

**TECHNICAL DOCUMENTATION<sup>1</sup>  
for the  
1990 NATIONWIDE TRUCK ACTIVITY AND  
COMMODITY SURVEY  
PUBLIC USE FILE**

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**MASTER**

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## OVERVIEW

The Nationwide Truck Activity and Commodity Survey (NTACS) provides detailed activity data for a sample of trucks covered in the 1987 Truck Inventory and Use Survey (TIUS) for days selected at random over a 12-month period ending in 1990. The NTACS was conducted by the U.S. Bureau of the Census for the U.S. Department of Transportation (DOT). A Public Use File for the NTACS was developed by Oak Ridge National Laboratory (ORNL) under a reimbursable agreement with the DOT. The content of the Public Use File and the design of the NTACS are described in this document.

### Background

Informed public decisionmaking requires an understanding of the relationships among transportation activity, passenger flows, commodity movements, logistical requirements of economic activities, international trade, safety, and the condition of the Nation's transportation system to:

- identify characteristics of current and anticipated transportation system use that affect interstate commerce, international trade, and the cost of personal and business logistics;
- assess the effects of proposed Federal legislation and Federal and State regulations on the Nation's transportation system;
- evaluate the cost effectiveness of alternative levels of investment in existing transportation infrastructure and new transportation technologies;
- determine whether user charges are adequate and equitable;
- analyze and oversee operating restrictions on transportation services (such as truck size and weight limits) that affect interstate commerce, international trade, and safety; and
- make federal programs responsive to national goals beyond mobility and safety, such as economic development, environmental protection, social justice, and defense.

The requisite understanding can no longer be based solely on past experience since transportation services are responding in unprecedented and often unpredictable ways to deregulation, new transportation technologies, the growth of international trade, structural changes in the economy, and other factors. Data are needed to identify emerging and desired relationships among patterns of transportation system use, the availability and quality of transportation facilities and services, demographic conditions, the economy, and the environment, especially since these relationships are central to the themes of the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA).

The U.S. Department of Transportation (DOT) has turned to surveys based on motor vehicles as a major source of data to meet many of these critical information needs. Vehicle-based surveys provide a keystone for the DOT's understanding because motor vehicles carry the largest and least-known portion of passenger trips and freight shipments, and because highways provide local access to harbors, railroad yards, pipeline terminals, airports, and other facilities for intermodal transportation. Vehicle registration files provide a sampling frame that is generally not limited by the economic activity of establishments or the household status of individuals.

The Truck Inventory and Use Survey (TIUS) is the oldest national, vehicle-based survey of freight transportation. The TIUS is performed by the U.S. Bureau of the Census as part of its quinquennial Census of Transportation, and collects extensive information on the typical and year-long use of trucks, vans, and minivans. The TIUS sample is drawn from vehicle registration files, and represents all vehicles except buses, automobiles, mobile homes, motorcycles, and vehicles owned by governments. The 1987 TIUS sample includes information on approximately 105,000 vehicles.

While the TIUS provides critical information on the composition and typical use of the Nation's trucking fleet, it does not provide a detailed picture of the temporal and geographic variation in truck use. This variation has major implications for multimodal transportation policies involving highway investment requirements, equitable tax policy, effective safety programs, and similar issues. The Federal Highway Administration (FHWA), the Federal Railroad Administration (FRA), and the Office of the Secretary of Transportation (OST) decided to cosponsor a follow-on to the Census Bureau's TIUS in order to capture the temporal and geographic variation in truck use and to measure other detailed attributes of trucking that were beyond the scope of the TIUS. The follow-on became known as the NTACS, and was conducted by the U.S. Bureau of the Census over a 12-month period that ended in 1990.

The Nationwide Truck Activity and Commodity Survey (NTACS) collected one- and two- day snapshots of a vehicle's activity for a sample of TIUS respondents. The NTACS measured detailed trip characteristics and other information for a large sample of TIUS respondents on randomly sampled days over a 12-month period. The NTACS was designed to provide far more detailed information than is possible on the TIUS. This additional detail is central to understanding the variability in typical vehicle use, relationships between trucking and economic activity, and the role of trucking in intermodal transportation.

Once the NTACS was designed and questionnaires were in the field, the DOT turned to the transportation experts at Oak Ridge National Laboratory (ORNL) to supplement the data collection expertise of the Census Bureau. ORNL used its experience with analysis and model development for DOT, the Department of Defense, and the Department of Energy-as

well as with production of the annual *Transportation Energy Data Book*-to create and disseminate data products from the NTACS. ORNL is producing a series of reports based on analyses of the NTACS and related data in addition to the NTACS Public Use File.

ORNL developed the NTACS Public Use File by creating linkages among data items for ease of use, by conducting consistency checks and minor data edits, and by identifying data items of tolerable quality for inclusion. ORNL adjusted expansion factors for nonresponse, and certain items were imputed for item nonresponse. Selected data items for sample day one were also annualized.

The NTACS was one of the most ambitious efforts undertaken by anyone to measure trucking activity, and tackled measurement problems with little previous experience for guidance. The questionnaire became quite large to accommodate the diversity of trucking operations that would be encountered and to provide insights on a broad range of issues of keen interest to both government and industry.

Plans are moving forward to conduct a second survey as a follow-on to the Census Bureau's 1992 TIUS. Because the Census Bureau and the DOT are implementing the 1993 Commodity Flow Survey, the commodity component will not be required for the upcoming 1994 survey. The second survey will be known as the Nationwide Truck Activity Survey (NTAS) and focus on collecting sample day truck activity. In the spirit of continual improvement, DOT, the Census Bureau, and ORNL will make use of lessons learned from the 1990 NTACS to conduct a more efficient and effective NTAS resulting in higher quality data. As a part of the learning process, data user comments are a key to understanding the problems that must be overcome and the improvements that should be made. User comments are welcomed and should be directed to ORNL's Center for Transportation Analysis using the form at the end of this document.

### ***IMPORTANT***

A limited number of data elements from the Census Bureau's 1987 TIUS have been provided on the NTACS Public Use File to merge vehicle characteristics and annual use patterns with trip and shipment characteristics on sampled days. However, the resulting data in the NTACS Public Use File should be used with caution, both because of the file's complexity and because of response rate problems on the NTACS. The complexity of the NTACS contributed to low unit and item response rates. While some data checks, edits, and imputations were done by Census and ORNL, the current data base still includes known inconsistencies. The NTACS data should be only used in conjunction with other data of proven reliability.

#### **1990 NTACS Universe Description:**

The universe for the Nationwide Truck Activity and Commodity Survey (NTACS) is the following: All trucks operating during the NTACS period (October 29, 1989--October 27, 1990) and registered in one of the 50 states or the District of Columbia on July 1, 1987, and operating in 1987 as estimated by the 1987 Truck Inventory and Use Survey (TIUS). The sample is a stratified probability sample of 44,002 trucks. It is important to note that the NTACS universe does not include trucks in the United States during the NTACS period which are three years old and younger. The data were collected over a one year span, referred to as the NTACS period, starting approximately October 29, 1989, and ending approximately October 27, 1990. Because the NTACS period covers most of 1990, we refer to this data collection effort as the "1990 NTACS."

#### **Estimated 1990 NTACS Universe Size:**

43,375,733 trucks (See Table G of Appendix A.)

#### **1990 NTACS Sample Size:**

44,002 trucks (See Table E of Appendix A.)

#### **Estimated 1990 NTACS Sample Respondents Reporting Annual and General Data:**

22,044 trucks (See Table H of Appendix A.)

#### **Estimated 1990 NTACS Sample Respondents Reporting Sample Day One Data:**

9,794 trucks (See Table I of Appendix A.)

### **Subject Matter Description:**

This national public use file contains individual responses of trucks and nonresponse records from the 1990 NTACS and matching records from the Census Bureau's 1987 TIUS. The TIUS data content provides actual and recorded responses for the physical and operational characteristics of trucks, truck activity, and unaggregated levels of truck use, while the NTACS provides detailed information on the characteristics and activity patterns of trucks collecting trip-specific information for specific sample days from commodity and non-commodity-carrying trucks. The NTACS physical and operational characteristics collected include vehicle ownership, operating status and disposition, total miles and places of operation, sources of fuel, vehicle type, body type, and trailer axle configuration. Sample day information includes mileage, fuel consumption, tolls paid, vehicle dimensions, and hours of operation. Trip-specific information includes departure times; destinations; types of stops; departure, pickup and delivery weights; and types of products picked up and delivered.

### **Geographic Coverage:**

The state in which the truck is registered and state(s) in which the truck operated have been converted to a Census Geographic Division.

### **Technical Description:**

The 1990 NTACS Public Use File contains partial information on 22,044 trucks. Not all trucks have the same quantity of data due to NTACS unit and item nonresponse. The data for a single truck are distributed among three data subfiles as follows:

- Subfile 1. Imputed General and Annual Truck Data Items Collected by NTACS for 22,044 trucks.
- Subfile 2. Imputed Sample Day One Truck Data Collected by NTACS for 9,794 trucks.
- Subfile 3. 1987 TIUS Truck Data for 22,044 trucks. (There are no TIUS data for 213 of these trucks.)

Each of the 22,044 trucks has a unique identification number (TRUKID) which serves to link the data for a single truck among the three subfiles.

### **Tape:**

The data are contained on a 6250 BPI standard label tape in EBCDIC format.

Tape Name: *NTACSP*

Subfile Names:

1. *NTACSP.FILE1.DATA*
2. *NTACSP.FILE2.DATA*
3. *NTACSP.FILE3.DATA*



**Questions:**

Please direct all questions concerning the 1990 NTACS Public Use File to:

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Energy Division  
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## SECTION 1

## THE 1990 NTACS PUBLIC USE FILE DATA DICTIONARY

## I. Introduction

Each NTACS sample truck has a record which has been partitioned among a maximum of three subfiles (subrecords):

**Subfile 1 Imputed General and Annual Truck Data Collected by NTACS and RI Codes**

**Subfile 2      Imputed Sample Day 1 Truck Data Collected by NTACS and RI Codes**

### Subfile 3      1987 TIUS Truck Data and RI Codes

What follows for each file is a listing of the data items, a definition for each data item, and the RI code for each data item.

For each data item, its RI Code (Response and Imputation Codes) indicates whether the information shown is reported, corrected, edited, or imputed either by an analyst or by computer-driven edit and correction. The following values for response and imputation codes are possible and represent actions taken by the U. S. Bureau of the Census (Codes: A, C, D, I, P, U) or Oak Ridge National Laboratory (Code: O).

"A"	DATA ITEM CORRECTED OR BLANKED BY AN ANALYST
"C"	COMPUTER GENERATED DURING EDIT OR ANALYSIS
"D"	DATA ITEMS DELETED BY ANALYST
"I"	COMPUTER EDIT IMPUTATION OR SPECIAL "HSPWR"/"CID" IMPUTATION
"O"	IMPUTED BY Oak Ridge National Laboratory
"P"	POLK CONTROL FILE CORRECTION
"U"	UNREASONABLE REPORTED "HSPWR"/"CID"

A blank in the RI Code fields indicates that the data item remains unchanged from the original reported data. If all trucks had no changes for a single data item, then there is no RI Code for that data item. THE SIZE OF EACH RI CODE FIELD IS 1 DIGIT.

First the variable TRUKID, which is the truck identifier, is defined.

**TRUKID** =                                                      

↑	↑	↑			
<b>DIV</b>	<b>HAUL</b>	<b>SAMTYP</b>	<b>The number of the sample truck in the given NTACS stratum.</b>		

where DIV is the Census Geographic Division Based on State of Registration as known from the Census Bureau's 1987 TIUS (see Appendix G).

DIV =

- 1 (ME, VT, RI, NH, MA, CT)
- 2 (NY, NJ, PA)
- 3 (OH, IN, IL, MI, WI)
- 4 (MN, IA, MO, ND, SD, NE, KS)
- 5 (DE, MD, DC, VA, WV, NC, SC, GA, FL)
- 6 (KY, TN, AL, MS)
- 7 (AR, LA, OK, TX)
- 8 (MT, ID, WY, CO, NM, AZ, UT, NV)
- 9 (WA, OR, CA, AK, HI)

HAUL is the code used to distinguish between idle, commodity-carrying, and non-commodity-carrying trucks as identified in the 1987 TIUS. For commodity-carrying trucks, it will also identify length of HAUL (short or long); for non-commodity-carrying trucks, it will indicate either personal transportation or business use.

HAUL =

- 1 Short haul, commodity-carrying
- 2 Long haul, commodity-carrying
- 3 Non-commodity-carrying, operated for business use
- 4 Non-commodity-carrying, operated for personal transportation
- 5 Truck was idle, wrecked or otherwise not in use, for more than 90 days during 1987

and SAMTYP is the code corresponding to the 1987 TIUS sample strata.

SAMTYP =

- 1 Pickup trucks
- 2 Vans, panel trucks, utilities, jeeps, and station wagons
- 3 Small trucks (GVW less than or equal to 26,000 pounds) not classified above
- 4 Large trucks (GVW greater than 26,000 pounds) excluding truck-tractors
- 5 Truck-tractors

For example, there are  $n_{432} = 80$  NTACS sample trucks in DIV = 4, HAUL = 3, and SAMTYP = 2, and the TRUKIDs for the 80 sample trucks would be

4320001  
4320002  
4320003  
.  
.  
.  
4320080

Note: Every NTACS sample truck has a TRUKID.

Next is a general comment on "DATE" variables. All "DATE" variables in the data base have been recorded to a three - or five - digit code with the formats:

MDD	or	MDDYY
Month Day		Month Day Year

The "Month" has been recorded to the following value definitions:

- 1 ... January, February, or March
- 2 ... April, May, or June
- 3 ... July, August, or September
- 4 ... October, November, or December

The "Day" has been recoded to the following value definitions:

- 01 ... Sunday
- 02 ... Monday
- 03 ... Tuesday
- 04 ... Wednesday
- 05 ... Thursday
- 06 ... Friday
- 07 ... Saturday

The "Year" remains as two-digits.

For example, if a respondent reported the date "June 14, 1990", the recorded date would be "205" or "20590", because June is in the second calendar quarter and the 14<sup>th</sup> falls on a Thursday.

Table 1 gives an overview of the names of all of the data items for each NTACS sample truck and how they are distributed among the three data subfiles.

TABLE 1. Overview of Data Items in Each Subfile for Each NTACS Sample Truck

1990 NTACS General/Annual Subfile 1		
Data Item	Short Description	RI Code for Data Item
1. TRUKID	TRUCK IDENTIFIER	*
2. XPFAN	ANNUAL EXPANSION FACTOR (Subfiles 1 & 3)	*
3. MDLYR	MODEL YEAR	*
4. POSSE	POSSESSION	17. RI_POSSE
5. CUROP	CURRENTLY OPERATE	18. RI_CUROP
6. WKSOP	WEEKS OPERATED	19. RI_WKSOP
7. RANMI	REPORTED ANNUAL MILES	20. RI_RANMI
8. OPSTA	NUMBER OF STATES OPERATED IN	21. RI_OPSTA
9. OPCAN	OPERATED IN CANADA	22. RI_OPCAN
10. OPMEX	OPERATED IN MEXICO	23. RI_OPMEX
11. FUELD	FUEL FROM PRIVATE FUEL DUMP	24. RI_FUELD
12. GASTA	FUEL FROM GAS STATION	25. RI_GASTA
13. MUSEA	MAJOR ANNUAL USE	26. RI_MUSEA
14. VEHDA	MOST FREQUENT ANNUAL DESCRIPTION	27. RI_VEHDA
15. TKCFG	TRUCK CONFIGURATION	28. RI_TKCFG
16. BDTYA	MOST FREQUENT BODY TYPE	29. RI_BDTYA

\* Means no corresponding RI codes.

Table 1 (Continued)

1990 NTACS Sample Day One Subfile 2			
Data Item		Short Description	RI Code for Data Item
1.	TRUKID	TRUCK IDENTIFIER	*
2.	XPDF1	SAMPLE DAY ONE EXPANSION FACTOR (Subfile 2)	*
3.	SAMD1	SAMPLE DAY ONE	39. RI_SAMD1
4.	NSPD1	NUMBER OF PICKUP OR DELIVERY STOPS	40. RI_NSPD1
5.	D1WK1	OPERATE ON SUNDAY	41. RI_D1WK1
6.	D2WK1	OPERATE ON MONDAY	42. RI_D2WK1
7.	D3WK1	OPERATE ON TUESDAY	43. RI_D3WK1
8.	D4WK1	OPERATE ON WEDNESDAY	44. RI_D4WK1
9.	D5WK1	OPERATE ON THURSDAY	45. RI_D5WK1
10.	D6WK1	OPERATE ON FRIDAY	46. RI_D6WK1
11.	D7WK1	OPERATE ON SATURDAY	47. RI_D7WK1
12.	MUSE1	MAJOR SAMPLE DAY ONE USE	48. RI_MUSE1
13.	VEHD1	MOST FREQUENT SAMPLE DAY ONE DESCRIPTION	49. RI_VEHD1
14.	BDTY1	MOST FREQUENT SAMPLE DAY ONE BODY TYPE	50. RI_BDTY1
15.	OMIL1	SAMPLE DAY ONE ODOMETER MILEAGE	51. RI_OMIL1
16.	AOMIL	ANNUALIZED ODOMETER MILEAGE	52. RI_AOMIL
17.	RMIL1	SAMPLE DAY ONE REPORTED MILEAGE	53. RI_RMIL1
18.	ARMIL	ANNUALIZED REPORTED MILEAGE	54. RI_ARMIL
19.	PINT1	PERCENT INTERSTATE SAMPLE DAY ONE	55. RI_PINT1
20.	P4LN1	PERCENT 4 OR MORE LANES SAMPLE DAY ONE	56. RI_P4LN1
21.	POFF1	PERCENT OFF ROAD SAMPLE DAY ONE	57. RI_POFF1
22.	FUEL1	SAMPLE DAY ONE FUEL	58. RI_FUEL1
23.	TOLL1	SAMPLE DAY ONE TOLLS	59. RI_TOLL1
24.	MXLN1	MAXIMUM LENGTH SAMPLE DAY ONE	60. RI_MXLN1
25.	MXHT1	MAXIMUM HEIGHT SAMPLE DAY ONE	61. RI_MXHT1
26.	MEWT1	MAXIMUM EMPTY WEIGHT SAMPLE DAY ONE	62. RI_MEWT1
27.	MXLD1	MAXIMUM LOADED WEIGHT SAMPLE DAY ONE	63. RI_MXLD1
28.	MXPL1	MAXIMUM UTILIZED PAYLOAD SPACE SAMPLE DAY ONE	64. RI_MXPL1
29.	HAZM1	CARRIED HAZARDOUS MATERIALS ON SAMPLE DAY ONE	65. RI_HAZM1
30.	HRS11	OPERATED 12:01 A.M.-4:00 A.M. SAMPLE DAY ONE	66. RI_HRS11
31.	HRS21	OPERATED 4:01 A.M.-6:00 A.M. SAMPLE DAY ONE	67. RI_HRS21
32.	HRS31	OPERATED 6:01 A.M.-8:00 A.M. SAMPLE DAY ONE	68. RI_HRS31
33.	HRS41	OPERATED 8:01 A.M.-10:00 A.M. SAMPLE DAY ONE	69. RI_HRS41
34.	HRS51	OPERATED 10:01 A.M.-4:00 P.M. SAMPLE DAY ONE	70. RI_HRS51
35.	HRS61	OPERATED 4:01 P.M.-6:00 P.M. SAMPLE DAY ONE	71. RI_HRS61
36.	HRS71	OPERATED 6:01 P.M.-8:00 P.M. SAMPLE DAY ONE	72. RI_HRS71
37.	HRS81	OPERATED 8:01 P.M.-12:00 MIDNIGHT SAMPLE DAY ONE	73. RI_HRS81
38.	COMD1	COMMODITY CARRIED WITH GREATEST TON MILES ON SAMPLE DAY ONE	74. RI_COMD1

\* Means no corresponding RI codes.

Table 1 (Continued)

1987 TIUS Subfile 3		
Data Item	Short Description	RI Code for Data Item
1. TRUKID	TRUCK IDENTIFIER	*
2. STOWN	POSSESSION	124. RI_STOWN
3. HWRID	HOW DISPOSED	125. RI_HWRID
4. DISPZ	WHEN DISPOSED	126. RI_DISPZ
5. VEHTP	VEHICLE TYPE	127. RI_VEHTYP
6. BODTP	BODY TYPE	128. RI_BODTP
7. OPCLS	OPERATION CLASSIFICATION	129. RI_OPCLS
8. MJUSE	MAJOR USE	130. RI_MJUSE
9. POFFR	PERCENT MILEAGE OFF ROAD	131. RI_POFFR
10. PLOCL	PERCENT MILEAGE LESS THAN 50 MILES RADIUS	132. RI_PLOCL
11. PSHRT	PERCENT MILEAGE 50-200 MILES RADIUS	133. RI_PSHRT
12. PLONG	PERCENT MILEAGE BEYOND 200 MILES RADIUS	134. RI_PLONG
13. PNOLD	PERCENT MILEAGE NO LOAD	135. RI_PNOLD
14. PRPRO	PRINCIPAL PRODUCT CARRIED	*
15. ACQYR	ACQUISITION YEAR	136. RI_ACQYR
16. OBTAN	HOW OBTAINED	137. RI_OBTAN
17. HWLEA	HOW LEASED	138. RI_HWLEA
18. HWLNG	HOW LONG LEASED	139. RI_HWLNG
19. OWNLS	OWNER OR LEASSEE	140. RI_OWNL
20. AXURE	REPRESENTATION OF NUMBER OF AXLES	*
21. LAXTL	LIFTABLE AXLES	*
22. PCNTR	PERCENT MILEAGE HAULING CONTAINERS	*
23. PPIGY	PERCENT MILEAGE HAULING PIGGYBACK TRAILERS	*
24. NAXLS	NUMBER OF AXLES	*
25. LFTAX	NUMBER OF LIFTABLE AXLES	*
26. DRAXS	NUMBER OF DRIVING AXLES	*
27. CABTP	CAB TYPE	*
28. LNGTH	LENGTH	141. RI_LNGTH
29. WHTL	TRAILER WIDTH	*
30. EMPWT	EMPTY WEIGHT	142. RI_EMPWT
31. AVGWT	AVERAGE WEIGHT	143. RI_AVGWT
32. MAXWT	MAXIMUM GROSS WEIGHT	144. RI_MAXWT
33. PCRSZ	PERCENT MILEAGE CARRYING MAXIMUM PAYLOAD SIZE	*
34. PCRWT	PERCENT MILEAGE CARRYING MAXIMUM PAYLOAD WEIGHT	*
35. TLATT	ATTACHED TRAILER	*
36. PTPUL	PERCENT OF MILEAGE PULLING TRAILER	*
37. AXON	NUMBER OF TRAILER AXLES	*
38. LODWT	TRAILER LOADED WEIGHT	*
39. ANMIL	ANNUAL MILES	145. RI_ANMIL
40. LTMIL	LIFETIME MILES	146. RI_LTMIL
41. MPG	MILES-PER-GALLON	147. RI_MPG
42. BASTA	CURRENT HOME BASE STATE	148. RI_BASTA

\* Means no corresponding RI codes.

Table 1 (Continued)

1987 TIUS Subfile 3				
Data Item		Short Description	RI Code for Data Item	
43.	POBST	PERCENT MILEAGE OUTSIDE HOME BASE STATE	149.	RI_POBST
44.	HSPWR	HORSEPOWER RATING	150.	RI_HSPWR
45.	CID	ENGINE SIZE	151.	RI_CID
46.	ENGTP	FUEL TYPE	152.	RI_ENGTP
47.	BRAKE	BRAKE TYPE		*
48.	AEROD	AERODYNAMIC FEATURES		*
49.	AXLRA	AXLE OR DRIVE RATIO		*
50.	ECENG	FUEL ECONOMY ENGINE		*
51.	REFLT	REFLECTIVE MATERIALS		*
52.	RADIL	RADIAL TIRES		*
53.	GOVNR	ROAD SPEED GOVERNOR		*
54.	VRFAN	VARIABLE FAN DRIVES		*
55.	OTFUL	OTHER FUEL CONSERVATION FEATURES		*
56.	PWSTR	POWER STEERING		*
57.	AIRCN	AIR CONDITIONING		*
58.	ENGRT	ENGINE RETARDER		*
59.	EVMS	ELECTRONIC VEHICLE MANAGEMENT SYSTEM		*
60.	EVIS	ELECTRONIC VEHICLE IDENTIFICATION DEVICE		*
61.	RECDR	TRIP RECORDERS		*
62.	NAVSY	NAVIGATIONAL SYSTEMS		*
63.	FRNWH	FRONT-WHEEL DRIVE		*
64.	GMSEL	GENERAL MAINTENANCE BY SELF		*
65.	GMCOM	GENERAL MAINTENANCE BY COMPANY		*
66.	GMDEL	GENERAL MAINTENANCE BY DEALER		*
67.	GMLES	GENERAL MAINTENANCE BY LEASING COMPANY		*
68.	GMGAR	GENERAL MAINTENANCE BY GARAGE		*
69.	GMDIS	GENERAL MAINTENANCE BY COMPONENT DISTRIBUTORSHIP		*
70.	GMNON	GENERAL MAINTENANCE BY NO ONE		*
71.	GMOTH	GENERAL MAINTENANCE BY OTHER		*
72.	OVSEL	OVERHAULS BY SELF		*
73.	OVCOM	OVERHAULS BY COMPANY		*
74.	OVDEL	OVERHAULS BY DEALER		*
75.	OVLES	OVERHAULS BY LEASING COMPANY		*
76.	OVGAR	OVERHAULS BY GARAGE		*
77.	OVDIS	OVERHAULS BY COMPONENT DISTRIBUTORSHIP		*
78.	OVNON	OVERHAULS BY NO ONE		*
79.	OVOTH	OVERHAULS BY OTHER		*
80.	PBUS	PERCENT BUSINESS USE		*
81.	PPTRA	PERCENT PERSONAL USE		*
82.	FORHR	PERCENT FOR-HIRE USE		*
83.	PMCAR	PERCENT MILEAGE AS MOTOR CARRIER	153.	RI_PMCAR
84.	PINDP	PERCENT MILEAGE BY INDEPENDENT OWNER/OPERATOR	154.	RI_PINDP
85.	PLESE	PERCENT MILEAGE BY OWNER/OPERATOR LEASED TO A COMPANY	155.	RI_PLESE

\* Means no corresponding RI codes.



Table 1 (Continued)

1987 TIUS Subfile 3				
Data Item		Short Description	RI Code for Data Item	
86.	PINTE	PERCENT MILEAGE INTERSTATE	156.	RI_PINTE
87.	PINTR	PERCENT MILEAGE INTRASTATE	157.	RI_PINTR
88.	PLOCJ	PERCENT MILEAGE LOCAL	158.	RI_PLOCJ
89.	PCNTR	PERCENT MILEAGE CONTRACT CARRIER	159.	RI_PCNTR
90.	PCOMN	PERCENT MILEAGE COMMON CARRIER	160.	RI_PCOMN
91.	PEXEM	PERCENT MILEAGE EXEMPT CARRIER	161.	RI_PEXEM
92.	ICCRG	ICC AUTHORITY		•
93.	LVAML	PERCENT MILEAGE CARRYING LIVE ANIMALS	162.	RI_LVAML
94.	FRMPR	PERCENT MILEAGE CARRYING FRESH FARM PRODUCTS	163.	RI_FRMPR
95.	PRFOD	PERCENT MILEAGE CARRYING PROCESSED FOODS AND TOBACCO PRODUCTS	164.	RI_PRFOD
96.	MINPR	PERCENT MILEAGE CARRYING PRODUCTS - UNREFINED	165.	RI_MINPR
97.	BLDGM	PERCENT MILEAGE CARRYING BUILDING MATERIALS	166.	RI_BLDGM
98.	LOGPR	PERCENT MILEAGE CARRYING LOGS AND FOREST PRODUCTS	167.	RI_LOGPR
99.	LUMBE	PERCENT MILEAGE CARRYING LUMBER AND FABRICATED WOOD PRODUCTS	168.	RI_LUMBE
100.	PAPER	PERCENT MILEAGE CARRYING PAPER AND PAPER PRODUCTS	169.	RI_PAPER
101.	CHEM	PERCENT MILEAGE CARRYING CHEMICALS AND/OR DRUGS	170.	RI_CHEM
102.	PETRO	PERCENT MILEAGE CARRYING PETROLEUM AND PETROLEUM PRODUCTS	171.	RI_PETRO
103.	PLAST	PERCENT MILEAGE CARRYING PLASTICS AND/OR RUBBER PRODUCTS	172.	RI_PLAST
104.	PRMTL	PERCENT MILEAGE CARRYING PRIMARY METAL PRODUCTS	173.	RI_PRMTL
105.	FBMTL	PERCENT MILEAGE CARRYING FABRICATED METAL PRODUCTS	174.	RI_FBMTL
106.	MACHN	PERCENT MILEAGE CARRYING MACHINERY	175.	RI_MACHN
107.	TEQUI	PERCENT MILEAGE CARRYING TRANSPORTATION EQUIPMENT AND PARTS	176.	RI_TEQUI
108.	FURN	PERCENT MILEAGE CARRYING FURNITURE AND/OR HARDWARE	177.	RI_FURN
109.	GLASS	PERCENT MILEAGE CARRYING GLASS PRODUCTS	178.	RI_GLASS
110.	TEXTL	PERCENT MILEAGE CARRYING TEXTILES AND APPARELS	179.	RI_TEXTL
111.	MSMFG	PERCENT MILEAGE CARRYING MISCELLANEOUS PRODUCT OF MANUFACTURING	180.	RI_MSMFG
112.	MOVNG	PERCENT MILEAGE MOVING HOUSEHOLD FURNITURE	181.	RI_MOVNG
113.	TOOLS	PERCENT MILEAGE CARRYING MISCELLANEOUS TOOLS	182.	RI_TOOLS
114.	MXCAR	PERCENT MILEAGE CARRYING MIXED CARGO	183.	RI_MXCAR
115.	REFUS	PERCENT MILEAGE CARRYING SCRAP, GARBAGE, TRASH, ETC.	184.	RI_REFUS
116.	INDWR	PERCENT MILEAGE CARRYING INDUSTRIAL WATER	185.	RI_INDWR
117.	HWAST	PERCENT MILEAGE CARRYING HAZARDOUS WASTE	186.	RI_HWAST
118.	HAZMA	HAZARDOUS MATERIALS REQUIRING SPECIAL PLACARD	187.	RI_HAZMA
119.	NFLET	NUMBER OF TRUCKS AND/OR TRAILERS OWNED AND/OR OPERATED		•
120.	TIUGW	GROSS WEIGHT CATEGORY		•
121.	VEHSZ	VEHICLE SIZE CLASS CODE		•
122.	AREAO	AREA OF OPERATION		•
123.	MSAIO	METROPOLITAN STATISTICAL AREA INDICATOR (See caution on page 56.)		•

• Means no corresponding RI codes.

**SUBFILE 1 General and Annual Truck Data Items Collected by NTACS and RI Codes**

1. TRUKID: DEFINITION GIVEN IN INTRODUCTION OF SECTION 1.

NOTE: SIZE OF DATA FIELD IS 7 CHARACTERS. DATA FIELD BEGINS IN COLUMN 1.

2. XPFAN: EXPANSION FACTOR TO BE USED TO INFLATE NTACS MICRODATA IN SUBFILE 1 AND SUBFILE 3 TO UNIVERSE LEVELS. DEFINED AS THE TIUS EXPANSION FACTOR MULTIPLIED BY THE NTACS FRAME WEIGHT FOR EACH SAMPLE UNIT MULTIPLIED BY AN ADJUSTMENT FACTOR FOR TRUCK NONRESPONSE. FOR A GIVEN NTACS STRATUM, THE NTACS FRAME WEIGHT IS THE QUOTIENT OF ESTIMATED SIZE OF THE NTACS STRATUM BY THE NUMBER OF TRUCKS SELECTED FOR THE NTACS SAMPLE FROM THE STRATUM. THE ADJUSTMENT FACTOR FOR A GIVEN NTACS STRATUM IS THE QUOTIENT OF THE TOTAL NTACS SAMPLE SIZE FOR THAT STRATUM BY THE NUMBER OF TRUCK RESPONDENTS FOR THAT STRATUM.

NOTE: SIZE OF DATA FIELD IS 8 CHARACTERS. THE LAST TWO PLACES ARE DECIMAL PLACES. DATA FIELD BEGINS IN COLUMN 8.

3. MDLYR: MDLYR GIVES THE MODEL YEAR RECODE OF SPECIFIC MODEL YEAR RANGES.

MDLYR =    1. 1988, 1987  
             2. 1986  
             3. 1985  
             4. 1984  
             5. 1983  
             6. 1982  
             7. 1981  
             8. 1980  
             9. 1979  
            10. 1978  
            11. PRE-1978

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 16.

4. POSSE: IS THIS VEHICLE STILL IN YOUR POSSESSION?

          1. YES  
          2. NO: SOLD IT (OR GAVE IT AWAY)  
          3. NO: SCRAPPED, JUNKED, OR OTHERWISE DESTROYED  
          4. NO: OTHER (INCLUDES RETURNED TO LEASING COMPANY)  
BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 18.

1990 NTACS Data Items

5. CUROP: DO YOU CURRENTLY OPERATE THIS VEHICLE?

1. YES
  2. NO: IDLE
  3. NO: WRECKED
  4. NO: DISMANTLED
  5. NO: OTHER
- BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 19.

6. WKSOP: HOW MANY WEEKS DURING THE PAST 12 MONTHS DID YOU OPERATE THIS VEHICLE?  
RANGE = 00:52.

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 20.

7. RANMI: HOW MANY MILES WAS THIS VEHICLE DRIVEN IN THE PAST 12 MONTHS (ESTIMATES ARE ACCEPTABLE)?

1. LESS THAN 5,000
2. 5,000 THRU 9,999
3. 10,000 THRU 14,999
4. 15,000 THRU 19,999
5. 20,000 THRU 24,999
6. 25,000 THRU 29,999
7. 30,000 THRU 39,999
8. 40,000 THRU 49,999
9. 50,000 THRU 74,999
10. 75,000 THRU 99,999
11. 100,000 THRU 124,999
12. 125,000 THRU 149,999
13. 150,000 THRU 199,999
14. 200,000 OR MORE

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 22.

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8. OPSTA: IN HOW MANY STATES DID THIS VEHICLE OPERATE DURING THE PAST 12 MONTHS?

1. LESS THAN 3
2. 3 - 5
3. 6 - 9
4. 10 - 24
5. 25 - 40
6. 41 OR MORE

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 24.

9. OPCAN: DID THIS VEHICLE OPERATE IN CANADA DURING THE PAST 12 MONTHS?

1. YES
2. NO

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 25.

10. OPMEX: DID THIS VEHICLE OPERATE IN MEXICO IN THE PAST 12 MONTHS?

1. YES
2. NO

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 26.

11. FUEL: WHAT PERCENT OF THIS VEHICLE'S FUEL DURING THE PAST 12 MONTHS WAS OBTAINED FROM A PRIVATE FUEL DUMP?  
RANGE = 000:100. BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 27.

12. GASTA: WHAT PERCENT OF THIS VEHICLE'S FUEL DURING THE PAST 12 MONTHS WAS OBTAINED FROM A GAS STATION (TRUCK STOP, ETC)?  
RANGE = 000:100. BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 30.

13. MUSEA: DURING THE PAST TWELVE MONTHS, THIS TRUCK WAS MOST FREQUENTLY OPERATED AS \_\_\_\_\_. BLANK REPRESENTS UNKNOWN.

1990 NTACS Data Items

1. PERSONAL TRANSPORTATION
2. CONTRACT CARRIER
3. COMMON CARRIER
4. OTHER BUSINESS USE

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 33.

14. VEHDA: HOW WOULD YOU BEST DESCRIBE THIS VEHICLE AS IT WAS MOST FREQUENTLY OPERATED DURING THE PAST TWELVE MONTHS? BLANK REPRESENTS UNKNOWN.

1. STRAIGHT TRUCK WITH 4 TIRES WITHOUT TRAILER
2. STRAIGHT TRUCK WITH 4 TIRES PULLING TRAILER(S)
3. STRAIGHT TRUCK WITH 6 OR MORE TIRES WITHOUT TRAILER
4. STRAIGHT TRUCK WITH 6 OR MORE TIRES PULLING TRAILER(S)
5. TRUCK-TRACTOR (POWER-UNIT) PULLING TRAILER(S)
6. TRUCK-TRACTOR WITHOUT TRAILER
7. OTHER

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 34.

