANUMERIC ASCII
      DESCRIPTION ' TEXTILES AND APPARELS '
                        'D700-TEXTIL'
            VALUE (1 THRU 100)
                  DES 'TEXTIL'
            VALUE (ELSE)
                  DES 'NOT REPORTED'

  ITEM IN-MOVING                    C 286   3 ALPHANUMERIC ASCII
      DESCRIPTION ' MOVING OF HOUSEHOLD '
                  ' AND OFFICE FURNITURE '
                        'D705-MOVING'
            VALUE (1 THRU 100)
                  DES 'MOVING'
            VALUE (ELSE)
                  DES 'NOT REPORTED'
```

```
ITEM IN-TOOLS                    C 289  3 ALPHANUMERIC ASCII
     DESCRIPTION ' MISCELLANEOUS TOOLS '
                 ' AND OR PARTS FOR USE IN '
                 ' CRAFTSMANS VECHICLE '
                      'D710-TOOLS'
          VALUE (1 THRU 100)
               DES 'TOOLS'
          VALUE (ELSE)
               DES 'NOT REPORTED'

ITEM IN-MXDCAR                   C 292  3 ALPHANUMERIC ASCII
     DESCRIPTION ' MIXED CARGO GENERAL FREIGHT '
                      'D715-MXDCAR'
          VALUE (1 THRU 100)
               DES 'MXDCAR'
          VALUE (ELSE)
               DES 'NOT REPORTED'

ITEM IN-REFUSE                   C 295  3 ALPHANUMERIC ASCII
     DESCRIPTION ' SCRAP GARBAGE TRASH '
                      'D720-REFUSE'
          VALUE(1 THRU 100)
               DES 'REFUSE'
          VALUE (ELSE)
               DES 'NOT REPORTED'

ITEM IN-OTHER                    C 298  3 ALPHANUMERIC ASCII
     DESCRIPTION ' OTHER '
                      'D725-OTHER'
          VALUE (1 THRU 100)
               DES 'OTHER'
          VALUE (ELSE)
               DES 'NOT REPORTED'

ITEM IN-NOLOAD                   C 301  3 ALPHANUMERIC ASCII
     DESCRIPTION ' NO LOAD CARRIED '
                      'D730-NOLOAD'
          VALUE (1 THRU 100)
               DES 'NOLOAD'
          VALUE (ELSE)
               DES 'NOT REPORTED'

ITEM IN-NONUSE                   C 304  3 ALPHANUMERIC ASCII
     DESCRIPTION ' VEHICLE NOT IN USE '
                      'D735-NONUSE'
          VALUE (1 THRU 100)
               DES 'NOT IN USE'
          VALUE (ELSE)
               DES 'NOT REPORTED'

ITEM IN-PRSTRN                   C 307  3 ALPHANUMERIC ASCII
     DESCRIPTION ' PERSONAL TRANSPORTATION '
                      'D740-PRSTRN'
          VALUE (1 THRU 100)
               DES 'PERSONAL TRANSPORTATION'
          VALUE (ELSE)
               DES 'NOT REPORTED'

ITEM IN-FLTSZC                   C 310  1 ALPHANUMERIC ASCII
     DESCRIPTION ' FLEET SIZE                    '
                 ' AT BASE OF OPERATION'
                      'D767-FLTSZC'
          VALUE (1)
                    DES '1' VEHICLE
          VALUE (2)
                    DES '2 TO 5' VEHICLES
          VALUE (3)
                    DES '6 TO 19'VEHICLES
          VALUE (4)
                     DES '20 TO 99' VEHICLES
          VALUE (5)
                    DES '100 TO 499' VEHICLES
          VALUE (6)
                    DES '500 AND OVER' VEHICLES
          VALUE (BLANK)
               DES 'NOT REPORTED'
```

```
ITEM IN-AXLRE                C 311  2 ALPHANUMERIC ASCII
     DESCRIPTION ' AXLE RECODE '
                      'D770-AXLRE'
        VALUE (01 THRU 45)
              DES '(SEE APPENDIX E )'
        VALUE (BLANK)
              DES 'NOT REPORTED'

