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2002 Economic Census

Vehicle Inventory and Use Survey

Geographic Area Series



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2002 Economic Census
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Vehicle Inventory and Use Survey

The Vehicle Inventory and Use Survey (VIUS) provides data on the physical and operational characteristics of the nation's truck population. This survey is conducted every 5 years as part of the economic census. Its primary goal is to produce national and state-level estimates of the total number of trucks.

The 2002 VIUS is a probability sample of private and commercial trucks registered (or licensed) in the United States as of July 1, 2002.¹ A sample of about 136,000 trucks was surveyed to measure the characteristics of nearly 89 million trucks registered in the United States. The VIUS excludes vehicles owned by federal, state, and local governments; ambulances; buses; motor homes; farm tractors; unpowered trailer units; and trucks reported to have been disposed of prior to January 1, 2002.

Registration practices for commercial vehicles differ greatly among the states. Some states register a truck-tractor semitrailer combination as a single unit; others register the tractor and the semitrailer separately. For either method of registration, only truck-tractors are included in the registered truck counts. In addition, some states allow pickups, small vans, and sport utility vehicles to be registered as either cars or trucks. Therefore, passenger car files were searched and any such vehicles were included in the sampling frame. Some vehicles, such as "off-highway" trucks used exclusively on private property, are not required to be registered. These vehicles were not included in the sampling frame and had no chance of being selected for the survey.

PURPOSE AND USE OF DATA

The economic census is the major source of facts about the structure and functioning of the nation's economy. It provides the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

VIUS data are of considerable value to government, business, academia, and the general public. Data on the number and types of vehicles and how they are used are important in studying the future growth of transportation and are needed in calculating fees and cost allocations among highway users. The data also are important in evaluating safety risks to highway travelers and in assessing the energy efficiency and environmental impact of the nation's truck fleet. Businesses and others make use of these data in conducting market studies and evaluating market strategies; assessing the utility and cost of certain types of equipment; calculating the longevity of products; determining fuel demands; and linking to, and better utilizing, other data sets representing limited segments of the truck population.

COMPARABILITY WITH PREVIOUS SURVEYS

The results of the 2002 VIUS are comparable, in most instances, to the results of the 1997 VIUS and prior Truck Inventory and Use Surveys (TIUS). Specific changes are as follows:

¹Due to difficulty in obtaining up-to-date vehicle registration records for New Hampshire, the sample was drawn as of September 1, 2001, for this state.

1. **Business** (formerly Major Use).

Changed—

- The kind of business was converted from a Standard Industrial Classification (SIC) basis to a North American Industry Classification System (NAICS) basis. Even though category headings may appear similar, differences in the classification systems should be taken into account for comparability purposes.

2. **Body Type.**

New—

- Categories that were added are: armored; concrete pumper; curtainside; mobile home toter; street sweeper; vacuum; and van, other.

Changed—

- The station wagon category was collapsed into the sport utility category.
- The grain body category was collapsed into the open top van category.
- The platform with added devices category was collapsed into the flatbed, stake, or platform category.
- The category “Winch or crane” was changed to “Crane” (winch was added as a category to the equipment type section).

Deleted—

- The oilfield truck and yard tractor categories were dropped.

3. **Primary Jurisdiction** (formerly Base of Operation).

Changed—

- Estimates were previously calculated for the percentage of miles traveled outside the base-of-operation state. For 2002 estimates are calculated based on jurisdictions in which the vehicle traveled. Estimates of miles traveled in Canada, Mexico, and states other than the home base state are also provided.

4. **Months Operated** (formerly Weeks Operated).

New—

- The “Vehicle not used” category was added.

Changed—

- Categories for time operated were changed from weekly intervals to monthly intervals.

5. **Average Weight (Pounds).**

Changed—

- The category “6,001 to 10,000” was split into “6,001 to 8,500” and “8,501 to 10,000.”

6. **Total Length (Feet).**

New—

- Categories representing lengths of 45 feet up to 80 feet or more were added.

7. **Vehicle Acquisition.**

Deleted—

- The categories “Leased from someone else” and “Other” were dropped.

8. Lease Characteristics.

New—

- Categories for the length of the leasing agreement were added.
- The category “Fuel contract” was added to the provisions of lease section.

Changed—

- The leased section includes a breakout between lessee and lessor.
- The categories “Leased with driver other than owner-operator” and “Leased with owner-operator” were collapsed into the category “Vehicle with driver.”

Deleted—

- The categories “Maintenance on specific parts” and “Other” were dropped from the provisions of lease section.

9. Primary Operator Classification.

New—

- A section for source of hauls was added.

Changed—

- There is limited comparability for this section due to significant changes in the categories and definitions.

Deleted—

- The section “For-hire jurisdiction” was dropped.
- The category “Exempt” was dropped from the type of carrier section.

10. Hazardous Materials Carried.

Deleted—

- All detailed hazardous material data lines were dropped except in Table 8 where distributed mileage appears.

11. Equipment Type.

New—

- Categories added to the equipment type section are: aerial work platform/bucket, air compressor, air springs, collision warning system, computerized drive train control unit, crane, hoist, idle-reducing technology, internet access, lift gate, mounting bar for snowplow, power take-off, toolbox, and winch.
- A section for transmission type was added.

Changed—

- The trip recorder or on-board computer category was broken out into categories distinguishing with or without communication capabilities.
- Categories for radial tires and road speed governor were moved from the fuel conservation equipment section to the equipment type section.
- The front-wheel drive category was moved from the driving wheels section to the equipment type section.

Deleted—

- Categories for power steering and electronic vehicle management system were dropped.

12. **Fuel Type and Engine Size** (formerly Engine Type and Size).

New—

- Respondents were permitted to report fuel combinations if used most often during the year.

Changed—

- The “Liquefied gas or other” category has been broken out into categories for natural gas, propane, alcohol fuels, electricity, and combination.

13. **Refueling Location.**

Changed—

- Response categories were changed significantly. No comparable 1997 data are available for this section.

14. **Maintenance.**

Deleted—

- The category for component distributorship was dropped from the general maintenance section.

15. **Truck Type and Axle Arrangement.**

New—

- The category “4 axles or more” for single-unit trucks and truck tractors without trailer was broken out into “4 axles” and “5 axles or more.”
- Sections for total liftable axles and locations and total liftable axles and number of braking axles were added.

Changed—

- A truck-tractor, if not in operation, was grouped with the single-unit trucks.
- The subgroupings for single-unit truck with trailer and single-unit truck with utility trailer were combined.
- The category “7 axles or more” for truck-tractors with double trailers was broken out into “7 axles” and “8 axles or more.”
- The category “8 axles or more” for truck-tractors with triple trailers was broken out into “8 axles,” “9 axles,” and “10 axles or more.”

Deleted—

- The category for trailer not specified was dropped.

16. **Cab Type.**

New—

- Categories for conventional cab or cab over engine with or without a sleeper were added.

Deleted—

- The category “Other” was dropped.

17. **Additional Changes.**

Not applicable. This category was added to some sections to make the detail lines add to total.

Primary products carried. Truck count detail lines for products carried were dropped from all tables. Distributed mileage for products carried appears in Table 8. Product mileage does not sum to 100 percent because multiple products may be carried at the same time. Products carried, which somewhat followed the SIC system, are now based on the Standard Classification of Transported Goods (SCTG).

Truck fleet size. This section was dropped from all tables.

Fuel conservation equipment. This section was dropped from all tables.

The driving wheels section for pickups, panels, vans, sport utilities and station wagons (4-wheel drive and 2-wheel drive) was dropped.

Table layout. The table layout for the 2002 state publication has changed significantly from the table layout used for the 1997 state publication. Some of the changes include:

1. Table 2 is broken out into Tables 2a (trucks, truck miles, and average annual miles for all trucks), 3a (trucks, truck miles, and average annual miles for trucks, excluding pickups, minivans, other light vans, and sport utilities), 2b (measures of sampling variability for Table 2a), and 3b (measures of sampling variability for Table 3a).
2. Tables 4, 5, 6, 7, and 8 are new:
 - a. Table 4 contains estimates of the number of trucks by vehicle size.
 - b. Table 5 contains estimates of the number of trucks by truck type.
 - c. Table 6 contains estimates of the number of miles traveled by vehicle size.
 - d. Table 7 provides estimates of the number of miles traveled by truck type.
 - e. Table 8 shows estimates of the number of truck miles distribution by operational characteristics.

EXPLANATION OF TERMS

Business. This item is based on the business or the part of the business in which the vehicle was used. The 15 specific business use categories are self-explanatory and are roughly based on NAICS sectors. Responses in the "Other" category were recoded, if possible, to one of the 15 specific business categories.

Body type. This item describes the type of body that is permanently attached to the power unit (i.e., straight or single-unit truck). For truck-tractors, the body type is defined as the type of trailer most often pulled.

Minivans. This body type category includes minivans that are manufactured on either a truck or passenger car chassis.

Annual miles. This item represents the annual miles traveled. When a respondent had partial-year ownership of the vehicle, annual miles were adjusted to reflect miles traveled when not owned by the respondent.

Vehicle size. This item is determined by the average vehicle weight (empty vehicle weight plus cargo weight) during 2002. The four size classes are:

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

Primary operator classification. This item is defined as follows:

1. **Personal transportation.** This is a vehicle operated for personal use, such as travel to work, carpooling, pleasure driving, etc.
2. **Rental.** This is a vehicle operated for daily or short-term rental.
3. **Private.** This is a vehicle operated to carry goods owned by the respondent, or for internal company business.
4. **Motor carrier.** This is a vehicle operated by a company and hired to carry other people's goods.
5. **Owner operator.** This is a vehicle operated by an independent trucker hired to carry other people's goods.

Hazardous materials. This item identifies those trucks that transport hazardous materials in quantities large enough to have a placard on the vehicle required by 49 CFR Part 172 Subpart F.

Truck miles distribution. Table 8 shows the distribution of annual miles by the actual percentage of use for selected activities of each truck. Mileage estimates presented in all other tables of this report represent 100 percent of the individual truck's mileage based on primary activity, regardless of any secondary operational activities.

SAMPLE DESIGN

The sampling frame was constructed from files of truck registrations identified as being active as of July 1, 2002.² The frame was stratified by geography and truck characteristics. The 50 states and the District of Columbia made up the 51 geographic strata. Body type and gross vehicle weight (GVW) determined the following five truck strata: 1) pickups; 2) minivans, other light vans, and sport utilities; 3) light single-unit trucks (GVW < 26,000 lb); 4) heavy single-unit trucks (GVW ≥ 26,000 lb; and 5) truck-tractors. Therefore, the sampling frame was partitioned into 255 geographic-by-truck strata. Within each stratum, a simple random sample of truck registrations was selected without replacement. This produced a total sample of approximately 136,000 truck registrations.

The sample size for Illinois is 2,760 truck registrations.

Estimation

An estimate of the number of trucks for a particular state and truck characteristic was computed in the following manner. Weighted estimates of the number of trucks having the characteristic of interest were computed for each of the five truck strata. The weight for a given truck was the product of two factors—the reciprocal of the truck's probability of selection and a nonresponse adjustment factor. (See the **Nonsampling Error** section for a description of the nonresponse adjustment procedure.) The truck stratum estimates were summed to form a state-level estimate. Two types of truck miles estimates are provided. Distributed truck miles estimates, as shown in Table 8, were computed by apportioning each truck's annual miles into the appropriate category based on the percent of miles driven in the category as reported by the respondent. Truck miles estimates presented in all other tables were computed by attributing 100 percent of an individual truck's annual miles to the category with the greatest reported percentage. For example, say a particular truck was driven 50,000 miles in the survey year and the respondent indicated 80 percent of the trips were between 201 and 500 miles from the home base, while 20 percent of the trips were between 101 and 200 miles from the home base. In Table 8, 40,000 miles would be tabulated in the "201 to 500 miles" category and 10,000 miles would be tabulated in the "101 to 200 miles" category. In all other tables, 50,000 miles would be tabulated in the "201 to 500 miles" category. To compute an estimate of the average miles per truck, the total miles estimate was divided by the number of trucks estimate for the characteristic of interest.

²The sampling frame included trucks registered as of September 1, 2001, for New Hampshire.

DATA COLLECTION

A questionnaire was mailed to the registered owner of each selected truck registration. This registrant was requested to provide data about the truck identified by the vehicle registration information imprinted on the questionnaire. The information provided by each respondent was subjected to extensive computer edits. Questionable responses were reviewed and corrected when necessary.

RELIABILITY OF THE ESTIMATES

The total error of an estimate based on a sample survey is the difference between the estimate and the population parameter that it estimates. This error may be considered to be comprised of sampling error and nonsampling error. Sampling error is the difference between the estimate and the result that would be obtained from a complete enumeration of the sampling frame conducted under the same survey conditions. This error occurs because characteristics differ among sampling units and because only a subset of the entire population is measured in a sample survey. Nonsampling error encompasses all other factors that contribute to the total error of a sample survey estimate. The accuracy of a survey result may be affected by these two types of errors.

Sampling and nonsampling errors are often measured by the quantities, bias and variance. The *bias* of an estimator of a population parameter is the difference, averaged over all possible samples of the same size and design, between the estimator and the population parameter being estimated. (The population parameter is usually unknown.) Any systematic error, or inaccuracy that affects all samples of a specified design in a similar way, may bias the resulting estimates. The *variance* of an estimator is the squared difference, averaged over all possible samples of the same size and design, between the estimator and its average value.

Measures of Sampling Variability

Because the estimates are based on a sample, exact agreement with the results that would be obtained from a complete enumeration of the truck registrations on the sampling frame is not expected. However, because each truck included on the sampling frame has a known probability of being selected into the sample, it is possible to estimate the sampling variability of the survey estimates.

The particular sample used in this survey is one of a large number of samples of the same size that could have been selected using the same design. If all possible samples had been surveyed under the same conditions, an estimate of the population parameter of interest could have been obtained from each sample. These samples give rise to a distribution of estimates for the population parameter. A statistical measure of the variability among these estimates is the standard error, which can be approximated from any one sample. The *standard error* is defined as the square root of the variance. The *coefficient of variation* (or relative standard error) of an estimator is the standard error of the estimator divided by the estimator. Note that measures of sampling variability, such as the standard error and coefficient of variation, are estimated from the sample and are also subject to sampling variability. (Technically, we should refer to the *estimated* standard error or the *estimated* coefficient of variation of an estimator. However, for the sake of brevity, we have omitted this detail.) It is important to note that the standard error and coefficient of variation only measure sampling variability. They do not measure any systematic biases in the estimates. The U.S. Census Bureau recommends that individuals using estimates contained in this report incorporate this information into their analyses, as sampling error could affect the conclusions drawn from these estimates.

An estimate from a particular sample and the standard error associated with the estimate can be used to construct a confidence interval. A *confidence interval* is a range about a given estimator that has a specified probability of containing the result of a complete enumeration of the sampling frame conducted under the same survey conditions. Associated with each interval is a percentage of confidence, which is interpreted as follows. If, for each possible sample, an estimate of a population parameter and its approximate standard error were obtained, then:

-
1. For approximately 90 percent of the possible samples, the interval from 1.645 standard errors below to 1.645 standard errors above the estimate would include the population parameter as obtained from a complete enumeration of the sampling frame conducted under the same survey conditions.
 2. For approximately 95 percent of the possible samples, the interval from 1.96 standard errors below to 1.96 standard errors above the estimate would include the population parameter as obtained from a complete enumeration of the sampling frame conducted under the same survey conditions.