15. TKCFG: INDICATE THE KIND(S) OF TRAILER(S) PULLED DURING THE PAST 12 MONTHS. BLANK REPRESENTS UNKNOWN.

1. NO TRAILER(S) PULLED.
2. A UTILITY TRAILER OR OTHER TRAILER LESS THAN 20 FEET IN LENGTH, WITH ONE AXLE ON TRAILER PULLED. APPROPRIATE FOR STRAIGHT TRUCK ONLY.
3. A UTILITY TRAILER OR OTHER TRAILER LESS THAN 20 FEET IN LENGTH, WITH TWO AXLES ON TRAILER PULLED. APPROPRIATE FOR STRAIGHT TRUCK ONLY.
4. A UTILITY TRAILER OR OTHER TRAILER LESS THAN 20 FEET IN LENGTH, WITH THREE AXLES ON TRAILER PULLED. APPROPRIATE FOR STRAIGHT TRUCK ONLY.
5. A FULL TRAILER, WITH TWO AXLES ON TRAILER PULLED. APPROPRIATE FOR STRAIGHT TRUCK ONLY.
6. A FULL TRAILER, WITH THREE AXLES ON TRAILER PULLED. APPROPRIATE FOR STRAIGHT TRUCK ONLY.
7. A FULL TRAILER, WITH FOUR AXLES ON TRAILER PULLED. APPROPRIATE FOR STRAIGHT TRUCK ONLY.
8. A SEMI-TRAILER, WITH ONE AXLE ON TRAILER PULLED.
9. A SEMI-TRAILER, WITH TWO AXLES ON TRAILER PULLED.
10. A SEMI-TRAILER, WITH THREE AXLES ON TRAILER PULLED.
11. TWO TRAILERS, ONE SEMI-AND ONE FULL, WITH A TOTAL OF THREE AXLES ON TWO TRAILERS PULLED.

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12. TWO TRAILERS, ONE SEMI - AND ONE FULL, WITH A TOTAL OF FOUR AXLES ON TWO TRAILERS PULLED.
13. TWO OR THREE TRAILERS, ONE SEMI - AND ONE FULL OR ONE SEMI - AND TWO FULL, WITH FIVE AXLES ON TWO OR THREE TRAILERS PULLED.
14. TWO OR THREE TRAILERS, ONE SEMI - AND ONE FULL OR ONE SEMI - AND TWO FULL, WITH SIX OR MORE AXLES ON ALL TRAILERS PULLED.
15. SOME OTHER TYPE OF TRAILER, NOT LISTED ABOVE PULLED.

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 35.

16. BDTYA: INDICATE THE BODY TYPE THAT MOST CLOSELY RESEMBLES THE VEHICLE DURING THE PAST TWELVE MONTHS.

IF THE POWER UNIT IS A TRUCK-TRACTOR, INDICATE THE BODY TYPE OF THE TRAILER(S) ATTACHED.

1. PLATFORM TYPES - INCLUDES FLATBEDS, STAKES, FLATBEDS WITH ADDED DEVICES, AND LOW BOYS (GOOSENECKS).
2. PICKUP
3. PANEL OR COMPACT VAN
4. MINI-VAN, UTILITY, STATION WAGON (BRONCO, BLAZER, JEEP, ETC.)
5. VAN TYPES - INCLUDES ENCLOSED VANS, OPEN TOP VANS, DROP FRAME VANS, REFRIGERATED, NONREFRIGERATED, MULTISTOP, AND HIGH CUBES

**SPECIALIZED USE TRUCKS**

6. AUTOMOBILE OR BOAT TRANSPORT
7. BEVERAGE TRUCK
8. REMOVABLE DRY CONTAINER ON TRAILER CHASSIS
9. REMOVABLE LIQUID CONTAINER ON TRAILER CHASSIS
10. OTHER CARGO CONTAINER CHASSIS
11. CONCRETE MIXER
12. DUMP TRUCK
13. GRAIN BODIES (INCLUDING HOPPERS, GRAIN BOXES)
14. GARBAGE TRUCK
15. LIVESTOCK TRUCK, INCLUDING LIVESTOCK DROP FRAME
16. POLE, LOGGING, OR PIPE TRUCK
17. TANK TRUCK FOR DRY BULK
18. TANK TRUCK FOR LIQUIDS OR GASES (NONHAZARDOUS MATERIALS)
19. TANK TRUCK FOR LIQUIDS OR GASES (HAZARDOUS MATERIALS) - INCLUDING TYPES FROM PLACARD ON TANK (MC-307, MC-331, MC-312, MC-337, MC-306).

1990 NTACS Data Items

25. UTILITY TRUCK  
26. OTHER  
BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN  
COLUMN 37.

- 17. RI\_POSSE: DATA FIELD IN COLUMN 39.
- 18. RI\_CUROP: DATA FIELD IN COLUMN 40.
- 19. RI\_WKSOP: DATA FIELD IN COLUMN 41.
- 20. RI\_RANMI: DATA FIELD IN COLUMN 42.
- 21. RI\_OPSTA: DATA FIELD IN COLUMN 43.
- 22. RI\_OPCAN: DATA FIELD IN COLUMN 44.
- 23. RI\_OPMEX: DATA FIELD IN COLUMN 45.
- 24. RI\_FUELD: DATA FIELD IN COLUMN 46.
- 25. RI\_GASTA: DATA FIELD IN COLUMN 47.
- 26. RI\_MUSEA: DATA FIELD IN COLUMN 48.
- 27. RI\_VEHDA: DATA FIELD IN COLUMN 49.
- 28. RI\_TKCFG: DATA FIELD IN COLUMN 50.
- 29. RI\_BDTYA: DATA FIELD IN COLUMN 51.

**SUBFILE 2 Sample Day One Truck Data Items Collected By NTACS and RI Codes**

The name of each data item in subfile 2, except TRUKID, AOMIL, and ARMIL ends in "1" for sample day one.

1. TRUKID: DEFINITION GIVEN IN INTRODUCTION OF SECTION 1.

NOTE: SIZE OF DATA FIELD IS 7 CHARACTERS. DATA FIELD BEGINS IN COLUMN 1.

2. XPFD1: EXPANSION FACTOR TO BE USED TO INFLATE NTACS MICRODATA IN SUBFILE 2 ONLY FOR SAMPLE DAY ONE DATA TO UNIVERSE LEVELS. DEFINED AS THE TIUS EXPANSION FACTOR MULTIPLIED BY THE NTACS FRAME WEIGHT FOR EACH SAMPLE UNIT MULTIPLIED BY AN ADJUSTMENT FACTOR FOR TRUCK NONRESPONSE OF ANY SAMPLE DAY ONE DATA. FOR A GIVEN NTACS STRATUM, THE NTACS FRAME WEIGHT IS THE QUOTIENT OF ESTIMATED SIZE OF THE NTACS STRATUM BY THE NUMBER OF TRUCKS SELECTED FOR THE NTACS SAMPLE FROM THE STRATUM. THE ADJUSTMENT FACTOR FOR A GIVEN NTACS STRATUM IS THE QUOTIENT OF THE TOTAL NTACS SAMPLE SIZE FOR THAT STRATUM BY THE NUMBER OF SAMPLE DAY ONE DATA TRUCK RESPONDENTS FOR THAT STRATUM.

NOTE: SIZE OF DATA FIELD IS 8 CHARACTERS. THE LAST TWO PLACES ARE DECIMAL PLACES. DATA FIELD BEGINS IN COLUMN 8.

3. SAMD1: THIS IS THE FIRST DAY FOR WHICH SAMPLE DATA WERE REPORTED. IF MISSING, EITHER DAY1, SUB1, OR ALTDAY1 WAS USED.) SEE PAGES 2-3.

NOTE: SIZE OF DATA FIELD IS 6 CHARACTERS. DATA FIELD BEGINS IN COLUMN 16.

4. NSPD1: THIS IS THE TOTAL NUMBER OF STOPS FOR WHICH THE PURPOSE WAS TO PICK UP OR DELIVER ITEMS ON SAMPLE DAY ONE. RANGE = 00:99.

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 22.

5. D1WK1: DID THIS VEHICLE OPERATE (INCLUDING TRAVELING EMPTY) ON SUNDAY (DAY 1) OF SAMPLE WEEK 1?

0. NO  
1. YES

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 24.



1990 NTACS Data Items

6. D2WK1: DID THIS VEHICLE OPERATE (INCLUDING TRAVELING EMPTY) ON MONDAY (DAY 2) OF SAMPLE WEEK 1?

0. NO  
1. YES

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 25.

7. D3WK1: DID THIS VEHICLE OPERATE (INCLUDING TRAVELING EMPTY) ON TUESDAY (DAY 3) OF SAMPLE WEEK 1?

0. NO  
1. YES

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 26.

8. D4WK1: DID THIS VEHICLE OPERATE (INCLUDING TRAVELING EMPTY) ON WEDNESDAY (DAY 4) OF SAMPLE WEEK 1.

0. NO  
1. YES

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 27.

9. D5WK1: DID THIS VEHICLE OPERATE (INCLUDING TRAVELING EMPTY) ON THURSDAY (DAY 5) OF SAMPLE WEEK 1?

0. NO  
1. YES

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 28.

10. D6WK1: DID THIS VEHICLE OPERATE (INCLUDING TRAVELING EMPTY) ON FRIDAY (DAY 6) OF SAMPLE WEEK 1?

0. NO  
1. YES

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 29.

11. D7WK1: DID THIS VEHICLE OPERATE (INCLUDING TRAVELING EMPTY) ON SATURDAY (DAY 7) OF SAMPLE WEEK 1?

1990 NTACS Data Items

- 0. NO
- 1. YES

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 30.

12. MUSE1: DURING SAMPLE DAY ONE, THIS TRUCK WAS MOST FREQUENTLY OPERATED AS \_\_\_\_\_. BLANK REPRESENTS UNKNOWN.

- 1. PERSONAL TRANSPORTATION
- 2. CONTRACT CARRIER
- 3. COMMON CARRIER
- 4. OTHER BUSINESS USE

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 31.

13. VEHD1: HOW WOULD YOU BEST DESCRIBE THIS VEHICLE AS IT WAS MOST FREQUENTLY OPERATED DURING SAMPLE DAY ONE? BLANK REPRESENTS UNKNOWN.

- 1. STRAIGHT TRUCK WITH 4 TIRES WITHOUT TRAILER
- 2. STRAIGHT TRUCK WITH 4 TIRES PULLING TRAILER(S)
- 3. STRAIGHT TRUCK WITH 6 OR MORE TIRES WITHOUT TRAILER
- 4. STRAIGHT TRUCK WITH 6 OR MORE TIRES PULLING TRAILER(S)
- 5. TRUCK-TRACTOR (POWER-UNIT) PULLING TRAILER(S)
- 6. TRUCK-TRACTOR WITHOUT TRAILER
- 7. OTHER

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 32.

14. BDTY1: INDICATE THE BODY TYPE THAT MOST CLOSELY RESEMBLES THE VEHICLE DURING SAMPLE DAY ONE.  
IF THE POWER UNIT IS A TRUCK-TRACTOR, INDICATE THE BODY TYPE OF THE TRAILER(S) ATTACHED.

- 1. PLATFORM TYPES - INCLUDES FLATBEDS, STAKES, FLATBEDS WITH ADDED DEVICES, AND LOW BOYS (GOOSENECKS).
- 2. PICKUP
- 3. PANEL OR COMPACT VAN
- 4. MINI-VAN, UTILITY, STATION WAGON (BRONCO, BLAZER, JEEP, ETC.)
- 5. VAN TYPES - INCLUDES ENCLOSED VANS, OPEN TOP VANS, DROP FRAME VANS, REFRIGERATED, NONREFRIGERATED, MULTISTOP, AND HIGH CUBES.

**SPECIALIZED USE TRUCKS**

1990 NTACS Data Items

6. AUTOMOBILE OR BOAT TRANSPORT
7. BEVERAGE TRUCK
8. REMOVABLE DRY CONTAINER ON TRAILER CHASSIS
9. REMOVABLE LIQUID CONTAINER ON TRAILER CHASSIS
10. OTHER CARGO CONTAINER CHASSIS
11. CONCRETE MIXER
12. DUMP TRUCK
13. GRAIN BODIES (INCLUDING HOPPERS, GRAIN BOXES)
14. GARBAGE TRUCK
15. LIVESTOCK TRUCK, INCLUDING LIVESTOCK DROP FRAME
16. POLE, LOGGING, OR PIPE TRUCK
  
17. TANK TRUCK FOR DRY BULK
18. TANK TRUCK FOR LIQUIDS OR GASES (NONHAZARDOUS MATERIALS)
19. TANK TRUCK FOR LIQUIDS OR GASES (HAZARDOUS MATERIALS) - INCLUDING TYPES FROM PLACARD ON TANK (MC-307, MC-331, MC-312, MC-337, MC-306).
25. UTILITY TRUCK
26. OTHER

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 33.

15. OMIL1: THE ODOMETER MILEAGE FOR SAMPLE DAY ONE DEFINED AS

$$OMIL1 = EODM1 - BODM1$$

WHERE

BODM1 IS THE ODOMETER READING OF THE VEHICLE AT 12:01 A.M. ON SAMPLE DAY ONE, AND

EODM1 IS THE ODOMETER READING OF THE VEHICLE AT 11:59 P.M. ON SAMPLE DAY ONE.

NOTE: SIZE OF DATA FIELD IS 4 CHARACTERS. DATA FIELD BEGINS IN COLUMN 35.

16. AOMIL: ANNUALIZED ODOMETER MILEAGE BASED ON OMIL1 WHERE

$$AOMIL = \left( OMIL1 \right) \cdot \left( \frac{\text{NUMBER OF DAYS OPERATED}}{\text{DURING SAMPLE WEEK ONE}} \right) \cdot \left( WKSOP \right)$$

NOTE: SIZE OF DATA FIELD IS 7 CHARACTERS. DATA FIELD BEGINS IN COLUMN 39.

1990 NTACS Data Items

17. RMIL1: HOW MANY MILES DID THE VEHICLE TRAVEL DURING SAMPLE DAY ONE?

NOTE: SIZE OF DATA FIELD IS 4 CHARACTERS. DATA FIELD BEGINS IN COLUMN 46.

18. ARMIL: ANNUALIZED REPORTED MILEAGE BASED ON RMIL1 WHERE

$$\text{ARMIL} = \left( \text{RMIL1} \right) \cdot \left( \frac{\text{NUMBER OF DAYS OPERATED}}{\text{DURING SAMPLE WEEK ONE}} \right) \cdot \left( \text{WKSOP} \right)$$

NOTE: SIZE OF DATA FIELD IS 7 CHARACTERS. DATA FIELD BEGINS IN COLUMN 50.

19. PINT1: WHAT PERCENT OF THE MILEAGE DRIVEN ON SAMPLE DAY ONE WERE ON THE INTERSTATE HIGHWAY SYSTEMS?

1. BELOW 10%
2. 10 - 24%
3. 25 - 49%
4. 50 - 74%
5. 75 - 100%

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 57.

20. P4LN1: WHAT PERCENT OF THE MILEAGE DRIVEN ON SAMPLE DAY ONE WERE ON ROADS WHICH HAD FOUR OR MORE LANES BUT WERE NOT ON THE INTERSTATE HIGHWAY SYSTEM?

1. BELOW 10%
2. 10 - 24%
3. 25 - 49%
4. 50 - 74%
5. 75 - 100%

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 58.

21. POFF1: WHAT PERCENT OF THE MILEAGE DRIVEN ON SAMPLE DAY ONE WERE OFF ROAD (LITTLE TRAVEL ON PUBLIC ROADS)?

1. BELOW 10%
2. 10 - 24%
3. 25 - 49%
4. 50 - 74%
5. 75 - 100%

1990 NTACS Data Items

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 59.

22. FUEL1: HOW MUCH FUEL (IN U.S. GALLONS) WAS USED DURING SAMPLE DAY ONE?

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 60.

23. TOLL1: HOW MUCH WAS PAID IN HIGHWAY TOLLS DURING SAMPLE DAY ONE?

NOTE: SIZE OF DATA FIELD IS 4 CHARACTERS. DATA FIELD BEGINS IN COLUMN 63.

24. MXLN1: FOR EACH VEHICLE, MXLN1 IS THE MAXIMUM OF MAXLEN1 AND LEN1 WHERE

LEN1= WHAT WAS THE LENGTH OF THE VEHICLE (IN FEET), FROM THE FRONT BUMPER TO THE END OF THE LAST TRAILER, AS IT LEFT THE STARTING PLACE ON SAMPLE DAY ONE?

AND MAXLEN1= WHAT WAS THE LENGTH OF THE VEHICLE (IN FEET), FROM THE FRONT BUMPER TO THE END OF THE LAST TRAILER, DURING SAMPLE DAY ONE WHEN THE VEHICLE WAS AT ITS MAXIMUM WEIGHT?

1. LESS THAN 13
2. 13 - 15
3. 16 - 19
4. 20 - 27
5. 28 - 35
6. 36 - 40
7. 41 - 44
8. 45 - 49
9. 50 - 55
10. 56 - 66
11. 67 - 74
12. 75 OR MORE

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 67.

25. MXHT1: FOR EACH VEHICLE MXHT1 IS THE MAXIMUM OF MAXHT1 AND HT1 WHERE

HT1= WHAT WAS THE HEIGHT OF THE VEHICLE (IN FEET) AS IT

1990 NTACS Data Items

LEFT THE STARTING PLACE ON SAMPLE DAY ONE.

AND MAXHT1= WHAT WAS THE HEIGHT OF THE VEHICLE (IN FEET)  
DURING SAMPLE DAY ONE WHEN THE VEHICLE WAS AT ITS  
MAXMUM WEIGHT?

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN  
COLUMN 69.

26. MEWT1: FOR EACH VEHICLE, MEWT1 IS THE MAXIMUM OF EMPWT1 AND EMAXWT1  
WHERE

EMPWT1= WHAT WAS THE TARE (EMPTY) WEIGHT OF THE  
VEHICLE (IN POUNDS) AS IT LEFT THE STARTING PLACE  
ON SAMPLE DAY ONE?

AND EMAXWT1= WHAT WAS THE TARE (EMPTY) WEIGHT OF THE  
VEHICLE (IN POUNDS) DURING SAMPLE DAY ONE WHEN  
THE VEHICLE WAS AT ITS MAXIMUM WEIGHT?

NOTE: SIZE OF DATA FIELD IS 5 CHARACTERS. DATA FIELD BEGINS IN  
COLUMN 71.

27. MXLD1: FOR EACH VEHICLE, MXLD1 IS THE MAXIMUM OF LOADWT1 AND MAXLOD1  
WHERE

LOADWT1= WHAT WAS THE LOADED WEIGHT OF THE VEHICLE  
(WEIGHT OF TRUCK AND CARGO IN POUNDS) AS IT LEFT  
THE STARTING PLACE ON SAMPLE DAY ONE?

AND MAXLOD1= WHAT WAS THE LOADED WEIGHT OF THE VEHICLE  
(WEIGHT OF TRUCK AND CARGO IN POUNDS) DURING  
SAMPLE DAY ONE WHEN THE VEHICLE WAS AT ITS  
MAXIMUM WEIGHT?

NOTE: SIZE OF DATA FIELD IS 6 CHARACTERS. DATA FIELD BEGINS IN  
COLUMN 76.

28. MXPL1: FOR EACH VEHICLE, MXPL1 IS THE MAXIMUM OF PPL1 AND MAXPL1 WHERE

PPL1= WHAT PERCENT OF THE VEHICLE'S PAYLOAD SPACE WAS  
UTILIZED AS IT LEFT THE STARTING PLACE ON SAMPLE  
DAY ONE?

AND MAXPL1= WHAT PERCENT OF THE VEHICLE'S PAYLOAD SPACE WAS  
UTILIZED DURING SAMPLE DAY ONE WHEN THE VEHICLE  
WAS AT ITS MAXIMUM WEIGHT?

1990 NTACS Data Items

1. BELOW 10%
2. 10 - 24%
3. 25 - 49%
4. 50 - 74%
5. 75 - 100%

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 82.

29. HAZM1: WAS THE VEHICLE USED ON SAMPLE DAY ONE TO CARRY HAZARDOUS MATERIALS IN QUANTITIES LARGE ENOUGH TO REQUIRE A SPECIAL PLACARD UNDER THE CODE OF FEDERAL REGULATIONS, TITLE 49, TRANSPORTATION?

1. YES
2. NO

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 83.

30. HRS11. DID THE VEHICLE OPERATE BETWEEN 12:01 AND 4:00 A.M. ON SAMPLE DAY ONE?

1. YES

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 84.

31. HRS21: DID THE VEHICLE OPERATE BETWEEN 4:01 A.M. AND 6:00 A.M. ON SAMPLE DAY ONE?

1. YES

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 85.

32. HRS31: DID THE VEHICLE OPERATE BETWEEN 6:01 A.M. AND 8:00 A.M. ON SAMPLE DAY ONE?

1. YES

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 86.

33. HRS41: DID THE VEHICLE OPERATE BETWEEN 8:01 A.M. AND 10:00 A.M. ON SAMPLE DAY ONE?

1990 NTACS Data Items

1. YES  
BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 87.

34. HRS51: DID THE VEHICLE OPERATE BETWEEN 10:01 A.M. AND 4:00 P.M. ON SAMPLE DAY ONE?

1. YES  
BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 88.

35. HRS61: DID THE VEHICLE OPERATE BETWEEN 4:01 P.M. AND 6:00 P.M. ON SAMPLE DAY ONE?

1. YES  
BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 89.

36. HRS71: DID THE VEHICLE OPERATE BETWEEN 6:01 P.M. AND 8:00 P.M. ON SAMPLE DAY ONE?

1. YES  
BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 90.

37. HRS81: DID THE VEHICLE OPERATE BETWEEN 8:01 P.M. AND 12:00 MIDNIGHT ON SAMPLE DAY ONE?

1. YES  
BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 91.

38. COMD1: THIS IS THE COMMODITY WITH THE GREATEST TON MILES ON SAMPLE DAY ONE. SEE APPENDIX B FOR COMMODITY CODES.

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 92.



# 1990 NTACS Data Items

- 39. RI\_SAMD1: DATA FIELD IN COLUMN 94.
- 40. RI\_NSPD1: DATA FIELD IN COLUMN 95.
- 41. RI\_D1WK1: DATA FIELD IN COLUMN 96.
- 42. RI\_D2WK1: DATA FIELD IN COLUMN 97.
- 43. RI\_D3WK1: DATA FIELD IN COLUMN 98.
- 44. RI\_D4WK1: DATA FIELD IN COLUMN 99.
- 45. RI\_D5WK1: DATA FIELD IN COLUMN 100.
- 46. RI\_D6WK1: DATA FIELD IN COLUMN 101.
- 47. RI\_D7WK1: DATA FIELD IN COLUMN 102.
- 48. RI\_MUSE1: DATA FIELD IN COLUMN 103.
- 49. RI\_VEH1: DATA FIELD IN COLUMN 104.
- 50. RI\_BDTY1: DATA FIELD IN COLUMN 105.
- 51. RI\_OMIL1: DATA FIELD IN COLUMN 106.
- 52. RI\_AOMIL: DATA FIELD IN COLUMN 107.
- 53. RI\_RMIL1: DATA FIELD IN COLUMN 108.
- 54. RI\_ARMIL: DATA FIELD IN COLUMN 109.
- 55. RI\_PINT1: DATA FIELD IN COLUMN 110.
- 56. RI\_P4LN1: DATA FIELD IN COLUMN 111.
- 57. RI\_POFF1: DATA FIELD IN COLUMN 112.
- 58. RI\_FUEL1: DATA FIELD IN COLUMN 113.
- 59. RI\_TOLL1: DATA FIELD IN COLUMN 114.
- 60. RI\_MXLN1: DATA FIELD IN COLUMN 115.
- 61. RI\_MXHT1: DATA FIELD IN COLUMN 116.
- 62. RI\_MEWT1: DATA FIELD IN COLUMN 117.

1990 NTACS Data Items

- 63. RI\_MXLD1: DATA FIELD IN COLUMN 118.
- 64. RI\_MXPL1: DATA FIELD IN COLUMN 119.
- 65. RI\_HAZM1: DATA FIELD IN COLUMN 120.
- 66. RI\_HRS11: DATA FIELD IN COLUMN 121.
- 67. RI\_HRS21: DATA FIELD IN COLUMN 122.
- 68. RI\_HRS31: DATA FIELD IN COLUMN 123.
- 69. RI\_HRS41: DATA FIELD IN COLUMN 124.
- 70. RI\_HRS51: DATA FIELD IN COLUMN 125.
- 71. RI\_HRS61: DATA FIELD IN COLUMN 126.
- 72. RI\_HRS71: DATA FIELD IN COLUMN 127.
- 73. RI\_HRS81: DATA FIELD IN COLUMN 128.
- 74. RI\_COMD1: DATA FIELD IN COLUMN 129.

1987 TIUS Data Items

**SUBFILE 3 1987 TIUS Truck Data Items and RI Codes**

1. TRUKID: DEFINITION GIVEN IN INTRODUCTION OF SECTION 1.

NOTE: SIZE OF DATA FIELD IS 7 CHARACTERS. DATA FIELD BEGINS IN COLUMN 1.

2. STOWN: IS THIS VEHICLE STILL IN YOUR POSSESSION?

1. YES
2. NO

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 8.

3. HWRID: HOW DID YOU DISPOSE OF THE VEHICLE? APPROPRIATE FOR TRUCKS WITH VALUES OF "2" FOR "STOWN."

1. SOLD IT OR GAVE IT AWAY.
2. JUNKED, SCRAPPED, OR OTHERWISE DESTROYED.
3. RETURNED IT TO LEASING COMPANY.

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 9.

4. DISPZ: WHEN DID YOU DISPOSE OF THE VEHICLE? APPROPRIATE FOR TRUCKS WITH VALUES OF "2" FOR "STOWN."

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN

NOTE: SIZE OF DATA FIELD IS 4 CHARACTERS. DATA FIELD BEGINS IN COLUMN 10.

5. VEHTP: VEHICLE TYPE OF THE TRUCK AS IT WAS MOST OFTEN OPERATED.

1. STRAIGHT TRUCK.
  2. STRAIGHT TRUCK PULLING TRAILER(S).
  3. TRUCK TRACTOR (POWER-UNIT) PULLING TRAILER(S).
  4. OTHER
- BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 14.

1987 TIUS Data Items

6. BODTP: 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.

01. PICKUP
02. VAN OTHER THAN MINI-VAN
03. MULTI-STOP OR STEP VAN (INCLUDING HI-CUBE OR CUTAWAY)
04. PLATFORM WITH DEVICES PERMANENTLY MOUNTED ON BED OF TRUCK (SUCH AS HIGH LIFT, LIFT GATE, HOIST, ETC.)
05. LOW BOY (GOOSENECK) - PLATFORM WITH DEPRESSED CENTER
06. BASIC - INCLUDING FLATBED, STAKE, ETC.
07. LIVESTOCK TRUCK (INCLUDING LIVESTOCK DROP FRAME)
08. INSULATED, NONREFRIGERATED VAN
09. INSULATED REFRIGERATED VAN
10. DROP FRAME VAN - INCLUDING FURNITURE VAN, ETC.
11. OPEN TOP VAN, INCLUDING FRUIT
12. BASIC ENCLOSED VAN (DRY CARGO)
13. BEVERAGE TRUCK
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
17. POLE, LOGGING, PULPWOOD OR PIPE TRUCK
18. AUTOMOBILE TRANSPORT
22. SERVICE TRUCK OR "CRAFTSMAN'S VEHICLE" - BODY EQUIPPED FOR MOBILE REPAIR AND SERVICE
23. YARD TRACTOR - CAB AND CHASSIS ONLY, USED TO SPOT TRAILERS
24. UTILITY (FOR EXAMPLE: BRONCO, BLAZER, JEEP, CJ-5, 7, ETC.)
25. STATION WAGON BUILT ON TRUCK CHASSIS (FOR EXAMPLE: SUBURBAN, WAGONEER, ETC.)
26. MINI-VAN
27. OILFIELD TRUCK - SERVICE EQUIPMENT PERMANENTLY MOUNTED ON VEHICLE
29. GRAIN BODIES (INCLUDING LOW-SIDE GRAIN AND HOPPERS, ETC.)
30. GARBAGE TRUCK
40. DUMP TRUCK (INCLUDING BELLY OR BOTTOM DUMP)
50. TANK TRUCK FOR LIQUIDS OR GASES
60. TANK TRUCK FOR DRY BULK
70. CONCRETE MIXER
80. OTHER

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 15.

1987 TIUS Data Items

7. OPCLS: WHICH OF THE FOLLOWING BEST DESCRIBES THE PRIMARY WAY THE VEHICLE WAS OPERATED?

1. BUSINESS USE - OPERATED BY AND FOR PRIVATE BUSINESSES (INCLUDING SELF-EMPLOYERS) OR A COMPANY; USED IN RELATED ACTIVITIES OF THAT BUSINESS (INCLUDING TRANSPORTATION OF EMPLOYEES).
2. PERSONAL TRANSPORTATION - OPERATED AS A PERSONAL-USE VEHICLE IN PLACE OF AN AUTOMOBILE FOR PLEASURE DRIVING, TRAVEL TO WORK, ETC. (NO BUSINESS USE).
3. FOR HIRE
4. DAILY RENTAL (NOT A MOTOR CARRIER)
5. MIXED

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 17.

8. MJUSE: 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.)

01. AGRICULTURAL SERVICES (INCLUDING FISHERIES)
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. BUSINESS AND PERSONAL SERVICES - (USED TO ASSIST IN SUCH SERVICES AS LODGING OPERATIONS, LANDSCAPING, REPAIR (EXCEPT PLUMBING, ELECTRICAL WORK, ETC.), 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 (INCLUDES WELL-DRILLING) - USED TO ASSIST IN THE EXTRACTION OF NATURAL RESOURCES OR IN HAULING TO PROCESSORS
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

1987 TIUS Data Items

- 15. OTHER
- 16. ONE WAY RENTAL
- 20. PERSONAL TRANSPORTATION

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 18.

9. POFFR: WHAT PERCENT OF THIS VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR BY TRIPS OFF-THE-ROAD (LITTLE TRAVEL ON PUBLIC ROADS)? RANGE=000:100. BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 20.

10. PLOCL: WHAT PERCENT OF THIS VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR BY TRIPS LESS THAN A 50 MILES RADIUS OF THE VEHICLE'S HOME BASE? RANGE=000:100. BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 23.

11. PSHRT: WHAT PERCENT OF THIS VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR BY TRIPS WITHIN A 50-200 MILE RADIUS OF THE VEHICLE'S HOME BASE? RANGE=000:100. BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 26.

12. PLONG: WHAT PERCENT OF THIS VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR BY TRIPS BEYOND A 200 MILE RADIUS OF THE VEHICLE'S HOME BASE? RANGE=000:100. BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 29. (POFFR + PLOCL + PSHRT + PLONG SHOULD EQUAL 100 PERCENT.)

13. PNOLD: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR BY CARRYING NO LOAD? RANGE=000:100. BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 32.

14. PRPRO: THIS VALUE INDICATES THE PRINCIPAL PRODUCT CARRIED BY THE VEHICLE, IF ANY. SEE APPENDIX D FOR VALUE DEFINITIONS.

1987 TIUS Data Items

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 35.

15. ACQYR: ACQUISITION YEAR. FORMAT=YY. ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 37.

16. OBTAN: HOW WAS THE VEHICLE OBTAINED?

1. PURCHASED IT NEW
2. PURCHASED IT USED
3. LEASED OR RENTED IT FROM OTHERS

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 39.

17. HWLEA: IF LEASED, HOW WAS THE VEHICLE LEASED FROM OTHERS? APPROPRIATE FOR VEHICLES WITH OBTAN=3.

1. WITHOUT A DRIVER
2. WITH A DRIVER OTHER THAN AN OWNER-OPERATOR
3. WITH AN OWNER-OPERATOR AS DRIVER

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 40.

18. HWLNG: IF LEASED, WAS THE AGREEMENT FOR 12 MONTHS OR MORE? APPROPRIATE FOR VEHICLES WITH OBTAN=3.

1. YES
2. NO

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 41.

19. OWNLS: ARE YOU THE OWNER OR THE LESSEE OF THIS VEHICLE? APPROPRIATE FOR VEHICLES WITH STOWN=1.

1. OWNER
2. LESSEE

1987 TIUS Data Items

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 42.

20. AXLRE: THIS ITEM IS A REPRESENTATION OF THE TOTAL NUMBER OF AXLES ON A PARTICULAR TRUCK AND/OR COMBINATION. THE VALUE OF THIS ITEM DEPENDS UPON THE TYPE OF VEHICLE, THE NUMBER OF AXLES ON THE VEHICLE ITSELF, AND THE TYPE OF TRAILER PULLED, IF ANY. SEE APPENDIX E FOR VALUE DEFINITIONS.

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 43.

21. LAXTL: IF THE VEHICLE WAS OPERATED WITH A TRAILER, HOW MANY, IF ANY OF THE TRAILER'S AXLES ARE LIFTABLE? RANGE=0:6 APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5. ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 45.

22. PCNTR: IF YOU OPERATED A TRUCK TRACTOR (POWER-UNIT) PULLING TRAILER(S), WHAT PERCENT OF ANNUAL MILEAGE DID YOU HAUL RAILROAD, OCEAN-GOING, OR SIMILAR CONTAINERS? RANGE=000:100. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5. ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 46.

23. PPIGY: IF YOU OPERATED A TRUCK TRACTOR (POWER-UNIT) PULLING TRAILER(S), WHAT PERCENT OF ANNUAL MILEAGE DID YOU HAUL PIGGYBACK TRAILERS? RANGE=000:100. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5. ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 49.

24. NAXLS: TOTAL NUMBER OF AXLES ON TRUCK OR TRUCK TRACTOR (POWER-UNIT). INCLUDE FRONT AND REAR AXLES.

1. TWO AXLES (FOUR TIRES)
2. TWO AXLES (SIX TIRES)
3. THREE AXLES
4. FOUR OR MORE AXLES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN



1987 TIUS Data Items

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 52.

25. LFTAX: OF THE TOTAL NUMBER OF AXLES ON THE TRUCK OR TRUCK TRACTOR, HOW MANY OF THEM ARE LIFTABLE AXLES? APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 53.

26. DRAXS: NUMBER OF DRIVING (POWERED) AXLES ON TRUCK OR TRUCK TRACTOR (POWER UNIT).

1. ONE DRIVING AXLE
2. TWO DRIVING AXLES
3. THREE OR MORE DRIVING AXLES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 54.

27. CABTP: WHAT TYPE OF CAB DOES THIS VEHICLE HAVE?

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

APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5. ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 55.

28. LNGTH: VEHICLE LENGTH IN FEET.

01. LESS THAN 13.0
02. 13.0 - 15.9
03. 16.0 - 19.9
04. 20.0 - 27.9
05. 28.0 - 35.9
06. 36.0 - 40.9
07. 41.0 - 44.9
08. 45.0 - 49.9
09. 50.0 - 55.9
10. 56.0 - 66.9

1987 TIUS Data Items

- 11. 67.0 - 74.9
- 12. 75.0 OR MORE
- BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 56.

29. WTHTL: WHAT WAS THE WIDTH OF THE TRAILER MOST OFTEN ATTACHED TO THE VEHICLE? RANGE=78:112 INCHES. BLANK REPRESENTS UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 1 OR 2, TLATT = 1, AND PTPUL > 050. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5 AND VEHTP = 2 OR 3.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 58.

30. EMPWT: EMPTY WEIGHT OF THE VEHICLE IN POUNDS.

- 01. LESS THAN 6,001
- 02. 6,001 - 10,000
- 03. 10,001 - 14,000
- 04. 14,001 - 16,000
- 05. 16,001 - 19,500
- 06. 19,501 - 26,000
- 07. 26,001 - 33,000
- 08. 33,001 - 40,000
- 09. 40,001 OR MORE

BLANK REPRESENTS UNKNOWN; APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 61.

31. AVGW: AVERAGE WEIGHT (EMPTY WEIGHT PLUS WEIGHT OF CARGO) IN POUNDS OF VEHICLE OR VEHICLE/TRAILER COMBINATION WHEN CARRYING A TYPICAL PAYLOAD DURING THE PAST YEAR.