ITEM IN-PRNPRO               C 313  2 ALPHANUMERIC ASCII
     DESCRIPTION ' PRINCIPAL PRODUCT CARRIED '
                      'D775-PRNPRO'
        VALUE (01 THRU 25)
              DES '(SEE APPENDIX F )'
        VALUE (BLANK)
              DES 'NOT REPORTED'

ITEM IN-AREAOP               C 315  1 ALPHANUMERIC ASCII
     DESCRIPTION ' AREA OF OPERATION '
                      'D780-AREAOP'
        VALUE (1)
              DES 'OFF THE ROAD'
        VALUE (2)
              DES 'WITHIN 50 MILES'
        VALUE (3)
              DES '50-200 MILES'
        VALUE (4)
              DES 'BEYOND 200 MILES'
        VALUE (BLANK)
              DES 'NOT REPORTED OR 1-WAY RENTAL'

ITEM IN-TIUGVW               C 316  2 ALPHANUMERIC ASCII
     DESCRIPTION ' TIU GROSS VEHICLE WEIGHT CODE '
                      'D785-TIUGVW'
        VALUE (01)
              DES 'LESS THAN 6,001'
        VALUE (02)
              DES '6,001 TO 10,000'
        VALUE (03)
              DES '10,001 TO 14,000'
        VALUE (04)
              DES '14,001 TO 16,000'
        VALUE (05)
              DES '16,001 TO 19,500'
        VALUE (06)
              DES '19,501 TO 26,000'
        VALUE (07)
              DES '26,001 TO 33,000'
        VALUE (08)
              DES '33,001 TO 40,000'
        VALUE (09)
              DES '40,001 TO 50,000'
        VALUE (10)
              DES '50,001 TO 60,000'
        VALUE (11)
              DES '60,001 TO 80,000'
        VALUE (12)
              DES '80,001 TO 100,000'
        VALUE (13)
              DES '100,001 TO 130,000'
        VALUE (14)
              DES '130,001 OR MORE'
        VALUE (BLANK)
              DES 'NOT REPORTED'

ITEM IN-VEHSZC               C 318  1 ALPHANUMERIC ASCII
     DESCRIPTION ' VEHICLE SIZE CLASS CODE '
                      'D790-VEHSZC'
        VALUE (1 )
              DES 'LIGHT - GVW LESS THAN 10,001'
        VALUE (2 )
              DES 'MEDIUM - GVW 10,001-19,500'
        VALUE (3 )
              DES 'LIGHT-HEAVY - GVW 19,501-26,000'
        VALUE (4 )
              DES 'HEAVY-HEAVY - GVW 26,001 OR MORE'
        VALUE (BLANK)
              DES 'NOT REPORTED'
```