To illustrate the computation of a confidence interval for an estimate of the number of trucks, assume that an estimate of trucks is 3,377.8 thousand and the coefficient of variation for this estimate is 2.9 percent, or 0.029. First obtain the standard error of the estimate by multiplying the number of trucks estimate by its coefficient of variation. For this example, multiply 3,377.8 thousand by 0.029. This yields a standard error of 97.9562 thousand. The upper and lower bounds of the 90-percent confidence interval are computed as 3,377.8 thousand plus or minus 1.645 times 97.9562 thousand. Consequently, the 90-percent confidence interval is 3,216.7 thousand to 3,538.9 thousand. If corresponding confidence intervals were constructed for all possible samples of the same size and design, approximately 9 out of 10 (90 percent) of these intervals would contain the result obtained from a complete enumeration of all trucks on the sampling frame.

Nonsampling Error

Nonsampling error encompasses all other factors that contribute to the total error of a sample survey estimate and may also occur in censuses. It is often helpful to think of nonsampling error as arising from deficiencies or mistakes at some point in the survey process. Nonsampling error can be attributed to many sources: (1) inability to obtain information about all trucks in the sample, (2) response errors, (3) differences in the interpretation of the questions, (4) mistakes in coding or keying the data obtained, and (5) other errors of collection, response, coverage, and processing. Although no direct measurement of the potential biases due to nonsampling error has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize its influence.

A potential source of bias in the estimates is nonresponse. Nonresponse is defined as the failure to obtain all the intended measurements or responses about all the trucks in the sample. Two types of nonresponse are often distinguished. *Unit nonresponse* is used to describe the failure to obtain any of the substantive measurements about a sampled truck. In most cases of unit nonresponse, the questionnaire was never returned to the Census Bureau after several attempts to elicit a response. For Illinois, approximately 80 percent of the questionnaires were returned with substantive data. *Item nonresponse* occurs either when a question is unanswered or the response to the question fails computer or analyst edits. The procedures used to account for unit and item nonresponse are discussed below.

Unit nonresponse is handled in the estimation procedure by *reweighting*. To apply this method of nonresponse adjustment, we make the assumption that the population of trucks can be divided into a finite number of mutually exclusive adjustment cells so that within each cell, all the population elements possess similar characteristics and share a similar probability of responding, if selected into the sample. The adjustment cells for the 2002 VIUS are identical to the sampling strata. A *nonresponse adjustment factor* is computed for each adjustment cell and is equal to the ratio of the number of truck registrations selected into the sample to the number of responses received within each cell. In this sense, reweighting allocates characteristics to the nonrespondents in proportion to the characteristics observed for the respondents within each adjustment cell. The amount of bias introduced by this nonresponse adjustment procedure depends on the extent to which the nonrespondents differ, characteristically, from the respondents in each adjustment cell.

For item nonresponse, a missing value is replaced by a predicted value obtained from an appropriate model for nonresponse. This procedure is called *imputation*. To impute annual miles and lifetime miles, we divide the sample into a finite number of mutually exclusive cells based on state of

registration, and related vehicle characteristics. For each cell, estimates of average annual miles and average lifetime miles are computed based on those trucks in the cell for which annual miles and lifetime miles have been reported. Missing values are then replaced with the appropriate average values. A slightly different imputation procedure is used to impute length and average weight (empty weight plus cargo weight). For these data items, we replace a missing value with data from a truck with similar characteristics for which length and average weight have been reported.

For all other data items, no imputation is performed. Instead, separate estimates are published in a “Not reported” category. For example, a respondent who did not indicate the type of business in which his/her truck was used would be included in the estimate for the “Not reported” category. Users of the estimates should exercise caution when allocating the estimate for the “Not reported” category to the estimates for the reported categories in the proportions observed for the reported categories. This is because the characteristics of the trucks for which we obtained information may differ significantly from those trucks for which we obtained no information.

Unpublished Estimates

Additional statistics not shown in the tables are obtainable by tabulating records on a CD-ROM containing the survey microdata. These additional estimates have not been included in this publication because of high sampling variability, poor response, or other factors that may make them potentially misleading. It should be noted that some unpublished estimates can be derived directly from this report by subtracting published estimates from their respective totals. However, the estimates obtained by such subtraction would be subject to the poor response rates or high sampling variability as previously described.

Individuals who use estimates in this report, or the CD-ROM microdata, to create estimates not published by the Census Bureau should cite the Census Bureau as the source of only the published estimates or the microdata used, and not as the source of the new estimates.

CONFIDENTIALITY AND DISCLOSURE

Title 13 of the United States Code authorizes the Census Bureau to conduct censuses and surveys. Section 9 of the same Title requires that any information collected from the public under the authority of Title 13 be maintained as confidential. Section 214 of Title 13 and Sections 3559 and 3571 of Title 18 of the United States Code provide for the imposition of penalties of up to five years in prison and up to \$250,000 in fines for wrongful disclosure of confidential census information. In accordance with Title 13, no estimates are published that would disclose the operations of an individual firm.

The Census Bureau’s internal Disclosure Review Board sets the confidentiality rules for all data releases. A checklist approach is used to ensure that all potential risks to the confidentiality of the data are considered and addressed.

A disclosure of data occurs when an individual can use published statistical information to identify either an individual or firm that has provided information under a pledge of confidentiality. Disclosure limitation is the process used to protect the confidentiality of the survey data provided by an individual or firm. Using disclosure limitation procedures, the Census Bureau modifies or removes the characteristics that put confidential information at risk for disclosure. Although it may appear that a table shows information about a specific individual or business, the Census Bureau has taken steps to disguise or suppress the original data while making sure the results are still useful. The techniques used by the Census Bureau to protect confidentiality in tabulations vary, depending on the type of data.

SYMBOLS

The following symbols are used in this publication:

- | | |
|---|---|
| N | Not available. |
| S | Estimate does not meet publication standards because of high sampling variability or poor response quality. |
| V | Represents an estimate of less than 50 vehicles, 50,000 miles, or 0.05 percent. |



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Table 1a. Trucks—Comparative Summary: 2002 and Earlier Years

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys, and the 1992 and 1987 Truck Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002	1997	1992	1987	Vehicular and operational characteristics	2002	1997	1992	1987
Total	100.0	100.0	100.0	100.0	MODEL YEAR				
BUSINESS¹					1 to 2 years old	17.2	15.7	15.4	19.1
Agriculture, forestry, fishing, or hunting	3.3	6.9	6.8	10.8	3 to 4 years old	21.1	19.3	16.9	16.2
Mining .....	.1	.1	.3	.7	Over 4 years old	61.7	65.0	67.6	64.7
Construction	6.0	7.1	7.6	10.0	VEHICLE ACQUISITION				
Manufacturing .....	.9	1.2	1.2	1.2	New	51.8	49.0	49.5	49.7
Wholesale and retail trade	4.0	5.9	6.4	6.8	Used	44.5	43.1	47.3	46.5
For-hire transportation or warehousing	4.1	4.1	5.4	6.1	Not reported ⁴	3.7	7.9	3.2	3.8
Utilities and all services	5.0	8.6	5.9	6.9	TRUCK TYPE				
Personal transportation	73.7	64.2	64.8	57.1	Single-unit trucks ⁵	93.2	93.4	93.2	92.2
Other, not reported, and not applicable	2.9	1.8	1.5	.3	2 axles	92.6	92.4	92.0	90.6
BODY TYPE					3 axles or more .....	.6	.9	1.2	1.6
Pickup, minivan, other light vans, and sport utility	91.1	87.4	85.8	81.5	Trailer/axles not specified	V	N	N	N
Flatbed, stake, platform, and low boy	1.3	2.5	3.4	5.4	Combinations	6.8	6.6	6.8	7.8
Van ²	3.8	4.9	4.4	5.0	3 axles	1.4	.6	.7	.5
Service, utility .....	.4	.4	.4	.3	4 axles	1.4	.9	1.2	1.6
Van, step, walk-in, or multistop .....	.8	.7	.8	1.3	5 axles or more	3.8	5.1	4.8	5.6
Dump	1.2	1.3	1.4	1.7	Trailer/axles not specified .....	.2	V	V	V
Tank for liquids, gases, or dry bulk .....	.6	.7	1.0	1.0	RANGE OF OPERATION				
Other and not applicable .....	.8	2.1	2.8	3.7	50 miles or less	72.6	72.9	72.1	72.3
VEHICLE SIZE					51 to 200 miles	9.5	14.6	13.2	14.6
Light	91.3	88.8	87.6	85.0	201 miles or more	4.9	7.2	8.4	8.9
Medium	2.3	2.5	3.0	3.0	Off-the-road, not reported, and not applicable	13.0	5.3	6.3	4.3
Light-heavy	1.0	1.2	2.0	2.7	FUEL TYPE				
Heavy-heavy	5.4	7.4	7.4	9.3	Gasoline	88.1	89.4	89.2	89.3
ANNUAL MILES					All other fuels	10.8	10.2	10.6	10.6
Less than 5,000 ³	14.3	16.3	22.2	24.9	Other, not reported, and not applicable	1.1	.5	.2	.1
5,000 to 9,999	21.7	21.0	22.4	25.8					
10,000 to 19,999	46.1	37.8	35.6	31.1					
20,000 to 29,999	10.9	14.7	10.4	8.6					
30,000 or more	7.1	10.2	9.4	9.5					

N Not available. S Estimate does not meet publication standards because of high sampling variability or poor response quality. V Represents an estimate of less than 50 vehicles, 50,000 miles, or 0.05 percent.

¹Comparability of estimates may vary across survey years due to changes in category definitions.

²Includes open top trailers and all van except step, walk-in, or multistop.

³Includes vehicles not in use.

⁴For survey years prior to 2002, this includes vehicles leased from someone else.

⁵Excludes truck-tractors not in use.

Note: The Introduction gives information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to this information on the Internet may be found at www.census.gov/svsd/www/02vehinv.html.

Table 1b. Trucks—Comparative Summary for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities: 2002 and 1997

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002	1997	Vehicular and operational characteristics	2002	1997
Total	100.0	100.0	MODEL YEAR		
BUSINESS¹			1 to 2 years old	8.7	15.2
Agriculture, forestry, fishing, or hunting	11.2	15.2	3 to 4 years old	18.1	16.3
Mining .....	.6	.3	Over 4 years old	73.2	68.5
Construction	13.0	16.1	VEHICLE ACQUISITION		
Manufacturing	6.1	4.6	New	56.3	49.3
Wholesale and retail trade	8.3	13.9	Used	36.7	36.7
For-hire transportation or warehousing	42.0	32.7	Not reported ⁴	6.9	14.0
Utilities and all services	11.6	12.3	TRUCK TYPE		
Personal transportation .....	.3	.8	Single-unit trucks ⁵	49.6	51.0
Other, not reported, and not applicable	6.8	4.2	2 axles	42.8	43.6
BODY TYPE			3 axles or more	6.7	7.4
Flatbed, stake, platform, and low boy	14.8	19.6	Trailer/axles not specified .....	.1	N
Van ²	42.8	38.6	Combinations	50.4	49.0
Service, utility	4.0	3.2	3 axles	2.9	1.9
Van, step, walk-in, or multistop	8.8	5.9	4 axles	6.9	6.1
Dump	13.1	10.2	5 axles or more	40.3	40.9
Tank for liquids, gases, or dry bulk	7.2	5.6	Trailer/axles not specified .....	.4	V
Other and not applicable	9.2	17.0	RANGE OF OPERATION		
VEHICLE SIZE			50 miles or less	50.2	46.9
Light	10.6	11.4	51 to 200 miles	15.8	20.0
Medium	17.1	19.5	201 miles or more	18.3	28.0
Light-heavy	11.6	9.9	Off-the-road, not reported, and not applicable	15.7	5.2
Heavy-heavy	60.7	59.2	FUEL TYPE		
ANNUAL MILES			Gasoline	23.0	28.2
Less than 5,000 ³	22.6	22.6	All other fuels	75.6	69.6
5,000 to 9,999	10.6	11.2	Other, not reported, and not applicable	1.4	2.2
10,000 to 19,999	13.4	15.8			
20,000 to 29,999	9.0	8.8			
30,000 or more	44.5	41.5			

N Not available. S Estimate does not meet publication standards because of high sampling variability or poor response quality. V Represents an estimate of less than 50 vehicles, 50,000 miles, or 0.05 percent.

¹Comparability of estimates may vary across survey years due to changes in category definitions.

²Includes open top trailers and all van except step, walk-in, or multistop.

³Includes vehicles not in use.

⁴For survey years prior to 2002, this includes vehicles leased from someone else.

⁵Excludes truck-tractors not in use.

Note: The Introduction gives information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to this information on the Internet may be found at www.census.gov/svsd/www/02vehinv.html.

Table 2a. Trucks, Truck Miles, and Average Annual Miles for All Trucks: 2002 and 1997