- 01. LESS THAN 6,001
- 02. 6,001 - 10,000
- 03. 10,001 - 14,000
- 04. 14,001 - 16,000
- 05. 16,001 - 19,500
- 06. 19,501 - 26,000
- 07. 26,001 - 33,000
- 08. 33,001 - 40,000
- 09. 40,001 - 50,000
- 10. 50,001 - 60,000
- 11. 60,001 - 70,000

1987 TIUS Data Items

- 12. 70,001 - 80,000
  - 13. 80,001 - 100,000
  - 14. 100,001 - 120,000
  - 15. 120,001 - 130,000
  - 16. 130,001 OR MORE
- BLANK REPRESENTS UNKNOWN

**NOTE:** SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 63.

**32. MAXWT:** MAXIMUM GROSS WEIGHT IN POUNDS AT WHICH THE VEHICLE OR VEHICLE/TRAILER COMBINATION WAS OPERATED

- 01. LESS THAN 6,001
  - 02. 6,001 - 10,000
  - 03. 10,001 - 14,000
  - 04. 14,001 - 16,000
  - 05. 16,001 - 19,500
  - 06. 19,501 - 26,000
  - 07. 26,001 - 33,000
  - 08. 33,001 - 40,000
  - 09. 40,001 - 50,000
  - 10. 50,001 - 60,000
  - 11. 60,001 - 70,000
  - 12. 70,001 - 80,000
  - 13. 80,001 - 100,000
  - 14. 100,001 - 120,000
  - 15. 120,001 - 130,000
  - 16. 130,001 OR MORE
- BLANK REPRESENTS UNKNOWN; APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5

**NOTE:** SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 65.

**33. PCRSZ:** WHAT PERCENT OF ANNUAL MILEAGE DID THE VEHICLE CARRY PAYLOADS THAT FILLED ITS MAXIMUM CARGO SIZE? RANGE = 000:100. BLANK REPRESENTS UNKNOWN.

**NOTE:** SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 67.

**34. PCRWT:** WHAT PERCENT OF ANNUAL MILES DID THE VEHICLE CARRY PAYLOADS THAT WEIGHED THE MAXIMUM CARGO WEIGHT? RANGE = 000:100. BLANK REPRESENTS UNKNOWN.

**NOTE:** SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 70.

1987 TIUS Data Items

35. TLATT: DURING 1987 DID YOU ATTACH ANY TRAILER TO THIS VEHICLE?

1. YES
2. NO

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 1 OR 2.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 73.

36. PTPUL: WHAT PERCENT OF ANNUAL MILEAGE DID THE VEHICLE PULL A TRAILER? RANGE = 000:100.

APPROPRIATE FOR VEHICLES WITH SAMTYP = 1 OR 2 AND TLATT = 1. ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 74.

37. AXON: HOW MANY AXLES WERE ON TRAILER THAT YOU MOST FREQUENTLY ATTACHED TO THIS VEHICLE? RANGE = 0 : 8. APPROPRIATE FOR VEHICLES WITH SAMTYP = 1 OR 2, TLATT = 1, AND PTPUL > 050. ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 77.

38. LODWT: WHAT WAS THE LOADED WEIGHT OF THE TRAILER MOST OFTEN ATTACHED TO THE VEHICLE? (AN ESTIMATE IS ACCEPTABLE.) RANGE = 00100:30000 POUNDS. APPROPRIATE FOR VEHICLES WITH SAMTYP = 1 OR 2, TLATT = 1, AND PTPUL > 050. ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 5 CHARACTERS. DATA FIELD BEGINS IN COLUMN 78.

39. ANMIL: HOW MANY MILES WAS THE VEHICLE DRIVEN DURING 1987?

01. LESS THAN 5,000
02. 5,000 - 9,999
03. 10,000 - 14,999
04. 15,000 - 19,999
05. 20,000 - 24,999
06. 25,000 - 29,999
07. 30,000 - 39,999
08. 40,000 - 49,999
09. 50,000 - 74,999

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10. 75,000 - 99,999
11. 100,000 - 124,999
12. 125,000 - 149,999
13. 150,000 - 199,999
14. 200,000 OR MORE

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 83.

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

01. LESS THAN 50,000
02. 50,000 - 74,999
03. 75,000 - 99,999
04. 100,000 - 124,999
05. 125,000 - 149,999
06. 150,000 - 199,999
07. 200,000 - 249,999
08. 250,000 - 399,999
09. 400,000 - 499,999
10. 500,000 - 749,999
11. 750,000 - 999,999
12. 1,000,000 OR MORE

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 85.

41. MPG: HOW MANY MILES-PER-GALLON (MPG) DID THIS VEHICLE AVERAGE DURING 1987? (USE TENTHS, IF AVAILABLE.) RANGE = 00:40. BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 87.

42. BASTA: WHERE WAS THE HOME BASE OF THIS VEHICLE ON JULY 1, 1987? IF PUT INTO SERVICE AFTER JULY 1, 1987? ENTER THE CURRENT HOME BASE. RECODED TO CENSUS GEOGRAPHIC DIVISIONS. RANGE = 0:9. BLANK REPRESENTS UNKNOWN.

1987 TIUS Data Items

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 89.

43. POBST: WHAT PERCENT OF ANNUAL MILEAGE WAS DRIVEN OUTSIDE THE HOME BASE STATE? RANGE = 000:100. BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 90.

44. HSPWR: WHAT IS THE HORSEPOWER RATING OF THE VEHICLE'S ENGINE? THE FOLLOWING VALUES FOR HORSEPOWER APPLY WHEN ENGTP = 1 (GASOLINE), 3 (LIQUIFIED PETROLEUM GAS), 4 (OTHER), OR BLANK.

BLANK OR 0. BLANK

- 01. 1-99
- 02. 100-149
- 03. 150-199
- 04. 200-249
- 05. 250-350
- 06. 351-500
- 07. 501 AND OVER

THE FOLLOWING VALUES FOR HORSEPOWER APPLY WHEN ENGTP = 2 (DIESEL).

BLANK OR 0. BLANK

- 08. 1-100
- 09. 101-249
- 10. 250-300
- 11. 301-349
- 12. 350-400
- 13. 401-449
- 14. 450-600
- 15. 601 AND OVER

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 93.

45. CID: WHAT IS THE SIZE (DISPLACEMENT) OF THIS VEHICLE'S ENGINE (IN CUBIC INCHES)? THE FOLLOWING VALUES FOR CID APPLY WHEN ENGTP = 1 (GASOLINE), 3 (LPG), 4 (OTHER), OR BLANK.

BLANK OR 0. BLANK

- 01. 1-115
- 02. 116-133
- 03. 134-169
- 04. 170-199
- 05. 200-240

1987 TIUS Data Items

- 06. 241-280
- 07. 281-299
- 08. 300-340
- 09. 341-360
- 10. 361-399
- 11. 400-480
- 12. 481 AND OVER

THE FOLLOWING VALUES FOR CID APPLY WHEN ENGTP = 2 (DIESEL).

BLANK OR 0. BLANK

- 13. 1-300
- 14. 301-399
- 15. 400-499
- 16. 500-599
- 17. 600-699
- 18. 700-799
- 19. 800-899
- 20. 900-1000
- 21. 1001 AND OVER

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 95.

46. ENGTP: WHAT KIND OF FUEL DOES THIS VEHICLE USE?

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

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 97.

47. BRAKE: WHAT TYPE OF BRAKES DOES THE POWER UNIT (TRUCK OR TRUCK TRACTOR) HAVE?

- 1. HYDRAULIC (STANDARD)
- 2. HYDRAULIC WITH POWER ASSIST
- 3. AIR

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 98.

1987 TIUS Data Items

48. AEROD: DOES THE VEHICLE HAVE AERODYNAMIC FEATURES?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 99.

49. AXLRA: DOES THE VEHICLE HAVE AXLE OR DRIVE RATIO TO MAXIMIZE FUEL EFFICIENCY?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 100.

50. ECENG: DOES THE VEHICLE HAVE A FUEL ECONOMY ENGINE WITH LOW RPM, HIGH TORQUE RISE, TURBO-CHARGE, ETC.?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 101.

51. REFLT: DOES THE VEHICLE HAVE REFLECTIVE MATERIALS (IN ADDITION TO THOSE REQUIRED BY LAW)?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 102.

52. RADIL: DOES THE VEHICLE HAVE RADIAL TIRES?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.



1987 TIUS Data Items

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 103.

53. GOVNR: DOES THE VEHICLE HAVE A ROAD SPEED GOVERNOR?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 104.

54. VRFAN: DOES THE VEHICLE HAVE VARIABLE FAN DRIVES?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 105.

55. OTFUL: DOES THE VEHICLE HAVE OTHER FUEL CONSERVATION FEATURES?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 106.

56. PWSTR: DOES THE VEHICLE HAVE POWER STEERING?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 107.

57. AIRCN: DOES THE VEHICLE HAVE AIR CONDITIONING?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

1987 TIUS Data Items

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 108.

58. ENGRT: DOES THE VEHICLE HAVE AN ENGINE RETARDER?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 109.

59. EVMS: DOES THE VEHICLE HAVE AN ELECTRONIC VEHICLE MANAGEMENT SYSTEM?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 110.

60. EVIS: DOES THE VEHICLE HAVE AN ELECTRONIC VEHICLE IDENTIFICATION DEVICE (TRANSPONDER), ETC.?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 111.

61. RECDR: DOES THE VEHICLE HAVE TRIP RECORDERS?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 112.

62. NAVSY: DOES THE VEHICLE HAVE NAVIGATIONAL SYSTEMS?

1. YES

1987 TIUS Data Items

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 3, 4, OR 5.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 113.

63. FRNWH: DOES THE VEHICLE HAVE FRONT-WHEEL DRIVE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH SAMTYP = 1 OR 2.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 114.

64. GMSEL: DID YOU PERFORM THE GENERAL MAINTENANCE ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 115.

65. GMCOM: DID YOUR COMPANY'S OWN MAINTENANCE FACILITIES PERFORM THE GENERAL MAINTENANCE ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 116.

66. GMDEL: DID A DEALERSHIP'S SERVICE DEPARTMENT PERFORM THE GENERAL MAINTENANCE ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 117.

67. GMLES: DID A LEASING COMPANY PERFORM THE GENERAL MAINTENANCE ON THIS VEHICLE?

1987 TIUS Data Items

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 118.

68. GMGAR: DID AN INDEPENDENT GARAGE OR PRIVATE MECHANIC (INCLUDES GASOLINE OR SERVICE STATIONS) PERFORM THE GENERAL MAINTENANCE ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 119.

69. GMDIS: DID A COMPONENT DISTRIBUTORSHIP (ENGINE, TRANSMISSION, ETC.) PERFORM THE GENERAL MAINTENANCE ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 120.

70. GMNON: DID NO ONE PERFORM THE GENERAL MAINTENANCE ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 121.

71. GMOTH: DID SOMEONE OTHER THAN THOSE SPECIFICALLY MENTIONED PREVIOUSLY PERFORM THE GENERAL MAINTENANCE ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 122.

72. OVSEL: DID YOU PERFORM THE MAJOR OVERHAULS ON THIS VEHICLE?

1987 TIUS Data Items

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 123.

73. OVCOM: DID YOUR COMPANY'S OWN MAINTENANCE FACILITIES PERFORM THE MAJOR OVERHAULS ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 124.

74. OVDEL: DID A DEALERSHIP'S SERVICE DEPARTMENT PERFORM THE MAJOR OVERHAULS ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 125.

75. OVLES: DID A LEASING COMPANY PERFORM THE MAJOR OVERHAULS ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 126.

76. OVGAR: DID AN INDEPENDENT GARAGE OR PRIVATE MECHANIC (INCLUDES GASOLINE OR SERVICE STATIONS) PERFORM THE MAJOR OVERHAULS ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 127.

1987 TIUS Data Items

77. OVDIS: DID A COMPONENT DISTRIBUTORSHIP (ENGINE, TRANSMISSION, ETC.)  
PERFORM THE MAJOR OVERHAULS ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN  
COLUMN 128.

78. OVNON: DID NO ONE PERFORM THE MAJOR OVERHAULS ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN  
COLUMN 129.

79. OVOTH: DID SOMEONE OTHER THAN THOSE SPECIFICALLY MENTIONED PREVIOUSLY  
PERFORM THE MAJOR OVERHAULS ON THIS VEHICLE?

1. YES

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN  
COLUMN 130.

80. PBUS: IF "MIXED" WAS CHECKED FOR "OPCLS," WHAT PERCENT WAS BUSINESS USE?  
RANGE = 000:100.

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN  
COLUMN 131.

81. PPTRA: IF "MIXED" WAS CHECKED FOR "OPCLS," WHAT PERCENT WAS PERSONAL USE?  
RANGE = 000:100.

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN  
COLUMN 134.

1987 TIUS Data Items

82. FORHR: IF "MIXED" WAS CHECKED FOR "OPCLS," WHAT PERCENT WAS FOR-HIRE USE (INCLUDES INTER-CORPORATE HAULING AND TRIP LEASING, ETC.)? RANGE = 000:100.

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 137.

83. PMCAR: IF THE VEHICLE WAS FOR-HIRE, WHAT PERCENT OF ANNUAL MILEAGE WAS IT OPERATED AS A MOTOR CARRIER? RANGE = 000:100. BLANK REPRESENTS UNKNOWN. APPROPRIATE FOR VEHICLES WITH OPCLS = 3 OR OPCLS = 5 AND FORHR  $\geq$  000.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 140.

84. PINDP: IF THE VEHICLE WAS FOR-HIRE, WHAT PERCENT OF ANNUAL MILEAGE WAS IT OPERATED BY AN INDEPENDENT OWNER/OPERATOR? RANGE = 000:100. BLANK REPRESENTS UNKNOWN. APPROPRIATE FOR VEHICLES WITH OPCLS = 3 OR OPCLS = 5 AND FORHR  $\geq$  000.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 143.

85. PLESE: IF THE VEHICLE WAS FOR-HIRE, WHAT PERCENT OF ANNUAL MILEAGE WAS IT OPERATED BY AN OWNER-OPERATOR LEASED TO A COMPANY? RANGE = 000:100. BLANK REPRESENTS UNKNOWN. APPROPRIATE FOR VEHICLES WITH OPCLS = 3 OR OPCLS = 5 AND FORHR  $\geq$  000.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 146.

86. PINTE: IF THE VEHICLE WAS FOR-HIRE, WHAT PERCENT OF ANNUAL MILEAGE WAS IT OPERATED INTERSTATE? RANGE = 000:100. BLANK REPRESENTS UNKNOWN. APPROPRIATE FOR VEHICLES WITH OPCLS = 3 OR OPCLS = 5 AND FORHR  $\geq$  000.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 149.

87. PINTR: IF THE VEHICLE WAS FOR-HIRE, WHAT PERCENT OF ANNUAL MILEAGE WAS IT OPERATED INTRASTATE? RANGE = 000:100. BLANK REPRESENTS UNKNOWN. APPROPRIATE FOR VEHICLES WITH OPCLS = 3 OR OPCLS = 5, AND FORHR  $\geq$  000.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 152.

1987 TIUS Data Items

88. PLOCJ: IF THE VEHICLE WAS FOR-HIRE, WHAT PERCENT OF ANNUAL MILEAGE WAS IT OPERATED LOCALLY? RANGE = 000:100. BLANK REPRESENTS UNKNOWN. APPROPRIATE FOR VEHICLES WITH OPCLS = 3 OR OPCLS = 5 AND FORHR  $\geq$  000.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 155.

89. PCNTR: IF THE VEHICLE WAS FOR-HIRE, WHAT PERCENT OF ANNUAL MILEAGE WAS IT OPERATED AS A CONTRACT CARRIER? RANGE = 000:100. BLANK REPRESENTS UNKNOWN. APPROPRIATE FOR VEHICLES WITH OPCLS = 3 OR OPCLS = 5 AND FORHR  $\geq$  000.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 158.

90. PCOMN: IF THE VEHICLE WAS FOR-HIRE, WHAT PERCENT OF ANNUAL MILEAGE WAS IT OPERATED BY A COMMON CARRIER? RANGE = 000:100. BLANK REPRESENTS UNKNOWN. APPROPRIATE FOR VEHICLES WITH OPCLS = 3 OR OPCLS = 5 AND FORHR  $\geq$  000.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 161.

91. PEXEM: IF THE VEHICLE WAS FOR-HIRE, WHAT PERCENT OF ANNUAL MILEAGE WAS IT OPERATED AS AN EXEMPT CARRIER? RANGE = 000:100. BLANK REPRESENTS UNKNOWN. APPROPRIATE FOR VEHICLES WITH OPCLS = 3 OR OPCLS = 5 AND FORHR  $\geq$  000.

NOTE: SIZE OF DATA FIELD IS 3 CHARACTERS. DATA FIELD BEGINS IN COLUMN 164.

92. ICCRG: WAS THIS VEHICLE UNDER ICC AUTHORITY?

1. YES
2. NO

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN. APPROPRIATE FOR VEHICLES WITH OPCLS = 3 OR OPCLS = 5 AND FORHR  $\geq$  000.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 167.

93. LVAML: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING LIVE ANIMALS--CATTLE, HORSES, POULTRY, HOGS, LIVE SEAFOOD, INSECTS, ETC.?

1. BELOW 10%



1987 TIUS Data Items

2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 168.

94. FRMPR: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING FRESH FARM PRODUCTS (GRAIN, CROPS, FLOWERS, NURSERY STOCK, RAW MILK, RAW TOBACCO, ETC.)?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 169.

95. PRFOD: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING PROCESSED FOODS AND TOBACCO PRODUCTS (CANNED GOODS, PREPARED MEATS, FROZEN FOODS, BEVERAGES, BOTTLED WATER, DAIRY PRODUCTS, CIGARETTES, ETC.)?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 170.

96. MINPR: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING PRODUCTS--UNREFINED (CRUDE OIL, COAL, METAL ORES)?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

1987 TIUS Data Items

**NOTE:** SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 171.

97. BLDGM: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING BUILDING MATERIALS--GRAVEL, SAND, CONCRETE, FLAT GLASS, ETC.--EXCEPT CUT LUMBER (SEE "LUMBE")?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

**NOTE:** SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 172.

98. LOGPR: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING LOGS AND FOREST PRODUCTS (EXCEPT CUT LUMBER AND FABRICATED WOOD PRODUCTS)?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

**NOTE:** SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 173.

99. LUMBE: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING LUMBER AND FABRICATED WOOD PRODUCTS--EXCEPT FURNITURE?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

**NOTE:** SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 174.

100. PAPER: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING PAPER AND PAPER PRODUCTS?

1987 TIUS Data Items

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 175.

101. CHEM: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING CHEMICALS AND/OR DRUGS (INCLUDING FERTILIZERS, PESTICIDES, COSMETICS, PAINTS, ETC.)?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 176.

102. PETRO: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING PETROLEUM AND PETROLEUM PRODUCTS--INCLUDING PAVING AND ROOFING MATERIALS?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 177.

103. PLAST: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING PLASTICS AND/OR RUBBER PRODUCTS?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

1987 TIUS Data Items

**NOTE:** SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 178.

104. PRMTL: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING PRIMARY METAL PRODUCTS--PIPES, INGOTS, BILLETS, SHEETS, ETC.?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

**NOTE:** SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 179.

105. FBMTL: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING FABRICATED METAL PRODUCTS (EXCEPT MACHINERY OR TRANSPORTATION EQUIPMENT)?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

**NOTE:** SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 180.

106. MACHN: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING MACHINERY--ELECTRICAL OR NONELECTRICAL AND ELECTRONIC?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

**NOTE:** SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 181.

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

1987 TIUS Data Items

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 182.

108. FURN: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING FURNITURE (WOOD OR NONWOOD) AND/OR HARDWARE--NOT INVOLVED IN HOUSEHOLD MOVING.

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 183.

109. GLASS: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING GLASS PRODUCTS?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 184.

110. TEXTL: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING TEXTILES AND APPARELS--FIBERS, LEATHER GOODS, CARPETS, CLOTHING, ETC.

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

1987 TIUS Data Items

**NOTE:** SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 185.

111. MSMFG: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING MISCELLANEOUS PRODUCTS OF MANUFACTURING--INCLUDING PHOTOGRAPHIC GOODS, WATCHES, CLOCKS, JEWELRY AND TOYS?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%

5. 75-100%

BLANK REPRESENTS UNKNOWN.

**NOTE:** SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 186.

112. MOVNG: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR BY THE MOVING OF HOUSEHOLD FURNITURE--FROM HOMES, OFFICES, ETC.--UNDER CONTRACT?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

**NOTE:** SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 187.

113. TOOLS: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING MISCELLANEOUS TOOLS AND/OR PARTS FOR SPECIALIZED USE, AS IN A CRAFTSMAN'S VEHICLE--TRAVELING WORKSHOP FOR PLUMBERS, CARPENTERS, ROAD SERVICE CREWS, ETC.?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

**NOTE:** SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 188.

1987 TIUS Data Items

114. MXCAR: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING MIXED CARGO, GENERAL FREIGHT (INCLUDING THE DELIVERY OF SMALL PACKAGES)?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 189.

115. REFUS: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING SCRAP, GARBAGE, TRASH, SEPTIC TANK WASTE?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 190.

116. INDWR: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING INDUSTRIAL WATER?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-100%

BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 191.

117. HWAST: WHAT APPROXIMATE PERCENTAGE OF THE VEHICLE'S ANNUAL MILEAGE WAS ACCOUNTED FOR WHILE CARRYING HAZARDOUS WASTE?

1. BELOW 10%
2. 10-24%
3. 25-49%
4. 50-74%

1987 TIUS Data Items

5. 75-100%  
BLANK REPRESENTS UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 192.

118. HAZMA: AT ANY TIME DURING 1987 WAS THIS VEHICLE (OR COMBINATION) USED TO HAUL HAZARDOUS MATERIALS IN QUANTITIES LARGE ENOUGH TO REQUIRE A SPECIAL PLACARD PLACED ON THE VEHICLE DUE TO THE \*CODE OF FEDERAL REGULATIONS, TITLE 49, TRANSPORTATION"?

1. YES
2. NO

ALL OTHER CHARACTERS AND BLANK REPRESENT UNKNOWN.

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 193.

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

01. 1
02. 2-5
03. 6-19
04. 20-99
05. 100-499
06. 500 AND OVER

BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 194.

120. TIUGW: THIS VALUE INDICATES THE GROSS WEIGHT OF THE VEHICLE BASED ON AVERAGE WEIGHT AND RECODED TO TIUS SPECIFICATIONS (POUNDS).

01. 6000 OR LESS
02. 6001-10000
03. 10001-14000
04. 14001-16000
05. 16001-19500
06. 19501-26000
07. 26001-33000
08. 33001-40000
09. 40001-50000
10. 50001-60000
11. 60001-80000
12. 80001-100000



1987 TIUS Data Items

- 13. 100001-130000
- 14. 130001 AND OVER
- BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 2 CHARACTERS. DATA FIELD BEGINS IN COLUMN 196.

121. VEHSZ: VEHICLE SIZE CLASS CODE. BASED ON AVERAGE WEIGHT (POUNDS).

- 1. 10000 OR LESS
- 2. 10001-19500
- 3. 19501-26000
- 4. 26001 AND OVER
- BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 198.

122. AREA0: THIS VALUE INDICATES THE AREA OF OPERATION OF THE VEHICLE.

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

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 199.

123. MSAIO: MSA INDICATOR. IS THE HOME BASE OF THE VEHICLE LOCATED WITHIN A METROPOLITAN STATISTICAL AREA? NOTE: IF THE HOME BASE WAS NOT REPORTED THEN THE REGISTRATION MAILING ADDRESS WAS USED TO CODE MSAIO. (CAUTION: DATA USERS SHOULD USE CAUTION WHEN USING THIS DATA ITEM BECAUSE NO PROVISIONS WERE MADE IN THE SAMPLE DESIGN TO ESTIMATE ANY DEGREE OF RELIABILITY AT THE MSA LEVEL FOR TIUS OR THE NTACS.)

- 1. NO
- 2. YES
- BLANK REPRESENTS UNKNOWN

NOTE: SIZE OF DATA FIELD IS 1 CHARACTER. DATA FIELD BEGINS IN COLUMN 200.

# 1987 TIUS Data Items

DATA ITEM	DATA FIELD BEGINS IN COLUMN	DATA ITEM	DATA FIELD BEGINS IN COLUMN
124. RI_STOWN	201	162. RI_LVAML	239
125. RI_HWRID	202	163. RI_FRMPR	240
126. RI_DISPZ	203	164. RI_PRFOD	241
127. RI_VEHTP	204	165. RI_MINPR	242
128. RI_BODTP	205	166. RI_BLDGM	243
129. RI_OPCLS	206	167. RI_LOGPR	244
130. RI_MJUSE	207	168. RI_LUMBE	245
131. RI_POFFR	208	169. RI_PAPER	246
132. RI_PLOCL	209	170. RI_CHEM	247
133. RI_PSHRT	210	171. RI_PETRO	248
134. RI_PLONG	211	172. RI_PLAST	249
135. RI_PNOLD	212	173. RI_PRMTL	250
136. RI_ACQYR	213	174. RI_FBMTL	251
137. RI_OBTAN	214	175. RI_MACHN	252
138. RI_HWLEA	215	176. RI_TEQUI	253
139. RI_HWLNG	216	177. RI_FURN	254
140. RI_OWNLN	217	178. RI_GLASS	255
141. RI_LNGTH	218	179. RI_TEXTL	256
142. RI_EMPWT	219	180. RI_MSMFG	257
143. RI_AVGWT	220	181. RI_MOVNG	258
144. RI_MAXWT	221	182. RI_TOOLS	259
145. RI_ANMIL	222	183. RI_MXCAR	260
146. RI_LTMIL	223	184. RI_REFUS	261
147. RI_MPG	224	185. RI_INDWR	262
148. RI_BASTA	225	186. RI_HWAST	263
149. RI_POBST	226	187. RI_HAZMA	264
150. RI_HSPWR	227		
151. RI_CID	228		
152. RI_ENGTP	229		
153. RI_PMCAR	230		
154. RI_PINDP	231		
155. RI_PLESE	232		
156. RI_PINTE	233		
157. RI_PINTR	234		
158. RI_PLOCJ	235		
159. RI_PCNTR	236		
160. RI_PCOMN	237		
161. RI_PEXEM	238		

## SECTION 2

### DESIGN OF THE 1990 NATIONWIDE TRUCK ACTIVITY AND COMMODITY SURVEY

#### I. Purpose of Survey

The NTACS was designed by the Census Bureau with DOT consultation and involvement to provide detailed information on daily activity patterns of trucks and on the relationships of trucking to commodity movements and economic activity. The NTACS measures the 1990 activity of trucks registered on July 1, 1987, and in the scope of the Census Bureau's 1987 Truck Inventory and Use Survey (TIUS).

#### II. Universe

The universe for the 1990 NTACS includes the following: All trucks during the NTACS period (October 29, 1989--October 27, 1990) registered in one of the 50 states or the District of Columbia on July 1, 1987, and operating in 1987 as estimated by the 1987 TIUS.

A. A "truck" is a vehicle registered in a state as a truck, or a vehicle with a "truck" chassis registered as a car. Vehicles excluded from the 1987 TIUS and subsequently excluded from the 1990 NTACS universe were:

1. Vehicles owned by Federal, state, or local governments
2. Ambulances
3. Buses
4. Mobile homes
5. Trucks
  - Sold prior to 1987 (NTACS only)
  - Disposed of prior to July 1, 1986 (TIUS and NTACS)
6. Farm tractors
7. Unpowered trailers
8. Trucks reported scrapped or wrecked prior to registration year.

### III. Survey Frame

The 1990 NTACS sample was selected from commodity-carrying trucks and non-commodity carrying business, personal transportation and idle trucks which responded to the 1987 TIUS. Thus the NTACS sample is a subsample of the 1987 TIUS sample respondents.

The 1987 TIUS frame is described below:

#### A. Description

The 1987 TIUS was based on a sample survey of approximately 135,321 trucks (Table B of Appendix A) selected from the TIUS universe of approximately 45,393,671 trucks (Table A of Appendix A). R.L. Polk and Company, as directed by the Census Bureau, selected a stratified random sample from vehicle registration files for each of the 50 states and the District of Columbia. Five vehicle type strata were selected:

STRATUM	VEHICLE TYPE
1	Pickup trucks
2	Vans, panels and utilities
3	Single-unit, small (GVW <sup>1</sup> ≤ 26,000 lbs.)
4	Single-unit, large (GVW > 26,000 lbs.)
5	Truck-tractors

The truck (unit) response rate for the 1987 TIUS at the U.S. level was approximately 77.9 percent, i.e. approximately 104,601 trucks responded (Table C of Appendix A).

The 1987 TIUS forms were mailed to registered owners of each sample truck to determine the 1987 operational and physical characteristics. Based on the 1987 TIUS, the NTACS frame contained the following information:

1. State of registration
2. Vehicle type (stratum)

---

<sup>1</sup> Gross Vehicle Weight rating (GVW) is the weight of a vehicle when loaded to its capacity.

3. 1987 TIUS expansion factor
4. Response characteristics
5. 1987 TIUS characteristics

Trucks identified as idled (i.e., wrecked, awaiting repair, etc.) from the 1987 TIUS were given a chance for selection in the NTACS because these trucks could have been operational at the time the NTACS survey was conducted. Trucks scrapped or not in use in 1987 were excluded from the survey. *No attempt was made to follow up "deaths" or to include newly registered trucks that were registered since July 1, 1987.* If a vehicle changed ownership, however, an attempt was made to find the new owner of the truck.

**B. Preparation of the Frame**

The 103,737 trucks (Table D of Appendix A) in the sampling frame were stratified into one of 225 strata defined by geographic division, types of haul, and truck classification. Type of haul was either long or short for commodity-carrying trucks, or business use only, personal use only, or idled non-commodity-carrying trucks. A long-haul commodity-carrying truck is a truck with 30 percent of its annual mileage on trips of 200 miles or more; or at least 50 percent of its annual mileage on trips of 50 to 200 miles and at least 10 percent of annual mileage on trips of 200 miles or more.

Prior to sample selection, trucks within each stratum were sorted by body type and ZIP.

**IV. Sample Size**

Using the 1982 TIUS as a basis of study and later adjusted by results from the 1987 TIUS, the NTACS sample was determined to be approximately 44,002 trucks (Table E of Appendix A). Of those, approximately 14,000 were long-haul commodity-carrying, approximately 24,000 were short-haul commodity-carrying, and the balance were non-commodity-carrying. Sample sizes were determined to provide reliable estimates of annual miles at the division level for commodity-carrying large trucks plus tractor-trailer trucks, commodity-carrying pick-ups plus vans, all commodity-carrying trucks, all large plus tractor-trailer trucks, all pick-ups plus vans, and all trucks.

Approximately 42 percent of all trucks responding in the 1987 TIUS were included in the 1990 NTACS sample.

The estimated 1990 NTACS universe size (excluding new trucks registered after July 1, 1987) is approximately 43,375,733 (Table G of Appendix A).

## V. Sample Selection

The survey collected information on the activities of trucks on one or two sample days. The sample was selected in two steps: (1) a sample of trucks was identified from the in-scope list of trucks in the 1987 TIUS, and (2) one or two sample days for each specific truck was selected.

A respondent was asked to provide data on a specific day within a specific week(s). In addition, within the specific week(s), the truck reported which day(s) it operated. For the selected day(s), the owner of a truck reported detailed information on its characteristics and activities for a day and/or for the trips started and continuing on the sample day.

### A. Selection of Trucks

A stratified systematic random sample of trucks from the 1987 TIUS was included in the 1990 NTACS.

Selected into the 1990 NTACS were the following groups of trucks responding to the 1987 TIUS:

- All commodity-carrying long-haul trucks
- All commodity-carrying short-haul pickups and vans
- A subsample of commodity-carrying short-haul tractor-trailers; single-unit, large; and single-unit small trucks
- A subsample of non-commodity-carrying trucks

ORNL's current understanding of the number of NTACS respondents (22,044) and NTACS nonrespondents (21,808) is given in Table H of Appendix A.

### B. Selection of Weeks

Each long-haul commodity-carrying truck was enumerated for two selected one-week periods. The year was divided into 13 blocks (periods) of four-weeks each beginning October 29, 1989, and ending October 27, 1990. Each truck was randomly assigned to a four-week block (period).

The first week was randomly selected from the first two-weeks in the block; the second week was two-weeks later. The sample of trucks for a block was evenly divided between the first and second week. For each day in the two-weeks selected, the owner of the truck was asked to report whether the truck operated some time during the day.

Each selected local haul commodity-carrying and non-commodity-carrying truck was enumerated for one selected one-week period during the four-week block.

C. Selection of Days

For each selected week, each truck was randomly assigned a day to report daily characteristics. One substitute day was provided on the questionnaire. If commodities were carried during the week, but not on either the selected or a substitute day, the respondent was provided a telephone number to call to obtain a new sample day within the sampled week. For long-haul trucks, each day of the week had an equal probability of selection.

D. Definition of Trip

A trip is defined as travel starting when a truck left the base or location of a pickup or delivery and ended when it arrived at the base or location of the next pickup or delivery (this includes traveling empty).

E. Selection of Trip

For long-haul trucks, a trip in which any part of the travel occurred on the sample day was selected into the survey. This allowed information on any trip beginning before the sample day, continuing into the sample day, and ending after the sample day to be collected.

VI. NTACS Questionnaire Content

Information was collected about the characteristics of all selected trucks operating during the NTACS period. Separate questionnaires were developed for short-haul commodity-carrying and non-commodity-carrying vehicles (NTACS-1) and for long-haul commodity-carrying vehicles (NTACS-2). (Section 3 displays copies of both questionnaires.) The personal transportation truck respondents were instructed to skip certain data items.

The following information was collected:

- A. Physical and operational characteristics of the vehicle during the previous 12-month period (Section A of the NTACS Questionnaire).
- B. Detailed operational characteristics of the vehicle for a specific sample day(s) and the past 12 months (Section B of the NTACS Questionnaire).
- C. Trip-specific information made by the vehicle for a specific sample day(s) and trip-specific information made by the vehicle prior to and after the specific sample day(s) (Sections C and D of the NTACS Questionnaire).

**VII. How Conducted**

**A. General**

The 1990 NTACS was conducted by mail. The registration information was computer imprinted on the questionnaires identifying the specific vehicle selected as well as the week(s) and day(s) selected.

**B. Mailout**

Selected sampled cases were assigned to one of 13 periods. Each respondent received one of two questionnaires requesting the activities of the selected vehicle for a selected day in a four-week period of the year or activities for two selected days in different weeks of the same four-week period.

The mailing package consisted of the original questionnaire, instruction sheet, cover letter, and return envelope.

**C. Receipt and Check-in**

Questionnaires were mailed from the Census Bureau's Jeffersonville, Indiana facility. Respondents were requested to return these report forms to that facility immediately after the sample day where an automated check-in occurred. Respondents with delinquent reports were followed up.

**D. Follow-up**

In an attempt to improve the response rate for the survey, two mail follow-ups were conducted. In addition, a telephone follow-up was initially conducted for the first five (5) periods. Due to the high cost in conducting telephone follow-up to obtain a completed response, the use of certified mail was implemented



for the remaining eight (8) periods. Certified mail proved to be cost effective and improved not only overall response, but item non-response as well.

E. Data Editing

Responses were edited for reasonableness and consistency through clerical screening and a computer edit. The physical characteristics of the selected vehicles were compared with those attributes reported in the 1987 TIUS. The operational characteristics of the sampled vehicles were edited against parameters developed from industry standards and from knowledge of the operations of various carrier types.

It was recognized during the design and development stages and from the results of the pretest that this data collection would be an exploratory process which would attempt to study new and changing conditions in truck operation and activity characteristics that had not been measured in any previous program.

During the edit process, a number of important observations were made that will help improve response and data quality for the 1994 program. In preparation for the 1994 program, additional contacts with trade groups, TIUS participants, and DOT specialists will improve questionnaire design and respondent reportability. The evaluation of the 1990 data collection will improve data item definitions and instructions and therefore improve response rates. These steps will be part of a process to balance data user needs and respondent ability to report quality data on a timely basis.

VIII. 1990 NTACS Public Use File

The lowest level of geographic detail is the Census geographic divisions (see Appendix G).