```
ITEM IN-IMPUTF                    C 319 36 ALPHANUMERIC ASCII
      DESCRIPTION ' IMPUTE FLAGS '
                      'D800-IMPUTF'
          VALUE (SEE APPENDIX B)
ITEM (BLANKS)                     C 358 3 ALPHANUMERIC ASCII
      DESCRIPTION 'FIELD IS SPACE FILLED'
```

NUMBER OF TRUCKS BY STATE

TIU STATES	FIPS STATE CODE	EXPANDED NUMBER OF TRUCKS	1982 FHWA
		(000)	(000)
Alabama	01	686.1	814.2
Alaska	02	125.7	110.0
Arizona	04	575.7	615.4
Arkansas	05	539.6	500.7
California	06	3512.5	3512.3
Colorado	08	687.1	634.0
Connecticut	09	247.2	131.4
Delaware	10	84.1	77.3
Dist. of Col.	11	19.2	11.4
Florida	12	1004.1	1448.4
Georgia	13	890.4	869.9
Hawaii	15	120.0	50.5
Idaho	16	300.0	324.7
Illinois	17	1374.3	1335.1
Indiana	18	907.9	965.3
Iowa	19	589.7	649.0
Kansas	20	619.2	647.5
Kentucky	21	648.0	769.3
Louisiana	22	729.8	756.6
Maine	23	183.3	189.4
Maryland	24	443.0	446.6
Massachusetts	25	433.8	415.4
Michigan	26	1174.4	1163.3
Minnesota	27	731.1	895.6
Mississippi	28	409.7	362.4
Missouri	29	861.6	847.8
Montana	30	252.2	296.4
Nebraska	31	391.7	396.4
Nevada	32	183.9	184.3
New Hampshire	33	146.1	103.2
New Jersey	34	546.2	436.8
New Mexico	35	356.7	395.5
New York	36	1139.5	937.4
North Carolina	37	1021.2	1065.9
North Dakota	38	239.4	263.3
Ohio	39	1283.5	1244.0
Oklahoma	40	786.2	950.8
Oregon	41	645.2	580.0
Pennsylvania	42	1306.9	1033.7
Rhode Island	44	73.7	72.3
South Carolina	45	463.4	428.5
South Dakota	46	201.6	226.0
Tennessee	47	767.2	569.4
Texas	48	2892.8	3206.5
Utah	49	277.9	315.3
Vermont	50	84.1	75.7
Virginia	51	777.6	516.6
Washington (St.)	53	869.5	901.3
West Virginia	54	330.7	320.5
Wisconsin	55	696.3	558.7
Wyoming	56	203.6	199.4
TOTALS		33,834.6	33,821.9

Guide to Impute Flags

Flag(s)	Explanation of Flag	Position on File (Character)
I03A	Sets STLOWN = 1	321
I03C, D	Sets STLOWN = 2	321
I03E	Sets the two right most digits of DISPOZ = 99	321
I03AA	Sets LEAOUT = 2	322
I03AD	Sets LEAOUT = 1	322
I03AF	Sets HLSOUT and TLSOUT = blank	322
I03AH	Sets LEAOUT = 1	322
I03AI	Sets HLSOUT = HOWLEA	322
	TLSOUT = TYPLEA = blank	322
	HOWLEA and TYPLEA = blank	322
I03AJ	Sets HOWLEA AND TYPLEA = blank	322
I03AK	Sets HOWLEA and TYPLEA = blank	322
I03AL	Sets HOWLEA and TYPLEA = blank	322
	Sets LEAOUT = 1	322
I03AM	Sets OBTAIN = 3	322
	Sets LEAOUT = 2	322
I03AN	Sets LEAOUT = 2	322
	Sets HLSOUT and TLSOUT = blank	322
	Sets OBTAIN = 3	322
I03A0	Sets OBTAIN = 3	322
I03AP	Sets OBTAIN = 3	322
	Sets HLSOUT and TLSOUT = blank	322
I03AQ	Sets LEAOUT = 2	322
	Sets OBTAIN = 1	322

Flag(s)	Explanation of Flag	Position on File (Character)
I03AR	Sets OBTAIN = 2	322
I03AV	Sets LEAOUT = 2	322
I03AW	Sets LEAOUT = 2	322
	HLSOUT = HOWLEA	322
	TLSOUT = TYPLEA	322
	HOWLEA and TYPLEA = blank	322
	HLSOUT and TLSOUT = blank	322
I03AY	Sets HLSOUT and TLSOUT = blank	322
I03AZ	Sets HLSOUT and TLSOUT = blank	322
	Sets LEAOUT = 2	322
I04B	Moves WHNACK to DISPOZ	323
	Moves DISPOZ to WHNACK	323
I04C	Moves DISPOZ to MDLYR	323
I05AB	Sets VEHTYP = 2	325
I05AC	Sets STTRFT = blank.	325