[Estimates are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
Total	3 277.2	2 674.6	22.5	48 603.4	43 424.6	11.9	14.8	16.2	-8.7
BUSINESS¹									
For-hire transportation or warehousing	135.8	110.1	23.4	9 887.3	8 663.1	14.1	72.8	78.7	-7.5
Vehicle leasing or rental	22.2	16.8	32.0	684.8	291.4	135.0	30.9	17.4	78.0
Agriculture, forestry, fishing, or hunting	106.7	184.3	-42.1	833.9	1 719.2	-51.5	7.8	9.3	-16.2
Mining	1.8	1.4	31.9	58.1	S	S	31.8	S	S
Utilities	22.1	28.8	-23.1	S	S	S	S	S	S
Construction	196.8	190.3	3.4	2 969.2	3 345.8	-11.3	15.1	17.6	-14.2
Manufacturing	30.7	32.7	-6.1	692.6	708.6	-2.3	22.5	21.7	4.1
Wholesale trade	45.0	66.3	-32.1	984.4	1 855.1	-46.9	21.9	28.0	-21.8
Retail trade	87.0	92.2	-5.7	1 207.0	1 704.4	-29.2	13.9	18.5	-24.9
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	19.1	N	N	236.9	N	N	12.4	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	4.3	N	N	123.2	N	N	28.4	N	N
Other services	109.5	N	N	1 734.6	N	N	15.8	N	N
Personal transportation	2 415.1	1 718.0	40.6	28 574.4	20 780.3	37.5	11.8	12.1	-2.2
Not reported	37.0	V	N	312.7	V	N	8.4	V	N
Not applicable ²	36.6	31.5	16.3	V	S	S	V	S	S
BODY TYPE									
Single-unit trucks	3 139.8	2 518.5	24.7	37 859.6	31 975.7	18.4	12.1	12.7	-5.0
Pickup	1 026.2	1 039.6	-1.3	11 834.6	11 756.9	.7	11.5	11.3	2.0
Minivan	823.2	524.4	57.0	10 207.7	8 350.1	22.2	12.4	15.9	-22.1
Other light vans	253.1	253.0	V	3 177.6	2 977.1	6.7	12.6	11.8	6.7
Sport utility	882.1	521.0	69.3	10 749.3	6 955.2	54.6	12.2	13.3	-8.7
Armored	S	N	N	S	N	N	S	N	N
Beverage	2.2	1.7	28.4	46.6	23.7	96.8	20.9	13.6	53.3
Concrete mixer	3.6	4.1	-12.4	33.4	50.4	-33.6	9.4	12.4	-24.2
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	S	1.2	S	S	S	S	S	S	S
Curtainside	V	N	N	V	N	N	V	N	N
Dump	26.3	22.2	18.5	174.5	187.7	-7.0	6.6	8.4	-21.5
Flatbed, stake, or platform	29.1	42.4	-31.3	225.0	312.1	-27.9	7.7	7.4	4.9
Low boy	V	S	S	V	S	S	V	S	S
Pole, logging, pulpwood, or pipe	S	S	S	S	S	S	S	S	S
Service, utility	11.8	10.6	11.4	118.2	72.1	64.1	10.0	6.8	47.3
Service, other	4.7	6.4	-25.7	78.9	84.3	-6.3	16.7	13.2	26.0
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	2.6	S	S	14.0	S	S	5.4	S	S
Tank, liquids or gases	6.1	6.3	-3.3	66.5	54.4	22.2	10.9	8.6	26.4
Tow/Wrecker	4.2	3.7	13.7	59.7	71.2	-16.1	14.3	19.4	-26.2
Trash, garbage, or recycling	2.9	5.3	-45.5	62.6	113.2	-44.7	21.7	21.4	1.6
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	19.1	22.3	-14.4	312.6	408.9	-23.5	16.3	18.3	-10.7
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	4.2	4.7	-11.6	107.0	104.2	2.7	25.6	22.0	16.1
Van, open top	7.4	25.8	-71.4	17.9	88.6	-79.8	2.4	3.4	-29.4
Van, step, walk-in, or multistop	25.8	19.8	30.3	522.7	312.1	67.5	20.3	15.8	28.6
Van, other	2.4	N	N	19.8	N	N	8.1	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	137.4	156.1	-12.0	10 743.8	11 448.9	-6.2	78.2	73.3	6.6
Automobile carrier	1.8	1.2	56.6	95.9	81.9	17.1	52.0	69.5	-25.2
Beverage	3.0	2.6	16.5	50.6	78.0	-35.1	17.0	30.5	-44.3
Curtainside	S	N	N	S	N	N	S	N	N
Dump	12.0	12.0	.1	489.0	438.8	11.4	40.9	36.7	11.3
Flatbed, stake, or platform	12.2	18.2	-33.0	802.5	1 211.7	-33.8	65.9	66.6	-1.1
Livestock	S	S	S	S	S	S	S	S	S
Low boy	2.1	4.2	-50.9	137.4	199.9	-31.3	66.4	47.5	39.9
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	2.7	3.4	-21.0	121.0	94.8	27.6	45.5	28.1	61.6
Pole, logging, pulpwood, or pipe .....	.7	S	S	84.1	S	S	113.7	S	S
Tank, dry bulk	3.0	3.4	-12.2	252.8	248.6	1.7	85.5	73.9	15.8
Tank, liquids or gases	9.5	8.4	12.2	825.2	761.0	8.4	87.2	90.2	-3.3
Van, basic enclosed	73.8	77.1	-4.3	6 373.2	6 309.4	1.0	86.4	81.8	5.6
Van, drop-frame	4.2	6.9	-39.1	425.3	489.8	-13.2	101.2	71.0	42.5
Van, insulated nonrefrigerated	1.3	5.1	-73.7	109.3	416.2	-73.7	82.2	82.4	-3
Van, insulated refrigerated	9.4	12.1	-22.7	884.8	1 028.8	-14.0	94.4	84.9	11.2
Other	V	N	N	V	N	N	V	N	N
Not applicable ³	S	N	N	V	N	N	S	N	N
ANNUAL MILES									
Less than 5,000	432.1	408.7	5.7	851.9	901.9	-5.6	2.0	2.2	-10.7
5,000 to 9,999	709.6	562.7	26.1	5 281.9	3 962.6	33.3	7.4	7.0	5.7
10,000 to 19,999	1 511.7	1 010.8	49.6	19 745.5	13 156.1	50.1	13.1	13.0	.4
20,000 to 29,999	356.1	394.0	-9.6	7 782.2	8 847.9	-12.0	21.9	22.5	-2.7
30,000 to 49,999	119.0	144.8	-17.8	4 139.6	5 072.0	-18.4	34.8	35.0	-.7
50,000 to 74,999	41.8	49.1	-15.0	2 420.6	2 872.7	-15.7	57.9	58.5	-.9
75,000 or more	70.4	77.6	-9.3	8 381.7	8 611.4	-2.7	119.1	111.0	7.3
Not applicable ²	36.6	26.9	36.2	V	V	N	V	V	N

See footnotes at end of table.

Table 2a. Trucks, Truck Miles, and Average Annual Miles for All Trucks: 2002 and 1997—Con.

[Estimates are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	26.3	114.2	-76.9	1 042.2	1 101.5	-5.4	39.6	9.6	310.2
50 miles or less	2 378.3	1 949.7	22.0	28 330.2	23 762.9	19.2	11.9	12.2	-2.3
51 to 100 miles	250.2	308.0	-18.8	4 827.3	6 016.5	-19.8	19.3	19.5	-1.2
101 to 200 miles	62.2	83.5	-25.6	1 631.3	2 099.0	-22.3	26.2	25.1	4.4
201 to 500 miles	75.7	80.2	-5.5	2 923.5	3 724.4	-21.5	38.6	46.5	-16.9
501 miles or more	85.8	112.2	-23.6	4 385.9	6 720.4	-34.7	51.1	59.9	-14.6
Not reported	362.1	26.9	1 248.4	5 462.8	V	N	15.1	V	N
Not applicable ²	36.6	N	N	V	N	N	V	N	N
PRIMARY JURISDICTION									
Operated in Canada	S	N	N	S	N	N	S	N	N
Operated in Mexico	V	N	N	V	N	N	V	N	N
Operated within the home base state	2 816.0	N	N	36 938.9	N	N	13.1	N	N
Operated in states other than the home base state	128.6	N	N	7 754.3	N	N	60.3	N	N
Not reported	289.4	N	N	3 848.4	N	N	13.3	N	N
Not applicable ²	36.6	N	N	V	N	N	V	N	N
MONTHS OPERATED									
12	2 512.7	N	N	39 879.0	N	N	15.9	N	N
7 to 11	325.1	N	N	5 349.7	N	N	16.5	N	N
2 to 6	334.6	N	N	3 090.1	N	N	9.2	N	N
1 or less	68.3	N	N	284.6	N	N	4.2	N	N
Vehicle not used	36.6	N	N	V	N	N	V	N	N
VEHICLE SIZE									
Light	2 991.0	2 376.2	25.9	35 891.1	30 445.0	17.9	12.0	12.8	-6.3
Medium	74.9	65.9	13.6	1 126.0	673.9	67.1	15.0	10.2	47.1
Light-heavy	33.9	33.3	1.7	394.8	293.4	34.6	11.7	8.8	32.4
Heavy-heavy	177.5	199.2	-10.9	11 191.4	12 012.4	-6.8	63.1	60.3	4.5
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2 417.1	2 154.1	12.2	28 627.4	27 552.5	3.9	11.8	12.8	-7.4
6,001 to 8,500	511.5	N	N	6 793.9	N	N	13.3	N	N
8,501 to 10,000	62.4	N	N	469.9	N	N	7.5	N	N
10,001 to 14,000	36.8	35.1	4.9	452.4	382.7	18.2	12.3	10.9	12.7
14,001 to 16,000	23.5	18.5	27.2	S	149.2	S	S	8.1	S
16,001 to 19,500	14.6	12.3	18.1	S	142.0	S	S	11.5	S
19,501 to 26,000	33.9	33.3	1.7	394.8	293.4	34.6	11.7	8.8	32.4
26,001 to 33,000	18.5	24.2	-23.6	199.2	354.2	-43.8	10.8	14.6	-26.3
33,001 to 40,000	11.0	13.3	-17.3	252.8	367.0	-31.1	23.0	27.6	-16.7
40,001 to 50,000	16.9	37.8	-55.3	654.4	1 872.7	-65.1	38.8	49.6	-21.9
50,001 to 60,000	16.8	18.6	-9.3	582.8	1 061.0	-45.1	34.6	57.1	-39.4
60,001 to 80,000	111.7	104.0	7.4	9 185.7	8 253.1	11.3	82.2	79.3	3.6
80,001 to 100,000 .....	.9	1.3	-34.3	65.1	104.4	-37.6	73.5	77.5	-5.1
100,001 to 130,000	1.7	V	N	251.3	V	N	148.6	V	N
130,001 or more	V	V	N	V	V	N	V	V	N
TOTAL LENGTH (FEET)									
Less than 20.0	2 836.5	2 387.2	18.8	34 143.5	30 456.9	12.1	12.0	12.8	-5.7
20.0 to 27.9	218.9	91.5	139.2	2 537.3	1 046.9	142.4	11.6	11.4	1.3
28.0 to 35.9	50.4	33.0	52.8	743.4	400.7	85.5	14.8	12.2	21.4
36.0 to 40.9	10.1	8.9	13.4	240.9	141.5	70.2	23.8	15.9	50.1
41.0 to 44.9	4.2	6.3	-32.7	74.4	188.2	-60.5	17.6	30.0	-41.2
45.0 to 49.9	22.6	6.9	226.7	307.5	199.4	54.3	13.6	28.8	-52.8
50.0 to 54.9	18.2	4.7	283.5	523.5	193.6	170.4	28.8	40.9	-29.5
55.0 to 59.9	21.5	19.9	7.8	1 320.8	1 254.8	5.3	61.6	63.1	-2.4
60.0 to 64.9	21.9	37.4	-41.4	1 511.8	2 903.0	-47.9	69.0	77.7	-11.2
65.0 to 69.9	29.7	35.3	-16.1	2 539.8	2 724.9	-6.8	85.6	77.1	11.1
70.0 to 74.9	35.2	29.6	18.8	3 705.2	2 693.5	37.6	105.3	90.9	15.8
75.0 to 79.9	7.1	N	N	762.4	N	N	107.5	N	N
80.0 or more	1.0	N	N	192.9	N	N	202.4	N	N
MILES PER GALLON									
Less than 5	18.7	22.1	-15.7	524.8	499.8	5.0	28.1	22.6	24.5
5 to 6.9	122.9	143.5	-14.4	8 795.4	8 656.4	1.6	71.6	60.3	18.7
7 to 8.9	43.5	98.0	-55.6	921.6	2 514.6	-63.3	21.2	25.7	-17.4
9 to 10.9	134.3	209.6	-35.9	2 059.9	2 238.5	-8.0	15.3	10.7	43.6
11 to 12.9	191.4	309.3	-38.1	2 385.0	3 272.4	-27.1	12.5	10.6	17.8
13 to 14.9	233.3	351.0	-33.5	2 704.3	4 200.9	-35.6	11.6	12.0	-3.1
15 or more	1 991.7	1 502.0	32.6	24 818.6	21 034.2	18.0	12.5	14.0	-11.0
15 to 20.9	1 571.5	1 241.7	26.6	18 761.8	17 396.5	7.8	11.9	14.0	-14.8
21 to 24.9	307.8	222.3	38.5	4 326.6	3 205.7	35.0	14.1	14.4	-2.5
25 or more	112.5	38.1	195.4	1 730.1	432.0	300.5	15.4	11.3	35.6
Not reported	504.9	39.1	1 190.8	6 393.8	1 007.7	534.5	12.7	25.8	-50.8
Not applicable ²	36.6	N	N	V	N	N	V	N	N

See footnotes at end of table.

Table 2a. Trucks, Truck Miles, and Average Annual Miles for All Trucks: 2002 and 1997—Con.

[Estimates are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	1.1	N	N	87.2	N	N	79.3	N	N
2002	194.8	N	N	3 241.1	N	N	16.6	N	N
2001	368.8	N	N	6 038.8	N	N	16.4	N	N
2000	329.1	N	N	7 069.6	N	N	21.5	N	N
1999	362.0	N	N	6 159.8	N	N	17.0	N	N
1998	286.8	S	S	4 232.5	S	S	14.8	S	S
1997	223.1	196.1	13.8	4 255.8	4 533.3	-6.1	19.1	23.1	-17.5
1996	177.4	206.4	-14.1	3 140.4	4 155.3	-24.4	17.7	20.1	-12.0
1995	238.6	300.5	-20.6	4 016.9	6 450.2	-37.7	16.8	21.5	-21.6
1994	179.3	214.8	-16.5	1 975.6	4 357.4	-54.7	11.0	20.3	-45.7
1993	163.3	185.5	-12.0	1 725.4	3 412.9	-49.4	10.6	18.4	-42.6
Pre-1993	753.0	1 553.0	-51.5	6 660.3	19 884.2	-66.5	8.8	12.8	-30.9
VEHICLE ACQUISITION									
New	1 696.3	1 310.7	29.4	28 187.8	23 019.9	22.4	16.6	17.6	-5.4
Used	1 459.1	1 153.0	26.5	18 054.5	14 431.0	25.1	12.4	12.5	-1.1
Not reported	121.8	210.8	-42.2	2 361.1	5 973.7	-60.5	19.4	28.3	-31.6
LEASE CHARACTERISTICS									
Leased	204.8	N	N	5 639.0	N	N	27.5	N	N
Lessee	163.6	N	N	4 552.3	N	N	27.8	N	N
Vehicle only	22.2	N	N	1 999.6	N	N	89.9	N	N
Vehicle with driver	5.2	N	N	473.1	N	N	91.5	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ⁴	136.2	N	N	2 079.5	N	N	15.3	N	N
Lessor	27.6	N	N	885.2	N	N	32.1	N	N
Vehicle only	11.0	N	N	400.5	N	N	36.4	N	N
Vehicle with driver	3.7	N	N	273.8	N	N	74.1	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁴	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	1 669.5	N	N	24 462.2	N	N	14.7	N	N
Not reported	1 402.9	N	N	18 502.2	N	N	13.2	N	N
Length of leasing agreement:									
Leased	204.8	N	N	5 639.0	N	N	27.5	N	N
1 to 11 months	4.8	N	N	325.4	N	N	68.1	N	N
12 months or more	37.2	N	N	2 806.2	N	N	75.4	N	N
Not reported	1.0	N	N	82.9	N	N	80.1	N	N
Not applicable ⁴	161.7	N	N	2 424.4	N	N	15.0	N	N
Provisions of lease ⁵ :									
Financing only	23.8	N	N	1 843.1	N	N	77.4	N	N
Full maintenance	11.9	N	N	646.1	N	N	54.3	N	N
Payment of taxes	13.8	N	N	824.4	N	N	59.6	N	N
Obtaining licenses and permits	15.2	N	N	875.5	N	N	57.5	N	N
Recordkeeping	7.2	N	N	477.2	N	N	65.9	N	N
Fuel contract	4.1	N	N	319.8	N	N	77.6	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	654.2	N	N	8 814.0	N	N	13.5	N	N
Motor carrier	109.1	N	N	7 849.6	N	N	72.0	N	N
Owner operator	39.4	N	N	2 669.6	N	N	67.8	N	N
Rental	22.9	N	N	695.8	N	N	30.4	N	N
Personal transportation	2 415.1	N	N	28 574.4	N	N	11.8	N	N
Not applicable ²	36.6	N	N	V	N	N	V	N	N
For-hire characteristics:									
Type of carrier:									
Contract	56.6	N	N	4 211.1	N	N	74.4	N	N
Common	67.6	N	N	5 350.3	N	N	79.2	N	N
Not reported	11.3	N	N	782.8	N	N	69.5	N	N
Not applicable ⁶	3 141.8	N	N	38 259.3	N	N	12.2	N	N
Type of service:									
Truckload	75.5	42.9	76.1	6 185.4	3 380.4	83.0	81.9	78.9	3.9
Less-than-truckload	49.0	49.7	-1.4	3 360.5	3 759.1	-10.6	68.6	75.7	-9.4
Not reported	11.0	N	N	798.3	N	N	72.7	N	N
Not applicable ⁶	3 141.8	N	N	38 259.3	N	N	12.2	N	N
Source of hauls:									
Shippers or receivers	101.6	N	N	7 910.2	N	N	77.9	N	N
Brokers	6.7	N	N	525.2	N	N	78.2	N	N
Centralized markets or exchanges	1.3	N	N	97.7	N	N	74.2	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	25.8	N	N	1 811.0	N	N	70.1	N	N
Not applicable ⁶	3 141.8	N	N	38 259.3	N	N	12.2	N	N
HAZARDOUS MATERIALS CARRIED⁷									
Carrying hazardous materials	31.0	44.7	-30.5	2 769.1	3 913.9	-29.2	89.2	87.6	1.8
Not carrying hazardous materials	219.1	255.3	-14.2	8 355.2	8 105.9	3.1	38.1	31.7	20.1
Not reported	27.4	45.7	-39.9	1 111.6	1 458.8	-23.8	40.5	31.9	26.8
Not applicable ⁸	2 999.6	N	N	36 367.5	N	N	12.1	N	N
EQUIPMENT TYPE^{5 9}									
Aerial work platform/bucket	18.5	N	N	S	N	N	S	N	N
Air bag(s) (safety device only)	2 096.6	794.1	164.0	28 516.0	14 025.6	103.3	13.6	17.7	-23.0
Air compressor (except air brakes)	30.0	N	N	2 224.4	N	N	74.2	N	N
Air-conditioning	2 840.8	2 048.0	38.7	43 720.8	35 849.3	22.0	15.4	17.5	-12.1
Air springs	65.3	N	N	5 454.3	N	N	83.6	N	N

See footnotes at end of table.