To avoid potential disclosures and a direct link to the existing 1987 TIUS Public Use Tape, certain fields have been recoded.

Each sampling unit in subfile 1 is assigned an adjusted expansion factor XPFD1 that can be used to inflate the NTACS sample data in subfile 1 and subfile 3 to NTACS universe levels. Because more than half of the trucks represented in subfiles 1 and 3 did not report sample day one data, each truck in subfile 2 is assigned a different adjusted expansion factor XPFD1 that can be used to inflate the NTACS sample data in subfile 2 to NTACS universe levels. For more on the development of these expansion factors, see Sections 1 and 4.

## **SECTION 3**

### **THE QUESTIONNAIRES**

- 1990 NTACS-1
- 1990 NTACS-2
- Census Bureau's 1987 TC-9501 (TIUS)
- Census Bureau's 1987 TC-9502 (TIUS)

This Section contains copies of the two 1987 TIUS questionnaires and the two 1990 NTACS questionnaires. Not all NTACS reported data are included in the NTACS Public Use File mainly due to high item nonresponse rates.

Some other data items such as "current home base state" have been suppressed or aggregated for confidentiality reasons.

No NTACS sample day two data are included in the 1990 NTACS Public Use File because of sparseness.

Form **HTACS-1**  
10-14-88

U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

# **NATIONWIDE TRUCK ACTIVITY AND COMMODITY SURVEY**

## **REGISTRATION INFORMATION**

100 Vehicle Identification Number (VIN)	101 Make of vehicle	102 Year	103 State
104 Sample week	105 Sample day	106 Substitute day	

Please complete  
the form and  
RETURN TO

**BUREAU OF THE CENSUS**  
1201 East Tenth Street  
Jeffersonville, IN 47134

## **BE A PART OF AMERICA'S TRANSPORTATION PLANS FOR THE 1990's AND BEYOND!**

- We need your help in this Nationwide Truck Activity and Commodity Survey. The information you report on this questionnaire will be used by the government and others planning for future transportation needs such as:
  - New highways
  - Terminal facilities
  - Highway maintenance and repair
- Your vehicle identified in the Registration Information Section above was selected in a scientific sample of vehicles to represent the country's truck population.
- Please take some of your valuable time to complete this form for the sample day indicated in the box above.
- We suggest that you take this questionnaire with you in the sampled vehicle on the Sample Day, and complete Section C as you perform your day's activities.
- Please return this questionnaire immediately after your Sample Day.

### **Please read before completing this form**

This questionnaire covers the activities of the vehicle specified in the Registration Information Section above, for the specific sample day indicated. The questionnaire is divided into 3 sections, A, B, and C. Sections A and B request general information on the vehicle's characteristics and use. Section C, beginning on page 5, refers to the vehicle's use on the sample day. Section C contains a diary type listing to report the activities of the vehicle during the sample day.

If the vehicle did not operate on the sample day specified, use the substitute day. If the vehicle did not operate on either the sample day or the substitute day specified, but was active during the sample week, call us collect on (301) 783-1744. Do not substitute another day unless told to do so. The sample day was selected scientifically, and we want to know what the vehicle did on that particular day, even though it may not seem typical to you.

OMB No. 2125-0640: Approval Expires 12/31/91

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

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

(Please correct any error in name and address including ZIP Code)

<b>a. Is the vehicle still in your possession?</b> <sup>110</sup>		<input type="checkbox"/> YES — Are you the <sup>111</sup>	<input type="checkbox"/> NO — Continue with items b—d
		<input type="checkbox"/> Owner? <sup>111</sup>	SKIP to Section A on page 2 and continue with questionnaire
		<input type="checkbox"/> Lessee? <sup>111</sup>	
<b>b. When did you dispose of this vehicle?</b> Enter figures only		<sup>112</sup> Month   Year	
<b>c. How did you dispose of this vehicle?</b> <sup>113</sup>			
<input type="checkbox"/> Sold it (or gave it away)		<input type="checkbox"/> Junked, scrapped, or otherwise destroyed	<input type="checkbox"/> Returned to leasing company
		<input type="checkbox"/> Other — Specify <sup>113</sup>	
<b>d. Who is the current owner of this vehicle?</b> <sup>114</sup> <input type="checkbox"/> Unknown			
<sup>115</sup> Name		<sup>116</sup> Address (Number and Street)	
<sup>117</sup> City		<sup>118</sup> State	<sup>119</sup> ZIP Code
If this vehicle is no longer in your possession, please sign on page 11 and return the questionnaire immediately.			

### Section A — Vehicle Information

**1 a. Do you currently operate this vehicle?**

If "No" indicate present status

<sup>120</sup> 1 ☐ YES

2 ☐ NO

<sup>121</sup> 1 ☐ Idle

3 ☐ Dismantled

2 ☐ Wrecked

4 ☐ Other — Specify \_\_\_\_\_

**b. How many weeks during the past 12 months did you operate this vehicle?**

<sup>122</sup>

\_\_\_\_\_ Weeks

**2 a. Where is the current home base of this vehicle?**

("Home Base" refers to where the vehicle is usually parked or stationed)

<sup>123</sup> City \_\_\_\_\_

<sup>124</sup> County \_\_\_\_\_

<sup>125</sup> State \_\_\_\_\_

<sup>126</sup> ZIP Code \_\_\_\_\_

**b. How many miles was this vehicle driven during the past 12 months?**

<sup>127</sup>

\_\_\_\_\_ Miles (Estimates are acceptable)

**c. In how many states did this vehicle operate during the past 12 months?**

<sup>128</sup>

\_\_\_\_\_ States

**d. List the three States with the highest mileage during the past 12 months —**

<sup>129</sup>

(1) \_\_\_\_\_

<sup>130</sup>

(2) \_\_\_\_\_

<sup>131</sup>

(3) \_\_\_\_\_

**e. Did this vehicle operate in Canada during the past 12 months?**

<sup>132</sup>

1 ☐ YES — Mark (X) the provinces and territories

133 ☐ Newfoundland

139 ☐ Manitoba

134 ☐ Prince Edward Island

140 ☐ Saskatchewan

135 ☐ Nova Scotia

141 ☐ Alberta

136 ☐ New Brunswick

142 ☐ British Columbia

137 ☐ Quebec

143 ☐ Yukon Territory

138 ☐ Ontario

144 ☐ Northwest Territories

2 ☐ NO

**f. Did this vehicle operate in Mexico during the past 12 months?**

<sup>145</sup>

1 ☐ YES 2 ☐ NO

**3. What percent of this vehicle's fuel during the past 12 months was obtained from —**

<sup>146</sup>

**a. Private fuel dump? . . . . .** \_\_\_\_\_ %

<sup>147</sup>

**b. Gas station (truck stop, etc.)? . . . . .** \_\_\_\_\_ %

**4. SAMPLE WEEK**

For each day of the **sample week** (shown in the Registration Information on page 1) check "Yes" if the vehicle operated on that day; otherwise check "No."

(Operating includes traveling empty)

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

<sup>148</sup>

<sup>149</sup>

<sup>150</sup>

<sup>151</sup>

<sup>152</sup>

<sup>153</sup>

<sup>154</sup>

1 ☐ YES

1 ☐ YES

1 ☐ YES

1 ☐ YES

1 ☐ YES

1 ☐ YES

1 ☐ YES

2 ☐ NO

2 ☐ NO

2 ☐ NO

2 ☐ NO

2 ☐ NO

2 ☐ NO

2 ☐ NO

## Section B — Vehicle Description

The following questions relate to this vehicle's use during the sample day and the past 12 months. If the vehicle did not operate on the sample day, use the substitute day. If the vehicle did not operate on the sample day or substitute day, call (301) 763-1744 collect.

### 1. This truck was MOST FREQUENTLY operated as —

Mark (X) only one box in each column

- a. Personal transportation .....
- b. Contract carrier .....
- c. Common carrier .....
- d. Other business use .....

Sample day

Past 12 months

162 ☐

164 ☐

165 ☐

167 ☐

168 ☐

170 ☐

171 ☐

173 ☐

### 2. How would you best describe this vehicle as it was MOST FREQUENTLY operated during each period? Mark (X) only one box in each column

- a. Straight truck with 4 tires without trailer .....
- b. Straight truck with 4 tires pulling trailer(s) .....
- c. Straight truck with 6 or more tires without trailer .....
- d. Straight truck with 6 or more tires pulling trailer(s) .....
- e. Truck-tractor (power unit) pulling trailer(s) .....
- f. Truck-tractor without trailer .....
- g. Other — Specify in the columns —————→

174 ☐

176 ☐

177 ☐

179 ☐

180 ☐

182 ☐

183 ☐

185 ☐

186 ☐

188 ☐

189 ☐

191 ☐

192 ☐

194 ☐

### 3. Indicate the kind(s) of trailer(s) pulled during each period.

Mark (X) all that apply

Mark (X) only one

- a. No trailer pulled .....
- b. Utility and other trailers less than 20 feet used with straight truck
  - (1) One axle on trailer .....
  - (2) Two axles on trailer .....
  - (3) Three or more axles on trailer .....

195 ☐

197 ☐

198 ☐

200 ☐

201 ☐

203 ☐

204 ☐

206 ☐

- c. One full trailer used with straight truck

- (1) Two axles on trailer .....
- (2) Three axles on trailer .....
- (3) Four or more axles on trailer .....

207 ☐

209 ☐

210 ☐

212 ☐

213 ☐

215 ☐

- d. One semi-trailer

- (1) One axle on trailer .....
- (2) Two axles on trailer .....
- (3) Three or more axles on trailer .....

216 ☐

218 ☐

219 ☐

221 ☐

222 ☐

224 ☐

- e. Two trailers, one semi- and one full

- (1) Three axles on two trailers .....
- (2) Four axles on two trailers .....
- (3) Five axles on two trailers .....
- (4) Six or more axles on two trailers .....

225 ☐

227 ☐

228 ☐

230 ☐

231 ☐

233 ☐

234 ☐

236 ☐

- f. Three trailers, one semi- and two full

- (1) Five axles on three trailers .....
- (2) Six axles on three trailers .....
- (3) Seven axles on three trailers .....
- (4) Eight or more axles on three trailers .....

237 ☐

239 ☐

240 ☐

242 ☐

243 ☐

245 ☐

246 ☐

248 ☐

- g. Other — Please describe in detail the number of trailers and axles on those trailers.  
Specify in the columns —————→

249 ☐

251 ☐

## Section B — Vehicle Description — Continued

4. Indicate the body type that most closely resembles this vehicle during the sample period. If the power unit is a truck-tractor indicate the body type of the trailer(s) attached.

Mark (X) only one box in each column.

**A. PLATFORM TYPES**, includes flatbeds, stakes, and flatbeds with added devices, and low boys (goosenecks) . . . . .

252 ☐

254 ☐

**B. PICKUP** . . . . .

255 ☐

257 ☐

**C. PANEL OR COMPACT VAN** . . . . .

258 ☐

260 ☐

**D. MINI-VAN, UTILITY, STATION WAGON** (Bronco, Blazer, Jeep, etc.) . . . . .

261 ☐

263 ☐

**E. VAN TYPES**, includes enclosed vans, open top vans, drop frame vans, refrigerated, nonrefrigerated, and multistop and high cubes. . . . .

264 ☐

266 ☐

**F. SPECIALIZED USE TRUCKS**

1. Automobile or boat transport . . . . .

267 ☐

268 ☐

2. Beverage truck . . . . .

270 ☐

272 ☐

3. Removable dry container on trailer chassis . . . . .

273 ☐

275 ☐

4. Removable liquid container on trailer chassis . . . . .

276 ☐

278 ☐

5. Other cargo container chassis . . . . .

279 ☐

281 ☐

6. Concrete mixer . . . . .

282 ☐

284 ☐

7. Dump truck . . . . .

285 ☐

287 ☐

8. Grain bodies (including hoppers, grain boxes) . . . . .

288 ☐

290 ☐

9. Garbage truck . . . . .

291 ☐

293 ☐

10. Livestock truck, including livestock drop frame . . . . .

294 ☐

296 ☐

11. Pole, logging, or pipe truck . . . . .

297 ☐

299 ☐

12. Tank truck for dry bulk . . . . .

300 ☐

302 ☐

13. Tank truck for liquids or gases (nonhazardous materials)

303 ☐

305 ☐

14. Tank truck for liquids or gases (hazardous materials) —  
Indicate type (from placard on tank)

306 ☐

308 ☐

a. MC-307 . . . . .

309 ☐

311 ☐

b. MC-331 . . . . .

312 ☐

314 ☐

c. MC-312 . . . . .

315 ☐

317 ☐

d. MC-337 . . . . .

318 ☐

320 ☐

e. MC-306 . . . . .

321 ☐

323 ☐

15. Utility truck . . . . .

324 ☐

326 ☐

**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 and describe the vehicle.

**G. Other** — Specify in the columns →

327 ☐

329 ☐

### Section C — Vehicle Use

The following questions relate to the vehicle's use DURING THE SAMPLE DAY. If the vehicle did not operate on the sample day, use the substitute day. If the vehicle did not operate on either day given, call (301) 763-1744 collect.

1. Enter date used (Enter figures only)	401 Month / Day / Year												
2. What was the odometer reading of the vehicle at 12:01 a.m. on the sample day?	402 _____ Miles (Estimates are acceptable)												
3a. How many miles did the vehicle travel during the sample day?	403 _____ Miles (Estimates are acceptable)												
b. What percent of those miles were on the INTERSTATE HIGHWAY SYSTEM?	404 _____ %												
c. What percent of those miles were on roads which had four or more lanes but were NOT on the INTERSTATE HIGHWAY SYSTEM?	405 _____ %												
d. What percent of those miles were off-road (little travel on public roads)?	406 _____ %												
4a. How much fuel was used during the sample day?	407 _____ U.S. gallons (Estimates are acceptable)												
b. How much was paid in highway tolls during the sample day?	408 \$ _____												
5a. What was the size of the vehicle —	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">As it left the starting place on the sample day? (1)</th> <th style="width: 50%; text-align: center;">During the sample day when vehicle was at its maximum weight? (2)</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;">409 Length (ft.) (Front bumper to end of last trailer) . . . . .</td> <td style="vertical-align: top;">410 _____ ft.</td> </tr> <tr> <td style="vertical-align: top;">411 Height (ft.) . . . . .</td> <td style="vertical-align: top;">412 _____ ft.</td> </tr> <tr> <td style="vertical-align: top;">413 Tare weight (empty) . . . . .</td> <td style="vertical-align: top;">414 _____ lbs.</td> </tr> <tr> <td style="vertical-align: top;">415 Loaded vehicle weight (weight of truck and cargo) . . . . .</td> <td style="vertical-align: top;">416 _____ lbs.</td> </tr> <tr> <td style="vertical-align: top;">417 Percent of payload space utilized . . . . .</td> <td style="vertical-align: top;">418 _____ %</td> </tr> </tbody> </table>	As it left the starting place on the sample day? (1)	During the sample day when vehicle was at its maximum weight? (2)	409 Length (ft.) (Front bumper to end of last trailer) . . . . .	410 _____ ft.	411 Height (ft.) . . . . .	412 _____ ft.	413 Tare weight (empty) . . . . .	414 _____ lbs.	415 Loaded vehicle weight (weight of truck and cargo) . . . . .	416 _____ lbs.	417 Percent of payload space utilized . . . . .	418 _____ %
As it left the starting place on the sample day? (1)	During the sample day when vehicle was at its maximum weight? (2)												
409 Length (ft.) (Front bumper to end of last trailer) . . . . .	410 _____ ft.												
411 Height (ft.) . . . . .	412 _____ ft.												
413 Tare weight (empty) . . . . .	414 _____ lbs.												
415 Loaded vehicle weight (weight of truck and cargo) . . . . .	416 _____ lbs.												
417 Percent of payload space utilized . . . . .	418 _____ %												
b. How would you best describe the vehicle's loads during the sample day? (If the vehicle was empty the entire day, mark the box that typically applies)	419 1 <input type="checkbox"/> Single shipments (Truck-load) 2 <input type="checkbox"/> Several shipments in a truck or trailer(s) (Less-than-truck-load), including shipments consolidated by others												
6. Was the vehicle used to haul hazardous materials in quantities large enough to require a special placard due to the Code of Federal Regulations, title 49, Transportation, during the sample day?	420 1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO												
7a. How many employees, including owner/operators, were on board the vehicle as it left the starting place on the sample day?	421 _____ Employees on board												
b. How many of these employees drove the vehicle sometime during the sample day?	422 _____ Employees who drove												
8. Mark all boxes that include the hours during which you operated the vehicle during the sample day.	423 <table style="width: 100%;"> <tr> <td>01 <input type="checkbox"/> 12:01 a.m. — 4:00 a.m.</td> <td>06 <input type="checkbox"/> 10:01 a.m. — 4:00 p.m.</td> </tr> <tr> <td>02 <input type="checkbox"/> 4:01 a.m. — 8:00 a.m.</td> <td>07 <input type="checkbox"/> 4:01 p.m. — 8:00 p.m.</td> </tr> <tr> <td>03 <input type="checkbox"/> 8:01 a.m. — 8:00 a.m.</td> <td>08 <input type="checkbox"/> 8:01 p.m. — 8:00 p.m.</td> </tr> <tr> <td>04 <input type="checkbox"/> 8:01 a.m. — 10:00 a.m.</td> <td>09 <input type="checkbox"/> 8:01 p.m. — 12:00 a.m.</td> </tr> </table>	01 <input type="checkbox"/> 12:01 a.m. — 4:00 a.m.	06 <input type="checkbox"/> 10:01 a.m. — 4:00 p.m.	02 <input type="checkbox"/> 4:01 a.m. — 8:00 a.m.	07 <input type="checkbox"/> 4:01 p.m. — 8:00 p.m.	03 <input type="checkbox"/> 8:01 a.m. — 8:00 a.m.	08 <input type="checkbox"/> 8:01 p.m. — 8:00 p.m.	04 <input type="checkbox"/> 8:01 a.m. — 10:00 a.m.	09 <input type="checkbox"/> 8:01 p.m. — 12:00 a.m.				
01 <input type="checkbox"/> 12:01 a.m. — 4:00 a.m.	06 <input type="checkbox"/> 10:01 a.m. — 4:00 p.m.												
02 <input type="checkbox"/> 4:01 a.m. — 8:00 a.m.	07 <input type="checkbox"/> 4:01 p.m. — 8:00 p.m.												
03 <input type="checkbox"/> 8:01 a.m. — 8:00 a.m.	08 <input type="checkbox"/> 8:01 p.m. — 8:00 p.m.												
04 <input type="checkbox"/> 8:01 a.m. — 10:00 a.m.	09 <input type="checkbox"/> 8:01 p.m. — 12:00 a.m.												

## Section C — Vehicle Use — Continued

## COMMODITY REFERENCE LIST FOR USE IN ITEMS 9(a), (9b), 13(c), AND 14(d)

This is a list of products, materials, and equipment the vehicle may have carried.

Part A — HAZARDOUS MATERIALS		Hazard code	Part B — PRODUCTS, EQUIPMENT, MATERIALS, ETC.		Commodity code	Metals and Metal Products		Commodity code
Flammable liquids		41	Agricultural and Food Products		15	Primary metal products — pipes, ingots, billets, metal sheets, etc.		26
Combustible liquids		42	Live animals — cattle, horses, poultry, hogs, fish, and other marine products, etc.			Fabricated metal products and bolts and nuts — Except machinery or transportation equipment (see below)		27
Corrosive liquids		43	Fresh farm products — grain, crops, flowers, nursery stock, raw milk, raw tobacco, etc.		16	Machinery — electrical or nonelectrical		28
Poison B solids		44	Processed foods — canned goods, prepared meats, frozen foods, beverages, bottled water, dairy products, tobacco products, etc.			Transportation equipment (including complete vehicles) and parts		29
Poison B liquids		45	Mining Products, unrefined — crude oil, coal, and metal ores		17	Other Manufactured Products		
Flammable solids		46	Building materials — gravel, sand, concrete, glass, and stone, etc.		18	Furniture (wood and nonwood) and/or fixtures — not involved in household moving		30
Oxidizers		47	Forestry, Wood, and Paper Products		19	Textiles and apparel — fibers, leather goods, carpets, clothing, etc.		31
Flammable gas		48	Logs and forest products — Except cut lumber and fabricated wood products, (see below) barks or gums		20	Miscellaneous		32
Nonflammable gas		49	Lumber and fabricated wood products — Except furniture		21	Moving of household and office furniture, including exhibits — from home, offices, etc., under contract		33
Poison A		50	Paper, printed matter, and paper products		22	Mixed cargo, general freight, personal goods, mail and express traffic, and small packaged freight vehicle		34
Corrosive solids		51	Chemicals, Petroleum, and Allied Products			Tools/parts for specialized use as in craftsman's vehicle		35
Explosives, A or B		52	Chemicals and/or drugs — Including fertilizers, pesticides, cosmetics, paints, etc.		23	Scrap, garbage, trash		36
Blasting agents		53	Petroleum, petroleum products, paving, and asphalt or tar cements		24	Industrial water		37
Radioactive materials		54	Plastics and/or rubber products		25	Other — Please describe in detail		38
ORM — A, B, or C		55						39
ORM E		56						40
Hazardous materials not listed above —		57						
Specify 7								

Type of Place Codes  
(Refer to these codes for completing items 9(b), 13(b), and 14(b))

A — Railroad facility (servicing facility)	F — Harbor/port facility (pickup or delivery of water shipment)	J — Power plant/distribution station	O — Construction site
B — Railroad facility (pickup or delivery of rail shipment)	G — Truck/bus terminal not part of airport, harbor, or railroad	K — House, apartment building	P — Manufacturing facility or assembly plant
C — Airport (servicing facility)	H — Warehouse	L — Forest, farm, field, farm building, fisheries	Q — Store or other retail or service outlet
D — Airport (pickup or delivery of air shipment)	I — Tank farm	M — Grain elevator, stockyard	R — Office building, school, hospital, other public facilities
E — Harbor or port facility (servicing facility)		N — Mine, quarry, gravel pit, stone crusher	S — Park or other recreational facility
			T — Other



## Section C - Vehicle Use - Continued

9. Enter below the following data for EACH STOP during the entire SAMPLE DAY only. Exclude stops for food, fuel or rest.

SAMPLE DAY STOPS				Type of place code from previous stop?		What was the purpose of the stop?		Items delivered (e)		Items picked up (f)			
If traveling at the beginning of sample day, enter where vehicle was at 12:01 a.m. for starting place.				Enter the type of place code from above		Mark (X) all that apply		Commodity code	Hazmat code	Weight (lbs.)	Commodity code	Hazmat code	Weight (lbs.)
9.0 Start/stop place (Mo/Day)	County	State	Departure time a.m. p.m.	(b)	(c)	(d)							
Loaded vehicle wt. at departure				No. of trailers attached		1 <input type="checkbox"/> Base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer							
Stop 1 Arrival time a.m. p.m.	Departure time a.m. p.m.						4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other or in transit - Specify 7						
City	County	State			From starting place		1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer						
Loaded vehicle wt. at departure				No. of trailers attached									
Stop 2 Arrival time a.m. p.m.	Departure time a.m. p.m.						4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other - Specify 7						
City	County	State			From stop 1		1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer						
Loaded vehicle wt. at departure				No. of trailers attached									
Stop 3 Arrival time a.m. p.m.	Departure time a.m. p.m.						4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other - Specify 7						
City	County	State			From stop 2		1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer						
Loaded vehicle wt. at departure				No. of trailers attached									
Stop 4 Arrival time a.m. p.m.	Departure time a.m. p.m.						4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other - Specify 7						
City	County	State			From stop 3		1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer						
Loaded vehicle wt. at departure				No. of trailers attached									
Stop 5 Arrival time a.m. p.m.	Departure time a.m. p.m.						4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other - Specify 7						
City	County	State			From stop 4		1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer						
Loaded vehicle wt. at departure				No. of trailers attached									

ADDITIONAL SAMPLE DAY STOPS

ADDITIONAL SAMPLE DAY STOPS				Type of place code Enter the type of place code from p. 6	Miles from previous stop?	What was the purpose of the stop? Mark (X) all that apply	Items delivered (e)			Items picked up (f)		
Stop #	Date	Time of arrival a.m. p.m.	Departure time a.m. p.m.	(b)	(c)	(d)	Commodity code	Hazmat code	Weight (lbs.)	Commodity code	Hazmat code	Weight (lbs.)
1						<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer <input type="checkbox"/> Delivery <input type="checkbox"/> Drop off trailer <input type="checkbox"/> Other - Specify						
City		County		State								
Loaded vehicle wt. at departure		No. of trailers attached										
2						<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer <input type="checkbox"/> Delivery <input type="checkbox"/> Drop off trailer <input type="checkbox"/> Other - Specify						
City		County		State								
Loaded vehicle wt. at departure		No. of trailers attached										
3						<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer <input type="checkbox"/> Delivery <input type="checkbox"/> Drop off trailer <input type="checkbox"/> Other - Specify						
City		County		State								
Loaded vehicle wt. at departure		No. of trailers attached										
4						<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer <input type="checkbox"/> Delivery <input type="checkbox"/> Drop off trailer <input type="checkbox"/> Other - Specify						
City		County		State								
Loaded vehicle wt. at departure		No. of trailers attached										
5						<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer <input type="checkbox"/> Delivery <input type="checkbox"/> Drop off trailer <input type="checkbox"/> Other - Specify						
City		County		State								
Loaded vehicle wt. at departure		No. of trailers attached										
6						<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer <input type="checkbox"/> Delivery <input type="checkbox"/> Drop off trailer <input type="checkbox"/> Other - Specify						
City		County		State								
Loaded vehicle wt. at departure		No. of trailers attached										
7						<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer <input type="checkbox"/> Delivery <input type="checkbox"/> Drop off trailer <input type="checkbox"/> Other - Specify						
City		County		State								
Loaded vehicle wt. at departure		No. of trailers attached										

## ADDITIONAL SAMPLE DAY STOPS

ADDITIONAL SAMPLE DAY STOPS				Type of place code Enter the type of place code from p. 6		See from previous stop?	What was the purpose of the stop? Mark (X) all that apply	Items delivered (e)				Items picked up (f)	
(a)				(b)	(c)	(d)	Commodity code	Hazmat code	Weight (lbs.)	Commodity code	Hazmat code	Weight (lbs.)	
Stop 12	Date	Time of arrival a.m. p.m.	Departure time a.m. p.m.				1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer 4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other - Specify 7						
City	County	State											
Loaded vehicle wt. at departure				No. of trailers attached									
Stop 13	Date	Time of arrival a.m. p.m.	Departure time a.m. p.m.				1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer 4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other - Specify 7						
City	County	State											
Loaded vehicle wt. at departure				No. of trailers attached									
Stop 14	Date	Time of arrival a.m. p.m.	Departure time a.m. p.m.				1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer 4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other - Specify 7						
City	County	State											
Loaded vehicle wt. at departure				No. of trailers attached									
Stop 15	Date	Time of arrival a.m. p.m.	Departure time a.m. p.m.				1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer 4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other - Specify 7						
City	County	State											
Loaded vehicle wt. at departure				No. of trailers attached									
Stop 16	Date	Time of arrival a.m. p.m.	Departure time a.m. p.m.				1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer 4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other - Specify 7						
City	County	State											
Loaded vehicle wt. at departure				No. of trailers attached									
Stop 17	Date	Time of arrival a.m. p.m.	Departure time a.m. p.m.				1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer 4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other - Specify 7						
City	County	State											
Loaded vehicle wt. at departure				No. of trailers attached									

ADDITIONAL SAMPLE DAY STOPS				Type of place code Enter the type of place code from p. 6 (b)	Miles from previous stop? (c)	What was the purpose of the stop? Mark (X) all that apply	Items delivered (e)				Items picked up (f)	
							Commodity code	Hazmat code	Weight (lbs.)	Commodity code	Hazmat code	Weight (lbs.)
<b>Stop 18</b> Date Time of arrival a.m. p.m. Departure time a.m. p.m. City County State Loaded vehicle wt. at departure No. of trailers attached						1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer 4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other -- Specify 7						
<b>Stop 19</b> Date Time of arrival a.m. p.m. Departure time a.m. p.m. City County State Loaded vehicle wt. at departure No. of trailers attached						1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer 4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other -- Specify 7						
<b>Stop 20</b> Date Time of arrival a.m. p.m. Departure time a.m. p.m. City County State Loaded vehicle wt. at departure No. of trailers attached						1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer 4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other -- Specify 7						
<b>Stop 21</b> Date Time of arrival a.m. p.m. Departure time a.m. p.m. City County State Loaded vehicle wt. at departure No. of trailers attached						1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer 4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other -- Specify 7						
<b>Stop 22</b> Date Time of arrival a.m. p.m. Departure time a.m. p.m. City County State Loaded vehicle wt. at departure No. of trailers attached						1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer 4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other -- Specify 7						
<b>Stop 23</b> Date Time of arrival a.m. p.m. Departure time a.m. p.m. City County State Loaded vehicle wt. at departure No. of trailers attached						1 <input type="checkbox"/> Return to base 2 <input type="checkbox"/> Pick up items 3 <input type="checkbox"/> Pick up trailer 4 <input type="checkbox"/> Delivery 5 <input type="checkbox"/> Drop off trailer 6 <input type="checkbox"/> Other -- Specify 7						

If vehicle made more than 23 stops, use page 12 for additional stop information

### Section C — Vehicle Use — Continued

**10. How many stops were made by this vehicle to each TYPE OF PLACE during the sample day? (If the place where vehicle was stopped fits into more than one type of place, pick the one that best describes it) Exclude stops for food, fuel, and rest.**

Code	Type of place	No. of stops	Code	Type of place	No. of stops
A	Railroad facility (servicing facility)	424	K	House, apartment building	434
B	Railroad facility (pickup or delivery of rail shipment)	425	L	Forest, farm, field, farm building, fisheries	435
C	Airport (servicing facility)	426	M	Grain elevator, stockyard	436
D	Airport (pickup or delivery of air shipment)	427	N	Mine, quarry, gravel pit, stone crusher	437
E	Harbor or port facility (servicing facility)	428	O	Construction site	438
F	Harbor/port facility (pickup or delivery of water shipment)	429	P	Manufacturing facility or assembly plant	439
G	Truck/bus terminal not part of airport, harbor, or railroad	430	Q	Store or other retail or service outlet	440
H	Warehouse	431	R	Office building, school, hospital, other public facilities	441
I	Tank farm	432	S	Park or other recreational facility	442
J	Power plant/distribution station	433	T	Other	443

**11. How many stops were made for food, fuel, and rest during the sample day?**

444 \_\_\_\_\_ Stops

**12. What was the odometer reading of the vehicle at 11:59 p.m. on the sample day?**

445 \_\_\_\_\_ Miles (Estimates are acceptable)

**13a. Where was the last pickup or delivery prior to the sample day?**

446 Date \_\_\_\_\_ 447 Departure time \_\_\_\_\_ a.m.  
p.m.  
448 City \_\_\_\_\_ 449 County \_\_\_\_\_ 450 State \_\_\_\_\_  
451 Loaded vehicle weight at departure \_\_\_\_\_ 452 No. of trailers attached \_\_\_\_\_

**b. What type of place was this?**

Enter the type of place letter code from item 10 above

453 \_\_\_\_\_ Type of place

**c. From the reference list of commodities, enter the code and weight for the items picked up or delivered: (See page 6)**

Items delivered			Items picked up		
Commodity code	Hazmat code	Weight (lbs.)	Commodity code	Hazmat code	Weight (lbs.)

**14a. Where was the first pickup or delivery after the sample day?**

454 Date \_\_\_\_\_ 455 Arrival time \_\_\_\_\_ a.m.  
p.m.  
456 City \_\_\_\_\_ 457 County \_\_\_\_\_ 458 State \_\_\_\_\_  
459 Loaded vehicle weight at departure \_\_\_\_\_ 460 No. of trailers attached \_\_\_\_\_

**b. What type of place was this?**

Enter the type of place letter code from item 10 above

461 \_\_\_\_\_ Type of place

**c. How many miles from last stop on the sample day?**

462 \_\_\_\_\_ Miles (Estimates are acceptable)

**d. From the reference list of commodities, enter the code and weight for the items picked up or delivered: (See page 6)**

Items delivered			Items picked up		
Commodity code	Hazmat code	Weight (lbs.)	Commodity code	Hazmat code	Weight (lbs.)

**CERTIFICATION:**

This report is substantially accurate and has been prepared in accordance with instructions.

Name \_\_\_\_\_

Date \_\_\_\_\_

Telephone \_\_\_\_\_

Area code \_\_\_\_\_

Number \_\_\_\_\_

Extension \_\_\_\_\_

ADDITIONAL SAMPLE DAY STOPS										From the reference list of commodities, on page 6 enter the code and weight for the items picked up and/or delivered at each stop (if any). (See instruction sheet)										
(a)						(b)		(c)		(d)				(e)				(f)		
Stop	Date	Time of arrival	a.m.	p.m.	Departure time	a.m.	p.m.	Type of place code	Enter the type of place code from p. 6	Items from previous stop	What was the purpose of the stop? Mark (X) all that apply				Commodity code	Hazmat code	Weight (lbs.)	Commodity code	Hazmat code	Weight (lbs.)
City		County	State		Loaded vehicle wt. at departure				No. of trailers attached		<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer									
City		County	State		Loaded vehicle wt. at departure				No. of trailers attached		<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer									
City		County	State		Loaded vehicle wt. at departure				No. of trailers attached		<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer									
City		County	State		Loaded vehicle wt. at departure				No. of trailers attached		<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer									
City		County	State		Loaded vehicle wt. at departure				No. of trailers attached		<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer									
City		County	State		Loaded vehicle wt. at departure				No. of trailers attached		<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer									
City		County	State		Loaded vehicle wt. at departure				No. of trailers attached		<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer									
City		County	State		Loaded vehicle wt. at departure				No. of trailers attached		<input type="checkbox"/> Return to base <input type="checkbox"/> Pick up items <input type="checkbox"/> Pick up trailer									

Thank you for your cooperation!

(If you made more stops, please copy this page)

Form **NTACB-2**  
(6-14-88)

U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

OMB No. 2125-0540: Approval Expires 12/31/91

## NATIONWIDE TRUCK ACTIVITY AND COMMODITY SURVEY

### REGISTRATION INFORMATION

100	Vehicle Identification Number (VIN)	101	Make of vehicle	102	Year	103	State
104	Sample week 1	105	Sample day 1	106	Substitute day 1		
107	Sample week 2	108	Sample day 2	109	Substitute day 2		

Please complete  
this form and  
RETURN TO:

**BUREAU OF THE CENSUS**  
1201 East Tenth Street  
Jeffersonville, IN 47134

### BE A PART OF AMERICA'S TRANSPORTATION PLANS FOR THE 1990's AND BEYOND!

- We need your help in this Nationwide Truck Activity and Commodity Survey. The information you report on this questionnaire will be used by the government and others planning for future transportation needs such as:
  - New highways
  - Terminal facilities
  - Highway maintenance and repair
- Your vehicle identified in the **Registration Information Section** above was selected in a scientific sample of vehicles to represent the country's truck population.
- Please take some of your valuable time to complete this form for the sample days indicated in the box above.
- We suggest that you take this questionnaire with you in the sampled vehicle on the Sample Days, and complete Sections C and D as you perform your days' activities.
- Please return this questionnaire immediately after your Sample Day 2.

#### Please read before completing this form

This questionnaire covers the activities of the vehicle specified in the **Registration Information Section** above, for the specific sample days indicated. The questionnaire is divided into 4 sections, A, B, C, and D. Sections A and B request general information on the vehicle's characteristics and use. Section C, beginning on page 5, and Section D, beginning on page 9, refer to the vehicle's use on the sample days. Sections C and D contain a diary type listing to report the activities of the vehicle during the sample days.

If the vehicle did not operate on the sample day specified, use its substitute day. If the vehicle did not operate on either the sample day or its substitute day specified, but was active during the sample week, call us collect on (301) 763-1744. Do not substitute another day unless told to do so. The sample days were selected scientifically, and we want to know what the vehicle did on those particular days, even though it may not seem typical to you.