I05AF	Set VEHTYP = 1	325
I05AI	Moves (SINGLE, DOUBLE, TRIPLE OR OTHTRL) 1 to STTRFT. (Moves the first field that is not blank to STTRFT blanks other fields.	325
I05AK	Moves STTRFT + 1 to SINGLE, blanks other fields	325
I05AP	Sets VEHTYP = 1	325
I05AQ	Sets VEHTYP = 2	325
I05AR	Sets VEHTYP = 3	325
I06A	Sets TRLATT = 1, VEHTYP = 1, and NAXLES = 1	326
I06B, C	Sets TRLATT and VEHTYP = 1	326
I06D	Sets TRLATT = 1, and VEHTYP = 2	326

Flag(s)	Explanation of Flag	Position on File (Character)
I06E	Sets TRLATT = 2, and VEHTYP = 1	326
I06F	Sets VEHTYP = 1, and NAXLES = 2	326
I06G	Sets VEHTYP = 1, and NAXLES =1	326
I06I	Sets VEHTYP = 2, and NAXLES =2	326
I06J	TRLATT = 2, VEHTYP = 1, AND NAXLES = 1	326
I06AA	Sets DRAXLS = 2	327
I06AB	Sets DRAXLS = 1	327
I06AD	Recodes NAXLES using Table 6AA	327
I06AE	Records DRAXLS using Table 6AA	327
I07A	Sets JURISD and TYPCAR = blank	328
I07D	Sets PRNPRO = 24	328
	Sets MAJUSE - 20	328
	Sets JURISD and TYPCAR = blank	328
I07E	Sets PRNPRO = 24	328
	Sets MAJUSE = 20	328
I07G	Assigns a value for OPCLAS using the highest value from either PPTRAN or PBIZ	328
I08B	Sets MAJUSE = 1	329
I08D	Sets JURISD and TYPCAR = blank	329
I08F	Sets TYPCAR = PCONTR or PCOMON or PEXEMT	329
I08J, L, O	Sets OPCLAS = 1	329
I08M	Sets OPCLAS = 7. Sets JURISD and TYPCAR = blank	329
I11A	Imputes ENGTYPE and ENGSZE using table 11a	332

Flag(s)	Explanation of Flag	Position on File (Character)
I11C, F	Imputes ENGTYPE using Table 11a	332
I12B	Moves HRSPWR to CID and sets HRSPWR = blank	333
I12F	Computes HRSPWR	333
I13A, B, D	Converts CUSICC into CID	334
I14A	Distributes the difference among the PRNPRO categories when they are not equal to 100 percent	335 – 345
I16A, C	Sets PRNPRO = NONUSE	347
I17AA	Imputes a value for PHAZMT	330
I17AB	Sets PHAZMT = 1	330
I17AE	Sets PHAZMT = 2	330
I17AF	Imputes a value for PHAZMT, and a HAZMAT category	330
I17AG	Sets MAZMAT = 2	330
I17AH	Imputes a value for a HAZMAT category	330
I17AJ	Sets PHAZMT = 2	330
I17AK	Imputes a value for PHAZMT and sets HAZMAT = 1	330
I17AL	Deletes responses to HAZMAT categories	330
I17AM, N	Sets HAZMAT = 1	330
I17AO	Sets PHAZMT = 2 and HAZMAT = 1	330
I17AP	Deletes response in PHAZMT when PHAZMT is not equal to 1, 2, 3, or 4	330
I17AQ	Imputes a HAZMAT category and sets HAZMAT = 1	330
I17AR	Deletes response in PHAZMT when PHAZMT is equal to 1, 2, 3 or 4	330

Flag(s)	Explanation of Flag	Position on File (Character)
I17A	Sets OPCLAS = 5	348
	Sets JURISD = 2	348
	Sets TYPCAR = 3	348
	Sets PEXEMT = 100	348
I17B	Sets OPCLAS = 5	348
	Sets JURISD = 1	348
	Sets TYPCAR = 3	348
	Sets PEXEMT = 100	348
I17D	Sets OPCLAS = 4	348
	Sets JURISD = 1	348
	Sets PCOMON = 100	348
I17E	Sets OPCLAS = 7	348
	Sets JURISD = blank	348
	Sets TYPCAR = blank	348
I17G	Imputes OPCLAS, JURISD, and TYPCAR based on the alphabetic description	348
I17H	Sets OPCLAS = 7	348
	Sets JURISD and TYPCAR = blank	348
I18C, M	Switches values in AVGWGT and EMPWGT	349
I18F, K	Switches values in AVGWGT and MAXWGT	349