Table 2a. Trucks, Truck Miles, and Average Annual Miles for All Trucks: 2002 and 1997—Con.

[Estimates are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE^{5 9}—Con.									
Antilock brake system	2 178.7	1 204.3	80.9	35 088.3	20 193.9	73.8	16.1	16.8	-4.0
Collision warning system	5.3	N	N	314.2	N	N	59.0	N	N
Computerized drive train control unit	481.0	N	N	7 048.3	N	N	14.7	N	N
Crane	3.1	N	N	38.2	N	N	12.3	N	N
Electronic vehicle identification device	15.9	27.5	-42.1	1 622.9	2 242.3	-27.6	101.9	81.6	24.9
Engine retarder/brake	52.2	60.4	-13.5	4 705.8	4 684.1	.5	90.2	77.6	16.2
Front-wheel drive	1 090.5	582.0	87.4	13 331.6	8 444.6	57.9	12.2	14.5	-15.7
Hoist	30.9	N	N	176.6	N	N	5.7	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	23.4	N	N	2 010.3	N	N	85.8	N	N
Internet access	1.7	N	N	170.9	N	N	101.0	N	N
Lift gate	9.4	N	N	148.9	N	N	15.9	N	N
Mounting bar for snowplow	28.0	N	N	S	N	N	S	N	N
Navigational system	1.7	6.2	-72.9	116.6	505.5	-76.9	68.9	80.9	-14.9
Power take-off	72.7	N	N	2 171.3	N	N	29.8	N	N
Radial tires	2 182.8	2 106.8	3.6	34 265.4	35 982.6	-4.8	15.7	17.1	-8.1
Reflective material in addition to those required by law	52.1	96.3	-45.9	2 710.0	5 422.8	-50.0	52.0	56.3	-7.6
Road speed governor	110.9	115.7	-4.2	8 051.1	7 723.2	4.2	72.6	66.7	8.8
Toolbox	258.6	N	N	4 752.5	N	N	18.4	N	N
Trip recorder or on-board computer with communication capabilities	200.2	N	N	4 747.8	N	N	23.7	N	N
Trip recorder or on-board computer without communication capabilities	615.8	N	N	9 757.7	N	N	15.8	N	N
Vehicle control aids for handicapped drivers	V	S	S	V	S	S	V	S	S
Wheelchair lift	S	S	S	S	S	S	S	S	S
Winch	18.1	N	N	247.3	N	N	13.6	N	N
Transmission type:									
Automatic	2 613.2	N	N	32 077.0	N	N	12.3	N	N
Manual	583.0	N	N	14 402.1	N	N	24.7	N	N
Semiautomated manual	2.1	N	N	160.7	N	N	78.2	N	N
Automated manual	S	N	N	265.1	N	N	S	N	N
Not reported	71.0	N	N	1 698.5	N	N	23.9	N	N
Braking system:									
Hydraulic (standard)	59.4	59.8	-6	665.9	584.1	14.0	11.2	9.8	14.7
Hydraulic with power assist	46.9	66.4	-29.4	658.8	826.3	-20.3	14.1	12.5	12.9
Air	157.6	177.6	-11.3	10 000.3	10 879.8	-8.1	63.5	61.3	3.6
Other	V	S	S	V	S	S	V	S	S
Not reported	28.7	N	N	1 309.2	N	N	45.7	N	N
Not applicable ¹⁰	2 984.6	N	N	35 969.3	N	N	12.1	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	2 887.1	2 390.5	20.8	34 800.1	30 232.4	15.1	12.1	12.6	-4.7
Diesel	256.7	256.5	.1	12 587.4	12 947.6	-2.8	49.0	50.5	-2.9
Natural gas	S	N	N	S	N	N	S	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	V	N	N	V	N	N	V	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	89.7	N	N	1 153.9	N	N	12.9	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ²	36.6	N	N	V	N	N	V	N	N
Cylinders¹¹:									
4 cylinders	249.1	264.1	-5.7	3 188.0	3 099.8	2.8	12.8	11.7	9.1
6 cylinders	1 972.3	1 380.1	42.9	32 802.2	28 627.5	14.6	16.6	20.7	-19.8
8 cylinders	996.2	968.9	2.8	12 004.7	11 162.9	7.5	12.1	11.5	4.6
Other	59.6	61.5	-3.1	608.5	534.3	13.9	10.2	8.7	17.5
Cubic inch displacement¹¹:									
Gasoline fuel	2 887.1	2 390.5	20.8	34 800.1	30 232.4	15.1	12.1	12.6	-4.7
Less than 200	624.3	581.3	7.4	7 700.1	7 963.8	-3.3	12.3	13.7	-10.0
200 to 299	1 354.3	760.1	78.2	16 943.4	10 911.4	55.3	12.5	14.4	-12.8
300 to 349	440.4	413.6	6.5	5 029.1	4 326.2	16.2	11.4	10.5	9.2
350 to 399	383.8	503.6	-23.8	4 404.5	6 076.7	-27.5	11.5	12.1	-4.9
400 or more	42.2	62.9	-32.9	442.8	416.3	6.4	10.5	6.6	58.5
Not available	42.2	69.0	-38.9	S	S	S	S	S	S
Diesel fuel	256.7	256.5	.1	12 587.4	12 947.6	-2.8	49.0	50.5	-2.9
Less than 400	29.9	28.5	4.8	420.1	449.8	-6.6	14.1	15.8	-10.9
400 to 599	82.7	58.1	42.3	1 421.3	1 098.4	29.4	17.2	18.9	-9.0
600 to 799	86.9	81.1	7.2	6 200.0	5 617.8	10.4	71.3	69.3	3.0
800 or more	33.9	60.1	-43.7	2 596.7	4 378.2	-40.7	76.7	72.8	5.3
Not available	23.4	28.6	-18.4	1 949.4	1 403.4	38.9	83.5	49.0	70.3
Other fuel	96.7	15.3	530.3	1 215.9	S	S	12.6	S	S
Less than 400	96.2	S	S	1 212.1	S	S	12.6	S	S
400 or more	S	S	S	S	S	S	S	S	S
Not available	S	S	S	S	S	S	S	S	S
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ²	36.6	N	N	V	N	N	V	N	N
REFUELING LOCATION									
Gas station	2 871.2	N	N	34 853.6	N	N	12.1	N	N
Truck stop	74.5	N	N	6 181.2	N	N	83.0	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	198.7	N	N	5 867.8	N	N	29.5	N	N
Other company's/contractor's facility not open to the public	S	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	79.5	N	N	929.5	N	N	11.7	N	N
Not applicable ²	36.6	N	N	V	N	N	V	N	N

See footnotes at end of table.

Table 2a. Trucks, Truck Miles, and Average Annual Miles for All Trucks: 2002 and 1997—Con.

[Estimates are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁵									
General maintenance performed by:									
None performed	52.4	30.7	70.3	S	266.8	S	S	8.7	S
Company-owned maintenance facility	331.5	262.1	26.5	10 883.5	10 113.9	7.6	32.8	38.6	-14.9
General repair business or private mechanic	1 399.6	913.5	53.2	20 385.3	13 188.4	54.6	14.6	14.4	.9
Dealership service department	1 066.1	782.5	36.2	15 505.2	11 933.6	29.9	14.5	15.3	-4.6
Leasing company	3.6	27.2	-86.8	306.4	764.7	-59.9	85.4	28.1	203.9
Individual not employed/paid by any maintenance type facility									
Other	1 059.1	1 134.6	-6.7	13 752.5	14 259.9	-3.6	13.0	12.6	3.3
Not reported	V	S	S	V	289.0	N	V	S	S
Not applicable ²	100.2	83.0	20.7	1 658.8	1 649.6	.6	16.6	19.9	-16.7
Extensive repairs performed by:									
None performed	2 641.5	156.0	1 593.0	38 171.3	1 865.8	1 945.9	14.5	12.0	20.8
Company-owned maintenance facility	34.4	115.1	-70.1	1 303.7	5 118.7	-74.5	37.9	44.5	-14.9
General repair business or private mechanic	219.0	472.5	-53.7	3 560.8	7 149.6	-50.2	16.3	15.1	7.5
Dealership service department	132.9	460.7	-71.2	3 303.0	9 048.3	-63.5	24.9	19.6	26.6
Leasing company	S	12.5	S	S	282.7	S	S	22.6	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	2.6	54.0	-95.1	198.1	1 900.3	-89.6	74.8	35.2	112.6
Other	164.3	191.9	-14.4	1 688.1	2 476.5	-31.8	10.3	12.9	-20.4
Not reported	V	S	S	V	S	S	V	S	S
Not applicable ²	36.6	1 331.2	N	V	18 332.3	N	V	13.8	S
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	3 056.1	2 497.2	22.4	36 861.9	31 696.6	16.3	12.1	12.7	-5.0
3 axles	3 035.8	2 472.3	22.8	36 595.4	31 319.5	16.8	12.1	12.7	-4.8
4 axles	19.4	22.6	-14.5	262.5	349.6	-24.9	13.6	15.4	-12.2
5 axles or more .....	.6	2.2	-73.0	S	27.5	S	S	12.5	S
Not reported	S	N	N	V	N	N	S	N	N
Combinations									
Single-unit trucks with trailer	221.1	177.4	24.6	11 741.5	11 728.0	.1	53.1	66.1	-19.7
3 axles	84.4	21.3	296.5	997.6	S	S	11.8	S	S
4 axles	40.1	S	S	467.8	S	S	11.7	S	S
5 axles or more	30.8	10.4	196.1	323.8	115.3	180.8	10.5	11.1	-5.1
Not reported	S	S	S	S	S	S	S	S	S
Truck-tractors with single trailer	120.4	130.5	-7.8	8 681.9	8 963.7	-3.1	72.1	68.7	5.0
3 axles	5.7	4.5	25.5	132.6	216.9	-38.9	23.2	47.7	-51.3
4 axles	14.1	14.4	-2.1	669.7	614.9	8.9	47.6	42.8	11.2
5 axles or more	100.2	111.6	-10.3	7 876.6	8 131.9	-3.1	78.6	72.9	7.9
Not reported	S	N	N	S	N	N	S	N	N
Truck-tractors with double trailers	15.4	25.2	-39.1	1 869.0	2 461.8	-24.1	121.5	97.5	24.6
5 axles	12.0	16.7	-28.1	1 434.5	1 734.8	-17.3	119.7	104.1	14.9
6 axles	2.7	7.1	-62.4	351.4	615.4	-42.9	132.1	87.1	51.8
7 axles	S	1.3	S	S	99.4	S	S	73.8	S
8 axles or more .....	.6	S	S	S	S	S	S	S	S
Not reported	V	N	N	V	N	N	V	N	N
Truck-tractors with triple trailers	1.0	S	S	192.9	S	S	202.4	S	S
7 axles	1.0	V	N	192.9	V	N	202.4	V	N
8 axles	V	S	S	V	S	S	V	S	S
9 axles	V	V	S	V	V	S	V	V	S
10 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	N	N	V	N	N
Driving axles:									
1	2 060.0	1 809.1	13.9	26 692.8	24 894.8	7.2	13.0	13.8	-5.8
2	1 215.3	862.6	40.9	21 896.1	18 421.2	18.9	18.0	21.4	-15.6
3 or more	1.3	2.9	-53.5	12.1	108.6	-88.9	9.1	37.9	-76.1
Not reported .....	.6	V	N	S	V	S	S	V	S
Total liftable axles and locations ¹² :									
None	285.6	124.3	129.7	12 403.6	5 339.6	132.3	43.4	43.0	1.1
1	5.8	4.6	24.8	215.1	85.5	151.6	37.1	18.4	101.7
Forward of the drive axle	1.9	N	N	150.7	N	N	79.0	N	N
Below the chassis	1.7	N	N	S	N	N	S	N	N
Beyond the chassis	1.5	N	N	12.1	N	N	8.1	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	V	S	S	V	S	S	V	S	S
Forward of the drive axle	V	N	N	V	N	N	V	N	N
Below the chassis	V	N	N	V	N	N	V	N	N
Beyond the chassis	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ¹⁰	2 984.6	N	N	35 969.3	N	N	12.1	N	N
Total liftable axles and number of braking axles:									
None	285.6	124.3	129.7	12 403.6	5 339.6	132.3	43.4	43.0	1.1
1	5.8	4.6	24.8	215.1	85.5	151.6	37.1	18.4	101.7
0 braking	1.8	N	N	63.7	N	N	34.8	N	N
1 braking	3.6	N	N	144.2	N	N	40.0	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	V	S	S	V	S	S	V	S	S
0 braking	V	N	N	V	N	N	V	N	N
1 braking	V	N	N	V	N	N	V	N	N
2 or more braking	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ¹⁰	2 984.6	N	N	35 969.3	N	N	12.1	N	N

See footnotes at end of table.

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[Estimates are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
CAB TYPE									
Conventional cab	255.0	252.1	1.2	11 181.6	10 266.0	8.9	43.8	40.7	7.7
With sleeper	51.6	N	N	5 073.1	N	N	98.4	N	N
Without sleeper	189.1	N	N	5 029.4	N	N	26.6	N	N
Not reported	14.4	N	N	1 079.2	N	N	75.0	N	N
Cab over engine	37.0	38.2	-2.9	1 447.5	1 914.9	-24.4	39.1	50.2	-22.1
With sleeper	7.7	N	N	770.7	N	N	100.2	N	N
Without sleeper	28.8	N	N	638.7	N	N	22.2	N	N
Not reported .....	.6	N	N	S	N	N	S	N	N
Cab forward of engine	S	8.2	S	S	105.2	S	S	12.8	S
Cab beside engine	V	1.6	N	V	S	S	V	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹⁰	2 984.6	N	N	35 969.3	N	N	12.1	N	N

N Not available. S Estimate does not meet publication standards because of high sampling variability or poor response quality. V Represents an estimate of less than 50 vehicles, 50,000 miles, or 0.05 percent.

¹Comparability of estimates may vary across survey years due to changes in category definitions.

²Vehicles not in use. When the respondent had partial-year ownership of the vehicle, annual miles were adjusted to reflect miles traveled when not owned by the respondent.

³Truck-tractors not in use.

⁴Lessees or lessors of pickups, minivans, other light vans, and sport utilities.

⁵Detail lines do not add to total because items were not applicable or multiple responses were possible.

⁶Includes pickups, minivans, other light vans, and sport utilities; all other vehicles that are private, rental, or used for personal transportation; and vehicles not in use.

⁷Distributed miles data are available in Table 8.

⁸Includes pickups, minivans, other light vans, and sport utilities; all other vehicles that are rental or used for personal transportation; and vehicles not in use.

⁹Pickups, minivans, other light vans, and sport utilities, in the Equipment Type section, were only required to report for aerial work platform/bucket, air bag(s), air-conditioning, antilock brake system, computerized drive train control unit, front-wheel drive, mounting bar for snowplow, radial tires, toolbox, trip recorder, vehicle control aids for handicapped drivers, wheelchair lift, and winch.

¹⁰Pickups, minivans, other light vans, and sport utilities.