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

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

(Please correct any error in name and address including ZIP Code)

<b>a. Is the vehicle still in your possession?</b>		110	<input type="checkbox"/> YES — Are you the <u>7</u>		2	<input type="checkbox"/> NO — Continue with items b—d	
		111	<input type="checkbox"/> Owner?		} SKIP to Section A on page 2 and continue with questionnaire		
		2	<input type="checkbox"/> Lessee?				
<b>b. When did you dispose of this vehicle?</b> Enter figures only					112	Month	Year
<b>c. How did you dispose of this vehicle?</b>							
113 <input type="checkbox"/> Sold it (or gave it away)    2 <input type="checkbox"/> Junked, scrapped, or otherwise destroyed    3 <input type="checkbox"/> Returned to leasing company    4 <input type="checkbox"/> Other — Specify <u>7</u>							
<b>d. Who is the current owner of this vehicle?</b> 114 <input type="checkbox"/> Unknown							
115 Name				116 Address (Number and Street)			
117 City				118 State		119 ZIP Code	
If this vehicle is no longer in your possession, please sign on page 11 and return the questionnaire immediately.							

# Section A — Vehicle Information

1 a. Do you currently operate this vehicle?

If "No" indicate present status

120 1 ☐ YES

2 ☐ NO

121 1 ☐ Idle

3 ☐ Dismantled

2 ☐ Wrecked

4 ☐ Other — Specify \_\_\_\_\_

b. How many weeks during the past 12 months did you operate this vehicle?

122

\_\_\_\_\_ Weeks

2 a. Where is the current home base of this vehicle?

("Home Base" refers to where the vehicle is usually parked or stationed)

123 City

124 County

125 State

126 ZIP Code

b. How many miles was this vehicle driven during the past 12 months?

127

\_\_\_\_\_ Miles (Estimates are acceptable)

c. In how many states did this vehicle operate during the past 12 months?

128

\_\_\_\_\_ States

d. List the three States with the highest mileage during the past 12 months —

129

(1) \_\_\_\_\_

130

(2) \_\_\_\_\_

131

(3) \_\_\_\_\_

e. Did this vehicle operate in Canada during the past 12 months?

132

1 ☐ YES — Mark (X) the provinces and territories

133 ☐ Newfoundland

139 ☐ Manitoba

134 ☐ Prince Edward Island

140 ☐ Saskatchewan

135 ☐ Nova Scotia

141 ☐ Alberta

136 ☐ New Brunswick

142 ☐ British Columbia

137 ☐ Quebec

143 ☐ Yukon Territory

138 ☐ Ontario

144 ☐ Northwest Territories

2 ☐ NO

f. Did this vehicle operate in Mexico during the past 12 months?

145

1 ☐ YES

2 ☐ NO

3. What percent of this vehicle's fuel during the past 12 months was obtained from —

a. Private fuel dump? .....

146

\_\_\_\_\_ %

b. Gas station (truck stop, etc.)? .....

147

\_\_\_\_\_ %

4 a. SAMPLE WEEK 1

For each day of **sample week 1** (shown in the Registration Information on page 1) check "Yes" if the vehicle operated on that day; otherwise check "No."

(Operating includes traveling empty)

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

148

149

150

151

152

153

154

1 ☐ YES

1 ☐ YES

1 ☐ YES

1 ☐ YES

1 ☐ YES

1 ☐ YES

1 ☐ YES

2 ☐ NO

2 ☐ NO

2 ☐ NO

2 ☐ NO

2 ☐ NO

2 ☐ NO

2 ☐ NO

b. SAMPLE WEEK 2

For each day of **sample week 2** (shown in the Registration Information on page 1) check "Yes" if the vehicle operated on that day; otherwise check "No."

(Operating includes traveling empty)

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

155

156

157

158

159

160

161

1 ☐ YES

1 ☐ YES

1 ☐ YES

1 ☐ YES

1 ☐ YES

1 ☐ YES

1 ☐ YES

2 ☐ NO

2 ☐ NO

2 ☐ NO

2 ☐ NO

2 ☐ NO

2 ☐ NO

2 ☐ NO



## Section B — Vehicle Description

The following questions relate to this vehicle's use during sample day 1, sample day 2, and the past 12 months. If the vehicle did not operate on the sample day, use its substitute day. If the vehicle did not operate on the sample day or substitute day, call (301) 763-1744 collect.

### 1. This truck was MOST FREQUENTLY operated as —

Mark (X) only one box in each column

	Sample day 1	Sample day 2	Past 12 months
a. Personal transportation . . . . .	162 <input type="checkbox"/>	163 <input type="checkbox"/>	164 <input type="checkbox"/>
b. Contract carrier . . . . .	165 <input type="checkbox"/>	166 <input type="checkbox"/>	167 <input type="checkbox"/>
c. Common carrier . . . . .	168 <input type="checkbox"/>	169 <input type="checkbox"/>	170 <input type="checkbox"/>
d. Other business use . . . . .	171 <input type="checkbox"/>	172 <input type="checkbox"/>	173 <input type="checkbox"/>

### 2. How would you best describe this vehicle as it was MOST FREQUENTLY operated during each period?

Mark (X) only one box in each column

a. Straight truck with 4 tires without trailer . . . . .	174 <input type="checkbox"/>	175 <input type="checkbox"/>	176 <input type="checkbox"/>
b. Straight truck with 4 tires pulling trailer(s) . . . . .	177 <input type="checkbox"/>	178 <input type="checkbox"/>	179 <input type="checkbox"/>
c. Straight truck with 6 or more tires without trailer . . . . .	180 <input type="checkbox"/>	181 <input type="checkbox"/>	182 <input type="checkbox"/>
d. Straight truck with 6 or more tires pulling trailer(s) . . . . .	183 <input type="checkbox"/>	184 <input type="checkbox"/>	185 <input type="checkbox"/>
e. Truck-tractor (power unit) pulling trailer(s) . . . . .	186 <input type="checkbox"/>	187 <input type="checkbox"/>	188 <input type="checkbox"/>
f. Truck-tractor without trailer . . . . .	189 <input type="checkbox"/>	190 <input type="checkbox"/>	191 <input type="checkbox"/>
g. Other — Specify in the columns —	192 <input type="checkbox"/>	193 <input type="checkbox"/>	194 <input type="checkbox"/>

### 3. Indicate the kind(s) of trailer(s) pulled during each period.

Mark (X) all that apply

Mark (X) all that apply

Mark (X) only one

a. No trailer pulled . . . . .	195 <input type="checkbox"/>	196 <input type="checkbox"/>	197 <input type="checkbox"/>
b. Utility and other trailers less than 20 feet used with straight truck			
(1) One axle on trailer . . . . .	198 <input type="checkbox"/>	199 <input type="checkbox"/>	200 <input type="checkbox"/>
(2) Two axles on trailer . . . . .	201 <input type="checkbox"/>	202 <input type="checkbox"/>	203 <input type="checkbox"/>
(3) Three or more axles on trailer . . . . .	204 <input type="checkbox"/>	205 <input type="checkbox"/>	206 <input type="checkbox"/>
c. One full trailer used with straight truck			
(1) Two axles on trailer . . . . .	207 <input type="checkbox"/>	208 <input type="checkbox"/>	209 <input type="checkbox"/>
(2) Three axles on trailer . . . . .	210 <input type="checkbox"/>	211 <input type="checkbox"/>	212 <input type="checkbox"/>
(3) Four or more axles on trailer . . . . .	213 <input type="checkbox"/>	214 <input type="checkbox"/>	215 <input type="checkbox"/>
d. One semi-trailer			
(1) One axle on trailer . . . . .	216 <input type="checkbox"/>	217 <input type="checkbox"/>	218 <input type="checkbox"/>
(2) Two axles on trailer . . . . .	219 <input type="checkbox"/>	220 <input type="checkbox"/>	221 <input type="checkbox"/>
(3) Three or more axles on trailer . . . . .	222 <input type="checkbox"/>	223 <input type="checkbox"/>	224 <input type="checkbox"/>
e. Two trailers, one semi- and one full			
(1) Three axles on two trailers . . . . .	225 <input type="checkbox"/>	226 <input type="checkbox"/>	227 <input type="checkbox"/>
(2) Four axles on two trailers . . . . .	228 <input type="checkbox"/>	229 <input type="checkbox"/>	230 <input type="checkbox"/>
(3) Five axles on two trailers . . . . .	231 <input type="checkbox"/>	232 <input type="checkbox"/>	233 <input type="checkbox"/>
(4) Six or more axles on two trailers . . . . .	234 <input type="checkbox"/>	235 <input type="checkbox"/>	236 <input type="checkbox"/>
f. Three trailers, one semi- and two full			
(1) Five axles on three trailers . . . . .	237 <input type="checkbox"/>	238 <input type="checkbox"/>	239 <input type="checkbox"/>
(2) Six axles on three trailers . . . . .	240 <input type="checkbox"/>	241 <input type="checkbox"/>	242 <input type="checkbox"/>
(3) Seven axles on three trailers . . . . .	243 <input type="checkbox"/>	244 <input type="checkbox"/>	245 <input type="checkbox"/>
(4) Eight or more axles on three trailers . . . . .	246 <input type="checkbox"/>	247 <input type="checkbox"/>	248 <input type="checkbox"/>
g. Other — Please describe in detail the number of trailers and axles on those trailers. Specify in the columns —	249 <input type="checkbox"/>	250 <input type="checkbox"/>	251 <input type="checkbox"/>

### Section B — Vehicle Description — Continued

4. Indicate the body type that most closely resembles the vehicle during each sample period. If the power unit is a truck-tractor indicate the body type of the trailer(s) attached.

Mark (X) only one box in each column.

	Sample day 1	Sample day 2	Past 12 months
<b>A. PLATFORM TYPES</b> , includes flatbeds, stakes, flatbeds with added devices, and low boys (goosenecks) . . . . .	252 <input type="checkbox"/>	253 <input type="checkbox"/>	254 <input type="checkbox"/>
<b>B. PICKUP</b> . . . . .	255 <input type="checkbox"/>	256 <input type="checkbox"/>	257 <input type="checkbox"/>
<b>C. PANEL OR COMPACT VAN</b> . . . . .	258 <input type="checkbox"/>	259 <input type="checkbox"/>	260 <input type="checkbox"/>
<b>D. MINI-VAN, UTILITY, STATION WAGON</b> (Bronco, Blazer, Jeep, etc.) . . . . .	261 <input type="checkbox"/>	262 <input type="checkbox"/>	263 <input type="checkbox"/>
<b>E. VAN TYPES</b> , includes enclosed vans, open top vans, drop frame vans, refrigerated, nonrefrigerated, and multistop and high cubes . . . . .	264 <input type="checkbox"/>	265 <input type="checkbox"/>	266 <input type="checkbox"/>
<b>F. SPECIALIZED USE TRUCKS</b>			
1. Automobile or boat transport . . . . .	267 <input type="checkbox"/>	268 <input type="checkbox"/>	269 <input type="checkbox"/>
2. Beverage truck . . . . .	270 <input type="checkbox"/>	271 <input type="checkbox"/>	272 <input type="checkbox"/>
3. Removable dry container on trailer chassis . . . . .	273 <input type="checkbox"/>	274 <input type="checkbox"/>	275 <input type="checkbox"/>
4. Removable liquid container on trailer chassis . . . . .	276 <input type="checkbox"/>	277 <input type="checkbox"/>	278 <input type="checkbox"/>
5. Other cargo container chassis . . . . .	279 <input type="checkbox"/>	280 <input type="checkbox"/>	281 <input type="checkbox"/>
6. Concrete mixer . . . . .	282 <input type="checkbox"/>	283 <input type="checkbox"/>	284 <input type="checkbox"/>
7. Dump truck . . . . .	285 <input type="checkbox"/>	286 <input type="checkbox"/>	287 <input type="checkbox"/>
8. Grain bodies (including hoppers, grain boxes) . . . . .	288 <input type="checkbox"/>	289 <input type="checkbox"/>	290 <input type="checkbox"/>
9. Garbage truck . . . . .	291 <input type="checkbox"/>	292 <input type="checkbox"/>	293 <input type="checkbox"/>
10. Livestock truck, including livestock drop frame . . . . .	294 <input type="checkbox"/>	295 <input type="checkbox"/>	296 <input type="checkbox"/>
11. Pole, logging, or pipe truck . . . . .	297 <input type="checkbox"/>	298 <input type="checkbox"/>	299 <input type="checkbox"/>
12. Tank truck for dry bulk . . . . .	300 <input type="checkbox"/>	301 <input type="checkbox"/>	302 <input type="checkbox"/>
13. Tank truck for liquids or gases (nonhazardous materials) . . . . .	303 <input type="checkbox"/>	304 <input type="checkbox"/>	305 <input type="checkbox"/>
14. Tank truck for liquids or gases (hazardous materials) — Indicate type (from placard on tank)	306 <input type="checkbox"/>	307 <input type="checkbox"/>	308 <input type="checkbox"/>
a. MC-307 . . . . .	309 <input type="checkbox"/>	310 <input type="checkbox"/>	311 <input type="checkbox"/>
b. MC-331 . . . . .	312 <input type="checkbox"/>	313 <input type="checkbox"/>	314 <input type="checkbox"/>
c. MC-312 . . . . .	315 <input type="checkbox"/>	316 <input type="checkbox"/>	317 <input type="checkbox"/>
d. MC-337 . . . . .	318 <input type="checkbox"/>	319 <input type="checkbox"/>	320 <input type="checkbox"/>
e. MC-306 . . . . .	321 <input type="checkbox"/>	322 <input type="checkbox"/>	323 <input type="checkbox"/>
15. Utility truck . . . . .	324 <input type="checkbox"/>	325 <input type="checkbox"/>	326 <input type="checkbox"/>
<b>Note</b> — If none of the above descriptions match the body type of this vehicle or the trailer usually attached to it, mark the "Other" box and describe vehicle.			
<b>G. Other</b> — Specify in the columns —————→	327 <input type="checkbox"/>	328 <input type="checkbox"/>	329 <input type="checkbox"/>

## Section C — Vehicle Use

The following questions relate to the vehicle's use DURING SAMPLE DAY 1. If the vehicle did not operate on the sample day 1, use substitute day 1. If the vehicle did not operate on either day given, call (301) 763-1744 collect.

1. Enter date used (Enter figures only)		401 Month / Day / Year															
2. What was the odometer reading of the vehicle at 12:01 a.m. on sample day 1?		402 _____ Miles (Estimates are acceptable)															
3a. How many miles did the vehicle travel during sample day 1?		403 _____ Miles (Estimates are acceptable)															
b. What percent of those miles were on the INTERSTATE HIGHWAY SYSTEM?		404 _____ %															
c. What percent of those miles were on roads which had four or more lanes but were NOT on the INTERSTATE HIGHWAY SYSTEM?		405 _____ %															
d. What percent of those miles were off-road (little travel on public roads)?		406 _____ %															
4a. How much fuel was used during sample day 1?		407 _____ U.S. gallons (Estimates are acceptable)															
b. How much was paid in highway tolls during sample day 1?		408 \$ _____															
5a. What was the size of the vehicle —		<table border="1"> <thead> <tr> <th>As it left the starting place on sample day 1?</th> <th>During sample day 1 when vehicle was at its maximum weight?</th> </tr> <tr> <th>(1)</th> <th>(2)</th> </tr> </thead> <tbody> <tr> <td>409 Length (ft.) (Front bumper to end of last trailer) . . . . .</td> <td>410 _____ ft.</td> </tr> <tr> <td>411 Height (ft.) . . . . .</td> <td>412 _____ ft.</td> </tr> <tr> <td>413 Tare weight (empty) . . . . .</td> <td>414 _____ lbs.</td> </tr> <tr> <td>415 Loaded vehicle weight (weight of truck and cargo) . . . . .</td> <td>416 _____ lbs.</td> </tr> <tr> <td>417 Percent of payload space utilized . . . . .</td> <td>418 _____ %</td> </tr> </tbody> </table>		As it left the starting place on sample day 1?	During sample day 1 when vehicle was at its maximum weight?	(1)	(2)	409 Length (ft.) (Front bumper to end of last trailer) . . . . .	410 _____ ft.	411 Height (ft.) . . . . .	412 _____ ft.	413 Tare weight (empty) . . . . .	414 _____ lbs.	415 Loaded vehicle weight (weight of truck and cargo) . . . . .	416 _____ lbs.	417 Percent of payload space utilized . . . . .	418 _____ %
As it left the starting place on sample day 1?	During sample day 1 when vehicle was at its maximum weight?																
(1)	(2)																
409 Length (ft.) (Front bumper to end of last trailer) . . . . .	410 _____ ft.																
411 Height (ft.) . . . . .	412 _____ ft.																
413 Tare weight (empty) . . . . .	414 _____ lbs.																
415 Loaded vehicle weight (weight of truck and cargo) . . . . .	416 _____ lbs.																
417 Percent of payload space utilized . . . . .	418 _____ %																
b. How would you best describe the vehicle's loads during sample day 1? (If the vehicle was empty the entire day, mark the box that typically applies)		419 1 <input type="checkbox"/> Single shipments (Truck-load) 2 <input type="checkbox"/> Several shipments in a truck or trailer(s) (Less-than-truck-load), including shipments consolidated by others															
6. Was the vehicle used to haul hazardous materials in quantities large enough to require a special placard due to the Code of Federal Regulations, title 49, Transportation, during sample day 1?		420 1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO															
7a. How many employees, including owner/operators, were on board the vehicle as it left the starting place on sample day 1?		421 _____ Employees on board															
b. How many of these employees drove the vehicle sometime during sample day 1?		422 _____ Employees who drove															
8. Mark all boxes that include the hours during which you operated the vehicle during sample day 1.		423 <table border="0"> <tr> <td>01 <input type="checkbox"/> 12:01 a.m. — 4:00 a.m.</td> <td>06 <input type="checkbox"/> 10:01 a.m. — 4:00 p.m.</td> </tr> <tr> <td>02 <input type="checkbox"/> 4:01 a.m. — 8:00 a.m.</td> <td>05 <input type="checkbox"/> 4:01 p.m. — 8:00 p.m.</td> </tr> <tr> <td>03 <input type="checkbox"/> 6:01 a.m. — 8:00 a.m.</td> <td>07 <input type="checkbox"/> 6:01 p.m. — 8:00 p.m.</td> </tr> <tr> <td>04 <input type="checkbox"/> 8:01 a.m. — 10:00 a.m.</td> <td>08 <input type="checkbox"/> 8:01 p.m. — 12:00 a.m.</td> </tr> </table>		01 <input type="checkbox"/> 12:01 a.m. — 4:00 a.m.	06 <input type="checkbox"/> 10:01 a.m. — 4:00 p.m.	02 <input type="checkbox"/> 4:01 a.m. — 8:00 a.m.	05 <input type="checkbox"/> 4:01 p.m. — 8:00 p.m.	03 <input type="checkbox"/> 6:01 a.m. — 8:00 a.m.	07 <input type="checkbox"/> 6:01 p.m. — 8:00 p.m.	04 <input type="checkbox"/> 8:01 a.m. — 10:00 a.m.	08 <input type="checkbox"/> 8:01 p.m. — 12:00 a.m.						
01 <input type="checkbox"/> 12:01 a.m. — 4:00 a.m.	06 <input type="checkbox"/> 10:01 a.m. — 4:00 p.m.																
02 <input type="checkbox"/> 4:01 a.m. — 8:00 a.m.	05 <input type="checkbox"/> 4:01 p.m. — 8:00 p.m.																
03 <input type="checkbox"/> 6:01 a.m. — 8:00 a.m.	07 <input type="checkbox"/> 6:01 p.m. — 8:00 p.m.																
04 <input type="checkbox"/> 8:01 a.m. — 10:00 a.m.	08 <input type="checkbox"/> 8:01 p.m. — 12:00 a.m.																

## Section C — Vehicle Use — Continued

## Part A — HAZARDOUS MATERIALS

COMMUNITY REFERENCE LIST FOR USE IN ITEMS 9(a), (9), 13(c), AND 14(d)  
This is a list of products, materials, and equipment the vehicle may have carried.

Part A — HAZARDOUS MATERIALS	Hazmat code	Part B — PRODUCTS, EQUIPMENT, MATERIALS, ETC.	Commodity code	Metals and Metal Products	Commodity code
Flammable liquids	41	Agricultural and Food Products		Primary metal products — pipes, ingots, billets, metal sheets, etc.	26
Combustible liquids	42	Live animals — cattle, horses, poultry, hogs, fish, and other marine products, etc.	15	Fabricated metal products and bolts and nuts — <i>Except machinery or transportation equipment (see below)</i>	27
Corrosive liquids	43	Fresh farm products — grain, crops, flowers, nursery stock, raw milk, raw tobacco, etc.	16	Machinery — electrical or nonelectrical	28
Poison B solids	44	Processed foods — canned goods, prepared meats, frozen foods, beverages, bottled water, dairy products, tobacco products, etc.	17	Transportation equipment (including complete vehicles) and parts	29
Poison B liquids	45	Mining Products, unrefined — crude oil, coal, and metal ores	18	Other Manufactured Products	
Flammable solids	46	Building materials — gravel, sand, concrete, glass, and stone, etc.	19	Furniture (wood and nonwood) and/or fixtures — not involved in household moving	30
Oxidizers	47	Forestry, Wood, and Paper Products	20	Textiles and apparel — fibers, leather goods, carpets, clothing, etc.	31
Flammable gas	48	Logs and forest products — <i>Except cut lumber and fabricated wood products, (see below) barks or gums</i>	21	Miscellaneous products of manufacturing — including photographic goods, watches, clocks, jewelry and toys	32
Nonflammable gas	49	Lumber and fabricated wood products — <i>Except furniture</i>	22	Miscellaneous	
Poison A	50	Paper, printed matter, and paper products	23	Moving of household and office furniture, including exhibits — from home, offices, etc., under contract	33
Corrosive solids	51	Chemicals, Petroleum, and Allied Products	24	Mixed cargo, general freight, personal goods, mail and express traffic, and small packaged freight	34
Explosives, A or B	52	Chemicals and/or drugs — <i>Including fertilizers, pesticides, cosmetics, paints, etc.</i>	25	Tools/parts for specialized use as in craftsman's vehicle	35
Blasting agents	53	Petroleum, petroleum products, paving, and asphalt or tar cements		Scrap, garbage, trash	36
Radioactive materials	54	Plastics and/or rubber products		Industrial water	37
ORM — A, B, or C	55			Other — <i>Please describe in detail</i>	38
ORM E	56				39
Hazardous materials not listed above —	57				40
Specify ↴					

## Type of Place Codes

(Refer to these codes for completing items 9(b), 13(b), and 14(b))

A — Railroad facility (servicing facility)	F — Harbor/port facility (pickup or delivery of water shipment)	J — Power plant/distribution station	O — Construction site
B — Railroad facility (pickup or delivery of rail shipment)	G — Truck/bus terminal not part of airport, harbor, or railroad	K — House, apartment building	P — Manufacturing facility or assembly plant
C — Airport (servicing facility)	H — Warehouse	L — Forest, farm, field, farm building, fisheries	Q — Store or other retail or service outlet
D — Airport (pickup or delivery of air shipment)	I — Tank farm	M — Grain elevator, stockyard	R — Office building, school, hospital, other public facilities
E — Harbor or port facility (servicing facility)		N — Mine, quarry, gravel pit, stone crusher	S — Park or other recreational facility
			T — Other

## Section C — Vehicle Use — Continued

9. Enter below the following data for EACH STOP during the entire SAMPLE DAY 1 only. Exclude stops for food, fuel or rest.													
SAMPLE DAY 1 STOPS				Type of place code		Miles from previous stop?		What was the purpose of the stop?					
If traveling at the beginning of sample day, enter where vehicle was at 12:01 a.m. for starting place.				Enter the type of place code from above		Mark (X) all that apply		From the reference list of commodities, on page 6 enter the code and weight for the items picked up and/or delivered at each stop (if any). (See instruction sheet)					
(a)				(b)		(c)		(d)		(e)		(f)	
9.0 Starting place (Mo/Day)				Departure time						Commodity code		Weight (lbs.)	
City				County		State				Commodity code		Weight (lbs.)	
Loaded vehicle wt. at departure				No. of trailers attached						Commodity code		Weight (lbs.)	
Stop 1 Arrival time				Departure time		From starting place		1 <input type="checkbox"/> Base		4 <input type="checkbox"/> Delivery			
City				County		State		2 <input type="checkbox"/> Pick up items		5 <input type="checkbox"/> Drop off trailer			
Loaded vehicle wt. at departure				No. of trailers attached				3 <input type="checkbox"/> Pick up trailer		6 <input type="checkbox"/> Other — Specify 7			
Stop 2 Arrival time				Departure time		From stop 1		1 <input type="checkbox"/> Return to base		4 <input type="checkbox"/> Delivery			
City				County		State		2 <input type="checkbox"/> Pick up items		5 <input type="checkbox"/> Drop off trailer			
Loaded vehicle wt. at departure				No. of trailers attached				3 <input type="checkbox"/> Pick up trailer		6 <input type="checkbox"/> Other — Specify 7			
Stop 3 Arrival time				Departure time		From stop 2		1 <input type="checkbox"/> Return to base		4 <input type="checkbox"/> Delivery			
City				County		State		2 <input type="checkbox"/> Pick up items		5 <input type="checkbox"/> Drop off trailer			
Loaded vehicle wt. at departure				No. of trailers attached				3 <input type="checkbox"/> Pick up trailer		6 <input type="checkbox"/> Other — Specify 7			
Stop 4 Arrival time				Departure time		From stop 3		1 <input type="checkbox"/> Return to base		4 <input type="checkbox"/> Delivery			
City				County		State		2 <input type="checkbox"/> Pick up items		5 <input type="checkbox"/> Drop off trailer			
Loaded vehicle wt. at departure				No. of trailers attached				3 <input type="checkbox"/> Pick up trailer		6 <input type="checkbox"/> Other — Specify 7			
Stop 5 Arrival time				Departure time		From stop 4		1 <input type="checkbox"/> Return to base		4 <input type="checkbox"/> Delivery			
City				County		State		2 <input type="checkbox"/> Pick up items		5 <input type="checkbox"/> Drop off trailer			
Loaded vehicle wt. at departure				No. of trailers attached				3 <input type="checkbox"/> Pick up trailer		6 <input type="checkbox"/> Other — Specify 7			

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If vehicle made more than 5 stops, use page 12 for additional stop information

## Section C — Vehicle Use — Continued

**10. How many stops were made by this vehicle to each TYPE OF PLACE during sample day 1? (If the place where vehicle was stopped fits into more than one type of place, pick the one that best describes it) Exclude stops for food, fuel, and rest.**

Code	Type of place	No. of stops	Code	Type of place	No. of stops
<b>A</b>	Railroad facility (servicing facility)	<sup>424</sup>	<b>K</b>	House, apartment building	<sup>434</sup>
<b>B</b>	Railroad facility (pickup or delivery of rail shipment)	<sup>425</sup>	<b>L</b>	Forest, farm, field, farm building, fisheries	<sup>435</sup>
<b>C</b>	Airport (servicing facility)	<sup>426</sup>	<b>M</b>	Grain elevator, stockyard	<sup>436</sup>
<b>D</b>	Airport (pickup or delivery of air shipment)	<sup>427</sup>	<b>N</b>	Mine, quarry, gravel pit, stone crusher	<sup>437</sup>
<b>E</b>	Harbor or port facility (servicing facility)	<sup>428</sup>	<b>O</b>	Construction site	<sup>438</sup>
<b>F</b>	Harbor/port facility (pickup or delivery of water shipment)	<sup>429</sup>	<b>P</b>	Manufacturing facility or assembly plant	<sup>439</sup>
<b>G</b>	Truck/bus terminal not part of airport, harbor, or railroad	<sup>430</sup>	<b>Q</b>	Store or other retail or service outlet	<sup>440</sup>
<b>H</b>	Warehouse	<sup>431</sup>	<b>R</b>	Office building, school, hospital, other public facilities	<sup>441</sup>
<b>I</b>	Tank farm	<sup>432</sup>	<b>S</b>	Park or other recreational facility	<sup>442</sup>
<b>J</b>	Power plant/distribution station	<sup>433</sup>	<b>T</b>	Other	<sup>443</sup>

**11. How many stops were made for food, fuel, and rest, during sample day 1?**

<sup>444</sup> \_\_\_\_\_ Stops

**12. What was the odometer reading of the vehicle at 11:59 p.m. on sample day 1?**

<sup>445</sup> \_\_\_\_\_ Miles (Estimates are acceptable)

**13a. Where was the last pickup or delivery prior to sample day 1?**

<sup>446</sup> Date \_\_\_\_\_ <sup>447</sup> Departure time \_\_\_\_\_ a.m.  
p.m.  
<sup>448</sup> City \_\_\_\_\_ <sup>449</sup> County \_\_\_\_\_ <sup>450</sup> State \_\_\_\_\_  
<sup>451</sup> Loaded vehicle weight at departure \_\_\_\_\_ <sup>452</sup> No. of trailers attached \_\_\_\_\_

**b. What type of place was this?**

Enter the type of place letter code from item 10 above

<sup>453</sup> \_\_\_\_\_ Type of place

**c. From the reference list of commodities, enter the code and weight for the items picked up or delivered: (See page 6)**

Items delivered			Items picked up		
Commodity code	Hazmat code	Weight (lbs.)	Commodity code	Hazmat code	Weight (lbs.)

**14a. Where was the first pickup or delivery after sample day 1?**

<sup>454</sup> Date \_\_\_\_\_ <sup>455</sup> Arrival time \_\_\_\_\_ a.m.  
p.m.  
<sup>456</sup> City \_\_\_\_\_ <sup>457</sup> County \_\_\_\_\_ <sup>458</sup> State \_\_\_\_\_  
<sup>459</sup> Loaded vehicle weight at departure \_\_\_\_\_ <sup>460</sup> No. of trailers attached \_\_\_\_\_

**b. What type of place was this?**

Enter the type of place letter code from item 10 above

<sup>461</sup> \_\_\_\_\_ Type of place

**c. How many miles from last stop on sample day 1?**

<sup>462</sup> \_\_\_\_\_ Miles (Estimates are acceptable)

**d. From the reference list of commodities, enter the code and weight for the items picked up or delivered: (See page 6)**

Items delivered			Items picked up		
Commodity code	Hazmat code	Weight (lbs.)	Commodity code	Hazmat code	Weight (lbs.)

## Section D — Vehicle Use

The following questions relate to the vehicle's use DURING SAMPLE DAY 2. If the vehicle did not operate on the sample day 2, use substitute day 2. If the vehicle did not operate on either day given, call (301) 763-1744 collect.

1. Enter date used (Enter figures only)		501 Month / Day / Year													
2. What was the odometer reading of the vehicle at 12:01 a.m. on sample day 2?		502 _____ Miles (Estimates are acceptable)													
3a. How many miles did the vehicle travel during sample day 2?		503 _____ Miles (Estimates are acceptable)													
b. What percent of those miles were on the INTERSTATE HIGHWAY SYSTEM?		504 _____ %													
c. What percent of those miles were on roads which had four or more lanes but were NOT on the INTERSTATE HIGHWAY SYSTEM?		505 _____ %													
d. What percent of those miles were off-road (little travel on public roads)?		506 _____ %													
4a. How much fuel was used during sample day 2?		507 _____ U.S. gallons (Estimates are acceptable)													
b. How much was paid in highway tolls during sample day 2?		508 \$ _____													
5a. What was the size of the vehicle —		<table border="1"> <thead> <tr> <th>As it left the starting place on sample day 2 (1)</th> <th>During sample day 2 when vehicle was at its maximum weight? (2)</th> </tr> </thead> <tbody> <tr> <td>509 Length (ft.) (Front bumper to end of last trailer) . . . . .</td> <td>510 ft.</td> </tr> <tr> <td>511 Height (ft.) . . . . .</td> <td>512 ft.</td> </tr> <tr> <td>513 Tare weight (empty) . . . . .</td> <td>514 lbs.</td> </tr> <tr> <td>515 Loaded vehicle weight (weight of truck and cargo) . . . . .</td> <td>516 lbs.</td> </tr> <tr> <td>517 Percent of payload space utilized . . . . .</td> <td>518 %</td> </tr> </tbody> </table>		As it left the starting place on sample day 2 (1)	During sample day 2 when vehicle was at its maximum weight? (2)	509 Length (ft.) (Front bumper to end of last trailer) . . . . .	510 ft.	511 Height (ft.) . . . . .	512 ft.	513 Tare weight (empty) . . . . .	514 lbs.	515 Loaded vehicle weight (weight of truck and cargo) . . . . .	516 lbs.	517 Percent of payload space utilized . . . . .	518 %
As it left the starting place on sample day 2 (1)	During sample day 2 when vehicle was at its maximum weight? (2)														
509 Length (ft.) (Front bumper to end of last trailer) . . . . .	510 ft.														
511 Height (ft.) . . . . .	512 ft.														
513 Tare weight (empty) . . . . .	514 lbs.														
515 Loaded vehicle weight (weight of truck and cargo) . . . . .	516 lbs.														
517 Percent of payload space utilized . . . . .	518 %														
b. How would you best describe the vehicle's loads during sample day 2? (If the vehicle was empty the entire day, mark the box that typically applies)		519 1 <input type="checkbox"/> Single shipments (Truck-load) 2 <input type="checkbox"/> Several shipments in a truck or trailer(s) (Less-than-truck-load), including shipments consolidated by others													
6. Was the vehicle used to haul hazardous materials in quantities large enough to require a special placard due to the Code of Federal Regulations, title 49, Transportation, during sample day 2?		520 1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO													
7a. How many employees, including owner/operators, were on board the vehicle as it left the starting place on sample day 2?		521 _____ Employees on board													
b. How many of these employees drove the vehicle sometime during sample day 2?		522 _____ Employees who drove													
8. Mark all boxes that include the hours during which you operated the vehicle during sample day 2.		523 01 <input type="checkbox"/> 12:01 a.m. — 4:00 a.m.    06 <input type="checkbox"/> 10:01 a.m. — 4:00 p.m. 02 <input type="checkbox"/> 4:01 a.m. — 8:00 a.m.    07 <input type="checkbox"/> 4:01 p.m. — 8:00 p.m. 03 <input type="checkbox"/> 8:01 a.m. — 12:00 a.m.    08 <input type="checkbox"/> 8:01 p.m. — 12:00 a.m. 04 <input type="checkbox"/> 8:01 a.m. — 10:00 a.m.    08 <input type="checkbox"/> 8:01 p.m. — 12:00 a.m.													

## Section D — Vehicle Use — Continued

9. Enter below the following data for EACH STOP during the entire SAMPLE DAY 2 only. Exclude stops for food, fuel or rest.

SAMPLE DAY 2 STOPS				Type of place code	Miles from previous stop	What was the purpose of the stop?	Items delivered			Items picked up		
If traveling at the beginning of sample day, enter where vehicle was at 12:01 a.m. for starting place.				Enter the type of place code from p. 6		Mark (X) all that apply	Commodity code	Hazmat code	Weight (lbs.)	Commodity code	Hazmat code	Weight (lbs.)
(a)				(b)	(c)	(d)	(e)			(f)		
9:00 Starting place (Mo./Day)				Departure time								
City		County	State									
Loaded vehicle wt. at departure		No. of trailers attached										
Stop 1 Arrival time				Departure time	From starting place							
City		County	State									
Loaded vehicle wt. at departure		No. of trailers attached										
Stop 2 Arrival time				Departure time	From stop 1							
City		County	State									
Loaded vehicle wt. at departure		No. of trailers attached										
Stop 3 Arrival time				Departure time	From stop 2							
City		County	State									
Loaded vehicle wt. at departure		No. of trailers attached										
Stop 4 Arrival time				Departure time	From stop 3							
City		County	State									
Loaded vehicle wt. at departure		No. of trailers attached										
Stop 5 Arrival time				Departure time	From stop 4							
City		County	State									
Loaded vehicle wt. at departure		No. of trailers attached										

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If vehicle made more than 5 stops, use page 12 for additional stop information



## Section D — Vehicle Use — Continued

**10. How many stops were made by this vehicle to each TYPE OF PLACE during sample day 2? (If the place where vehicle was stopped fits into more than one type of place, pick the one that best describes it) Exclude stops for food, fuel, and rest.**

Code	Type of place	No. of stops	Code	Type of place	No. of stops
<b>A</b>	Railroad facility (servicing facility)	524	<b>K</b>	House, apartment building	534
<b>B</b>	Railroad facility (pickup or delivery of rail shipment)	525	<b>L</b>	Forest, farm, field, farm building, fisheries	535
<b>C</b>	Airport (servicing facility)	526	<b>M</b>	Grain elevator, stockyard	536
<b>D</b>	Airport (pickup or delivery of air shipment)	527	<b>N</b>	Mine, quarry, gravel pit, stone crusher	537
<b>E</b>	Harbor or port facility (servicing facility)	528	<b>O</b>	Construction site	538
<b>F</b>	Harbor/port facility (pickup or delivery of water shipment)	529	<b>P</b>	Manufacturing facility or assembly plant	539
<b>G</b>	Truck/bus terminal not part of airport, harbor, or railroad	530	<b>Q</b>	Store or other retail or service outlet	540
<b>H</b>	Warehouse	531	<b>R</b>	Office building, school, hospital, other public facilities	541
<b>I</b>	Tank farm	532	<b>S</b>	Park or other recreational facility	542
<b>J</b>	Power plant/distribution station	533	<b>T</b>	Other	543

**11. How many stops were made for food, fuel, and rest, during sample day 2?**

544 \_\_\_\_\_ Stops

**12. What was the odometer reading of the vehicle at 11:59 p.m. on sample day 2?**

545 \_\_\_\_\_ Miles (Estimates are acceptable)

**13a. Where was the last pickup or delivery prior to sample day 2?**

546 Date \_\_\_\_\_ 547 Departure time \_\_\_\_\_ a.m.  
p.m.  
548 City \_\_\_\_\_ 549 County \_\_\_\_\_ 550 State \_\_\_\_\_  
551 Loaded vehicle weight at departure \_\_\_\_\_ 552 No. of trailers attached \_\_\_\_\_

**b. What type of place was this?**

Enter the type of place letter code from item 10 above

553 \_\_\_\_\_ Type of place

**c. From the reference list of commodities, enter the code and weight for the items picked up or delivered: (See page 6)**

Items delivered			Items picked up		
Commodity code	Hazmat code	Weight (lbs.)	Commodity code	Hazmat code	Weight (lbs.)