I18I	Switches values in MAXWGT and EMPWGT	349
I18J, L	Switches values in AVGWGT, MAXWGT, EMPWGT	349
I19A	Sets VEHSZC = 1	350

Flag(s)	Explanation of Flag	Position on file (Character)
I19B	Sets VEHSZC = 2	350
I19C	Sets VEHSZC = 3	350
I19D	Sets VEHSZC = 4	350
I19E	Sets VEHSZC = 1, Sets TIUGVW = PKGVW	350
I19F	Sets 2 in VEHSZC, Sets TIUGVW = PKGVW	350
I19G	Sets 3 in VEHSZC, Sets TIUGVW = PKGVW	350
I19H	Sets 4 in VEHSZC, Sets TIUGVW = PKGVW	350
I22A, B	Imputes AREAOP	353
I22C	Distributes the difference among AREAOP categories when not equal to 100 percent, and then imputes AREAOP.	353
I26A	Imputes ANNMIL when ANNMIL = LTMIL	357
I26B	Imputes ANNMIL and LTMIL	357
I26C	Imputes LTMIL when ANNMIL is reported	357
I26D	Imputes ANNMIL when LTMIL is reported	357

EXPANSION FACTORS

TIU States	stratum 1	stratum 2	stratum 3	stratum 4	stratum 5
Alabama	2807.61	1637.51	116.69	117.82	30.66
Alaska	826.00	743.76	14.79	22.47	10.99
Arizona	2195.11	1895.31	70.05	17.61	18.25
Arkansas	1988.90	1097.20	57.32	66.96	35.19
California	7224.50	4342.18	155.83	142.63	84.29
Colorado	2284.25	2765.36	79.32	37.81	25.42
Connecticut	1364.42	1108.31	44.65	31.86	17.99
Delaware	568.88	345.06	20.42	27.48	7.41
Dist. of Col.	206.64	257.50	8.81	6.66	11.11
Florida	4073.24	4027.21	108.47	52.85	47.94
Georgia	3511.54	2388.29	106.57	64.31	70.04
Hawaii	540.08	509.22	22.00	13.71	6.00
Idaho	1123.81	931.78	52.19	48.37	18.13
Illinois	4334.73	5368.81	153.51	84.01	71.23
Indiana	3296.54	2259.93	136.61	47.93	63.80
Iowa	2408.37	1639.59	100.32	29.53	47.37
Kansas	2744.66	1354.06	118.14	46.74	29.57
Kentucky	2475.33	2423.81	104.30	108.11	21.35
Louisiana	3843.26	2346.74	70.84	59.30	26.16
Maine	750.68	867.39	25.24	26.84	14.68
Maryland	2049.61	1960.56	87.32	34.64	27.97
Massachusetts	2701.83	2194.06	105.53	73.01	14.48
Michigan	4525.43	3463.81	76.76	28.48	40.01
Minnesota	2665.76	2054.23	102.90	70.72	33.81
Mississippi	1849.77	1017.68	72.91	61.93	47.81
Missouri	3101.26	3102.96	93.16	64.19	25.67
Montana	1249.01	854.50	44.45	35.94	15.63
Nebraska	1636.17	1027.12	100.13	45.67	27.55
Nevada	807.63	987.22	21.22	16.80	7.53
New Hampshire	846.40	782.08	30.20	22.00	25.03
New Jersey	2781.41	2685.64	99.59	77.01	65.84
New Mexico	1326.88	1263.27	42.51	25.33	52.83
New York	4636.68	4052.30	114.84	74.90	58.05
North Carolina	2990.68	2809.39	201.97	94.60	38.86
North Dakota	1076.47	431.15	102.43	39.02	20.90
Ohio	4522.70	4114.96	144.22	133.88	24.85
Oklahoma	2790.09	3452.44	112.14	52.69	68.65
Oregon	2998.70	2578.50	62.39	39.71	44.32
Pennsylvania	4107.00	3784.91	147.33	80.49	53.12
Rhode Island	590.03	600.93	17.50	12.79	11.10
South Carolina	1898.21	1651.26	50.08	28.15	19.40
South Dakota	963.69	559.88	47.64	16.40	20.84
Tennessee	2589.80	2381.39	107.28	50.49	43.57
Texas	7474.20	5660.47	147.99	120.66	90.55
Utah	1157.70	1070.15	48.20	26.14	17.20
Vermont	405.36	270.12	15.24	14.03	5.63
Virginia	3088.63	2798.81	104.99	47.20	36.59
Washington (St.)	3183.65	2595.07	88.36	37.73	43.98
West Virginia	1334.49	1365.96	48.09	29.15	8.15