¹¹Data were derived from administrative records.

¹²Detail lines do not add to the subtotal line because items were not applicable or multiple responses were possible. When 2 or 3 liftable axles were indicated, respondents properly reported multiple responses, therefore detail lines will be significantly greater than the corresponding subtotal line.

Note: Use caution when assessing the true increase or decrease in any particular data line. Large changes in the "not reported" or "not applicable" estimates should be taken into account.

Note: Table 2b provides estimated measures of sampling variability. The Introduction gives information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to this information on the Internet may be found at www.census.gov/svsd/www/02vehinv.html.

Table 2b. Trucks, Truck Miles, and Average Annual Miles for All Trucks—Measures of Sampling Variability: 2002 and 1997

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Columns A, B, D, E, G, H show estimated coefficients of variation. Columns C, F, and I show estimated standard errors]

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
Total .....	.7	.7	1.2	2.3	2.2	3.6	2.3	2.2	2.9
BUSINESS									
For-hire transportation or warehousing	8.5	2.9	11.1	3.8	3.3	5.7	6.7	2.5	6.6
Vehicle leasing or rental	41.7	37.8	74.3	33.2	37.2	117.2	13.8	14.5	35.6
Agriculture, forestry, fishing, or hunting	19.7	12.2	13.4	25.8	17.4	15.1	15.7	10.8	16.0
Mining	30.5	43.5	70.1	40.7	S	S	31.2	S	S
Utilities	40.7	30.1	39.0	S	S	S	S	S	S
Construction	15.8	12.4	20.8	17.9	13.4	19.8	7.9	6.2	8.6
Manufacturing	36.1	26.4	42.0	40.5	19.3	43.8	27.6	16.9	33.7
Wholesale trade	31.6	19.4	25.2	35.0	15.3	20.3	19.4	10.2	17.1
Retail trade	25.0	19.0	29.6	25.7	18.2	22.3	13.5	9.5	12.4
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	32.9	N	N	18.7	N	N	28.1	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	20.9	N	N	30.3	N	N	22.6	N	N
Other services	23.1	N	N	29.5	N	N	18.3	N	N
Personal transportation	2.4	2.7	5.0	3.9	4.4	8.0	3.0	3.5	4.5
Not reported	36.5	N	N	30.3	N	N	25.3	N	N
Not applicable ¹	38.7	33.1	59.1	N	S	S	N	S	S
BODY TYPE									
Single-unit trucks .....	.7	.7	1.2	2.9	2.9	4.9	2.8	2.8	3.8
Pickup	1.6	1.7	2.3	6.2	5.1	8.1	6.0	4.9	7.9
Minivan	6.9	7.1	15.5	8.4	9.2	15.3	4.9	5.9	6.0
Other light vans	15.0	11.9	19.1	18.2	15.2	25.3	10.3	9.5	14.9
Sport utility	6.4	7.1	16.3	8.0	9.1	18.6	4.7	5.6	6.7
Armored	S	N	N	S	N	N	S	N	N
Beverage	30.1	40.2	64.4	34.2	41.4	105.7	16.7	8.3	28.6
Concrete mixer	19.7	19.5	24.3	25.5	23.0	22.8	16.1	12.1	15.3
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	S	47.6	S	S	S	S	S	S	S
Curtainside	N	N	N	N	N	N	N	N	N
Dump	8.0	11.0	16.1	15.6	15.1	20.2	13.7	11.7	14.1
Flatbed, stake, or platform	22.0	7.7	16.0	16.3	12.7	14.9	21.5	10.2	25.0
Low boy	N	S	S	N	S	S	N	S	S
Pole, logging, pulpwood, or pipe	S	S	S	S	S	S	S	S	S
Service, utility	12.8	17.5	24.2	18.7	22.7	48.3	13.6	14.2	29.0
Service, other	20.9	22.8	23.0	25.8	29.0	36.4	15.1	17.6	29.2
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	27.8	S	S	31.5	S	S	16.5	S	S
Tank, liquids or gases	17.4	21.7	26.9	24.1	28.5	45.6	16.2	20.6	33.1
Tow/Wrecker	21.7	28.9	41.1	37.7	40.0	46.1	30.3	26.1	29.5
Trash, garbage, or recycling	22.5	19.1	16.1	26.4	20.8	18.6	14.5	12.3	19.3
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	9.7	11.4	12.8	12.4	14.9	14.8	7.9	10.3	11.6
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	21.7	25.2	29.4	27.2	27.4	39.7	17.3	12.5	24.8
Van, open top	16.1	10.4	5.5	31.1	15.9	7.1	27.1	12.9	21.2
Van, step, walk-in, or multistop	26.2	12.4	37.7	43.7	14.9	77.3	18.7	8.4	26.3
Van, other	28.8	N	N	36.3	N	N	21.2	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	1.6	1.1	1.7	2.5	2.2	3.1	2.1	2.0	3.1
Automobile carrier	28.7	37.6	74.1	32.3	38.3	58.6	15.2	7.4	12.7
Beverage	24.5	29.1	44.3	26.4	33.1	27.5	11.1	14.0	10.0
Curtainside	S	N	N	S	N	N	S	N	N
Dump	10.6	11.5	15.6	13.4	13.9	21.5	8.3	7.9	12.7
Flatbed, stake, or platform	10.6	9.1	9.4	12.5	10.8	11.0	6.9	5.9	9.0
Livestock	S	S	S	S	S	S	S	S	S
Low boy	26.5	19.7	16.2	31.4	25.6	27.9	17.0	16.4	33.0
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	23.3	22.1	25.4	31.7	31.0	56.6	21.5	21.8	49.5
Pole, logging, pulpwood, or pipe	44.5	S	S	49.0	S	S	20.5	S	S
Tank, dry bulk	22.1	22.1	27.4	24.1	23.5	34.2	9.6	8.0	14.5
Tank, liquids or gases	12.1	14.1	20.8	13.7	15.4	22.3	6.4	6.4	8.7
Van, basic enclosed	3.5	3.5	4.7	4.3	4.3	6.1	2.6	2.7	4.0
Van, drop-frame	18.7	15.2	14.7	22.8	18.3	25.4	13.6	10.2	24.2
Van, insulated nonrefrigerated	33.1	17.9	9.9	34.6	19.4	10.4	10.1	7.3	12.5
Van, insulated refrigerated	12.2	11.3	12.8	13.7	12.7	16.1	6.3	5.8	9.6
Other	N	N	N	N	N	N	N	N	N
Not applicable ²	S	N	N	N	N	N	S	N	N
ANNUAL MILES									
Less than 5,000	10.4	8.5	14.2	12.8	10.2	15.4	7.4	5.4	8.1
5,000 to 9,999	8.2	7.4	13.9	8.4	7.6	15.1	1.8	1.7	2.6
10,000 to 19,999	4.6	4.9	10.0	4.8	5.0	10.4	1.3	1.3	1.8
20,000 to 29,999	12.2	9.2	13.8	12.2	9.2	13.5	1.6	1.2	1.9
30,000 to 49,999	19.8	14.7	20.3	19.5	14.7	19.9	2.7	2.1	3.3
50,000 to 74,999	26.1	19.8	27.9	24.3	18.9	26.0	2.8	2.4	3.7
75,000 or more	3.5	3.4	4.4	3.7	3.6	5.0	1.3	1.3	1.9
Not applicable ¹	38.7	35.6	71.6	N	N	N	N	N	N

See footnotes at end of table.

Table 2b. Trucks, Truck Miles, and Average Annual Miles for All Trucks—Measures of Sampling Variability: 2002 and 1997—Con.

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Columns A, B, D, E, G, H show estimated coefficients of variation. Columns C, F, and I show estimated standard errors]

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	35.2	18.0	9.1	15.7	29.9	31.9	25.8	23.2	142.1
50 miles or less	2.6	2.3	4.2	3.8	3.8	6.4	2.9	3.0	4.0
51 to 100 miles	14.4	10.3	14.4	15.3	10.9	15.1	8.5	5.7	10.1
101 to 200 miles	27.3	19.0	24.7	15.9	15.8	17.4	15.7	11.9	20.6
201 to 500 miles	23.8	17.1	27.7	9.7	8.4	10.1	17.7	13.0	18.3
501 miles or more	22.0	13.6	19.8	11.6	6.5	8.7	16.1	10.1	16.2
Not reported	11.9	35.6	506.9	11.7	N	N	8.1	N	N
Not applicable ¹	38.7	N	N	N	N	N	N	N	N
PRIMARY JURISDICTION									
Operated in Canada	S	N	N	S	N	N	S	N	N
Operated in Mexico	N	N	N	N	N	N	N	N	N
Operated within the home base state	1.8	N	N	3.3	N	N	2.8	N	N
Operated in states other than the home base state	14.9	N	N	5.3	N	N	11.5	N	N
Not reported	13.7	N	N	13.0	N	N	6.7	N	N
Not applicable ¹	38.7	N	N	N	N	N	N	N	N
MONTHS OPERATED									
12	2.4	N	N	3.1	N	N	2.4	N	N
7 to 11	12.3	N	N	11.7	N	N	7.6	N	N
2 to 6	12.3	N	N	16.1	N	N	11.2	N	N
1 or less	27.6	N	N	39.8	N	N	27.7	N	N
Vehicle not used	38.7	N	N	N	N	N	N	N	N
VEHICLE SIZE									
Light .....	.9	.7	1.4	3.1	3.0	5.1	2.9	3.0	3.9
Medium	18.9	5.7	22.4	26.1	9.3	46.3	12.9	7.4	21.9
Light-heavy	6.9	9.1	11.6	11.9	15.0	25.8	9.7	12.1	20.6
Heavy-heavy	1.5	1.5	1.9	2.4	2.1	3.0	2.3	2.3	3.4
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2.4	1.4	3.1	4.1	3.4	5.6	3.4	3.1	4.3
6,001 to 8,500	10.1	N	N	11.6	N	N	5.6	N	N
8,501 to 10,000	27.2	N	N	31.2	N	N	20.1	N	N
10,001 to 14,000	24.0	8.8	26.8	28.5	12.9	37.0	12.9	9.6	18.1
14,001 to 16,000	39.4	12.6	52.6	S	18.6	S	S	14.0	S
16,001 to 19,500	42.7	15.9	53.9	S	24.0	S	S	18.3	S
19,501 to 26,000	6.9	9.1	11.6	11.9	15.0	25.8	9.7	12.1	20.6
26,001 to 33,000	9.9	10.4	10.9	16.5	14.0	12.2	13.6	10.7	12.7
33,001 to 40,000	12.6	12.3	14.5	19.2	16.0	17.2	14.9	12.1	16.0
40,001 to 50,000	9.1	6.3	4.9	14.3	8.0	5.7	11.2	5.1	9.6
50,001 to 60,000	9.3	9.0	11.8	12.4	11.5	9.3	8.3	7.2	6.6
60,001 to 80,000	2.1	2.5	3.5	3.0	3.4	5.0	2.2	2.4	3.4
80,001 to 100,000	40.5	35.2	35.3	46.4	37.2	37.1	22.6	12.2	24.4
100,001 to 130,000	30.1	N	N	33.7	N	N	14.4	N	N
130,001 or more	N	N	N	N	N	N	N	N	N
TOTAL LENGTH (FEET)									
Less than 20.0	1.4	.8	1.9	3.4	3.0	5.1	3.1	3.0	4.0
20.0 to 27.9	14.2	6.5	37.4	17.0	14.9	54.8	8.0	10.3	13.2
28.0 to 35.9	24.8	19.0	47.8	26.1	12.8	53.9	10.9	14.6	22.2
36.0 to 40.9	13.2	15.7	23.3	17.4	19.7	44.8	12.0	14.3	28.0
41.0 to 44.9	20.6	17.2	18.0	26.9	20.5	13.4	19.5	12.3	13.6
45.0 to 49.9	47.8	15.7	164.3	45.4	21.0	77.1	10.5	14.4	8.4
50.0 to 54.9	34.4	19.4	151.5	21.1	23.1	84.6	18.1	14.2	16.2
55.0 to 59.9	8.2	8.9	13.0	10.3	10.9	15.7	6.3	6.5	8.8
60.0 to 64.9	7.8	5.9	5.7	9.2	6.7	5.9	5.1	3.1	5.3
65.0 to 69.9	6.4	6.1	7.4	7.3	7.2	9.5	3.6	3.8	5.8
70.0 to 74.9	5.7	6.8	10.5	6.3	7.9	13.9	2.8	4.0	5.6
75.0 to 79.9	14.1	N	N	15.7	N	N	6.9	N	N
80.0 or more	41.1	N	N	41.5	N	N	8.2	N	N
MILES PER GALLON									
Less than 5	9.2	9.9	11.4	13.9	14.0	20.7	11.0	11.6	19.9
5 to 6.9	2.5	2.8	3.2	3.2	3.3	4.7	2.7	3.0	4.8
7 to 8.9	15.1	9.4	7.9	11.8	6.9	5.0	11.5	8.7	11.9
9 to 10.9	19.1	12.4	14.6	26.4	15.8	28.4	17.6	10.4	29.3
11 to 12.9	17.0	10.6	12.4	20.2	13.5	17.7	10.5	8.6	16.0
13 to 14.9	15.7	10.1	12.4	18.7	12.5	14.5	10.2	7.5	12.3
15 or more	3.4	3.2	6.2	4.8	4.8	8.0	3.4	3.6	4.4
15 to 20.9	4.5	4.1	7.6	5.7	5.7	8.7	3.5	4.0	4.5
21 to 24.9	13.6	13.2	26.2	16.9	15.4	30.9	10.0	7.9	12.5
25 or more	23.1	33.0	119.0	28.1	42.4	203.7	16.3	26.7	42.4
Not reported	9.9	19.5	282.3	10.1	11.2	95.6	5.8	20.5	10.5
Not applicable ¹	38.7	N	N	N	N	N	N	N	N

See footnotes at end of table.

Table 2b. Trucks, Truck Miles, and Average Annual Miles for All Trucks—Measures of Sampling Variability: 2002 and 1997—Con.