**14a. Where was the first pickup or delivery after sample day 2?**

554 Date \_\_\_\_\_ 555 Arrival time \_\_\_\_\_ a.m.  
p.m.  
556 City \_\_\_\_\_ 557 County \_\_\_\_\_ 558 State \_\_\_\_\_  
559 Loaded vehicle weight at departure \_\_\_\_\_ 560 No. of trailers attached \_\_\_\_\_

**b. What type of place was this?**

Enter the type of place letter code from item 10 above

561 \_\_\_\_\_ Type of place

**c. How many miles from last stop on sample day 2?**

562 \_\_\_\_\_ Miles (Estimates are acceptable)

**d. From the reference list of commodities, enter the code and weight for the items picked up or delivered: (See page 6)**

Items delivered			Items picked up		
Commodity code	Hazmat code	Weight (lbs.)	Commodity code	Hazmat code	Weight (lbs.)

## CERTIFICATION

This report is substantially accurate and has been prepared in accordance with instructions.

Name \_\_\_\_\_

Date \_\_\_\_\_

Telephone \_\_\_\_\_

Area code \_\_\_\_\_

Number \_\_\_\_\_

Extension \_\_\_\_\_

**ADDITIONAL SAMPLE DAY STOPS**

Only use this section if this vehicle made more than 5 stops on either of the sample days.

ADDITIONAL SAMPLE DAY STOPS				Type of place code		Miles from previous stop	What was the purpose of the stop?	Items delivered			Items picked up		
				Enter the type of place code from p. 6		(c)	Mark (X) all that apply	Commodity code	Hazmat code	Weight (lbs.)	Commodity code	Hazmat code	Weight (lbs.)
Stop	Date	Time of arrival	Departure time										
		a.m. p.m.	a.m. p.m.										
City		County	State										
Loaded vehicle wt. at departure				No. of trailers attached									
Stop	Date	Time of arrival	Departure time										
		a.m. p.m.	a.m. p.m.										
City		County	State										
Loaded vehicle wt. at departure				No. of trailers attached									
Stop	Date	Time of arrival	Departure time										
		a.m. p.m.	a.m. p.m.										
City		County	State										
Loaded vehicle wt. at departure				No. of trailers attached									
Stop	Date	Time of arrival	Departure time										
		a.m. p.m.	a.m. p.m.										
City		County	State										
Loaded vehicle wt. at departure				No. of trailers attached									
Stop	Date	Time of arrival	Departure time										
		a.m. p.m.	a.m. p.m.										
City		County	State										
Loaded vehicle wt. at departure				No. of trailers attached									
Stop	Date	Time of arrival	Departure time										
		a.m. p.m.	a.m. p.m.										
City		County	State										
Loaded vehicle wt. at departure				No. of trailers attached									

Thank you for your cooperation!

(If you made more stops, please copy this page)

From the references list of commodities, on page 6 enter the code and weight for the items picked up and/or delivered at each stop (if any). (See instruction sheet)



U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

FORM

TC-9501

## 1987 CENSUS OF TRANSPORTATION TRUCK INVENTORY AND USE SURVEY

OMB APPROVAL NO. 0607-0582 EXPIRES 12/89

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

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

Please complete this  
form and RETURN TO

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

**DUE DATE: 15 days after receipt of form**

### Important — Please read

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

**ESTIMATES ARE ACCEPTABLE.**

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

CENSUS USE					
REGISTRATION INFORMATION					
101	Make of vehicle	102	Year of model	103	State
				104	License number
				105	Vehicle identification number (VIN)
Item 1 — When did you obtain this vehicle? Enter figures only		110	Month	Year	
Item 2 — How did you obtain this vehicle?					
111		1 <input type="checkbox"/> Purchased it new			
		2 <input type="checkbox"/> Purchased it used (or otherwise acquired)			
		3 <input type="checkbox"/> Leased or rented it FROM someone else — Continue with items 2a and b			
a. How was this vehicle leased or rented?					
112		1 <input type="checkbox"/> Without a driver			
		2 <input type="checkbox"/> With a driver other than an owner-operator			
		3 <input type="checkbox"/> With an owner-operator as driver			
b. Was the agreement for 12 months or more?					
113		2 <input type="checkbox"/> NO			
		1 <input type="checkbox"/> YES — Which of the following did the leasing agreement include? Mark (X) all that apply.			
		114 <input type="checkbox"/> Financing only (Do not mark if installment sales contract)			
		115 <input type="checkbox"/> Full maintenance			
		116 <input type="checkbox"/> Maintenance on specified parts only			
		117 <input type="checkbox"/> Payment on taxes			
		118 <input type="checkbox"/> Obtaining licenses and permits			
		119 <input type="checkbox"/> Recordkeeping for leased trucks			
		120 <input type="checkbox"/> Other — Specify			
Item 3 — Is this vehicle still in your possession?					
206		1 <input type="checkbox"/> YES — Are you the —		207 1 <input type="checkbox"/> owner? 2 <input type="checkbox"/> lessee? } SKIP to item 4 and continue with questionnaire	
		2 <input type="checkbox"/> NO — Please continue with this questionnaire, answering each item according to how you used the vehicle during the last 12 months you owned (or leased) it. Continue with items 3a and b.			
a. When did you dispose of this vehicle? Enter figures only		208	Month	Year	
b. How did you dispose of this vehicle?					
209		1 <input type="checkbox"/> Sold it (or gave it away)			
		2 <input type="checkbox"/> Junked, scrapped, or otherwise destroyed			
		3 <input type="checkbox"/> Returned to leasing company			
Item 9 — Continued		331 Pounds			
c. What was the loaded weight of the trailer most often attached to the vehicle? An estimate is acceptable		335 Inches			
d. What was the width of the trailer most often attached to the vehicle?		400 Miles			
Item 10 — How many miles was this vehicle driven during 1987? An estimate is acceptable		401 Miles			
Item 11 — How many miles has this vehicle been driven since it was manufactured?		NOTE — If it is no longer in your possession, please estimate the total lifetime mileage at the time you last operated it. If the odometer/speedometer is broken, please give your best estimate. If the odometer has turned over (100,000 + miles), please enter the total figure.			
Item 12 — How many miles-per-gallon (MPG) did this vehicle average during 1987? (Use tenths, if available.)		402 Miles/Tenths			
Example: 10.5 MPG should be entered as		Miles/Tenths 10 5 Enter miles per gallon			
Item 13 — Where was the home base of this vehicle on July 1, 1987? If put into service after July 1, 1987, enter current home base		404 City			
		405 County		406 State	407 ZIP Code
Item 14 — What percent of annual mileage was driven OUTSIDE the home base state? An estimate is acceptable. (If none, enter zero.)		408 %			
Item 15 — What PERCENTAGE of this vehicle's ANNUAL MILEAGE was accounted for by the type of trips listed below? (If all trips were within one range, enter 100%. If more than one range is applicable, be sure that percentages add up to 100%.)					
Trips off-the-road, little travel on public roads		409 %			
Trips less than a 50 mile radius of vehicle's home base		410 %			
Trips within a 50 — 200 mile radius of vehicle's home base		411 %			
Trips beyond a 200 mile radius of vehicle's home base		412 %			
TOTAL — Should equal 100%		100%			

<p><b>Item 4 - Did you lease or rent out this vehicle TO anyone else?</b></p> <p>210 1 <input type="checkbox"/> YES - Continue with items 4a and b 2 <input checked="" type="checkbox"/> NO - SKIP to item 5</p> <p><b>a. How was it leased or rented out?</b></p> <p>211 1 <input type="checkbox"/> Without a driver 2 <input type="checkbox"/> With a driver other than an owner-operator 3 <input type="checkbox"/> With an owner-operator as driver</p> <p><b>b. Was the agreement for 12 months or more?</b></p> <p>213 1 <input type="checkbox"/> NO 2 <input checked="" type="checkbox"/> YES - Which of the following did the leasing agreement include? Mark (X) all that apply</p> <p>214 <input type="checkbox"/> Financing only (Do not mark if installment sales contract) 215 <input type="checkbox"/> Full maintenance 216 <input type="checkbox"/> Maintenance on specified parts only 217 <input type="checkbox"/> Payment of taxes 218 <input type="checkbox"/> Obtaining licenses and permits 219 <input type="checkbox"/> Recordkeeping for leased trucks 220 <input type="checkbox"/> Other - Specify <u>                    </u></p>	<p><b>Item 16 - Not applicable to this form.</b></p> <p><b>Item 17 - What is the horsepower rating of this vehicle's engine?</b> 341 <u>                    </u> Horsepower</p> <p><b>Item 18 - What is the size (displacement) of this vehicle's engine?</b> Enter cubic inches, cubic centimeters, or liters, whichever is applicable</p> <p>342 Cubic inches (CI) <u>                    </u> OR 343 Cubic centimeters (CC) <u>                    </u> OR 344 Liters (L) <u>                    </u></p> <p><b>Item 19 - What kind of fuel does this vehicle use?</b></p> <p>345 1 <input type="checkbox"/> Gasoline 4 <input checked="" type="checkbox"/> Other - Specify fuel <u>                    </u> 2 <input type="checkbox"/> Diesel 3 <input type="checkbox"/> Liquefied petroleum gas (LPG)</p> <p><b>Item 20 - Does this vehicle have any of the following? Mark (X) all that apply</b></p> <p>354 <input type="checkbox"/> Radial tires 359 <input type="checkbox"/> Air conditioning 358 <input type="checkbox"/> Power steering 365 <input type="checkbox"/> Front-wheel drive</p>																																							
<p><b>Item 5 - What is the body type of this vehicle?</b></p> <p>311 01 <input type="checkbox"/> Pickup 25 <input type="checkbox"/> Mini-van 02 <input type="checkbox"/> Van other than mini-van 24 <input type="checkbox"/> Utility (For example: Bronco, Blazer, Jeep, CJ-5, 7, etc.) 26 <input type="checkbox"/> Station wagon built on truck chassis (For example: Suburban, Wagoneer, etc.) 00 <input type="checkbox"/> Other - If the above descriptions do not match the body type of this vehicle please describe the body type in detail <u>                    </u></p>	<p><b>Item 21 - Who performed the general maintenance and major overhauls on this vehicle? Mark (X) all that apply</b></p> <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;"></td> <td style="width: 20%; text-align: center;"><b>General maintenance</b></td> <td style="width: 20%; text-align: center;"><b>Major overhauls</b></td> </tr> <tr> <td>Yoursell</td> <td style="text-align: center;">370 <input type="checkbox"/></td> <td style="text-align: center;">378 <input type="checkbox"/></td> </tr> <tr> <td>Your company's own maintenance facilities</td> <td style="text-align: center;">371 <input type="checkbox"/></td> <td style="text-align: center;">379 <input type="checkbox"/></td> </tr> <tr> <td>Dealership's service department</td> <td style="text-align: center;">372 <input type="checkbox"/></td> <td style="text-align: center;">380 <input type="checkbox"/></td> </tr> <tr> <td>Leasing company</td> <td style="text-align: center;">373 <input type="checkbox"/></td> <td style="text-align: center;">381 <input type="checkbox"/></td> </tr> <tr> <td>Independent garage or private mechanic (includes gasoline or service stations)</td> <td style="text-align: center;">374 <input type="checkbox"/></td> <td style="text-align: center;">382 <input type="checkbox"/></td> </tr> <tr> <td>Component distributorship (engine, transmission, etc.)</td> <td style="text-align: center;">375 <input type="checkbox"/></td> <td style="text-align: center;">383 <input type="checkbox"/></td> </tr> <tr> <td>No one</td> <td style="text-align: center;">376 <input type="checkbox"/></td> <td style="text-align: center;">384 <input type="checkbox"/></td> </tr> <tr> <td>Other - Specify <u>                    </u></td> <td style="text-align: center;">377 <input type="checkbox"/></td> <td style="text-align: center;">385 <input type="checkbox"/></td> </tr> </table>		<b>General maintenance</b>	<b>Major overhauls</b>	Yoursell	370 <input type="checkbox"/>	378 <input type="checkbox"/>	Your company's own maintenance facilities	371 <input type="checkbox"/>	379 <input type="checkbox"/>	Dealership's service department	372 <input type="checkbox"/>	380 <input type="checkbox"/>	Leasing company	373 <input type="checkbox"/>	381 <input type="checkbox"/>	Independent garage or private mechanic (includes gasoline or service stations)	374 <input type="checkbox"/>	382 <input type="checkbox"/>	Component distributorship (engine, transmission, etc.)	375 <input type="checkbox"/>	383 <input type="checkbox"/>	No one	376 <input type="checkbox"/>	384 <input type="checkbox"/>	Other - Specify <u>                    </u>	377 <input type="checkbox"/>	385 <input type="checkbox"/>												
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<p><b>Item 6 - How many axles are on this vehicle and how many of them are driving axles?</b> (Do not include axles on any trailers pulled.)</p> <p><b>a. Total number of axles on truck (include front and rear axles)</b></p> <p>316 1 <input type="checkbox"/> Two axles (4 tires) 3 <input type="checkbox"/> Three axles 2 <input type="checkbox"/> Two axles (6 tires) 4 <input type="checkbox"/> Four or more axles</p> <p><b>b. Number of driving (powered) axles on truck</b></p> <p>318 1 <input type="checkbox"/> One driving axle 2 <input type="checkbox"/> Two driving axles 3 <input type="checkbox"/> Three or more driving axles</p>	<p><b>Item 22a - Which of the following best describes the primary way this vehicle was operated?</b></p> <p>501 1 <input type="checkbox"/> 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 employees) - SKIP to item 23 2 <input type="checkbox"/> PERSONAL TRANSPORTATION - Operated as a personal-use vehicle in place of an automobile for pleasure driving, travel to work, etc. (NO BUSINESS USE) - SKIP to item 26 3 <input type="checkbox"/> FOR HIRE - SKIP to item 22b 4 <input type="checkbox"/> DAILY RENTAL (Not motor carrier) - SKIP to item 23 5 <input type="checkbox"/> MIXED</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Percent business use</td> <td style="width: 20%; text-align: center;">502 <u>                    </u></td> <td style="width: 20%; text-align: center;">%</td> </tr> <tr> <td>Percent personal use</td> <td style="text-align: center;">503 <u>                    </u></td> <td style="text-align: center;">%</td> </tr> <tr> <td>Percent for hire (includes intercorporate hauling and trip leasing, etc.)</td> <td style="text-align: center;">504 <u>                    </u></td> <td style="text-align: center;">%</td> </tr> </table> <p style="text-align: center;">Complete b below</p> <p><b>b. If this vehicle was for hire, indicate below the type of for hire operation. Enter percentage of mileage for each category. (See instruction sheet for further information and definitions.)</b></p> <p>(1) Operation type</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">MOTOR CARRIER</td> <td style="width: 20%; text-align: center;">506 <u>                    </u></td> <td style="width: 20%; text-align: center;">%</td> </tr> <tr> <td>OWNER OPERATOR as an independent leasee to a company</td> <td style="text-align: center;">507 <u>                    </u></td> <td style="text-align: center;">%</td> </tr> <tr> <td>(2) Jurisdiction served</td> <td style="text-align: center;">508 <u>                    </u></td> <td style="text-align: center;">%</td> </tr> <tr> <td>INTERSTATE</td> <td style="text-align: center;">509 <u>                    </u></td> <td style="text-align: center;">%</td> </tr> <tr> <td>INTRASTATE</td> <td style="text-align: center;">510 <u>                    </u></td> <td style="text-align: center;">%</td> </tr> <tr> <td>LOCAL</td> <td style="text-align: center;">511 <u>                    </u></td> <td style="text-align: center;">%</td> </tr> <tr> <td>(3) Kind of carrier</td> <td style="text-align: center;">512 <u>                    </u></td> <td style="text-align: center;">%</td> </tr> <tr> <td>CONTRACT</td> <td style="text-align: center;">513 <u>                    </u></td> <td style="text-align: center;">%</td> </tr> <tr> <td>COMMON</td> <td style="text-align: center;">514 <u>                    </u></td> <td style="text-align: center;">%</td> </tr> <tr> <td>EXEMPT</td> <td style="text-align: center;">515 <u>                    </u></td> <td style="text-align: center;">%</td> </tr> </table> <p>(4) Was this vehicle operated under ICC authority?</p> <p>518 1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO</p>	Percent business use	502 <u>                    </u>	%	Percent personal use	503 <u>                    </u>	%	Percent for hire (includes intercorporate hauling and trip leasing, etc.)	504 <u>                    </u>	%	MOTOR CARRIER	506 <u>                    </u>	%	OWNER OPERATOR as an independent leasee to a company	507 <u>                    </u>	%	(2) Jurisdiction served	508 <u>                    </u>	%	INTERSTATE	509 <u>                    </u>	%	INTRASTATE	510 <u>                    </u>	%	LOCAL	511 <u>                    </u>	%	(3) Kind of carrier	512 <u>                    </u>	%	CONTRACT	513 <u>                    </u>	%	COMMON	514 <u>                    </u>	%	EXEMPT	515 <u>                    </u>	%
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<p><b>Item 7 - What is the overall length of this vehicle or vehicle and trailer (if a trailer was pulled more than 50 percent of the annual miles)? Report distance from front bumper to rear of vehicle or trailer, whichever is applicable</b></p> <p>324 <u>                    </u> Feet</p> <p><b>Item 8a - What was the average weight (empty weight plus weight of cargo) of this vehicle as it was usually operated?</b> An estimate is acceptable</p> <p>328 <u>                    </u> Pounds</p> <p><b>b. What percent of annual mileage did this vehicle carry no payload?</b> <u>                    </u> %</p> <p><b>c. What percent of annual mileage did this vehicle carry payloads that -</b></p> <p>(1) filled its maximum cargo size? <u>                    </u> %</p> <p>(2) weighed the maximum cargo weight? <u>                    </u> %</p>	<p><b>Item 9 - During 1987, did you attach any trailers to this vehicle?</b></p> <p>301 1 <input type="checkbox"/> YES - Continue with items 9a, b, c, and d below 2 <input type="checkbox"/> NO - SKIP to item 10</p> <p><b>a. What percent of annual mileage did this vehicle pull a trailer? If less than 50 percent, skip to item 10</b> <u>                    </u> %</p> <p><b>b. How many axles were on the trailer unit which you attached most frequently to the vehicle?</b> <u>                    </u></p>																																							

Continue on reverse →

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

525

01 ☐ AGRICULTURAL ACTIVITIES (including fisheries)

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 ☐ BUSINESS AND PERSONAL SERVICES — used to assist in such services as lodging operations, landscaping, repair (except plumbing, electrical work, etc. — See "Contractor Activities"), laundry, advertising, entertainment, etc.

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

10 ☐ MINING OR QUARRY ACTIVITIES (includes well drilling) — used to assist in the extraction of natural resources or in hauling to processors

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

12 ☐ ONE-WAY RENTAL

13 ☐ GOVERNMENTAL OPERATIONS

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

15 ☐ FOR HIRE TRANSPORTATION — including small package delivery

16 ☐ OTHER — Please describe in detail

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

Products, equipment, materials, etc.

(1) AGRICULTURAL AND FOOD PRODUCTS

(a) Live animals — cattle, horses, poultry, hogs, live seafood, insects, etc. 526 %

(b) Fresh farm products — grain, crops, flowers, nursery stock, raw milk, raw tobacco, etc. 527 %

(c) Processed foods and tobacco products — canned goods, prepared meats, frozen foods, beverages, bottled water, dairy products, cigarettes, etc. 528 %

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

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

(4) FORESTRY, WOOD, AND PAPER PRODUCTS

(a) Logs and forest products — except cut lumber and fabricated wood products (See below.) 531 %

(b) Lumber and fabricated wood products — except furniture (See (7) below.) 532 %

(c) Paper and paper products 533 %

(5) CHEMICALS, PETROLEUM, AND ALLIED PRODUCTS

(a) Chemicals and/or drugs (including fertilizers, pesticides, cosmetics, paints, etc.) 534 %

(b) Petroleum and petroleum products (including paving and roofing materials) 535 %

(c) Plastics and/or rubber products 536 %

(6) METALS AND METAL PRODUCTS

(a) Primary metal products — pipes, ingots, billets, sheets, etc. 537 %

(b) Fabricated metal products — except machinery or transportation equipment (See below.) 538 %

(c) Machinery — electrical or nonelectrical and electronic 539 %

(d) Transportation equipment (including complete vehicles) and parts 540 %

(7) OTHER MANUFACTURED PRODUCTS

(a) Furniture (wood and nonwood) and/or hardware — not involved in household moving 541 %

(b) Glass products 542 %

(c) Textiles and apparel — fibers, leather goods, carpets, clothing, etc. 543 %

(d) Miscellaneous products of manufacturing — including photographic goods, watches, clocks, jewelry, and toys 544 %

(8) MISCELLANEOUS

(a) Moving of household and office furniture — from home, offices, etc., under contract 545 %

(b) Miscellaneous tools and/or parts for specialized use, as in a craftsman's vehicle — traveling workshop for plumbers, carpenters, road service crews, etc. 546 %

(c) Mixed cargo, general freight (including the delivery of small packages) 547 %

(d) Scrap, garbage, trash, septic tank waste 548 %

(e) Industrial water 549 %

(f) Hazardous waste 550 %

(9) OTHER (not elsewhere classified) — Please describe in detail 551 %

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

552 1 ☐ YES — Continue with items 25a and b  
2 ☐ NO — SKIP to item 26

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

**Hazardous Materials**

553 ☐ Flammable liquids

554 ☐ Combustible liquids

555 ☐ Corrosive liquids

556 ☐ Poison B solids

557 ☐ Poison B liquids

558 ☐ Flammable solids

559 ☐ Oxidizers

560 ☐ Flammable gas

561 ☐ Nonflammable gas

562 ☐ Poison A

563 ☐ Corrosive solids

564 ☐ Explosives, A or B

565 ☐ Blasting agents

566 ☐ Radioactive materials

567 ☐ ORM — A, B, or C

568 ☐ ORM E

569 ☐ Hazardous materials not listed above — Specify

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

570 1 ☐ Below 10%  
2 ☐ 10 — 24%  
3 ☐ 25 — 49%  
4 ☐ 50 — 74%  
5 ☐ 75 — 100%

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

580 1 ☐ YES — Continue with item 26b  
2 ☐ NO — SKIP to item 27

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

(1) involved a fatality? 581

(2) involved no fatalities, but involved bodily injury requiring medical treatment? 582

(3) involved property damage of \$4,200 or more? 583

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

571

a. Pickups, small vans (includes mini-vans) 572

b. Straight trucks 573

c. Truck tractors (power units) 574

d. Trailers (semi- and/or full) 575

e. Converter dollies

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

EI

OR

SSN

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

Item 30 — Person to contact regarding this report

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

1 ☐ YES  
2 ☐ NO

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



U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

FORM  
**TC-9502**

## 1987 CENSUS OF TRANSPORTATION TRUCK INVENTORY AND USE SURVEY

OMB APPROVAL NO. 0607-0682 EXPIRES 12/88

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

Please complete this  
form and RETURN TO

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

**DUE DATE:** 15 days after receipt of form

### Important — Please read

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

**ESTIMATES ARE ACCEPTABLE.**

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

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

<b>CENSUS USE</b>	1	2	3	4	5	6	7
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### REGISTRATION INFORMATION

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

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

110 Month Year

**Item 2 — How did you obtain this vehicle?**

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

**a. How was this vehicle leased or rented?**

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

**b. Was the agreement for 12 months or more?**

- 113 2 ☐ NO  
1 ☐ YES — Which of the following did the leasing agreement include?  
Mark (X) all that apply.  
114 ☐ Financing only (Do not mark if installment sales contract)  
115 ☐ Full maintenance  
116 ☐ Maintenance on specified parts only  
117 ☐ Payment on taxes  
118 ☐ Obtaining licenses and permits  
119 ☐ Recordkeeping for leased trucks  
120 ☐ Other — Specify \_\_\_\_\_

**Item 3 — Is this vehicle still in your possession?**

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

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

208 Month Year

**b. How did you dispose of this vehicle?**

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

**Item 5 — 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.**

### PLATFORM TYPES

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

### VAN TYPES

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

### SPECIALIZED USE TRUCKS

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

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

- 80 ☐ Other — Specify \_\_\_\_\_

<p><b>Item 4 — Did you lease or rent out this vehicle TO anyone else?</b></p> <p>210 <input type="checkbox"/> YES — Continue with items 4a and b  <input type="checkbox"/> NO — SKIP to item 5</p> <p><b>a. How was it leased or rented out?</b></p> <p>211 <input type="checkbox"/> Without a driver  <input type="checkbox"/> With a driver other than an owner-operator  <input type="checkbox"/> With an owner-operator as driver</p> <p><b>b. Was the agreement for 12 months or more?</b></p> <p>212 <input type="checkbox"/> NO  <input type="checkbox"/> YES — Which of the following did the leasing agreement include?  Mark (X) all that apply:</p> <p>214 <input type="checkbox"/> Financing only (Do not mark if installment sales contract)  215 <input type="checkbox"/> Full maintenance  216 <input type="checkbox"/> Maintenance on specified parts only  217 <input type="checkbox"/> Payment of taxes  218 <input type="checkbox"/> Obtaining licenses and permits  219 <input type="checkbox"/> Recordkeeping for leased trucks  220 <input type="checkbox"/> Other — Specify _____</p>	<p><b>Item 9 — How many axles are on this vehicle and how many of them are driving axles?</b>  (Do not include axles on any trailers pulled.)</p> <p>a. Total number of axles on truck or truck-tractor (power unit) (Include front and rear axles)</p> <p>316 <input type="checkbox"/> Two axles (4 tires)  <input type="checkbox"/> Two axles (6 tires)  <input type="checkbox"/> Three axles  <input type="checkbox"/> Four or more axles</p> <p style="text-align: right;">How many, IF ANY, are liftable axles? → 317 _____</p> <p>b. Number of driving (powered) axles on truck or truck-tractor (power unit)</p> <p>318 <input type="checkbox"/> One driving axle  <input type="checkbox"/> Two driving axles  <input type="checkbox"/> Three or more driving axles</p>				
<p><b>Item 5 — How would you best describe this vehicle as it was most often operated? (If the vehicle is a pickup, compact van, mini-van, or panel truck, enter body type on the "Other" line.)</b></p> <p>300 <input type="checkbox"/> Straight truck  <input type="checkbox"/> Straight truck pulling trailer(s)  <input type="checkbox"/> Truck-tractor (power unit) pulling trailer(s)  <input type="checkbox"/> Other — Specify _____</p>	<p><b>Item 10 — What type of cab does this vehicle have?</b></p> <p>319 <input type="checkbox"/> Cab forward of engine  <input type="checkbox"/> Cab over engine  <input type="checkbox"/> Conventional cab  <input type="checkbox"/> Cab beside engine  <input type="checkbox"/> Other</p>				
<p><b>Item 6 — If you indicated in item 5 that you operated this vehicle with trailer(s) attached, indicate below the kind of trailer(s) you most often pulled. Mark (X) one box only; also indicate if axles are liftable</b></p> <p>a. Utility and other trailers less than 20 feet used with straight truck</p> <p>304 <input type="checkbox"/> One axle on trailer  <input type="checkbox"/> Two axles on trailer  <input type="checkbox"/> Three axles or more on trailer</p> <p>b. One full trailer *used with straight truck</p> <p>305 <input type="checkbox"/> Two axles on trailer  <input type="checkbox"/> Three axles on trailer  <input type="checkbox"/> Four or more axles on trailer</p> <p style="text-align: right;">How many, IF ANY, of the trailer's axles are liftable? → 306 _____</p> <p>c. One semi-trailer, used with truck-tractor (power unit)</p> <p>307 <input type="checkbox"/> One axle on trailer  <input type="checkbox"/> Two axles on trailer  <input type="checkbox"/> Three or more axles on trailer</p> <p style="text-align: right;">How many, IF ANY, of the trailer's axles are liftable? → 308 _____</p> <p>d. Two trailers, one semi- and one full *used with truck-tractor (power unit)</p> <p>308 <input type="checkbox"/> Three axles on two trailers  <input type="checkbox"/> Four axles on two trailers  <input type="checkbox"/> Five axles on two trailers  <input type="checkbox"/> Six or more axles on two trailers</p> <p style="text-align: right;">How many, IF ANY, of the trailer's axles are liftable? → 309 _____</p> <p>e. Three trailers, one semi- and two full *used with truck-tractor (power unit)</p> <p>309 <input type="checkbox"/> Five axles on three trailers  <input type="checkbox"/> Six axles on three trailers  <input type="checkbox"/> Seven axles on three trailers  <input type="checkbox"/> Eight or more axles on three trailers</p> <p style="text-align: right;">How many, IF ANY, of the trailer's axles are liftable? → 310 _____</p> <p>f. Other — Please describe in detail the number of trailers and axles on those trailers. Also give number of any liftable axles on trailer(s) →</p> <p>310 _____</p>	<p><b>Item 11a — What is the OVERALL length of this vehicle or combination as it was most often operated? Report distance from front bumper to rear of truck or rear of the last trailer attached.</b></p> <p>325 _____ Feet</p> <p>b. If this is a combination vehicle, what was the width of the trailer most often attached to the truck or power unit? (If more than one trailer was pulled, give the width of the widest trailer pulled.)</p> <p>326 _____ inches</p> <p><b>Item 12 — What is the EMPTY weight (truck minus cargo) of this vehicle or vehicle/trailer combination?</b></p> <p>An estimate is acceptable.</p> <p>327 _____ Pounds</p> <p><b>Item 13 — What was the AVERAGE weight (empty weight plus weight of cargo) of the vehicle or vehicle/trailer combination when carrying a typical payload during the past year?</b></p> <p>An estimate is acceptable.</p> <p>328 _____ Pounds</p> <p><b>Item 14a — What was the MAXIMUM GROSS weight (MGW) at which this vehicle or vehicle/trailer combination was operated?</b></p> <p>An estimate is acceptable.</p> <p>329 _____ Pounds</p> <p>b. What percent of annual mileage did this vehicle carry no payload?</p> <p>330 _____ %</p> <p>c. What percent of annual mileage did this vehicle carry payloads that —</p> <p>(1) filled its maximum cargo size? 331 _____ %</p> <p>(2) weighed the maximum cargo weight? 332 _____ %</p> <p><b>Item 15 — How many miles was this vehicle driven during 1987?</b></p> <p>An estimate is acceptable.</p> <p>400 _____ Miles</p> <p><b>Item 16 — How many miles has this vehicle been driven since it was manufactured?</b></p> <p>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.</p> <p>401 _____ Miles</p> <p><b>Item 17 — How many miles-per-gallon (MPG) did this vehicle average during 1987? (Use tenths, if available.)</b></p> <p>Example: 10.5 MPG should be entered as</p> <table style="display: inline-table; border: 1px solid black; text-align: center;"> <tr> <td style="padding: 0 5px;">Miles</td> <td style="padding: 0 5px;">Tenths</td> </tr> <tr> <td style="padding: 0 5px;">10</td> <td style="padding: 0 5px;">5</td> </tr> </table> <p>Enter miles per gallon →</p> <p>402 Miles Tenths</p> <p><b>Item 18 — Where was the home base of this vehicle on July 1, 1987?</b>  If put into service after July 1, 1987, enter current home base</p> <p>404 City _____</p> <p>405 County _____ 406 State _____ 407 ZIP Code _____</p>	Miles	Tenths	10	5
Miles	Tenths				
10	5				