Wisconsin	2583.05	2597.31	108.84	45.61	42.02
Wyoming	1046.34	950.34	29.17	21.99	42.73

NUMBER OF RECORDS ON TAPE BY STRATUM

TIU States	1	2	3	4	5
Alabama	172	53	617	272	402
Alaska	100	41	462	169	177
Arizona	183	64	584	254	399
Arkansas	210	55	608	212	357
California	328	172	1634	355	1077
Colorado	182	70	730	262	392
Connecticut	85	77	694	253	380
Delaware	80	63	459	186	323
Dist. of Col.	28	40	269	88	18
Florida	141	76	782	291	491
Georgia	174	63	762	245	457
Hawaii	126	73	474	223	214
Idaho	188	50	521	225	224
Illinois	171	72	1102	413	598
Indiana	159	80	1044	386	655
Iowa	149	58	969	413	555
Kansas	146	64	857	324	522
Kentucky	178	43	690	219	353
Louisiana	140	50	684	236	456
Maine	157	44	608	253	232
Maryland	107	71	697	330	435
Masssachusetts	71	69	601	291	409
Michigan	151	107	940	460	823
Minnesota	168	71	859	456	496
Mississippi	166	41	480	181	277
Missouri	183	54	918	401	593
Montana	140	48	591	200	192
Nebraska	140	58	790	286	431
Nevada	153	45	524	199	192
New Hampshire	100	48	475	206	200
New Jersey	76	76	740	309	504
New Mexico	192	49	555	218	206
New York	111	105	1147	480	542
North Carolina	208	63	853	297	560
North Dakota	119	53	724	258	200
Ohio	153	91	1035	358	798
Oklahoma	205	32	654	209	283
Oregon	150	46	705	300	472
Pennsylvania	159	106	1176	484	762
Rhode Island	59	42	531	193	166
South Carolina	177	47	676	232	434
South Dakota	137	50	640	222	356
Tennessee	210	51	673	222	425
Texas	281	85	1230	375	929
Utah	157	53	569	229	348
Vermont	124	81	523	206	196
Virginia	153	64	866	343	514
Washington(St.)	183	76	718	259	375
West Virginia	156	57	694	279	386
Wisconsin	147	72	845	375	489
Wyoming	128	44	558	173	132

AXLRE (Axle Recode) Chart

Vehicle Identification	TIUS Mnemonics						AXLRE code
	VEHTYP code	NAXLES code	STTRFT code	SINGLE code	DOUBLE code	TRIPLE code	
Single Unit Truck							
2 axle	1	1 or 2	–	–	–	–	01
3 axle	1	3	–	–	–	–	02
4 or more axles	1	4	–	–	–	–	03
Single Unit Truck Pulling a Full Trailer							
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
Truck-Tractor Pulling One Semi-Trailer							
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	
Truck-Tractor Pulling Three Trailers							
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						AXLRE code
	VEHTYP code	NAXLES code	STTRFT code	SINGLE code	DOUBLE code	TRIPLE code	
Truck-Tractor Pulling One Semi-Trailer con't.							
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
Truck-Tractor Pulling Two Trailers							
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

TIUS Mnemonics

Identification	VEHTYP Code	NAXLES Code	STTRFT Code	SINGLE Code	DOUBLE Code	TRIPLE Code	AXQNTU Code	AXLRS Code
Single Unit Truck Pulling a Semi-Trailer								
2 - Axle Single Unit Truck								
1 axle on trailer	2	1 or 2	–	–	–	–	1	46
2 axles on trailer	2	1 or 2	–	–	–	–	2	47
3 axles on trailer	2	1 or 2	–	–	–	–	3	48
2 - Axle Large Single Unit Truck								
1 axle on trailer	2	1 or 2	–	1	–	–	–	49
2 axles on trailer	2	1 or 2	–	2	–	–	–	50
3 or more axles on trailer	2	1 or 2	–	3	–	–	–	51