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Columns A, B, D, E, G, H show estimated coefficients of variation. Columns C, F, and I show estimated standard errors]

Vehicle and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	38.0	N	N	43.4	N	N	25.8	N	N
2002	17.2	N	N	15.6	N	N	9.8	N	N
2001	12.0	N	N	11.4	N	N	5.9	N	N
2000	12.6	N	N	10.4	N	N	5.6	N	N
1999	12.1	N	N	11.5	N	N	6.5	N	N
1998	13.8	S	S	11.8	S	S	6.2	S	S
1997	15.6	13.5	23.5	15.7	12.1	18.6	8.8	7.1	9.3
1996	17.4	13.1	18.7	17.2	10.3	15.1	10.0	6.7	10.6
1995	15.0	10.6	14.6	14.1	9.8	10.7	7.7	6.1	7.7
1994	17.6	12.8	18.2	18.2	12.4	10.0	11.4	7.9	7.5
1993	18.6	13.9	20.5	18.3	12.6	11.2	10.7	8.0	7.7
Pre-1993	7.3	3.2	3.9	10.3	4.5	3.8	7.8	3.5	5.9
VEHICLE ACQUISITION									
New	4.1	3.8	7.2	4.1	4.1	7.1	2.8	3.0	3.9
Used	4.7	4.3	8.1	6.2	6.2	11.0	4.5	4.6	6.3
Not reported	20.6	12.1	13.8	13.9	8.2	6.4	10.8	6.9	8.8
LEASE CHARACTERISTICS									
Leased	15.3	N	N	9.9	N	N	8.4	N	N
Lessee	17.6	N	N	11.5	N	N	9.7	N	N
Vehicle only	8.1	N	N	9.5	N	N	5.8	N	N
Vehicle with driver	16.5	N	N	18.1	N	N	7.3	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ³	21.1	N	N	23.2	N	N	9.6	N	N
Lessor	32.8	N	N	18.7	N	N	18.4	N	N
Vehicle only	12.4	N	N	15.7	N	N	10.9	N	N
Vehicle with driver	19.7	N	N	22.1	N	N	10.0	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ³	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	4.2	N	N	4.8	N	N	3.3	N	N
Not reported	4.9	N	N	5.9	N	N	4.0	N	N
Length of leasing agreement:									
Leased	15.3	N	N	9.9	N	N	8.4	N	N
1 to 11 months	17.8	N	N	20.0	N	N	10.7	N	N
12 months or more	6.1	N	N	7.4	N	N	5.0	N	N
Not reported	37.6	N	N	46.6	N	N	27.5	N	N
Not applicable ³	19.3	N	N	21.1	N	N	8.6	N	N
Provisions of lease:									
Financing only	8.0	N	N	9.6	N	N	6.3	N	N
Full maintenance	11.9	N	N	15.7	N	N	11.7	N	N
Payment of taxes	10.7	N	N	12.5	N	N	7.9	N	N
Obtaining licenses and permits	10.2	N	N	12.0	N	N	7.7	N	N
Recordkeeping	15.1	N	N	17.2	N	N	10.5	N	N
Fuel contract	19.1	N	N	21.1	N	N	10.4	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	8.0	N	N	10.3	N	N	6.4	N	N
Motor carrier	8.8	N	N	4.9	N	N	5.9	N	N
Owner operator	17.2	N	N	7.1	N	N	15.3	N	N
Rental	40.4	N	N	32.7	N	N	13.1	N	N
Personal transportation	2.4	N	N	3.9	N	N	3.0	N	N
Not applicable ¹	38.7	N	N	N	N	N	N	N	N
For-hire characteristics:									
Type of carrier:									
Contract	12.2	N	N	7.5	N	N	6.9	N	N
Common	4.0	N	N	4.8	N	N	3.2	N	N
Not reported	12.1	N	N	14.5	N	N	9.8	N	N
Not applicable ⁴ .....	.7	N	N	2.9	N	N	2.8	N	N
Type of service:									
Truckload	3.3	5.7	11.6	3.9	6.3	13.6	2.4	3.4	4.3
Less-than truckload	14.2	5.6	15.0	9.5	6.3	10.2	8.0	4.3	8.2
Not reported	12.1	N	N	14.4	N	N	9.5	N	N
Not applicable ⁴ .....	.7	N	N	2.9	N	N	2.8	N	N
Source of hauls:									
Shippers or receivers	7.0	N	N	4.6	N	N	4.3	N	N
Brokers	14.6	N	N	16.3	N	N	7.8	N	N
Centralized markets or exchanges	35.7	N	N	40.0	N	N	20.5	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	7.4	N	N	8.7	N	N	5.5	N	N
Not applicable ⁴ .....	.7	N	N	2.9	N	N	2.8	N	N
HAZARDOUS MATERIALS CARRIED⁵									
Carrying hazardous materials	6.7	5.8	6.2	7.9	6.4	7.2	4.8	4.0	6.3
Not carrying hazardous materials	4.3	1.6	4.0	4.0	3.2	5.3	3.7	2.7	5.6
Not reported	7.7	6.9	6.2	11.6	9.1	11.2	9.4	7.4	15.2
Not applicable ⁶ .....	.8	N	N	3.0	N	N	2.9	N	N

See footnotes at end of table.

Table 2b. Trucks, Truck Miles, and Average Annual Miles for All Trucks—Measures of Sampling Variability: 2002 and 1997—Con.

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Columns A, B, D, E, G, H show estimated coefficients of variation. Columns C, F, and I show estimated standard errors]

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE ⁷									
Aerial work platform/bucket	49.8	N	N	S	N	N	S	N	N
Air bag(s) (safety device only)	3.0	5.7	16.9	4.1	5.9	14.5	2.9	3.4	3.4
Air compressor (except air brakes)	6.7	N	N	7.8	N	N	4.6	N	N
Air-conditioning	1.6	1.9	3.5	2.6	2.7	4.6	2.3	2.4	2.9
Air springs	4.0	N	N	4.7	N	N	2.9	N	N
Antilock brake system	2.9	4.1	9.2	3.6	4.7	10.3	2.6	3.1	3.9
Collision warning system	18.1	N	N	21.7	N	N	14.2	N	N
Computerized drive train control unit	10.4	N	N	11.4	N	N	6.7	N	N
Crane	25.1	N	N	33.5	N	N	23.4	N	N
Electronic vehicle identification device	9.2	7.4	6.8	10.0	8.2	9.3	4.2	4.2	7.5
Engine retarder/brake	4.4	4.5	5.4	5.1	5.0	7.2	2.9	2.7	4.6
Front-wheel drive	6.1	7.1	17.6	7.8	9.3	19.2	4.8	6.1	6.6
Hoist	7.3	N	N	15.8	N	N	14.2	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	28.4	N	N	14.4	N	N	17.2	N	N
Internet access	30.2	N	N	30.7	N	N	8.6	N	N
Lift gate	14.2	N	N	18.4	N	N	11.9	N	N
Mounting bar for snowplow	44.9	N	N	S	N	N	S	N	N
Navigational system	30.2	16.6	9.3	35.4	17.9	9.1	21.0	8.6	19.3
Power take-off	4.2	N	N	6.9	N	N	5.8	N	N
Radial tires	3.1	2.0	3.8	3.6	2.8	4.4	2.7	2.4	3.4
Reflective material in addition to those required by law	13.4	4.0	7.6	10.6	4.8	5.8	6.3	3.9	6.9
Road speed governor	6.5	3.2	6.9	4.5	3.7	6.1	4.0	3.0	5.5
Toolbox	13.4	N	N	11.9	N	N	7.6	N	N
Trip recorder or on-board computer with communication capabilities	16.1	N	N	12.5	N	N	10.7	N	N
Trip recorder or on-board computer without communication capabilities	8.9	N	N	9.5	N	N	5.4	N	N
Vehicle control aids for handicapped drivers	N	S	S	N	S	S	N	S	S
Wheelchair lift	S	S	S	S	S	S	S	S	S
Winch	36.6	N	N	20.5	N	N	38.2	N	N
Transmission type:									
Automatic	1.9	N	N	3.5	N	N	3.0	N	N
Manual	7.6	N	N	5.3	N	N	5.5	N	N
Semiautomated manual	27.9	N	N	31.9	N	N	18.7	N	N
Automated manual	S	N	N	37.1	N	N	S	N	N
Not reported	24.8	N	N	12.4	N	N	17.7	N	N
Braking system:									
Hydraulic (standard)	4.7	6.2	7.7	8.5	11.3	16.1	7.1	9.6	13.7
Hydraulic with power assist	14.8	5.7	11.2	35.0	10.3	29.1	21.4	8.8	26.1
Air	1.8	1.8	2.3	2.7	2.5	3.4	2.5	2.4	3.6
Other	N	S	S	N	S	S	N	S	S
Not reported	22.2	N	N	10.2	N	N	21.7	N	N
Not applicable ⁹ .....	.8	N	N	3.0	N	N	2.9	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	1.3	.9	1.9	3.2	3.1	5.1	2.9	3.0	4.0
Diesel	6.4	4.1	7.6	3.2	2.3	3.8	5.0	3.6	5.9
Natural gas	S	N	N	S	N	N	S	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	N	N	N	N	N	N	N	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	26.3	N	N	31.5	N	N	17.2	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ¹	38.7	N	N	N	N	N	N	N	N
Cylinders ⁹ :									
4 cylinders	15.0	11.6	17.9	17.9	14.7	23.8	10.0	9.1	14.7
6 cylinders	3.3	3.4	6.7	3.4	3.3	5.4	2.6	2.7	3.0
8 cylinders	6.1	4.9	8.1	8.4	7.0	11.8	5.6	4.9	7.8
Other	25.9	12.7	28.0	37.1	12.9	44.7	21.8	14.7	30.9
Cubic inch displacement ⁹ :									
Gasoline fuel:									
Less than 200	1.3	.9	1.9	3.2	3.1	5.1	2.9	3.0	4.0
200 to 299	9.0	7.4	12.5	11.5	9.8	14.6	7.1	6.4	8.6
300 to 349	4.9	5.7	13.5	6.0	7.3	14.6	3.4	4.4	4.9
350 to 399	10.8	9.1	15.0	14.3	11.8	21.6	9.3	7.4	13.0
400 or more	11.4	7.9	10.6	14.9	10.6	13.2	9.3	6.9	11.0
Not available	32.7	22.3	26.6	39.7	27.3	51.3	17.2	18.8	40.3
Diesel fuel:									
Less than 400	30.1	16.4	20.9	S	40.7	S	S	31.6	S
400 to 599	6.4	4.1	7.6	3.2	2.3	3.8	5.0	3.6	5.9
600 to 799	29.4	25.8	41.0	31.2	26.3	38.1	17.0	7.4	16.5
800 or more	16.9	13.4	30.7	20.1	11.9	30.3	11.7	9.0	13.4
Not available	3.0	3.5	5.0	4.0	4.4	6.6	2.9	3.0	4.2
Other fuel	5.9	4.3	4.1	7.2	5.5	5.4	4.2	3.5	5.8
Not available	7.6	7.6	8.8	9.6	10.4	19.7	6.0	7.6	16.5
Other fuel:									
Less than 400	25.2	47.5	339.0	30.2	S	S	16.5	S	S
400 or more	25.3	S	S	30.3	S	S	16.5	S	S
Not available	S	S	S	S	S	S	S	S	S
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ¹	38.7	N	N	N	N	N	N	N	N

See footnotes at end of table.

Table 2b. Trucks, Truck Miles, and Average Annual Miles for All Trucks—Measures of Sampling Variability: 2002 and 1997—Con.

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Columns A, B, D, E, G, H show estimated coefficients of variation. Columns C, F, and I show estimated standard errors]

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
REFUELING LOCATION									
Gas station	1.4	N	N	3.1	N	N	2.8	N	N
Truck stop	3.5	N	N	4.1	N	N	2.6	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	12.0	N	N	8.8	N	N	7.5	N	N
Other company's/contractor's facility not open to the public	S	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	26.8	N	N	26.0	N	N	14.1	N	N
Not applicable ¹	38.7	N	N	N	N	N	N	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	33.1	35.7	83.0	S	43.1	S	S	24.5	S
Company-owned maintenance facility	10.1	8.2	16.5	6.0	5.4	8.7	6.2	5.9	7.3
General repair business or private mechanic ..	4.9	5.2	11.0	5.4	6.2	12.7	3.5	4.3	5.5
Dealership service department	6.1	5.8	11.5	6.7	6.5	12.2	4.1	3.9	5.4
Leasing company	21.5	34.2	5.3	27.2	23.9	14.5	19.4	15.8	76.0
Individual not employed/paid by any maintenance type facility									
Other	6.0	4.3	6.9	7.9	5.8	9.4	5.4	4.1	7.0
Other	N	S	S	N	37.2	N	N	S	S
Not reported	23.1	17.0	34.6	16.7	15.1	22.6	13.0	12.0	14.7
Not applicable ¹	38.7	N	N	N	N	N	N	N	N
Extensive repairs performed by:									
None performed	2.2	15.5	265.5	3.1	18.5	383.1	2.6	10.2	12.6
Company-owned maintenance facility	26.4	11.0	8.6	14.5	6.6	4.0	17.0	8.6	16.2
General repair business or private mechanic ..	15.7	8.1	8.2	14.8	8.9	8.6	8.2	5.4	10.6
Dealership service department	20.2	8.2	6.3	17.3	8.0	7.0	11.1	5.1	15.4
Leasing company	S	49.8	S	S	37.4	S	S	22.4	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	24.3	21.4	1.6	28.3	11.9	3.2	16.9	16.3	49.9
Other	18.8	13.4	19.8	21.9	19.0	19.7	13.7	13.6	15.4
Other	N	S	S	N	S	S	N	S	S
Not reported	S	3.8	S	S	4.9	S	S	3.6	S
Not applicable ¹	38.7	N	N	N	N	N	N	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	1.0	.8	1.5	3.0	2.9	4.9	2.9	2.8	3.9
3 axles	1.0	.8	1.5	3.1	3.0	5.0	2.9	2.9	3.9
4 axles	7.9	7.6	9.4	12.7	10.6	12.4	10.0	7.5	10.9
5 axles or more	49.6	27.0	15.2	S	30.0	S	S	12.9	S
Not reported	S	N	S	N	N	N	S	N	N
Combinations	9.6	4.3	13.1	3.3	2.4	4.1	7.7	3.9	7.0
Single-unit trucks with trailer									
3 axles	25.0	34.8	170.0	28.3	S	S	12.5	S	S
4 axles	37.9	S	S	44.6	S	S	22.4	S	S
5 axles or more	40.2	41.5	171.2	43.5	29.4	147.6	17.7	25.4	29.3
Not reported	S	S	S	S	S	S	S	S	S
Truck-tractors with single trailer									
3 axles	2.0	1.9	2.6	2.9	2.8	3.9	2.2	2.2	3.3
4 axles	16.9	18.9	31.9	22.7	26.1	21.1	14.9	18.0	11.4
5 axles or more	10.8	11.0	15.1	14.3	14.0	21.8	9.5	9.4	14.9
Not reported	2.3	2.3	2.9	3.1	3.1	4.3	2.1	2.2	3.3
Truck-tractors with double trailers	9.5	7.5	7.4	10.4	8.8	10.3	4.4	4.6	7.9
5 axles	10.9	9.5	10.4	11.8	10.7	13.2	4.8	5.0	8.0
6 axles	23.3	15.1	10.4	25.8	18.8	18.2	11.0	11.2	23.9
7 axles	S	35.1	S	S	37.7	S	S	13.6	S
8 axles or more	49.8	S	S	S	S	S	S	S	S
Not reported	N	N	N	N	N	N	N	N	N
Truck-tractors with triple trailers									
7 axles	41.1	S	S	41.5	S	S	8.2	S	S
8 axles	41.1	N	N	41.5	N	N	8.2	N	N
9 axles	N	S	S	N	S	S	N	S	S
10 axles or more	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Driving axles:									
1	3.3	2.6	4.8	4.5	4.0	6.5	3.3	3.2	4.3
2	5.5	5.3	10.7	4.9	4.6	7.9	3.6	3.5	4.2
3 or more	32.9	24.0	18.9	45.0	32.2	6.2	30.8	21.4	9.0
Not reported	49.6	N	N	S	N	S	S	N	S
Total liftable axles and locations:									
None	3.2	3.6	11.0	2.8	4.7	12.7	3.0	4.1	5.1
1	16.6	22.4	34.8	27.7	30.6	103.9	22.8	22.8	65.0
Forward of the drive axle	29.0	N	N	34.6	N	N	21.3	N	N
Below the chassis	32.0	N	N	S	N	N	S	N	N
Beyond the chassis	31.2	N	N	36.2	N	N	18.4	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	N	S	S	N	S	S	N	S	S
Forward of the drive axle	N	N	N	N	N	N	N	N	N
Below the chassis	N	N	N	N	N	N	N	N	N
Beyond the chassis	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	35.1	N	N	46.1	N	N	29.9	N	N
Not applicable ⁸ .....	.8	N	N	3.0	N	N	2.9	N	N

See footnotes at end of table.

Table 2b. Trucks, Truck Miles, and Average Annual Miles for All Trucks—Measures of Sampling Variability: 2002 and 1997—Con.