\* or Semi-trailer with converter dolly

Continue on reverse →



<p><b>Item 19</b> - What percent of annual mileage was driven OUTSIDE the home base state? <span style="float: right;">408</span>          An estimate is acceptable. (If none, enter zero.) %</p> <p><b>Item 20</b> - 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%.)</p> <table style="width: 100%;"> <tr> <td>Trips off-the-road, little travel on public roads</td> <td style="text-align: right;">409</td> <td style="text-align: right;">%</td> </tr> <tr> <td>Trips less than a 50 mile radius of vehicle's home base</td> <td style="text-align: right;">410</td> <td style="text-align: right;">%</td> </tr> <tr> <td>Trips within a 50-200 mile radius of vehicle's home base</td> <td style="text-align: right;">411</td> <td style="text-align: right;">%</td> </tr> <tr> <td>Trips beyond a 200 mile radius of vehicle's home base</td> <td style="text-align: right;">412</td> <td style="text-align: right;">%</td> </tr> <tr> <td><b>TOTAL</b> - Should equal 100%</td> <td style="text-align: right;">100%</td> <td></td> </tr> </table> <p><b>Item 21</b> - Not applicable to this form.</p> <p><b>Item 22</b> - What is the horsepower rating of this vehicle's engine? <span style="float: right;">341</span> Horsepower</p> <p><b>Item 23</b> - What is the size (displacement) of this vehicle's engine?          Enter cubic inches, cubic centimeters, or liters, whichever is applicable</p> <table style="width: 100%;"> <tr> <td style="border: 1px solid black; padding: 2px;">342 Cubic inches (CI)</td> <td style="text-align: center;">OR</td> <td style="border: 1px solid black; padding: 2px;">343 Cubic centimeters (CC)</td> <td style="text-align: center;">OR</td> <td style="border: 1px solid black; padding: 2px;">344 Liters (L)</td> </tr> </table> <p><b>Item 24</b> - What kind of fuel does this vehicle use?</p> <p>345 <input type="checkbox"/> Gasoline  <input type="checkbox"/> Diesel  <input type="checkbox"/> Liquefied petroleum gas (LPG)  <input type="checkbox"/> Other - Specify fuel</p> <p><b>Item 25</b> - What type of brakes does the power unit (truck or truck-tractor) have?</p> <p>347 <input type="checkbox"/> Hydraulic (standard)  <input type="checkbox"/> Hydraulic with power assist  <input type="checkbox"/> Air</p> <p><b>Item 26</b> - Does this vehicle have any of the following equipment?          Mark (X) all that apply.</p> <table style="width: 100%;"> <tr><td>350 <input type="checkbox"/> Aerodynamic features</td></tr> <tr><td>351 <input type="checkbox"/> Axle or drive ratio to maximize fuel efficiency</td></tr> <tr><td>352 <input type="checkbox"/> Fuel economy engine with low RPM, high torque rise, turbo-charge, etc.</td></tr> <tr><td>353 <input type="checkbox"/> Reflective materials in addition to those required by law</td></tr> <tr><td>354 <input type="checkbox"/> Radial tires</td></tr> <tr><td>355 <input type="checkbox"/> Road speed governor</td></tr> <tr><td>356 <input type="checkbox"/> Variable fan drives</td></tr> <tr><td>357 <input type="checkbox"/> Other fuel conservation features</td></tr> <tr><td>358 <input type="checkbox"/> Power steering</td></tr> <tr><td>359 <input type="checkbox"/> Air conditioning in cab</td></tr> <tr><td>360 <input type="checkbox"/> Engine retarder</td></tr> <tr><td>361 <input type="checkbox"/> Electronic vehicle management system</td></tr> <tr><td>362 <input type="checkbox"/> Electronic vehicle identification device (transponder), etc.</td></tr> <tr><td>363 <input type="checkbox"/> Trip recorders</td></tr> <tr><td>364 <input type="checkbox"/> Navigational systems</td></tr> </table> <p><b>Item 27</b> - Who performed the general maintenance and major overhauls on this vehicle? Mark (X) all that apply</p> <table style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: center;">General maintenance</th> <th style="text-align: center;">Major overhauls</th> </tr> </thead> <tbody> <tr> <td>Yourself</td> <td style="text-align: center;">370 <input type="checkbox"/></td> <td style="text-align: center;">378 <input type="checkbox"/></td> </tr> <tr> <td>Your company's own maintenance facilities</td> <td style="text-align: center;">371 <input type="checkbox"/></td> <td style="text-align: center;">379 <input type="checkbox"/></td> </tr> <tr> <td>Dealership's service department</td> <td style="text-align: center;">372 <input type="checkbox"/></td> <td style="text-align: center;">380 <input type="checkbox"/></td> </tr> <tr> <td>Leasing company</td> <td style="text-align: center;">373 <input type="checkbox"/></td> <td style="text-align: center;">381 <input type="checkbox"/></td> </tr> <tr> <td>Independent garage or private mechanic (includes gasoline or service stations)</td> <td style="text-align: center;">374 <input type="checkbox"/></td> <td style="text-align: center;">382 <input type="checkbox"/></td> </tr> <tr> <td>Component distributorship (engine, transmission, etc.)</td> <td style="text-align: center;">375 <input type="checkbox"/></td> <td style="text-align: center;">383 <input type="checkbox"/></td> </tr> <tr> <td>No one</td> <td style="text-align: center;">376 <input type="checkbox"/></td> <td style="text-align: center;">384 <input type="checkbox"/></td> </tr> <tr> <td>Other - Specify</td> <td style="text-align: center;">377 <input type="checkbox"/></td> <td style="text-align: center;">385 <input type="checkbox"/></td> </tr> </tbody> </table>	Trips off-the-road, little travel on public roads	409	%	Trips less than a 50 mile radius of vehicle's home base	410	%	Trips within a 50-200 mile radius of vehicle's home base	411	%	Trips beyond a 200 mile radius of vehicle's home base	412	%	<b>TOTAL</b> - Should equal 100%	100%		342 Cubic inches (CI)	OR	343 Cubic centimeters (CC)	OR	344 Liters (L)	350 <input type="checkbox"/> Aerodynamic features	351 <input type="checkbox"/> Axle or drive ratio to maximize fuel efficiency	352 <input type="checkbox"/> Fuel economy engine with low RPM, high torque rise, turbo-charge, etc.	353 <input type="checkbox"/> Reflective materials in addition to those required by law	354 <input type="checkbox"/> Radial tires	355 <input type="checkbox"/> Road speed governor	356 <input type="checkbox"/> Variable fan drives	357 <input type="checkbox"/> Other fuel conservation features	358 <input type="checkbox"/> Power steering	359 <input type="checkbox"/> Air conditioning in cab	360 <input type="checkbox"/> Engine retarder	361 <input type="checkbox"/> Electronic vehicle management system	362 <input type="checkbox"/> Electronic vehicle identification device (transponder), etc.	363 <input type="checkbox"/> Trip recorders	364 <input type="checkbox"/> Navigational systems		General maintenance	Major overhauls	Yourself	370 <input type="checkbox"/>	378 <input type="checkbox"/>	Your company's own maintenance facilities	371 <input type="checkbox"/>	379 <input type="checkbox"/>	Dealership's service department	372 <input type="checkbox"/>	380 <input type="checkbox"/>	Leasing company	373 <input type="checkbox"/>	381 <input type="checkbox"/>	Independent garage or private mechanic (includes gasoline or service stations)	374 <input type="checkbox"/>	382 <input type="checkbox"/>	Component distributorship (engine, transmission, etc.)	375 <input type="checkbox"/>	383 <input type="checkbox"/>	No one	376 <input type="checkbox"/>	384 <input type="checkbox"/>	Other - Specify	377 <input type="checkbox"/>	385 <input type="checkbox"/>	<p><b>Item 30</b> - From the following list of products, materials, and equipment, indicate which item or items this vehicle carried. Write in the approximate percentage of the vehicle's annual mileage that was accounted for while carrying loads. (See instruction sheet for further explanation and examples.)</p> <p>Products, equipment, materials, etc.</p> <p><b>(1) AGRICULTURAL AND FOOD PRODUCTS</b></p> <p>(a) Live animals - cattle, horses, poultry, hogs, live seafood, insects, etc. <span style="float: right;">828 %</span>          (b) Fresh farm products - grain, crops, flowers, nursery stock, raw milk, raw tobacco, etc. <span style="float: right;">827 %</span>          (c) Processed foods and tobacco products - canned goods, prepared meats, frozen foods, beverages, bottled water, dairy products, cigarettes, etc. <span style="float: right;">829 %</span></p> <p><b>(2) MINING PRODUCTS, UNREFINED</b> - crude oil, coal, metal ores <span style="float: right;">830 %</span></p> <p><b>(3) BUILDING MATERIALS</b> - gravel, sand, concrete, flat glass, etc. (except cut lumber - See "Lumber.") <span style="float: right;">831 %</span></p> <p><b>(4) FORESTRY, WOOD, AND PAPER PRODUCTS</b></p> <p>(a) Logs and forest products - except cut lumber and fabricated wood products (See below.) <span style="float: right;">832 %</span>          (b) Lumber and fabricated wood products - except furniture (See (7) below.) <span style="float: right;">833 %</span>          (c) Paper and paper products <span style="float: right;">834 %</span></p> <p><b>(5) CHEMICALS, PETROLEUM, AND ALLIED PRODUCTS</b></p> <p>(a) Chemicals and/or drugs (including fertilizers, pesticides, cosmetics, paints, etc.) <span style="float: right;">835 %</span>          (b) Petroleum and petroleum products (including paving and roofing materials) <span style="float: right;">836 %</span>          (c) Plastics and/or rubber products <span style="float: right;">837 %</span></p> <p><b>(6) METALS AND METAL PRODUCTS</b></p> <p>(a) Primary metal products - pipes, ingots, billets, sheets, etc. <span style="float: right;">838 %</span>          (b) Fabricated metal products - except machinery or transportation equipment (See below.) <span style="float: right;">839 %</span>          (c) Machinery - electrical or nonelectrical and electronic <span style="float: right;">840 %</span>          (d) Transportation equipment (including complete vehicles) and parts <span style="float: right;">841 %</span></p> <p><b>(7) OTHER MANUFACTURED PRODUCTS</b></p> <p>(a) Furniture (wood and nonwood) and/or hardware - not involved in household moving <span style="float: right;">842 %</span>          (b) Glass products <span style="float: right;">843 %</span>          (c) Textiles and apparel - fibers, leather goods, carpets, clothing, etc. <span style="float: right;">844 %</span>          (d) Miscellaneous products of manufacturing - including photographic goods, watches, clocks, jewelry, and toys <span style="float: right;">845 %</span></p> <p><b>(8) MISCELLANEOUS</b></p> <p>(a) Moving of household and office furniture - from home, offices, etc., under contract <span style="float: right;">846 %</span>          (b) Miscellaneous tools and/or parts for specialized use, as in a craftsman's vehicle - traveling workshop for plumbers, carpenters, road service crews, etc. <span style="float: right;">847 %</span>          (c) Mixed cargo, general freight (including the delivery of small packages) <span style="float: right;">848 %</span>          (d) Scrap, garbage, trash, septic tank waste <span style="float: right;">849 %</span>          (e) Industrial water <span style="float: right;">850 %</span>          (f) Hazardous waste <span style="float: right;">851 %</span></p> <p><b>(9) OTHER</b> (not elsewhere classified) - Please describe in detail <span style="float: right;">%</span></p> <p><b>Item 31</b> - At any time during 1987 was this vehicle (or combination) used to haul hazardous materials in quantities large enough to require a special placard placed on the vehicle due to the Code of Federal Regulations, title 49, Transportation?</p> <p>552 <input type="checkbox"/> YES - Continue with items 31a and b  <input type="checkbox"/> NO - SKIP to item 32</p> <p><b>a. What type(s) of hazardous materials were carried by this vehicle? Mark (X) all that apply</b></p> <table style="width: 100%;"> <tr> <td><b>Hazardous Materials</b></td> <td></td> </tr> <tr> <td>553 <input type="checkbox"/> Flammable liquids</td> <td>565 <input type="checkbox"/> Blasting agents</td> </tr> <tr> <td>554 <input type="checkbox"/> Combustible liquids</td> <td>566 <input type="checkbox"/> Radioactive materials</td> </tr> <tr> <td>555 <input type="checkbox"/> Corrosive liquids</td> <td>567 <input type="checkbox"/> ORM - A, B, or C</td> </tr> <tr> <td>556 <input type="checkbox"/> Poison B solids</td> <td>568 <input type="checkbox"/> ORM E</td> </tr> <tr> <td>557 <input type="checkbox"/> Poison B liquids</td> <td>569 <input type="checkbox"/> Hazardous materials not listed above - Specify</td> </tr> <tr> <td>558 <input type="checkbox"/> Flammable solids</td> <td></td> </tr> <tr> <td>559 <input type="checkbox"/> Oxidizers</td> <td></td> </tr> <tr> <td>560 <input type="checkbox"/> Flammable gas</td> <td></td> </tr> <tr> <td>561 <input type="checkbox"/> Nonflammable gas</td> <td></td> </tr> <tr> <td>562 <input type="checkbox"/> Poison A</td> <td></td> </tr> <tr> <td>563 <input type="checkbox"/> Corrosive solids</td> <td></td> </tr> <tr> <td>564 <input type="checkbox"/> Explosives, A or B</td> <td></td> </tr> </table> <p><b>b. Approximately what percent of this vehicle's annual mileage was accounted for by carrying these hazardous materials?</b></p> <p>570 <input type="checkbox"/> Below 10% <span style="margin-left: 100px;">4 <input type="checkbox"/> 50-74%</span>  <input type="checkbox"/> 10-24% <span style="margin-left: 100px;">5 <input type="checkbox"/> 75-100%</span>  <input type="checkbox"/> 25-49%</p>	<b>Hazardous Materials</b>		553 <input type="checkbox"/> Flammable liquids	565 <input type="checkbox"/> Blasting agents	554 <input type="checkbox"/> Combustible liquids	566 <input type="checkbox"/> Radioactive materials	555 <input type="checkbox"/> Corrosive liquids	567 <input type="checkbox"/> ORM - A, B, or C	556 <input type="checkbox"/> Poison B solids	568 <input type="checkbox"/> ORM E	557 <input type="checkbox"/> Poison B liquids	569 <input type="checkbox"/> Hazardous materials not listed above - Specify	558 <input type="checkbox"/> Flammable solids		559 <input type="checkbox"/> Oxidizers		560 <input type="checkbox"/> Flammable gas		561 <input type="checkbox"/> Nonflammable gas		562 <input type="checkbox"/> Poison A		563 <input type="checkbox"/> Corrosive solids		564 <input type="checkbox"/> Explosives, A or B	
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<b>Item 28a - Which of the following best describes the primary way this vehicle was operated?</b>	
501	<input type="checkbox"/> 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 employees) - SKIP to item 29 <input type="checkbox"/> PERSONAL TRANSPORTATION - Operated as a personal-use vehicle in place of an automobile for pleasure driving, travel to work, etc. (NO BUSINESS USE) - SKIP to item 32 <input type="checkbox"/> FOR HIRE - SKIP to item 28b <input type="checkbox"/> 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 (Not motor carrier) - SKIP to item 29 <input type="checkbox"/> MIXED
	Percent business use ..... 502 % Percent personal use ..... 503 % Percent for hire includes intercorporate hauling and trip leasing, etc.) ..... 504 %
<i>Complete b below</i>	
<b>b. If this vehicle was for hire, indicate below the type of for hire operation. Enter percentage of mileage for each category</b>	
<b>(1) Operation type</b>	
	MOTOR CARRIER - Operated by a company whose primary business is to provide transportation services, carrying freight belonging to others ..... 506 %
	OWNER/OPERATOR - Operated by an independent trucker who drives vehicle for himself or on lease to a company - as an independent leased to a company ..... 507 %
<b>(2) Jurisdiction served</b>	
	INTERSTATE ..... 509 %
	INTRASTATE ..... 510 %
	LOCAL - In a single municipality, contiguous municipalities or a municipality and its suburban area, in commercial zones ..... 511 %
<b>(3) Kind of carrier</b>	
	CONTRACT - Offered transportation service to certain shippers under contracts ..... 512 %
	COMMON - Offered transportation service to the general public over regular or irregular routes ..... 513 %
	EXEMPT - transported commodities or provided types of services that were exempt from Federal regulation, operated within exempt commercial zones ..... 514 %
	518 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<b>(4) Was this vehicle operated under ICC authority?</b>	
<b>Item 29 - 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</b>	
525	<input type="checkbox"/> AGRICULTURAL ACTIVITIES (including fisheries) <input type="checkbox"/> FORESTRY OR LUMBERING ACTIVITIES <input type="checkbox"/> CONSTRUCTION WORK - buildings, homes, roads, structures, etc. <input type="checkbox"/> CONTRACTOR ACTIVITIES OR SPECIAL TRADES - painting, plumbing, electrical work, masonry, carpentry, etc. <input type="checkbox"/> MANUFACTURING, REFINING, OR PROCESSING ACTIVITIES <input type="checkbox"/> WHOLESALE TRADE <input type="checkbox"/> RETAIL TRADE <input type="checkbox"/> BUSINESS AND PERSONAL SERVICES - used to assist in such services as lodging operations, landscaping, repair (except plumbing, electrical work, etc.) - See "Contractor Activities"; laundry, advertising, entertainment, etc. <input type="checkbox"/> UTILITIES - Used to assist in operation or service of public utilities (telephone, gas, electric, etc.) <input type="checkbox"/> MINING OR QUARRY ACTIVITIES (includes well drilling) - used to assist in the extraction of natural resources or in hauling to processors <input type="checkbox"/> DAILY RENTAL - rented out, without a driver, to someone else on a daily or short-term basis <input type="checkbox"/> ONE-WAY RENTAL <input type="checkbox"/> GOVERNMENTAL OPERATIONS <input type="checkbox"/> NOT IN USE - vehicle idle, wrecked, awaiting repair, etc., for more than 90 days <input type="checkbox"/> FOR HIRE TRANSPORTATION - including small package delivery <input type="checkbox"/> OTHER - Please describe in detail

<b>Item 32a - Was this truck or power unit involved in any accidents during 1987?</b>	
580	<input type="checkbox"/> YES - Continue with item 32b <input checked="" type="checkbox"/> NO - SKIP to item 33
<b>b. If this truck or power unit was involved in any accidents during 1987, how many -</b>	
	(1) involved a fatality? ..... 581
	(2) involved no fatalities, but involved bodily injury requiring medical treatment? ..... 582
	(3) involved property damage of \$4,200 or more? ..... 583
<b>Item 33 - 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 18</b>	
a. Pickups, small vans (includes mini-vans)	571
b. Straight trucks	572
c. Truck tractors (power units)	573
d. Trailers (semi- and/or full)	574
e. Converter dollies	575
<b>Item 34 - Please enter below Employer Identification (EI) Number if vehicle owned by company or Social Security Number (SSN) if vehicle owned by individual</b>	
EI	<input type="text"/>
OR	
SSN	<input type="text"/>
<b>Item 35 - REMARKS - Please use this space for any explanations that may be essential in understanding your reported data</b>	
<b>Item 36 - Person to contact regarding this report</b>	
Does this person have records on (or knowledge of) the daily activities of driver (stops, weight of individual shipments, destinations of shipments, etc.)?	
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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	

## SECTION 4

### 1990 NTACS PUBLIC USE FILE PROCEDURES FOR ADJUSTMENT, IMPUTATION, AND ANNUALIZATION BY ORNL

Response rates to selected data items in subfiles 1 and 2 were as follows for data received by Oak Ridge National Laboratory (ORNL) from the U.S. Bureau of the Census for responding trucks. No changes were made by ORNL to the 1987 TIUS data presented in subfile 3.

Subfile 1 (Maximum = 22,044)			Subfile 2 (Maximum = 9,794)					
Data Item		Original No. of Responses	Data Item		Original No. of Responses	Data Item	Original No. of Responses	
1.	TRUKID	22,044	1.	TRUKID	9,794	20.	P4LN1	8,427
2. <sup>a</sup>	XPFAN	22,044	2. <sup>a</sup>	XPFD1	9,794	21.	POFF1	8,306
3.	MDLYR	22,017	3.	SAMD1	9,238	22. <sup>b</sup>	FUEL1	8,624
4.	POSSE	21,922	4. <sup>b</sup>	NSPD1	7,284	23. <sup>b</sup>	TOLL1	8,337
5.	CUROP	16,367	5. <sup>b</sup>	D1WK1	9,124	24. <sup>b</sup>	MXLN1	7,303
6. <sup>b</sup>	WKSOP	16,270	6. <sup>b</sup>	D2WK1	9,178	25. <sup>b</sup>	MXHT1	7,293
7. <sup>b</sup>	RANMI	16,113	7. <sup>b</sup>	D3WK1	9,173	26. <sup>b</sup>	MEWT1	7,329
8.	OPSTA	14,392	8. <sup>b</sup>	D4WK1	9,167	27. <sup>b</sup>	MXLD1	7,313
9.	OPCAN	14,371	9. <sup>b</sup>	D5WK1	9,159	28. <sup>b</sup>	MXPL1	6,267
10.	OPMEX	14,276	10. <sup>b</sup>	D6WK1	9,166	29.	HAZM1	7,391
11.	FUELD	13,704	11. <sup>b</sup>	D7WK1	9,092	30.	HRS11	840
12.	GASTA	13,699	12.	MUSE1	9,160	31.	HRS21	1,363
13.	MUSEA	14,097	13.	VEHD1	9,240	32.	HRS31	3,958
14.	VEHDA	14,424	14.	BDTY1	9,239	33.	HRS41	6,122
15.	TKCFG	13,659	15. <sup>b</sup>	OMIL1	7,600	34.	HRS51	3,742
					(approx)			
16.	BDTYA	14,101	16. <sup>c</sup>	AOMIL	<sup>d</sup>	35.	HRS61	6,741
			17. <sup>b</sup>	RMIL1	9,017	36.	HRS71	1,508
			18. <sup>c</sup>	ARMIL	<sup>d</sup>	37.	HRS81	848
			19.	PINT1	8,600	38. <sup>b</sup>	COMD1	<sup>d</sup>

<sup>a</sup> Data item adjusted by ORNL.

<sup>b</sup> Data item inputted by ORNL. Final number of responses is 22,044 for each imputed data item in subfile 1 and 9,794 for each imputed data item in subfile 2.

<sup>c</sup> Data item annualized by ORNL.

<sup>d</sup> Not applicable.

## Adjustments

- To produce XPFAN: Within each of the 225 NTACS strata, the expansion factor of the Census Bureau was multiplied by the quotient of the total number of NTACS sample trucks in that stratum divided by the total number of responding trucks in that stratum. For more details, refer to Section 1.
- To produce XPFD1: Within each of the 225 NTACS strata, the expansion factor of the Census Bureau was multiplied by the quotient of the total number of NTACS sample trucks in that stratum divided by the total number of responding trucks in that stratum which reported some sample day one data. For more details, refer to Section 1.

## Imputations

The method used to impute for item nonresponse was mean imputation. The method of mean imputation tends to produce data such that the estimated mean (and estimated total) using the imputed data is the same as the estimated mean (and estimated total) using the unimputed data while the distribution of the imputed data tends to differ from the distribution of the unimputed data. Mean imputation was used mainly because of its simplicity and the concern by the technical staff that the use of a more involved method such as regression imputation would give the user a false sense of confidence about the resulting data which could not be strongly defended due to the previously mentioned poor data quality. The exact variation of mean imputation used is illustrated by showing the steps used to impute the data item WKSOP.

- (a) Note that 5,774 ( $= 22,044 - 16,270$ ) of the 22,044 responding trucks did not respond to the data item WKSOP. For each of these trucks, imputation was carried out as follows within each stratum.
- (b) Responding trucks in stratum  $ijk$  which did not respond to data item WKSOP were identified.
- (c) Next, we identified the responding trucks in stratum  $ijk$  which did respond to data item WKSOP; within stratum  $ijk$ , we grouped these trucks by MDLYR ( $m = 01, 02, \dots, 11$ ); and for each of these groups we found  $\overline{WKSOP}_{ijkm}$ , the average value of WKSOP for the trucks in group  $m$  within stratum  $ijk$ . Each of the averages was rounded to the nearest integer. If any group  $m$  was empty within stratum  $ijk$ , we gave this group the average value of all of the responding trucks in stratum  $ijk$ . If no truck in stratum  $ijk$  responded to this data item (WKSOP), then we gave group  $m$  the average value for all responding trucks in HAUL= $j$  and SAMTYP= $i$  (i.e., over all DIVISIONS). If no truck in HAUL= $j$  and SAMTYP= $i$  responded to this

data item (WKSOP), then we gave group  $m$  the average value for all responding trucks in  $\text{SAMTYP}=i$  (i.e., over all DIVISIONS and all HAULS).

- (d) We substituted the value  $\overline{\text{WKSOP}}_{ijk}$  for each responding truck in stratum  $ijk$  with  $\text{MDLYR}=m$  which did not respond to data item WKSOP.
- (e) The  $\text{RI\_WKSOP}$  code for each such truck (did not) was set equal 0.
- (f) Thus there were 22,044 final responses for data item WKSOP.

#### Annualizations

To produce AOMIL: If DOP1 was the number of days in sample week one that a given truck operated then AOMIL, the annualized odometer mileage for that truck, was computed as

$$\text{AOMIL} = (\text{OMIL1}) \cdot (\text{DOP1}) \cdot (\text{WKSOP}) \cdot$$

To produce ARMIL: ARMIL, the annualized reported mileage for that truck was computed as

$$\text{ARMIL} = (\text{RMIL1}) \cdot (\text{DOP1}) \cdot (\text{WKSOP}) \cdot$$

## SECTION 5

### DATA LIMITATIONS AND CAVEATS

As noted earlier, the data, which were collected by the U.S. Bureau of the Census, in the 1990 NTACS Public Use File has poor quality resulting primarily from low response rates (unit and item) and other nonsampling problems.

The NTACS included sensitive questions plus some exploratory items in this first time effort of collecting trip-specific information from primarily commodity-carrying vehicles. As anticipated by the Census Bureau, low responses were obtained for selected items of priority interest to DOT. As a result of low response rates and the inconsistent reporting, extensive imputation was required on selected data items in the 1990 NTACS Public Use File. **This public use file is considered exploratory and is to be used with extreme caution only. Tabulations generated from this data base should be used with discretion and only in conjunction with other data of proven reliability.**

Because the NTACS sample is a subsample of the 1987 TIUS respondents, TIUS data exists for all 22,044 NTACS respondents and are included in subfile 3. To obtain NTACS universe estimates, use the expansion factor

- XPFAN, if the data item is in subfile 1,
- XPFD1, if the data item is in subfile 2, and
- XPFAN, if the data item is in subfile 3.

In some cases, it is possible to obtain more than one estimate for a NTACS universe parameter. For example, it is possible to estimate the annual miles for the trucks in the NTACS universe using any one of the following data items:

#### *Subfile 1*

RANMI - reported annual miles from NTACS

#### *Subfile 2*

AOMIL - annualized miles based on sample day one's odometer values from NTACS

ARMIL - annualized miles based on sample day one's reported values from NTACS

#### *Subfile 3*

ANMIL - annual miles from TIUS.

In such cases, different estimates will result and the user must explore which data item is most appropriate for the specific application.

## APPENDIX A

Tables A-I have been included in this appendix to give details of the connections (using numbers) among:

- (i) the 1987 TIUS universe;
- (ii) the 1987 TIUS sample and sample respondents;
- (iii) the restratification of the 1987 TIUS sample respondents before selection of the NTACS sample;
- (iv) the estimated 1990 NTACS universe size; and
- (v) the 1990 NTACS sample and sample respondents.

**TABLE A. 1987 TIUS NUMBER OF TRUCKS IN UNIVERSE BY STATE BY SAMTYP (9/2/88)**

STATE:	SAMTYP				
	1 PU	2 VAN	3 LT TRK	4 HVY TRK	5 TRACTOR
AL	638,613	173,339	51,492	26,700	24,942
AK	107,061	52,685	7,485	3,419	2,172
AZ	492,522	206,317	49,082	13,493	10,295
AR	427,842	96,058	3,097	930	6,022
CA	3,114,535	1,295,855	262,097	52,980	112,338
CO	591,910	309,619	57,336	21,496	4,692
CT	237,758	161,962	35,245	12,614	7,141
DE	63,762	38,851	10,400	5,511	3,694
DC	6,868	12,387	1,980	589	93
FL	1,079,807	697,569	97,195	27,192	45,273
GA	808,816	280,598	86,289	27,734	32,895
HI	109,845	40,725	10,726	3,538	1,612
ID	225,104	68,335	20,055	6,038	5,830
IL	775,257	547,659	137,478	73,488	98,863
IN	623,625	288,552	97,405	39,010	43,743
IA	414,034	147,030	65,749	42,663	18,675
KS	468,723	148,444	82,097	30,477	15,926
KY	552,570	167,666	70,020	19,028	15,610
LA	662,206	203,953	52,191	19,955	16,887
ME	170,586	61,024	17,425	10,595	6,144
MD	341,399	227,197	59,194	31,332	14,553
MA	315,869	267,985	58,170	38,502	11,569
MI	862,631	568,562	78,971	21,405	44,079
MN	514,359	235,517	61,950	37,574	16,886
MS	399,959	83,261	18,734	7,364	8,762
MO	718,109	184,820	78,035	24,299	24,792
MT	221,409	63,818	22,315	6,283	8,098
NE	272,796	79,949	62,859	19,971	19,833
NV	171,537	65,615	9,500	1,955	3,545
NH	137,873	71,245	17,462	7,337	5,585
NJ	330,317	349,862	77,012	41,693	26,235
NM	333,941	107,392	23,401	4,053	5,301
NY	693,191	651,353	137,931	49,282	33,201
NC	858,052	311,547	126,308	36,738	43,951
ND	147,705	42,202	67,000	10,383	6,153
OH	927,108	581,907	134,423	87,165	35,001
OK	644,308	167,477	67,030	18,395	24,770
OR	571,409	208,582	34,726	9,987	22,746
PA	869,677	611,082	121,812	55,690	52,873
RI	61,736	43,657	10,594	3,451	2,746
SC	407,583	132,578	44,075	12,206	9,629
SD	158,308	46,806	25,249	12,141	6,459
TN	708,475	217,247	57,914	20,551	29,773
TX	2,703,736	997,144	196,460	44,588	98,999
UT	240,582	112,077	20,544	5,691	7,075
VT	79,227	38,120	9,187	4,509	1,957
VA	696,407	319,065	84,383	30,306	23,335
WA	739,707	289,801	56,688	11,731	19,223
WV	270,632	110,659	33,218	9,512	4,135
WI	480,254	202,196	68,387	40,078	23,769
WY	145,669	57,020	14,834	3,438	7,245
US	27,595,406	12,444,370	3,093,709	1,145,062	1,115,124
GRAND TOTAL					45,393,671

Source: September 12, 1988 Census Bureau Memo, Truck Inventory and Use Survey, #87EAG-T-I, Chapter 15, Subchapter D, Document #2.



**TABLE B. 1987 TIUS PRELIMINARY SAMPLE SIZES BY STATE BY SAMTYP**

STATE	SAMTYP				
	1	2	3	4	5
AL	626	122	553	765	598
AK	575	231	456	255	874
AZ	615	202	687	77	1,179
AR	689	108	502	267	1,069
CA	596	205	577	229	1,164
CO	531	269	662	111	1,202
CT	408	327	596	27	1,258
DE	471	245	475	568	616
DC	247	479	526	258	200
FL	501	291	612	98	1,259
GA	608	163	563	114	1,252
HI	493	293	599	872	191
ID	623	150	569	774	511
IL	473	269	615	464	918
IN	510	192	630	24	1,350
IA	539	156	640	60	1,296
KS	574	135	687	129	1,215
KY	602	155	622	612	734
LA	653	155	579	268	1,066
ME	565	208	522	648	587
MD	433	299	642	94	1,234
MA	385	331	624	870	467
MI	509	302	545	98	1,267
MN	541	192	575	428	939
MS	667	99	531	542	788
MO	582	187	604	618	742
MT	613	157	636	576	657
NE	518	147	676	358	973
NV	589	231	595	643	444
NH	507	245	521	167	1,058
NJ	337	354	504	247	1,126
NM	631	167	519	83	1,212
NY	393	354	593	174	1,204
NC	539	167	695	812	556
ND	476	92	747	632	648
OH	473	279	616	752	626
OK	646	136	631	123	1,221
OR	616	177	509	182	1,166
PA	437	293	615	239	1,143
RI	408	322	577	263	798
SC	642	161	619	316	970
SD	580	134	646	117	1,131
TN	628	153	632	107	1,236
TX	644	161	525	366	1,025
UT	576	196	613	341	918
VT	520	247	558	466	574
VA	535	221	645	301	1,051
WA	590	218	630	167	1,168
WV	553	225	659	537	713
WI	479	257	634	116	1,240
WY	579	197	509	127	1,127
US	27,527	11,056	30,298	17,480	47,960
GRAND TOTAL					134,321

Source: Appendix D of July 29, 1986 Census Bureau Memo, 1987 Truck Inventory and Use Survey-Sample Design, #87EAG-T-I, Chapter 19, Subchapter A, Document #1.

**TABLE C. 1987 TIUS NUMBER OF SAMPLE RESPONDENTS BY STATE BY SAMTYP**

STATE	SAMTYP				
	1	2	3	4	5
AL	448	119	325	368	663
AK	349	191	333	292	487
AZ	418	179	427	244	649
AR	514	121	215	41	1,187
CA	417	167	408	244	977
CO	397	210	453	612	418
CT	330	245	459	522	634
DE	313	197	324	348	521
DC	140	299	319	233	73
FL	353	237	381	177	909
GA	423	153	418	211	857
HI	396	139	412	764	166
ID	508	157	459	402	658
IL	349	246	329	373	691
IN	404	195	419	218	949
IA	447	152	421	433	734
KS	434	130	494	367	834
KY	482	149	486	386	707
LA	452	154	377	401	664
ME	456	167	380	542	582
MD	363	234	401	571	621
MA	335	259	361	724	401
MI	402	264	407	201	981
MN	431	202	393	448	669
MS	494	107	328	401	607
MO	492	132	456	374	814
MT	484	140	412	244	729
NE	426	120	419	284	774
NV	449	178	430	255	749
NH	376	192	358	360	655
NJ	270	293	355	496	632
NM	456	154	456	121	296
NY	326	282	425	426	699
NC	458	160	421	553	605
ND	410	116	591	463	633
OH	375	233	373	596	474
OK	479	125	392	367	664
OR	479	164	377	174	949
PA	396	265	393	331	900
RI	349	246	414	460	449
SC	472	147	457	390	660
SD	442	132	413	294	746
TN	472	140	389	159	927
TX	375	159	353	237	739
UT	462	215	410	234	820
VT	441	211	382	496	452
VA	426	200	437	344	781
WA	466	190	427	347	742
WV	466	192	496	688	414
WI	448	189	400	423	889
WY	428	164	383	205	788
US	21,178	9,412	20,548	18,844	34,619
GRAND TOTAL					104,601

Source: Appendix C of the 1987 TIUS-Technical Documentation, U. S. Bureau of the Census

**TABLE D. RESTRATIFICATION OF 1987 TIUS NUMBER OF SAMPLE RESPONDENTS BY DIVISION BY HAUL BY SAMTYP FOR NTACS SAMPLING (FRMWT TRUCK COUNT)**

CENSUS DIVISION	HAUL	SAMTYP					TOTAL
		1	2	3	4	5	
1 New England (ME VT RI NH MA CT)	1	302	173	1,452	2,389	2,036	12,025
	2	11	11	54	232	855	
	3	361	231	488	308	164	
	4	1,560	872	274	98	40	
	5	7	5	39	36	27	
2 Middle Atlantic (NY NJ PA)	1	114	107	741	970	1,322	6,370
	2	2	7	18	61	738	
	3	149	156	282	133	98	
	4	705	550	91	61	9	
	5	0	1	20	12	23	
3 East North Central (OH IN IL MI WI)	1	228	129	1,173	1,107	1,989	10,643
	2	16	12	43	173	1,726	
	3	287	141	413	175	150	
	4	1,407	825	252	293	23	
	5	4	2	22	26	27	
4 West North Central (MN IA MO ND SD NE KS)	1	513	90	2,303	1,930	2,592	14,954
	2	19	12	46	266	2,266	
	3	584	167	435	188	199	
	4	1,913	704	317	195	55	
	5	14	4	55	50	37	
5 South Atlantic (DE MD DC VA WV NC SC GA FL)	1	355	181	2,112	2,432	3,165	17,515
	2	17	17	68	250	1,758	
	3	449	315	822	385	272	
	4	2,528	1,273	520	348	87	
	5	14	5	48	47	47	
6 East South Central (KY TN AL MS)	1	205	54	870	823	1,384	8,004
	2	7	14	27	239	1,152	
	3	224	66	359	106	174	
	4	1,430	376	221	92	88	
	5	3	2	26	20	42	
7 West South Central (AR LA OK TX)	1	182	39	811	733	1,723	7,872
	2	11	7	36	96	1,145	
	3	312	97	306	143	231	
	4	1,276	406	128	25	23	
	5	14	2	39	32	55	
8 Mountain (MT ID WY CO NM AZ UT NV)	1	383	107	1,953	1,636	2,973	16,452
	2	34	5	107	434	2,168	
	3	558	174	732	252	335	
	4	2,569	1,091	515	88	64	
	5	18	5	106	48	97	
9 Pacific (WA OR CA AK HI)	1	201	90	1,168	1,540	2,284	9,902
	2	8	8	25	54	755	
	3	281	131	381	159	189	
	4	1,586	608	305	16	23	
	5	6	6	31	18	29	
GRAND TOTAL 103,737							

Source: 1989 Sample Selection Tabulations  
Date: 10/13/89  
U. S. Bureau of the Census

**TABLE E. NUMBER OF TRUCKS SELECTED FOR 1989 NTACS SAMPLE BY  
DIVISION BY HAUL BY SAMTYP (TRUCK COUNT)**

CENSUS DIVISION	HAUL	SAMTYP					
		1	2	3	4	5	TOTAL
1	1	283	168	640	922	717	4,291
	2	11	11	54	219	814	
	3	36	60	40	20	11	
	4	120	60	40	5	5	
	5	4	5	18	15	13	
2	1	114	102	712	951	609	3,894
	2	2	7	18	60	710	
	3	8	80	121	38	23	
	4	94	84	61	2	1	
	5	0	1	10	5	9	
3	1	217	126	762	355	452	4,226
	2	16	12	41	164	1,598	
	3	50	50	50	40	25	
	4	75	75	75	1	2	
	5	2	2	11	13	12	
4	1	503	90	1,200	1,556	397	6,971
	2	19	12	46	241	2,097	
	3	80	80	75	35	12	
	4	150	150	100	35	15	
	5	7	4	27	23	17	
5	1	341	175	741	564	750	5,552
	2	17	17	66	240	1,674	
	3	80	80	121	50	50	
	4	150	150	83	75	50	
	5	7	3	24	22	22	
6	1	199	53	813	286	448	3,752
	2	7	14	25	220	1,067	
	3	80	62	50	9	16	
	4	150	150	50	4	3	
	5	3	1	13	10	19	
7	1	177	39	772	384	912	4,184
	2	11	7	34	92	1,102	
	3	50	26	52	50	79	
	4	160	70	50	25	23	
	5	7	1	19	15	27	
8	1	375	105	1,311	538	872	6,556
	2	34	5	103	392	1,936	
	3	80	80	65	84	79	
	4	150	150	80	10	10	
	5	8	5	30	24	30	
9	1	200	84	1,124	500	1,109	4,576
	2	8	8	24	54	726	
	3	80	80	50	50	50	
	4	150	150	50	16	23	
	5	2	5	13	8	12	
GRAND TOTAL 44,002							

Source: 1989 Sample Selection Tabulations  
Date: 10/13/89  
U. S. Bureau of the Census

**TABLE F. ESTIMATED 1987 TIUS UNIVERSE SIZE\* BASED ON  
1987 TIUS SAMPLE (Compare with Table A.)**

STATE	SAMTYP					TOTAL
	1	2	3	4	5	
AL	627,411	166,350	49,606	25,856	24,319	893,742
AK	105,848	51,870	7,226	3,361	2,128	170,433
AZ	487,852	206,317	45,860	8,464	10,157	758,650
AR	420,478	90,804	2,541	930	5,971	520,724
CA	3,084,945	1,243,722	253,401	52,126	110,088	4,744,282
CO	587,473	306,699	52,897	21,187	4,594	972,850
CT	231,446	153,208	34,058	12,444	6,923	438,079
DE	63,157	38,269	9,824	5,401	3,652	120,303
DC	6,304	12,178	1,940	596	129	21,147
FL	1,050,059	694,638	94,953	26,591	42,914	1,909,155
GA	788,315	278,775	83,299	27,474	32,215	1,210,078
HI	106,092	39,586	10,110	3,438	1,584	160,810
ID	219,908	67,475	19,260	5,950	5,751	318,344
IL	773,042	536,750	133,817	70,284	89,650	1,603,543
IN	614,500	287,079	94,036	38,135	42,885	1,076,635
IA	409,452	146,069	64,224	41,512	18,181	679,438
KS	459,202	144,013	80,152	29,668	15,479	728,514
KY	541,339	165,445	67,384	18,783	15,179	808,130
LA	639,566	202,638	48,825	19,328	16,487	926,844
ME	166,568	59,250	16,937	10,309	6,099	259,163
MD	339,528	218,783	57,896	30,686	14,507	661,400
MA	312,143	259,956	54,121	36,012	11,400	673,632
MI	847,866	560,076	76,166	21,300	43,282	1,548,690
MN	503,839	233,209	59,673	36,436	16,564	849,721
MS	388,170	79,544	17,358	6,965	8,522	500,559
MO	706,620	183,430	75,874	23,854	24,314	1,014,092
MT	217,369	63,365	20,345	6,083	7,778	314,940
NE	270,889	77,370	57,382	18,900	19,528	444,069
NV	170,023	64,886	8,617	1,854	3,468	248,848
NH	133,954	69,790	16,715	7,218	5,548	233,225
NJ	326,687	340,563	72,136	40,870	25,906	806,162
NM	331,038	106,699	22,946	3,660	4,857	469,200
NY	688,965	642,244	128,554	48,709	32,643	1,541,115
NC	858,054	309,611	123,951	36,277	43,306	1,371,199
ND	145,927	41,841	63,863	10,205	6,083	267,919
OH	914,910	569,683	131,255	86,009	34,635	1,736,492
OK	635,029	164,840	62,861	17,007	23,904	903,641
OR	560,871	203,616	33,915	9,393	22,558	830,353
PA	863,137	601,995	115,353	54,536	52,236	1,687,257
RI	60,866	43,306	10,321	3,376	2,658	120,527
SC	401,625	131,683	42,675	12,082	9,497	597,562
SD	155,496	46,453	24,194	11,513	6,348	244,004
TN	698,121	215,706	54,157	20,296	28,718	1,016,998
TX	2,647,260	978,678	185,925	43,847	96,388	3,952,098
UT	237,496	110,534	18,676	5,525	7,019	379,250
VT	78,339	37,940	8,087	4,290	1,921	130,577
VA	692,322	310,720	82,597	29,350	22,891	1,137,880
WA	730,306	288,283	52,735	11,434	19,017	1,101,775
WV	268,327	108,401	31,932	9,419	4,107	422,186
WI	477,057	202,196	66,076	37,842	23,425	806,596
WY	143,324	56,675	14,029	3,247	7,084	224,359
<b>GRAND TOTAL</b>						<b>44,557,190</b>

\* Estimates in a given stratum were obtained by multiplying the 1987 TIUS Expansion Factor for that stratum by the 1987 TIUS Sample Respondents for that stratum.