3- Axle Large Single Unit Pulling a Semi-Trailer								
1 axle on trailer	2	3	–	1	–	–	–	52
2 axles on trailer	2	3	–	2	–	–	–	53
3 or more axles on trailer	2	3	–	3	–	–	–	54
4 or More Axle Large Single Unit Truck								
1 axle on trailer	2	4	–	1	–	–	–	55
2 axles on trailer	2	4	–	2	–	–	–	56
3 or more axles on trailer	2	4	–	3	–	–	–	57

APPENDIX F

Principal Products

Revised 11/19/85

Codes

Farm products..	01
Live animals..	02
Mining products.......................................	03
Logs and other forest products.......................	04
Lumber and fabricated wood products..................	16
Processed foods......................................	05
Textile mill products................................	06
Building materials...................................	07
Household goods.......................................	08
Furniture or hardware................................	09
Paper products.......................................	10
Chemicals..	11
Petroleum..	12
Plastics and/or rubber...............................	21
Primary metal products...............................	13
Fabricated metal products............................	14
Machinery, elect. or non-elect.......................	15
Transportation equipment.............................	17
Scrap, refuse, or garbage............................	18
Mixed cargoes..	19
Craftman's equipment.................................	20
Personal transportation..............................	24
No load carried......................................	23
Not in use...	25
Other..	22
Not reported...	blank

APPENDIX F

Principal Products

	Codes
Farm products............................	2
Live animals.............................	1
Mining products..........................	4
Logs and other forest products...........	6
Lumber and fabricated wood products......	7
Processed foods..........................	3
Textile mill products....................	17
Building materials.......................	5
Household goods..........................	18
Furniture or hardware....................	16
Paper products...........................	8
Chemicals................................	9
Petroleum................................	10
Plastics and/or rubber...................	11
Primary metal products...................	12
Fabricated metal products................	13
Machinery, elect or nonelect.............	14
Transportation equipment.................	15
Scrap, refuse, or garbage................	21
Mixed cargoes............................	20
Craftsman's equipment....................	19
Personal transportation..................	24
No load carried..........................	23
Not in use...............................	25
Other....................................	22
Not reported.............................	blank

ALPHABETIC STATE CODES

UNITED STATES	STATE ABBR
Alabama	AL
Alaska	AK
Arizona	AZ
Arkansas	AR
California	CA
Colorado	CO
Connecticut	CT
Delaware	DE
Dist. of Columbia	DC
Florida	FL
Georgia	GA
Hawaii	HI