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Columns A, B, D, E, G, H show estimated coefficients of variation. Columns C, F, and I show estimated standard errors]

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
TRUCK TYPE AND AXLE ARRANGEMENT—Con.									
Total liftable axles and number of braking axles:									
None	3.2	3.6	11.0	2.8	4.7	12.7	3.0	4.1	5.1
1	16.6	22.4	34.8	27.7	30.6	103.9	22.8	22.8	65.0
0 braking	30.5	N	N	43.2	N	N	33.0	N	N
1 braking	20.8	N	N	36.5	N	N	30.4	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	N	S	S	N	S	S	N	S	S
0 braking	N	N	N	N	N	N	N	N	N
1 braking	N	N	N	N	N	N	N	N	N
2 or more braking	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	35.1	N	N	46.1	N	N	29.9	N	N
Not applicable ⁸ .....	.8	N	N	3.0	N	N	2.9	N	N
CAB TYPE									
Conventional cab	2.6	1.7	3.2	2.4	2.8	4.0	3.2	2.6	4.5
With sleeper	4.3	N	N	4.9	N	N	2.4	N	N
Without sleeper	3.6	N	N	4.4	N	N	4.9	N	N
Not reported	9.7	N	N	11.7	N	N	6.4	N	N
Cab over engine	18.4	6.9	19.1	18.0	8.2	14.9	7.4	5.9	7.4
With sleeper	13.5	N	N	15.5	N	N	7.6	N	N
Without sleeper	23.5	N	N	36.1	N	N	14.1	N	N
Not reported	49.8	N	N	S	N	N	S	N	N
Cab forward of engine	S	18.7	S	S	22.8	S	S	13.5	S
Cab beside engine	N	43.2	N	N	S	S	N	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁹ .....	.8	N	N	3.0	N	N	2.9	N	N

N Not available. S Estimate does not meet publication standards because of high sampling variability or poor response quality. V Represents an estimate of less than 50 vehicles, 50,000 miles, or 0.05 percent.

¹Vehicles not in use. When the respondent had partial-year ownership of the vehicle, annual miles were adjusted to reflect miles traveled when not owned by the respondent.

²Truck-tractors not in use.

³Lessees or lessors of pickups, minivans, other light vans, and sport utilities.

⁴Includes pickups, minivans, other light vans, and sport utilities; all other vehicles that are private, rental, or used for personal transportation; and vehicles not in use.

⁵Distributed miles data are available in Table 8.

⁶Includes pickups, minivans, other light vans, and sport utilities; all other vehicles that are rental or used for personal transportation; and vehicles not in use.

⁷Pickups, minivans, other light vans, and sport utilities, in the Equipment Type section, were only required to report for aerial work platform/bucket, air bag(s), air-conditioning, antilock brake system, computerized drive train control unit, front-wheel drive, mounting bar for snowplow, radial tires, toolbox, trip recorder, vehicle control aids for handicapped drivers, wheelchair lift, and winch.

⁸Pickups, minivans, other light vans, and sport utilities.

⁹Data were derived from administrative records.

Table 3a. Trucks, Truck Miles, and Average Annual Miles for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities: 2002 and 1997

[Estimates are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
Total	292.6	336.5	-13.1	12 634.1	13 385.3	-5.6	43.2	39.8	8.6
BUSINESS¹									
For-hire transportation or warehousing	122.8	110.1	11.6	9 757.9	8 663.1	12.6	79.5	78.7	1.0
Vehicle leasing or rental	9.2	8.1	13.9	382.4	154.3	147.9	41.6	19.1	117.6
Agriculture, forestry, fishing, or hunting	32.8	51.1	-35.9	234.1	348.9	-32.9	7.1	6.8	4.6
Mining	1.8	1.0	77.3	58.1	S	S	31.8	S	S
Utilities	9.5	11.9	-19.5	81.7	97.7	-16.4	8.6	8.2	3.8
Construction	38.1	54.1	-29.5	535.8	1 049.2	-48.9	14.0	19.4	-27.6
Manufacturing	17.8	15.5	14.9	351.3	514.2	-31.7	19.8	33.2	-40.5
Wholesale trade	13.3	27.4	-51.4	334.2	1 153.9	-71.0	25.1	42.1	-40.4
Retail trade	11.1	19.2	-42.3	286.5	592.2	-51.6	25.8	30.8	-16.1
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	13.0	N	N	218.6	N	N	16.8	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	4.3	N	N	123.2	N	N	28.4	N	N
Other services	6.1	N	N	95.2	N	N	15.5	N	N
Personal transportation .....	.9	2.8	-66.4	S	14.8	S	S	5.3	S
Not reported	6.5	V	N	160.3	V	N	24.5	V	N
Not applicable ²	4.1	5.9	-30.6	V	S	S	V	S	S
BODY TYPE									
Single-unit trucks	155.2	180.4	-14.0	1 890.3	1 936.4	-2.4	12.2	10.7	13.5
Armored	S	N	N	S	N	N	S	N	N
Beverage	2.2	1.7	28.4	46.6	23.7	96.8	20.9	13.6	53.3
Concrete mixer	3.6	4.1	-12.4	33.4	50.4	-33.6	9.4	12.4	-24.2
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	S	1.2	S	S	S	N	S	S	S
Curtainside	V	N	N	V	N	N	V	N	N
Dump	26.3	22.2	18.5	174.5	187.7	-7.0	6.6	8.4	-21.5
Flatbed, stake, or platform	29.1	42.4	-31.3	225.0	312.1	-27.9	7.7	7.4	4.9
Low boy	V	S	S	V	S	S	V	S	S
Pole, logging, pulpwood, or pipe	S	S	S	S	S	S	S	S	S
Service, utility	11.8	10.6	11.4	118.2	72.1	64.1	10.0	6.8	47.3
Service, other	4.7	6.4	-25.7	78.9	84.3	-6.3	16.7	13.2	26.0
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	2.6	S	S	14.0	S	S	5.4	S	S
Tank, liquids or gases	6.1	6.3	-3.3	66.5	54.4	22.2	10.9	8.6	26.4
Tow/Wrecker	4.2	3.7	13.7	59.7	71.2	-16.1	14.3	19.4	-26.2
Trash, garbage, or recycling	2.9	5.3	-45.5	62.6	113.2	-44.7	21.7	21.4	1.6
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	19.1	22.3	-14.4	312.6	408.9	-23.5	16.3	18.3	-10.7
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	4.2	4.7	-11.6	107.0	104.2	2.7	25.6	22.0	16.1
Van, open top	7.4	25.8	-71.4	17.9	88.6	-79.8	2.4	3.4	-29.4
Van, step, walk-in, or multistop	25.8	19.8	30.3	522.7	312.1	67.5	20.3	15.8	28.6
Van, other	2.4	N	N	19.8	N	N	8.1	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	137.4	156.1	-12.0	10 743.8	11 448.9	-6.2	78.2	73.3	6.6
Automobile carrier	1.8	1.2	56.6	95.9	81.9	17.1	52.0	69.5	-25.2
Beverage	3.0	2.6	16.5	50.6	78.0	-35.1	17.0	30.5	-44.3
Curtainside	S	N	N	S	N	N	S	N	N
Dump	12.0	12.0	.1	489.0	438.8	11.4	40.9	36.7	11.3
Flatbed, stake, or platform	12.2	18.2	-33.0	802.5	1 211.7	-33.8	65.9	66.6	-1.1
Livestock	S	S	S	S	S	S	S	S	S
Low boy	2.1	4.2	-50.9	137.4	199.9	-31.3	66.4	47.5	39.9
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	2.7	3.4	-21.0	121.0	94.8	27.6	45.5	28.1	61.6
Pole, logging, pulpwood, or pipe .....	.7	S	S	84.1	S	S	113.7	S	S
Tank, dry bulk	3.0	3.4	-12.2	252.8	248.6	1.7	85.5	73.9	15.8
Tank, liquids or gases	9.5	8.4	12.2	825.2	761.0	8.4	87.2	90.2	-3.3
Van, basic enclosed	73.8	77.1	-4.3	6 373.2	6 309.4	1.0	86.4	81.8	5.6
Van, drop-frame	4.2	6.9	-39.1	425.3	489.8	-13.2	101.2	71.0	42.5
Van, insulated nonrefrigerated	1.3	5.1	-73.7	109.3	416.2	-73.7	82.2	82.4	-3.3
Van, insulated refrigerated	9.4	12.1	-22.7	884.8	1 028.8	-14.0	94.4	84.9	11.2
Other	V	N	N	V	N	N	V	N	N
Not applicable ³	S	N	N	V	N	N	S	N	N
ANNUAL MILES									
Less than 5,000	61.9	70.6	-12.3	115.4	146.8	-21.4	1.9	2.1	-10.4
5,000 to 9,999	31.0	37.8	-18.1	213.9	259.6	-17.6	6.9	6.9	.6
10,000 to 19,999	39.2	53.3	-26.5	546.4	717.5	-23.9	13.9	13.5	3.6
20,000 to 29,999	26.2	29.7	-11.6	612.6	691.3	-11.4	23.4	23.3	.3
30,000 to 49,999	36.7	34.4	6.5	1 345.4	1 269.9	5.9	36.7	36.9	-.6
50,000 to 74,999	23.1	27.7	-16.6	1 418.8	1 688.7	-16.0	61.4	61.0	.7
75,000 or more	70.4	77.6	-9.3	8 381.7	8 611.4	-2.7	119.1	111.0	7.3
Not applicable ²	4.1	5.4	-23.9	V	V	N	V	V	N

See footnotes at end of table.

Table 3a. Trucks, Truck Miles, and Average Annual Miles for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities: 2002 and 1997—Con.

[Estimates are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	13.4	11.9	12.1	887.4	63.7	1 293.2	66.4	5.3	1 143.3
50 miles or less	146.8	157.8	-7.0	2 233.0	1 955.6	14.2	15.2	12.4	22.8
51 to 100 miles	29.1	43.6	-33.2	1 034.7	1 368.4	-24.4	35.6	31.4	13.2
101 to 200 miles	17.2	23.6	-27.2	1 057.7	1 148.4	-7.9	61.6	48.7	26.5
201 to 500 miles	24.6	36.8	-33.1	2 359.3	3 138.8	-24.8	95.8	85.3	12.4
501 miles or more	28.9	57.4	-49.6	3 368.4	5 710.5	-41.0	116.4	99.5	17.0
Not reported	28.5	5.4	426.1	1 693.6	V	N	59.4	V	N
Not applicable ²	4.1	N	N	V	N	N	V	N	N
PRIMARY JURISDICTION									
Operated in Canada	S	N	N	S	N	N	S	N	N
Operated in Mexico	V	N	N	V	N	N	V	N	N
Operated within the home base state	204.0	N	N	4 902.0	N	N	24.0	N	N
Operated in states other than the home base state	71.4	N	N	6 931.7	N	N	97.1	N	N
Not reported	13.0	N	N	799.7	N	N	61.7	N	N
Not applicable ²	4.1	N	N	V	N	N	V	N	N
MONTHS OPERATED									
12	188.9	N	N	10 107.0	N	N	53.5	N	N
7 to 11	51.1	N	N	1 928.4	N	N	37.7	N	N
2 to 6	37.3	N	N	561.7	N	N	15.1	N	N
1 or less	11.1	N	N	S	N	N	S	N	N
Vehicle not used	4.1	N	N	V	N	N	V	N	N
VEHICLE SIZE									
Light	31.1	38.5	-19.1	270.1	407.5	-33.7	8.7	10.6	-18.0
Medium	50.1	65.6	-23.6	777.7	672.1	15.7	15.5	10.2	51.4
Light-heavy	33.9	33.3	1.7	394.8	293.4	34.6	11.7	8.8	32.4
Heavy-heavy	177.5	199.2	-10.9	11 191.4	12 012.4	-6.8	63.1	60.3	4.5
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	1.4	6.8	-78.9	8.3	60.8	-86.4	5.8	8.9	-35.6
6,001 to 8,500	9.9	N	N	107.0	N	N	10.8	N	N
8,501 to 10,000	19.8	N	N	154.8	N	N	7.8	N	N
10,001 to 14,000	24.6	34.8	-29.1	292.9	381.0	-23.1	11.9	11.0	8.5
14,001 to 16,000	17.0	18.5	-7.9	S	149.2	S	S	8.1	S
16,001 to 19,500	8.5	12.3	-31.3	94.7	142.0	-33.3	11.2	11.5	-2.9
19,501 to 26,000	33.9	33.3	1.7	394.8	293.4	34.6	11.7	8.8	32.4
26,001 to 33,000	18.5	24.2	-23.6	199.2	354.2	-43.8	10.8	14.6	-26.3
33,001 to 40,000	11.0	13.3	-17.3	252.8	367.0	-31.1	23.0	27.6	-16.7
40,001 to 50,000	16.9	37.8	-55.3	654.4	1 872.7	-65.1	38.8	49.6	-21.9
50,001 to 60,000	16.8	18.6	-9.3	582.8	1 061.0	-45.1	34.6	57.1	-39.4
60,001 to 80,000	111.7	104.0	7.4	9 185.7	8 253.1	11.3	82.2	79.3	3.6
80,001 to 100,000 .....	.9	1.3	-34.3	65.1	104.4	-37.6	73.5	77.5	-5.1
100,001 to 130,000	1.7	V	N	251.3	V	N	148.6	V	N
130,001 or more	V	V	N	V	V	N	V	V	N
TOTAL LENGTH (FEET)									
Less than 20.0	64.2	62.5	2.7	827.0	593.9	39.2	12.9	9.5	35.6
20.0 to 27.9	56.2	86.3	-34.9	555.9	901.4	-38.3	9.9	10.4	-5.2
28.0 to 35.9	25.6	24.8	3.3	397.4	370.0	7.4	15.5	14.9	3.9
36.0 to 40.9	10.1	8.9	13.4	240.9	141.5	70.2	23.8	15.9	50.1
41.0 to 44.9	4.2	6.3	-32.7	74.4	188.2	-60.5	17.6	30.0	-41.2
45.0 to 49.9	3.9	6.9	-43.1	73.6	199.4	-63.1	18.7	28.8	-35.1
50.0 to 54.9	12.1	4.7	154.7	432.0	193.6	123.1	35.8	40.9	-12.4
55.0 to 59.9	21.5	19.9	7.8	1 320.8	1 254.8	5.3	61.6	63.1	-2.4
60.0 to 64.9	21.9	37.4	-41.4	1 511.8	2 903.0	-47.9	69.0	77.7	-11.2
65.0 to 69.9	29.7	35.3	-16.1	2 539.8	2 724.9	-6.8	85.6	77.1	11.1
70.0 to 74.9	35.2	29.6	18.8	3 705.2	2 693.5	37.6	105.3	90.9	15.8
75.0 to 79.9	7.1	N	N	762.4	N	N	107.5	N	N
80.0 or more	1.0	N	N	192.9	N	N	202.4	N	N
MILES PER GALLON									
Less than 5	18.7	22.1	-15.7	524.8	499.8	5.0	28.1	22.6	24.5
5 to 6.9	122.9	143.0	-14.1	8 795.4	8 650.3	1.7	71.6	60.5	18.3
7 to 8.9	37.4	77.8	-51.9	865.7	2 384.2	-63.7	23.2	30.6	-24.4
9 to 10.9	33.6	39.4	-14.6	571.6	500.9	14.1	17.0	12.7	33.5
11 to 12.9	20.4	15.8	28.7	177.9	231.8	-23.2	8.7	14.6	-40.3
13 to 14.9	5.6	5.1	10.2	93.2	64.4	44.7	16.6	12.6	31.3
15 or more	8.7	7.4	17.8	114.5	49.8	130.0	13.2	6.8	95.3
15 to 20.9	8.7	7.4	17.8	114.5	49.8	130.0	13.2	6.8	95.3
21 to 24.9	V	V	N	V	V	N	V	V	N
25 or more	V	V	N	V	V	N	V	V	N
Not reported	41.2	25.9	59.1	1 491.0	1 004.1	48.5	36.2	38.8	-6.7
Not applicable ²	4.1	N	N	V	N	N	V	N	N

See footnotes at end of table.

Table 3a. Trucks, Truck Miles, and Average Annual Miles for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities: 2002 and 1997—Con.