Sources: Appendices B and C of the 1987 TIUS - Technical Documentation  
U. S. Bureau of the Census

**TABLE G. ESTIMATED 1989 NTACS UNIVERSE SIZE\* BASED ON 1987 TIUS SAMPLE**

CENSUS DIVISION	HAUL	SAMTYP					
		1	2	3	4	5	TOTAL
1	1	126,951	88,913	84,074	54,149	22,271	1,741,845
	2	4,133	5,571	3,223	5,494	9,148	
	3	145,434	109,952	29,915	9,918	1,996	
	4	641,041	372,345	16,460	4,362	244	
	5	1,333	1,824	1,773	926	395	
2	1	203,627	203,972	201,719	109,906	65,355	3,943,141
	2	3,323	11,464	4,973	6,732	37,354	
	3	273,862	288,281	74,213	15,183	4,574	
	4	1,361,742	1,031,412	24,730	10,050	369	
	5	0	2,277	5,428	1,461	1,134	
3	1	408,750	237,658	310,149	153,502	105,447	6,565,487
	2	26,007	20,720	10,647	25,732	110,659	
	3	526,018	275,599	106,034	24,979	7,775	
	4	2,514,472	1,576,889	63,547	42,283	1,015	
	5	4,259	2,542	5,328	3,682	1,794	
4	1	408,876	81,860	304,755	119,944	51,220	4,192,288
	2	17,020	10,678	6,146	17,101	47,894	
	3	468,971	144,266	60,590	12,547	4,112	
	4	1,729,993	618,767	42,164	15,748	970	
	5	13,986	3,816	6,932	3,350	582	
5	1	466,489	186,738	307,885	117,333	99,240	7,260,907
	2	18,503	22,686	12,604	12,539	59,411	
	3	610,541	379,016	103,621	18,918	7,076	
	4	3,256,145	1,431,540	82,375	21,946	3,240	
	5	20,804	10,084	7,706	3,252	1,215	
6	1	250,851	66,593	110,039	45,379	35,607	3,164,379
	2	7,779	17,405	3,180	11,524	31,408	
	3	261,429	75,438	41,117	5,004	4,526	
	4	1,690,206	458,656	27,462	6,505	2,890	
	5	3,656	2,221	3,091	1,293	1,120	
7	1	446,131	93,982	182,197	56,624	80,332	6,125,653
	2	31,962	11,792	7,911	8,268	43,338	
	3	653,901	245,595	78,057	11,337	12,340	
	4	3,058,120	1,044,854	24,067	1,834	1,027	
	5	17,249	2,632	7,866	1,792	2,445	
8	1	237,981	69,939	110,995	38,279	28,965	3,642,840
	2	21,756	2,169	5,107	11,605	25,618	
	3	361,362	121,012	42,562	6,189	3,186	
	4	1,699,081	789,988	35,495	2,777	621	
	5	16,047	3,772	5,780	1,529	1,025	
9	1	429,922	202,210	215,458	66,099	99,587	6,739,193
	2	7,482	13,808	4,771	4,746	42,344	
	3	613,361	273,198	77,859	6,879	7,756	
	4	3,285,986	1,289,556	37,836	391	628	
	5	19,165	28,974	7,608	1,149	2,420	
GRAND TOTAL 43,375,733							

\* Estimates in a given stratum were obtained by summing the TIUS Expansion Factors for all of the TIUS sample trucks which were assigned to the given stratum.

Source: 1980 Sample Selection Tabulations  
Date: 10/13/89 U. S. Bureau of the Census

**TABLE H. NUMBER OF SAMPLE RESPONDENTS\* (NONRESPONDENTS) TO THE 1990 NTACS**

CENSUS		SAMTYP					
DIVISION	HAUL	1	2	3	4	5	TOTAL
1	1	143(138)	74(94)	312(323)	413(505)	340(377)	1,983(2,290)
	2	8( 3)	7( 4)	20( 33)	95(124)	321(491)	
	3	23( 13)	32(28)	19( 20)	13( 7)	4( 7)	
	4	68( 50)	38(22)	20( 20)	1( 4)	3( 1)	
	5	2( 2)	2( 3)	9( 9)	10( 5)	6( 7)	
2	1	61( 52)	43(57)	357(352)	443(508)	322(284)	1,934(1,950)
	2	1( 1)	5( 2)	9( 9)	30( 30)	351(359)	
	3	50( 30)	33(47)	56( 65)	17( 21)	10( 13)	
	4	59( 35)	46(38)	29( 31)	0( 2)	1( 0)	
	5	0( 0)	1( 0)	5( 5)	1( 4)	4( 5)	
3	1	108(109)	57(68)	418(340)	180(174)	223(229)	2,068(2,142)
	2	7( 9)	5( 7)	21( 20)	72( 91)	694(897)	
	3	22( 28)	31(19)	27( 23)	21( 18)	9( 16)	
	4	43( 32)	49(25)	50( 25)	0( 1)	1( 1)	
	5	1( 1)	2( 0)	10( 1)	8( 5)	9( 3)	
4	1	287(215)	46(43)	662(536)	861(690)	229(167)	3,834(3,119)
	2	9( 10)	7( 5)	20( 26)	139(101)	1,108(986)	
	3	42( 38)	41(39)	42( 32)	26( 8)	6( 6)	
	4	93( 57)	84(65)	50( 50)	24( 11)	8( 7)	
	5	6( 1)	2( 2)	18( 8)	17( 6)	7( 10)	
5	1	174(167)	79(95)	404(334)	262(300)	357(388)	2,789(2,743)
	2	6( 11)	9( 8)	41( 25)	123(117)	850(820)	
	3	42( 37)	34(46)	59( 62)	29( 20)	22( 28)	
	4	80( 70)	71(78)	50( 33)	40( 35)	23( 27)	
	5	3( 4)	1( 2)	9( 13)	12( 10)	9( 13)	
6	1	104( 94)	26(27)	438(373)	138(147)	214(233)	1,815(1,926)
	2	3( 4)	7( 7)	16( 9)	99(119)	454(610)	
	3	45( 35)	29(33)	20( 30)	2( 7)	9( 7)	
	4	72( 78)	86(64)	27( 23)	1( 3)	1( 2)	
	5	2( 0)	1( 0)	5( 8)	7( 3)	9( 10)	
7	1	93( 84)	18(21)	408(364)	177(205)	422(490)	2,007(2,167)
	2	6( 5)	4( 3)	12( 22)	37( 55)	524(573)	
	3	18( 31)	12(14)	28( 24)	29( 21)	33( 46)	
	4	75( 85)	33(37)	25( 25)	13( 11)	9( 14)	
	5	3( 4)	1( 0)	10( 8)	7( 8)	10( 17)	
8	1	208(166)	58(46)	738(568)	272(265)	452(417)	3,392(3,135)
	2	18( 16)	4( 1)	56( 47)	187(201)	941(984)	
	3	35( 45)	37(43)	31( 33)	41( 42)	47( 32)	
	4	74( 76)	80(70)	37( 43)	7( 3)	4( 6)	
	5	6( 2)	5( 0)	19( 11)	17( 7)	18( 11)	
9	1	107( 92)	43(41)	584(536)	231(268)	552(550)	2,222(2,336)
	2	6( 2)	1( 7)	13( 11)	28( 26)	306(419)	
	3	44( 35)	37(43)	20( 30)	21( 29)	27( 23)	
	4	69( 81)	68(81)	23( 27)	9( 7)	8( 13)	
	5	2( 0)	3( 2)	9( 4)	5( 3)	6( 6)	
TOTALS → 22,044(21,808)							
GRAND TOTAL = 22,044 + 21,808 = 43,852							

RESPONDENT is any truck which returned the NTACS Questionnaire with response to at least one new data item other than what was already known for the truck from the 1987 TIUS.

Source: 1990 NTACS tape from U. S. Bureau of the Census to Oak Ridge National Laboratory. (July 1991)

**TABLE I NUMBER OF SAMPLE DAY ONE RESPONDENTS (NONRESPONDENTS)  
TO THE 1990 NTACS**

CENSUS		SAMTYP					
DIVISION	HAUL	1	2	3	4	5	TOTAL
1	1	75(206)	35(133)	124(511)	203(715)	169(548)	925(3,348)
	2	4( 7)	3( 8)	5(48)	46(173)	151(661)	
	3	10(26)	19(41)	6(33)	5(15)	3( 8)	
	4	37(81)	22(38)	6(34)	0( 5)	1( 3)	
	5	0( 4)	0( 5)	0(18)	1(14)	0(13)	
2	1	32(81)	18(82)	162(547)	225(726)	155(451)	932(2,952)
	2	0( 2)	4( 3)	1(17)	18(42)	157(553)	
	3	28(52)	21(59)	28(93)	10(28)	3(20)	
	4	33(61)	28(56)	9(51)	0( 2)	0( 1)	
	5	0( 0)	0( 1)	0(10)	0( 5)	0( 9)	
3	1	62(155)	28(97)	164(594)	95(259)	115( 337)	919(3,291)
	2	4(12)	4( 8)	9( 32)	30(133)	282(1309)	
	3	16(34)	17(33)	13( 37)	8( 31)	2( 23)	
	4	25(50)	26(48)	14( 61)	0( 1)	0( 2)	
	5	0( 2)	0( 2)	3( 8)	0(13)	2(10)	
4	1	152(350)	21(68)	198(1000)	311(1240)	102( 294)	1,476(5,477)
	2	2( 17)	4( 8)	9( 37)	54( 186)	426(1668)	
	3	23( 57)	27(53)	15( 59)	11( 23)	2( 10)	
	4	52( 98)	42(107)	17( 83)	6( 29)	1( 14)	
	5	0( 7)	0( 4)	1( 25)	0( 23)	0( 17)	
5	1	34(257)	45(129)	184(554)	148(414)	164( 581)	1,343(4,189)
	2	3( 14)	3( 14)	13( 53)	50(190)	416(1254)	
	3	20( 59)	17( 63)	27( 94)	15( 34)	12( 38)	
	4	44(106)	44(105)	21( 62)	17( 58)	11( 39)	
	5	1( 6)	0( 3)	1(21)	2( 20)	1( 21)	
6	1	58(140)	14(39)	173(638)	70(215)	98(349)	816(2,925)
	2	3( 4)	3(11)	5( 20)	37(181)	199(865)	
	3	23( 57)	14(48)	7( 43)	0( 9)	4( 12)	
	4	40(110)	55(95)	7( 43)	1( 3)	1( 2)	
	5	1( 1)	1( 0)	1(12)	0(10)	1( 18)	
7	1	39(138)	9(30)	133(639)	87(295)	198(714)	886(3,288)
	2	2( 9)	2( 5)	5( 29)	18( 74)	247(850)	
	3	11( 38)	7(19)	14( 38)	16( 34)	15( 64)	
	4	46(114)	17(53)	8( 42)	5( 19)	3( 20)	
	5	1( 6)	0( 1)	2(16)	1(14)	0(27)	
8	1	109(265)	36( 68)	276(1030)	121(416)	197( 672)	1,371(5,156)
	2	9( 25)	1( 4)	19( 84)	53(335)	346(1579)	
	3	18( 62)	18( 62)	13( 51)	21( 62)	16( 63)	
	4	45(105)	48(102)	12( 68)	2( 8)	3( 7)	
	5	1( 7)	1( 4)	4( 26)	0(24)	2( 27)	
9	1	61(138)	34( 50)	287(833)	125(374)	275(827)	1,126(3,432)
	2	3( 5)	0( 8)	3(21)	12( 42)	148(577)	
	3	31( 48)	19( 61)	9( 41)	12( 38)	8( 42)	
	4	43(107)	40(109)	12( 38)	1( 15)	2( 19)	
	5	0( 2)	0( 5)	1(12)	0( 8)	0(12)	
TOTALS → 9,794(34,058)							
GRAND TOTAL = 9,794 + 34,058 = 43,852							

Source: 1990 NTACS tape from U. S. Bureau of the Census to Oak Ridge National Laboratory. (July 1991)



## APPENDIX B

### COMMODITY CODES FOR PRODUCTS, EQUIPMENT, AND MATERIALS

<u>CODE</u>	<u>COMMODITY</u>
	<u>Agricultural and Food Products</u>
15	Live animals - cattle, horses, poultry, hogs, fish, and other marine products, etc.
16	Fresh farm products - grain, crops, flowers, nursery stock, raw milk, raw tobacco, etc.
17	Processed foods - canned goods, prepared meats, frozen foods, beverages, bottled water, dairy products, tobacco products, etc.
18	<u>Mining Products, unrefined - crude oil, coal, and metal ores</u>
19	<u>Building materials - gravel, sand, concrete, glass, and stone, etc.</u>
	<u>Forestry, Wood, and Paper Products</u>
20	Logs and forest products - Except cut lumber and fabricated wood products, (see below) barks or gums
21	Lumber and fabricated wood products - Except furniture
22	Paper, printed matter, and paper products
	<u>Chemicals, Petroleum, and Allied Products</u>
23	Chemicals and/or drugs - including fertilizers, pesticides, cosmetics, paints, etc.
24	Petroleum, petroleum products, paving, and asphalt or tar cements
25	Plastics and/or rubber products
	<u>Metals and Metal Products</u>
26	Primary metal products - pipes, ingots, billets, metal sheets, etc.
27	Fabricated metal products and bolts and nuts - Except machinery or transportation equipment (see below)
28	Machinery - electrical or nonelectrical
29	Transportation equipment (including complete vehicles) and parts
	<u>Other Manufactured Products</u>
30	Furniture (wood and nonwood) and/or fixtures - not involved in household moving

- 31 Textiles and apparels - fibers, leather goods, carpets, clothing, etc.
- 32 Miscellaneous products of manufacturing - including photographic goods, watches, clocks, jewelry and toys
- Miscellaneous
- 33 Moving of household and office furniture, including exhibits - from home, offices, etc., under contract
- 34 Mixed cargo, general freight, personal goods, mail and express traffic, and small packaged freight
- 35 Tools/parts for specialized use as in craftsman's vehicle
- 36 Scrap, garbage, trash
- 37 Industrial water
- 38, 39 Other
- No Load Carried
- 40 Vehicle empty

# APPENDIX C

## TYPE OF PLACE CODES

<u>Code</u>	<u>Place</u>
A	Railroad facility (servicing facility)
B	Railroad facility (pickup or delivery of rail shipment)
C	Airport (servicing facility)
D	Airport (pickup or delivery of air shipment)
E	Harbor or port facility (servicing facility)
F	Harbor/port facility (pickup or delivery of water shipment)
G	Truck/bus terminal not part of airport, harbor, or railroad
H	Warehouse
I	Tank farm
J	Power plant/distribution station
K	House, apartment building
L	Forest, farm, field, farm building, fisheries
M	Grain elevator, stockyard
N	Mine, quarry, gravel pit, stone crusher
O	Construction site
P	Manufacturing facility or assembly plant
Q	Store or other retail or service outlet
R	Office building, school, hospital, other public facilities
S	Park or other recreational facility
T	Other

# APPENDIX D

## PRINCIPAL PRODUCTS, CORRESPONDING MNEMONICS, AND CODES

<u>DESCRIPTION</u>	<u>MNEMONIC</u>	<u>PRINCIPAL PRODUCT CODE</u>
Fresh farm products	FARMPD	01
Live animals	LVANML	02
Processed foods	PRFOOD	03
Mining products	MINPRO	04
Building Materials	BLDGMA	05
Logs and forest products	LOGPRO	06
Lumber and fabricated wood products	LUMBER	07
Paper and paper products	PAPER	08
Chemicals and/or drugs	CHEM	09
Petroleum and petroleum products	PETROL	10
Plastics and/or rubber products	PLASTK	11
Primary metal products	PRMITL	12
Fabricated metal products	FABMTL	13
Machinery	MACHINE	14
Transportation equipment	TEQUIP	15
Furniture and/or hardware	FURN	16
Textiles and apparels	TEXTIL	17
Moving of household and office furniture	MOVING	18
Miscellaneous tools and/or parts for use (as in a craftsman's vehicle)	TOOLS	19
Mixed cargo, general freight	MXDCAR	20
Scrap, garbage, trash, septic tank waste	REFUSE	21
Other	OTHER	22
No load carried	PNLOD	23
Personal transportation	PRSTN	24
Not in use	NONUSE	25
Miscellaneous products of manufacturing	MSCMFG	27
Industrial water	INDWIR	28
Hazardous waste	HWASTE	29

# APPENDIX E

AXLE RECODE CHART									
TYPE OF UNIT	VEHIC Code	MAXIS Code	STTRFT Code	SINGLE Code	DOUBLE Code	TRIPLE Code	UTLTRL Code	AMONTU Code	AXLRE Code
Single Unit Truck (2 axles)	1	1 or 2							01
Single Unit Truck (3 axles)	1	3							02
Single Unit Truck (4 or more axles)	1	4							03
Single Unit Truck (2 axles) Pulling a Full Trailer (2 axles)	2	1 or 2	1						04
Single Unit Truck (2 axles) Pulling a Full Trailer (3 axles)	2	1 or 2	2						05
Single Unit Truck (2 axles) Pulling a Full Trailer (4 or more axles)	2	1 or 2	3						08
Single Unit Truck (3 axles) Pulling a Full Trailer (2 axles)	2	3	1						06
Single Unit Truck (3 axles) Pulling a Full Trailer (3 axles)	2	3	2						07
Single Unit Truck (3 axles) Pulling a Full Trailer (4 or more axles)	2	3	3						09
Single Unit Truck (4 or more axles) Pulling a Full Trailer (2 axles)	2	4	1						10
Single Unit Truck (4 or more axles) Pulling a Full Trailer (3 axles)	2	4	2						11
Single Unit Truck (4 or more axles) Pulling a Full Trailer (4 or more axles)	2	4	3						12

AXLE RECODE CHART									
TYPE OF UNIT	VENTP Code	MAXLS Code	STTRFT Code	SINGLE Code	DOUBLE Code	TRIPLE Code	UTLTRL Code	AXONTU Code	AXLRE Code
Truck-Tractor (2 axles) Pulling a Semi-Trailer (1 axle)	3	1 or 2		1					13
Truck-Tractor (2 axles) Pulling a Semi-Trailer (2 axles)	3	1 or 2		2					14
Truck-Tractor (2 axles) Pulling a Semi-Trailer (3 or more axles)	3	1 or 2		3					18
Truck-Tractor (3 axles) Pulling a Semi-Trailer (one axle)	3	3		1					15
Truck-Tractor (3 axles) Pulling a Semi-Trailer (two axles)	3	3		2					16
Truck-Tractor (3 axles) Pulling a Semi-Trailer (3 or more axles)	3	3		3					19
Truck-Tractor (4 or more axles) Pulling a Semi-Trailer (1 axle)	3	4		1					17
Truck-Tractor (4 or more axles) Pulling a Semi-Trailer (2 axles)	3	4		2					20
Truck-Tractor (4 or more axles) Pulling a Semi-Trailer (3 or more axles)	3	4		3					21
Truck-Tractor (2 axles) Pulling Two Trailers (total of 3 axles on both)	3	1 or 2			1				22
Truck-Tractor (2 axles) Pulling Two Trailers (total of 4 axles on both)	3	1 or 2			2				23
Truck-Tractor (3 axles) Pulling Two Trailers (total of 3 axles on both)	3	3			1				24
Truck-Tractor (3 axles) Pulling Two Trailers (total of 4 axles on both)	3	3			2				27
Truck-Tractor (4 or more axles) Pulling Two Trailers (3 axles on both)	3	4			1				30

AXLE RECODE CHART									
TYPE OF UNIT	VEHTP Code	MAXLS Code	STTRFT Code	SINGLE Code	DOUBLE Code	TRIPLE Code	UTLTRL Code	AXONTU Code	AXLRE Code
Truck-Tractor (4 or more axles) Pulling Two Trailers (total of 4 axles on both)	3	4			2				31
Straight Truck (2 axles, small) Pulling Utility Trailer (1 axle)	2	1 or 2					1 or..	...1	46
Straight Truck (2 axles, small) Pulling Utility Trailer (2 axles)	2	1 or 2					2 or..	...2	47
Straight Truck (2 axles, small) Pulling Utility Trailer (3 or more axles)	2	1 or 2					3 or..	...3	48
Straight Truck (3 axles, small) Pulling Utility Trailer (1 axle)	2	3						1	49
Straight Truck (3 axles, small) Pulling Utility Trailer (2 axles)	2	3						2	50
Straight Truck (3 axles, small) Pulling Utility Trailer (3 or more axles)	2	3						3	51
Straight Truck (2 axles, large) Pulling Utility Trailer (1 axle)	2	2					1		52
Straight Truck (2 axles, large) Pulling Utility Trailer (2 axles)	2	2					2		53
Straight Truck (2 axles, large) Pulling Utility Trailer (3 or more axles)	2	2					3		54
Straight Truck (3 axles, large) Pulling Utility Trailer (1 axle)	2	3					1		55
Straight Truck (3 axles, large) Pulling Utility Trailer (2 axles)	2	3					2		56
Straight Truck (3 axles, large) Pulling Utility Trailer (3 or more axles)	2	3					3		57

AXLE RECODE CHART									
TYPE OF UNIT	VENTP Code	MAXLS Code	STTRFT Code	SINGLE Code	DOUBLE Code	TRIPLE Code	UTLTRL Code	AXMNTU Code	AXLRE Code
Straight Truck (4 or more axles) Pulling Utility Trailer (1 axle)	2	4					1		58
Straight Truck (4 or more axles) Pulling Utility Trailer (2 axles)	2	4					2		59
Straight Truck (4 or more axles) Pulling Utility Trailer (3 or more axles)	2	4					3		60
Truck-Tractor (2 or more axles) Pulling 2 or more Trailers (5 axles)	3	1,2,3, or 4			3 or...	...1			25
Truck-Tractor (2 or more axles) Pulling 2 or more Trailers (6 or more axles)	3	1,2,3, or 4			4 or...	...2, 3, or 4			26



# APPENDIX F

## USER COMMENT FORM & DATA SHARING FORM

### Technical Documentation for the 1990 Nationwide Truck Activity and Commodity Survey Public Use File

**PURPOSE:** The 1990 Nationwide Truck Activity and Commodity Survey (NTACS) collected one- and two-day snapshots of a vehicle's activity for a sample of 1987 Truck Inventory and Use Survey (TIUS) respondents. The NTACS was designed to provide for more detailed information than is possible on the TIUS.

Plans are moving forward to conduct a second NTAS (page vii) as a follow-on to the 1992 TIUS. DOT, the Census Bureau, and ORNL are anxious to learn from the first NTACS so that the quality of NTAS data can be improved and the second NTAS can be conducted with greater efficiency and effectiveness. Data user comments are a key element to understanding the problems that must be overcome and the improvements that should be made.

#### *User Comment Form*

The purpose of the 1990 NTACS User Comment Form is to provide an opportunity for users of the 1990 NTACS File and Documentation to comment on the content and quality of these products in meeting user needs. Comments will be used for future improvements. (See Form on pages F-3 and F-4.)

#### *Data Sharing Form*

Users are invited to share novel statistics computed from this 1990 NTACS File which may be beneficial to other users. Users desiring to share such statistics with the rest of the TIUS/NTACS community are requested to send their voluntary submissions to the NTACS Library as indicated on page F-6 in the format illustrated below using the components (statistic, definition, procedures, special data editing, table of results) in the following example.

### ***EXAMPLE***

**Statistic:**

1990 TOTAL ANNUAL TOLLS (TATOLLS) for Short Haul and Long Haul Commodity-Carrying Trucks

**Definition(s):**

- TATOLLS is an estimate of the total 1990 annual amount paid in tolls for the NTACS population.
- Short haul, commodity-carrying trucks are identified as those trucks having the second character of TRUKID equal to 1.
- Long haul, commodity-carrying trucks are identified as those trucks having the second character of TRUKID equal to 2. (See page 60.)

**Procedure:**

**Step 1.** For each truck in the 1990 NTACS (Imputed) File, compute an estimate of the annual amount paid in tolls.

$$ATOLLS = (TOLL1) \cdot \left( \frac{\text{NUMBER OF DAYS OPERATED DURING}}{\text{SAMPLE WEEK ONE}} \right) \cdot (WKSOP).$$

**Step 2.** Then TATOLLS for each classification is computed separately as

$$TATOLLS = \sum_{\substack{\text{Sample} \\ \text{Trucks} \\ \text{in} \\ \text{Classification}}} (ATOLLS) \cdot (XPFD1).$$

**Special Data Editing:**

None.

**Table of Results:**

TATOLLS of Short Haul and Long Haul Commodity-Carrying Trucks

<u>Type</u>	<u>Estimated</u> <u>1990 TATOLLS</u>
Short Haul, Commodity-Carrying	\$ 696,697,976
Long Haul, Commodity -Carrying	\$ 843,906,070
Total	\$1,540,604,046

**Organization:**

Oak Ridge National Laboratory  
Contact: Stacy Davis (615) 574-5957  
Date Prepared: July, 1992

# USER COMMENT FORM

Technical Documentation  
for the  
1990 Nationwide Truck Activity and  
Commodity Survey  
Public Use File

**Purpose:** The purpose of this form is to provide an opportunity for users of the 1990 NTACS File and Documentation to comment on the content and quality of these products in meeting user needs. Comments will be used for future improvements.

Name \_\_\_\_\_

Job Title \_\_\_\_\_

Organization \_\_\_\_\_

Mailing Address \_\_\_\_\_

\_\_\_\_\_, \_\_\_\_\_

City

State

Zip

Telephone ( ) \_\_\_\_\_

1. I found the following data items most useful.

\_\_\_\_\_  
\_\_\_\_\_

2. I found the following data items least useful.

\_\_\_\_\_  
\_\_\_\_\_

3. Other comments on the 1990 NTACS User File.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## USER COMMENT FORM (Continued)

4. Other comments on the 1990 NTACS Documentation.

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5. Comments for improving future NTACS User Files.

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6. Comments for improving future NTACS Documentation.

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Thank you for your comments. Please return this form to:

1990 NTACS  
Data Analysis Group  
Center for Transportation Analysis  
Oak Ridge National Laboratory  
P.O. Box 2008, Bldg. 5500A  
Oak Ridge, Tennessee 37831-6366  
Voice: (615) 574-5957  
Fax: (615) 574-3851

# DATA SHARING FORM

## Technical Documentation for the 1990 Nationwide Truck Activity and Commodity Survey Public Use File

**Purpose:** The purpose of this form is to provide an opportunity for users of the NTACS File to share novel statistics computed from this 1990 NTACS File which may be beneficial to other users.

Statistic:

Definition(s)

Procedure:

Special Data Editing:

Table of Results:

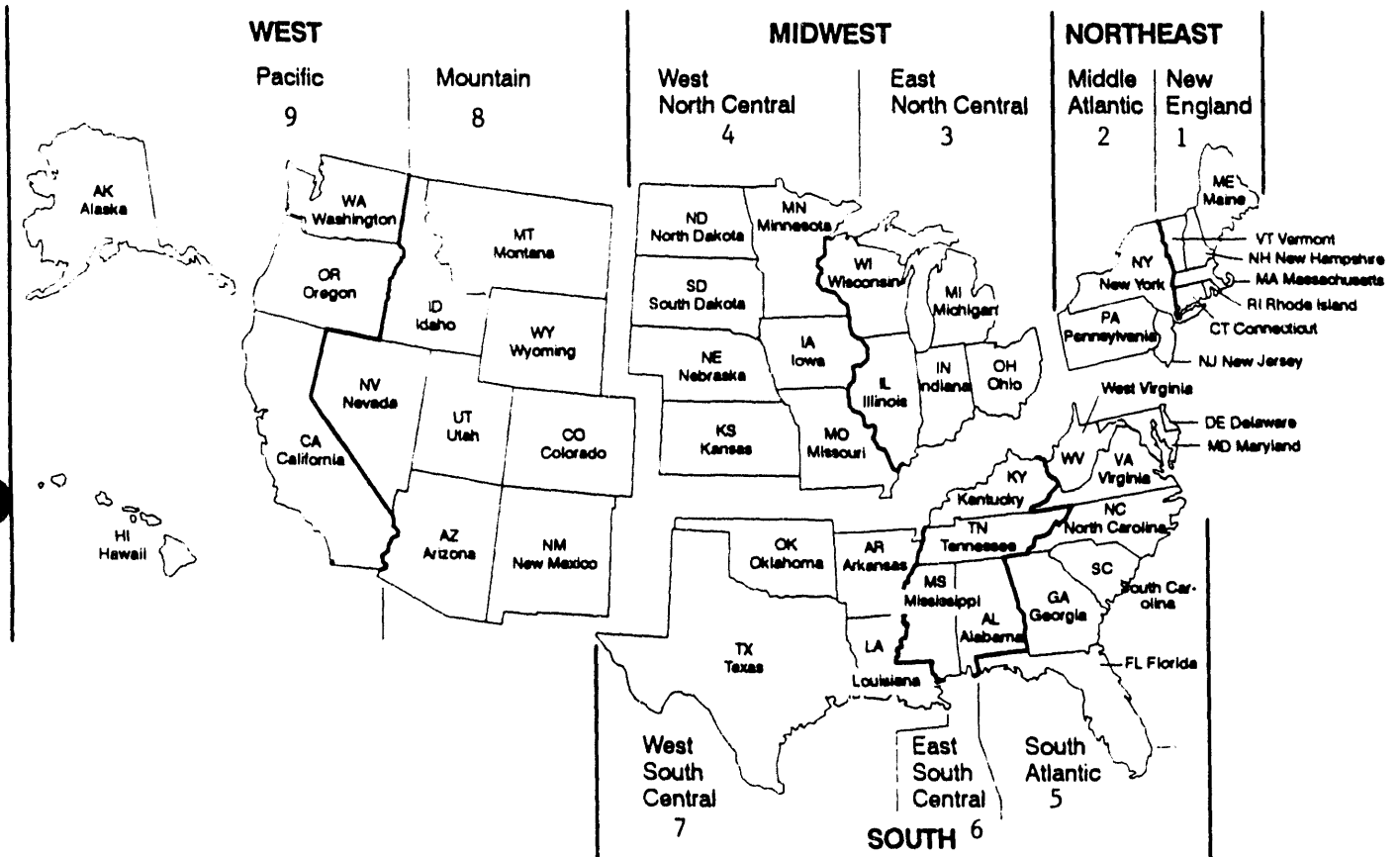
Organization:

Thank you for sharing your statistics. Please return this form to:

1990 NTACS Library  
Statistics and Data Analysis Group  
Center for Transportation Analysis  
Oak Ridge National Laboratory  
P.O. Box 2008, Building 5500A  
Oak Ridge, Tennessee 37831-6368  
Voice: (615) 574-5957  
Fax: (615) 574-3851

# APPENDIX G

## MAP OF NINE CENSUS DIVISIONS



# INTERNAL DISTRIBUTION

- |                   |                                 |
|-------------------|---------------------------------|
| 1. M. S. Bronzini | 10. D. P. Vogt                  |
| 2. S. M. Chin     | 11. T. Wright                   |
| 3. S. C. Davis    | 12. ORNL Patent Office          |
| 4. D. L. Greene   | 13-14. Central Research Library |
| 5. P. S. Hu       | 15. Document Reference Section  |
| 6. M. A. Kuliasha | 16-17. Laboratory Records       |
| 7. S. P. Miaou    | 18. Laboratory Records - RC     |
| 8. B. E. Peterson |                                 |
| 9. R. B. Shelton  |                                 |

# EXTERNAL DISTRIBUTION

19. B. B. Buchanan, Professor, Computer Science Department, University of Pittsburg, 206 Mineral Industries Building, Pittsburgh, PA 15260
20. H. M. Ingram, Director, Udal Center for Studies in Public Policy, The University of Arizona, 803/811 East First Street, Tucson, Arizona 85719
21. C. D. MacCracken, President, Calmac Manufacturing Corporatino, P.O. Box 710, Englewood, New Jersey 07631
22. J. B. Shrago, Director, Office of Technology Transfer, 405 Kirkland Hall, Vanderbilt University, Nashville, Tennessee 37240
23. M. Williams, Professor, Department of Economics, Northern Illinois University, DeKalb, Illinois 60115
- 24-73. Center for Transportation Analysis, Energy Division, 5500A, MS-6366, Room A217
- 74-83. OSTI, U.S. Department of Energy, P.O. Box 62, Oak Ridge, TN 37831
84. Office of Assistant Manager of Energy Research and Development, DOE/ORO, P.O. Box 2001, Oak Ridge, TN 37831-8600



**END**

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**DATE  
FILMED**

**11 / 23 / 92**