Idaho	ID
Illinois	IL
Indiana	IN
Iowa	IA
Kansas	KS
Kentucky	KY
Louisiana	LA
Maine	ME
Maryland	MD
Massachusetts	MA
Michigan	MI
Minnesota	MN
Mississippi	MS
Missouri	MO
Montana	MT
Nebraska	NE
Nevada	NV
New Hampshire	NH
New Jersey	NJ
New Mexico	NM
New York	NY
North Carolina	NC
North Dakota	ND
Ohio	OH
Oklahoma	OK
Oregon	OR
Pennsylvania	PA
Rhode Island	RI
South Carolina	SC
South Dakota	SD
Tennessee	TN
Texas	TX
Utah	UT
Vermont	VT
Virginia	VA
Washington	WA
West Virginia	WV
Wisconsin	WI
Wyoming	WY

APPENDIX H

1982 TRUCK INVENTORY AND USE SURVEY
PUBLIC USE TAPE RECORD LAYOUT

ITEM		CHARACTERS	FIELD NAME
1	Serial Number	1-11	D-820
2.	FIPS State	12-13	P-010
3.	Expansion Factor	14-19	D-795
4.	Model Year	20-21	P-035
5.	Ownership	22	D-110
6.	Owner or Lessee	23	D-115
7.	Sold	24-27	D-120
8.	How Disposed	28	D-125
9.	Acquisition	29-30	D-130
10.	How Obtained	31	D-135
11.	Leased from Others	32	D-140
12.	Type Lease/Options	33	D-145
13.	Leased to Others	34	D-150
14.	How Leased	35	D-155
15.	Type Lease/Options	36	D-160
16.	Body Type	37-38	D-165
17.	Body Length	39-41	D-170
18.	Average Weight	42-47	D-175
19.	Empty Weight	48-52	D-180
20.	Maximum Gross Weight	53-58	D-185
21.	Percent < 1/2 Maximum Cargo Size	59-61	D-190
22.	Percent < 1/2 Maximum Cargo Weight	62-64	D-195
23.	Number of Axles on Vehicles	65	D-200
24.	Liftable Axles	66	D-205
25.	Driving Axles	67	D-210
26.	Vehicle Type	68	D-215
27.	Trailers Attached to Vehicle	69	D-220
28.	Percent Pull Trailer	70-72	D-225
29.	Axles on Trailer	73	D-230
30.	Loaded Weight of Trailer	74-79	D-235
31.	Liftable Axles on Trailer	80	D-240
32.	Truck Type and Axles Arrangements		
	Truck Tractor with Semitrailers	81	D-245
	Truck Tractor with Two Trailers	82	D-250
	Truck Tractor with Three Trailers	83	D-255
	Straight Truck with Full Trailers	84	D-260
	Other Trailer Arrangements	85	D-265

ITEM	CHARACTERS	FIELD NAME
33. Cab Type	86	D-270
34. Engine		
Type (Fuel)	87	D-275
Size (Cylinders)	88	D-280
Horsepower	89-91	D-300
35. Transmission Type	92	D-305
36. Brake Type	93	D-310
37. Vehicle Equipment		
Aerodynamic Devices	94-95	D-315
Axle or Drive Ratio	96-97	D-320
Fuel Economy Engine	98-99	D-325
Reflective Materials	100-101	D-330
Radial Tires	102-103	D-335
Road Speed Governor	104-105	D-340
Variable Fan Drives	106-107	D-345
Other Fuel Conservation Features	108-109	D-350
Power Steering	110-111	D-355
Air Conditioning	112-113	D-360
Engine Retarder	114-115	D-365
4-Wheel Drive	116-117	D-370
38. Front Wheel Drive	118-119	D-375
39. General Maintenance by:		
Yourself	120	D-380
Company's Own Maintenance	121	D-385
Dealership's Service Department	122	D-390
Leasing Company	123	D-395
Independent Garage or Private Mechanic	124	D-400
Component Distributorship	125	D-405
Others	126	D-410
40. Major Overhauls by:		
Yourself	127	D-415
Company's Own Maintenance	128	D-420
Dealership's Service Department	129	D-425
Leasing Company	130	D-430
Independent Garage or Private Mechanic	131	D-435
Component Distributorship	132	D-440
Others	133	D-445