[Estimates are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	1.1	N	N	87.2	N	N	79.3	N	N
2002	8.7	N	N	924.4	N	N	106.4	N	N
2001	15.6	N	N	1 276.5	N	N	81.6	N	N
2000	29.0	N	N	2 323.6	N	N	80.2	N	N
1999	24.0	N	N	1 550.1	N	N	64.7	N	N
1998	18.7	S	S	1 229.7	S	S	65.9	S	S
1997	26.3	19.3	36.4	1 188.8	1 443.5	-17.6	45.1	74.7	-39.6
1996	18.9	22.1	-14.5	864.7	1 687.8	-48.8	45.7	76.3	-40.0
1995	23.5	32.7	-28.1	1 089.4	2 150.5	-49.3	46.3	65.7	-29.5
1994	14.2	22.2	-36.1	475.7	1 358.8	-65.0	33.6	61.3	-45.2
1993	11.1	18.3	-39.4	420.4	1 162.2	-63.8	37.8	63.4	-40.3
Pre-1993	101.5	212.3	-52.2	1 203.6	5 088.1	-76.3	11.9	24.0	-50.5
VEHICLE ACQUISITION									
New	164.8	166.0	-7	8 455.1	7 778.1	8.7	51.3	46.9	9.5
Used	107.5	123.5	-13.0	2 952.0	2 175.0	35.7	27.5	17.6	56.0
Not reported	20.3	47.0	-56.7	1 227.0	3 432.3	-64.3	60.3	73.0	-17.4
LEASE CHARACTERISTICS									
Leased	43.1	N	N	3 214.6	N	N	74.7	N	N
Lessee	27.4	N	N	2 472.8	N	N	90.2	N	N
Vehicle only	22.2	N	N	1 999.6	N	N	89.9	N	N
Vehicle with driver	5.2	N	N	473.1	N	N	91.5	N	N
Not reported	V	N	N	V	N	N	V	N	N
Lessor	15.0	N	N	690.3	N	N	46.0	N	N
Vehicle only	11.0	N	N	400.5	N	N	36.4	N	N
Vehicle with driver	3.7	N	N	273.8	N	N	74.1	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	171.9	N	N	6 400.5	N	N	37.2	N	N
Not reported	77.6	N	N	3 019.0	N	N	38.9	N	N
Length of leasing agreement:									
Leased	43.1	N	N	3 214.6	N	N	74.7	N	N
1 to 11 months	4.8	N	N	325.4	N	N	68.1	N	N
12 months or more	37.2	N	N	2 806.2	N	N	75.4	N	N
Not reported	1.0	N	N	82.9	N	N	80.1	N	N
Provisions of lease ⁴ :									
Financing only	23.8	N	N	1 843.1	N	N	77.4	N	N
Full maintenance	11.9	N	N	646.1	N	N	54.3	N	N
Payment of taxes	13.8	N	N	824.4	N	N	59.6	N	N
Obtaining licenses and permits	15.2	N	N	875.5	N	N	57.5	N	N
Recordkeeping	7.2	N	N	477.2	N	N	65.9	N	N
Fuel contract	4.1	N	N	319.8	N	N	77.6	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	142.2	N	N	1 891.7	N	N	13.3	N	N
Motor carrier	102.6	N	N	7 719.9	N	N	75.3	N	N
Owner operator	32.9	N	N	2 624.2	N	N	79.8	N	N
Rental	9.9	N	N	393.5	N	N	39.7	N	N
Personal transportation .....	.9	N	N	S	N	N	S	N	N
Not applicable ²	4.1	N	N	V	N	N	V	N	N
For-hire characteristics:									
Type of carrier:									
Contract	56.6	N	N	4 211.1	N	N	74.4	N	N
Common	67.6	N	N	5 350.3	N	N	79.2	N	N
Not reported	11.3	N	N	782.8	N	N	69.5	N	N
Not applicable ⁵	157.2	N	N	2 290.0	N	N	14.6	N	N
Type of service:									
Truckload	75.5	42.9	76.1	6 185.4	3 380.4	83.0	81.9	78.9	3.9
Less-than-truckload	49.0	49.7	-1.4	3 360.5	3 759.1	-10.6	68.6	75.7	-9.4
Not reported	11.0	N	N	798.3	N	N	72.7	N	N
Not applicable ⁵	157.2	N	N	2 290.0	N	N	14.6	N	N
Source of hauls:									
Shippers or receivers	101.6	N	N	7 910.2	N	N	77.9	N	N
Brokers	6.7	N	N	525.2	N	N	78.2	N	N
Centralized markets or exchanges	1.3	N	N	97.7	N	N	74.2	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	25.8	N	N	1 811.0	N	N	70.1	N	N
Not applicable ⁵	157.2	N	N	2 290.0	N	N	14.6	N	N
HAZARDOUS MATERIALS CARRIED⁶									
Carrying hazardous materials	31.0	44.7	-30.5	2 769.1	3 913.9	-29.2	89.2	87.6	1.8
Not carrying hazardous materials	219.1	255.3	-14.2	8 355.2	8 105.9	3.1	38.1	31.7	20.1
Not reported	27.4	36.5	-24.9	1 111.6	1 365.5	-18.6	40.5	37.4	8.4
Not applicable ⁷	15.0	N	N	398.2	N	N	26.6	N	N
EQUIPMENT TYPE⁴									
Aerial work platform/bucket	5.5	N	N	35.2	N	N	6.4	N	N
Air bag(s) (safety device only)	21.4	33.5	-36.0	947.3	2 641.1	-64.1	44.2	78.8	-43.9
Air compressor (except air brakes)	30.0	N	N	2 224.4	N	N	74.2	N	N
Air-conditioning	156.4	154.2	1.4	10 078.6	10 369.8	-2.8	64.4	67.2	-4.2
Air springs	65.3	N	N	5 454.3	N	N	83.6	N	N

See footnotes at end of table.

Table 3a. Trucks, Truck Miles, and Average Annual Miles for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities: 2002 and 1997—Con.

[Estimates are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE⁴—Con.									
Antilock brake system	101.9	58.4	74.4	7 155.1	3 536.8	102.3	70.2	60.5	16.0
Collision warning system	5.3	N	N	314.2	N	N	59.0	N	N
Computerized drive train control unit	13.0	N	N	969.2	N	N	74.3	N	N
Crane	3.1	N	N	38.2	N	N	12.3	N	N
Electronic vehicle identification device	15.9	27.5	-42.1	1 622.9	2 242.3	-27.6	101.9	81.6	24.9
Engine retarder/brake	52.2	60.4	-13.5	4 705.8	4 684.1	.5	90.2	77.6	16.2
Front-wheel drive	V	V	N	V	V	N	V	V	N
Hoist	30.9	N	N	176.6	N	N	5.7	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	23.4	N	N	2 010.3	N	N	85.8	N	N
Internet access	1.7	N	N	170.9	N	N	101.0	N	N
Lift gate	9.4	N	N	149.9	N	N	15.9	N	N
Mounting bar for snowplow	2.9	N	N	26.6	N	N	9.3	N	N
Navigational system	1.7	6.2	-72.9	116.6	505.5	-76.9	68.9	80.9	-14.9
Power take-off	72.7	N	N	2 171.3	N	N	29.8	N	N
Radial tires	188.3	219.3	-14.1	9 685.9	10 934.0	-11.4	51.4	49.9	3.1
Reflective material in addition to those required by law	52.1	96.3	-45.9	2 710.0	5 422.8	-50.0	52.0	56.3	-7.6
Road speed governor	110.9	115.7	-4.2	8 051.1	7 723.2	4.2	72.6	66.7	8.8
Toolbox	52.2	N	N	1 995.2	N	N	38.2	N	N
Trip recorder or on-board computer with communication capabilities	34.7	N	N	2 625.8	N	N	75.6	N	N
Trip recorder or on-board computer without communication capabilities	20.9	N	N	1 468.6	N	N	70.4	N	N
Vehicle control aids for handicapped drivers	V	V	N	V	V	N	V	V	N
Wheelchair lift	V	V	N	V	V	N	V	V	N
Winch	11.7	N	N	243.5	N	N	20.9	N	N
Transmission type:									
Automatic	65.4	N	N	905.5	N	N	13.8	N	N
Manual	202.7	N	N	10 100.9	N	N	49.8	N	N
Semiautomated manual	2.1	N	N	160.7	N	N	78.2	N	N
Automated manual	1.5	N	N	186.4	N	N	126.3	N	N
Not reported	20.9	N	N	1 280.6	N	N	61.2	N	N
Braking system:									
Hydraulic (standard)	59.4	59.8	-6	665.9	584.1	14.0	11.2	9.8	14.7
Hydraulic with power assist	46.9	66.4	-29.4	658.8	826.3	-20.3	14.1	12.5	12.9
Air	157.6	177.6	-11.3	10 000.3	10 879.8	-8.1	63.5	61.3	3.6
Other	V	S	S	V	S	S	V	S	S
Not reported	28.7	N	N	1 309.2	N	N	45.7	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	67.3	95.0	-29.2	475.0	661.2	-28.2	7.1	7.0	1.5
Diesel	220.2	231.3	-4.8	12 155.3	12 613.8	-3.6	55.2	54.5	1.2
Natural gas	V	N	N	V	N	N	V	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	V	N	N	V	N	N	V	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ²	4.1	N	N	V	N	N	V	N	N
Cylinders⁸:									
4 cylinders	5.1	4.5	14.4	76.6	80.8	-5.3	15.0	18.1	-17.2
6 cylinders	191.6	199.1	-3.7	11 475.1	12 005.2	-4.4	59.9	60.3	-7
8 cylinders	75.6	86.7	-12.8	921.7	810.6	13.7	12.2	9.3	30.3
Other	20.2	46.3	-56.3	160.8	488.7	-67.1	7.9	10.6	-24.7
Cubic inch displacement⁸:									
Gasoline fuel	67.3	95.0	-29.2	475.0	661.2	-28.2	7.1	7.0	1.5
Less than 200	V	S	S	V	S	S	V	S	S
200 to 299	3.4	3.9	-11.8	40.9	49.6	-17.4	11.9	12.7	-6.4
300 to 349	S	2.5	S	60.8	41.6	46.0	S	16.9	S
350 to 399	27.5	37.6	-26.8	259.6	331.1	-21.6	9.4	8.8	7.2
400 or more	11.1	12.4	-10.2	84.8	118.9	-28.6	7.6	9.6	-20.5
Not available	16.0	37.6	-57.6	28.8	103.0	-72.0	1.8	2.7	-34.1
Diesel fuel	220.2	231.3	-4.8	12 155.3	12 613.8	-3.6	55.2	54.5	1.2
Less than 400	17.7	16.2	8.9	267.6	260.5	2.7	15.1	16.0	-5.7
400 to 599	58.3	45.5	28.1	1 141.6	957.8	19.2	19.6	21.0	-7.0
600 to 799	86.9	80.9	7.4	6 200.0	5 616.0	10.4	71.3	69.4	2.8
800 or more	33.9	60.1	-43.7	2 596.7	4 378.2	-40.7	76.7	72.8	5.3
Not available	23.4	28.5	-17.9	1 949.4	1 401.4	39.1	83.5	49.2	69.5
Other fuel	1.0	2.8	-64.0	S	19.7	S	S	7.0	S
Less than 400	S	S	S	S	S	S	S	S	S
400 or more	S	S	S	S	S	S	S	S	S
Not available	S	1.0	S	S	S	S	S	S	S
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ²	4.1	N	N	V	N	N	V	N	N
REFUELING LOCATION									
Gas station	93.4	N	N	1 369.7	N	N	14.7	N	N
Truck stop	74.5	N	N	6 181.2	N	N	83.0	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	111.7	N	N	4 574.5	N	N	41.0	N	N
Other company's/contractor's facility not open to the public	4.0	N	N	308.3	N	N	76.5	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	4.8	N	N	200.5	N	N	41.6	N	N
Not applicable ²	4.1	N	N	V	N	N	V	N	N

See footnotes at end of table.

Table 3a. Trucks, Truck Miles, and Average Annual Miles for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities: 2002 and 1997—Con.

[Estimates are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁴									
General maintenance performed by:									
None performed	S	1.6	S	S	S	S	S	S	S
Company-owned maintenance facility	151.9	151.6	.2	8 163.2	8 240.0	-9	53.8	54.4	-1.1
General repair business or private mechanic	92.2	76.4	20.6	4 237.9	2 689.9	57.5	46.0	35.2	30.7
Dealership service department	35.6	34.6	2.8	2 330.1	1 547.5	50.6	65.5	44.7	46.5
Leasing company	3.6	6.5	-44.7	306.4	405.2	-24.4	85.4	62.5	36.7
Individual not employed/paid by any maintenance type facility:									
Other	46.8	94.1	-50.2	1 324.0	2 037.9	-35.0	28.3	21.7	30.6
Not reported	V	1.9	N	V	153.3	N	V	82.7	N
Not applicable ²	12.5	32.9	-62.0	793.7	1 045.3	-24.1	63.4	31.8	99.6
	4.1	N	N	V	N	N	V	N	N
Extensive repairs performed by:									
None performed	216.3	8.2	2 547.8	8 806.4	124.9	6 948.9	40.7	15.3	166.2
Company-owned maintenance facility	21.8	80.4	-72.8	1 110.2	4 624.0	-76.0	50.8	57.5	-11.7
General repair business or private mechanic	21.8	63.1	-65.5	983.4	1 664.5	-40.9	45.1	26.4	71.0
Dealership service department	16.5	57.0	-71.0	1 248.5	2 871.6	-56.5	75.6	50.4	50.1
Leasing company	S	3.8	S	S	151.9	S	S	40.2	S
Component distributorship (engine, transmission, body, etc.):									
Individual not employed/paid by any repair type facility	2.6	23.7	-88.8	198.1	1 557.9	-87.3	74.8	65.7	14.0
Other	6.0	16.4	-63.3	221.8	300.0	-26.1	36.8	18.2	101.5
Not reported	V	1.2	N	V	S	S	V	S	S
Not applicable ²	S	117.1	S	S	3 493.0	S	S	29.8	S
	4.1	N	N	V	N	N	V	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	145.8	171.7	-15.1	1 775.2	1 825.7	-2.8	12.2	10.6	14.5
3 axles	125.5	146.8	-14.5	1 508.6	1 448.6	4.1	12.0	9.9	21.8
4 axles	19.4	22.6	-14.5	262.5	349.6	-24.9	13.6	15.4	-12.2
5 axles or more	.6	2.2	-73.0	S	27.5	S	S	12.5	S
Not reported	S	N	N	V	N	N	S	N	N
	S	V	S	S	V	S	S	V	S
Combinations:									
Single-unit trucks with trailer:	146.8	164.9	-11.0	10 858.9	11 559.7	-6.1	74.0	70.1	5.5
3 axles	10.1	8.7	15.1	115.1	110.7	4.0	11.4	12.7	-9.7
4 axles	2.7	1.9	41.7	29.5	13.8	114.7	10.8	7.1	51.5
5 axles or more	6.0	6.3	-4.6	68.5	92.8	-26.2	11.4	14.7	-22.6
Not reported	1.3	S	S	17.1	S	S	13.0	S	S
	V	N	N	V	N	N	V	N	N
Truck-tractors with single trailer:	120.4	130.5	-7.8	8 681.9	8 963.7	-3.1	72.1	68.7	5.0
3 axles	5.7	4.5	25.5	132.6	216.9	-38.9	23.2	47.7	-51.3
4 axles	14.1	14.4	-2.1	669.7	614.9	8.9	47.6	42.8	11.2
5 axles or more	100.2	111.6	-10.3	7 876.6	8 131.9	-3.1	78.6	72.9	7.9
Not reported	S	N	N	S	N	N	S	N	N
Truck-tractors with double trailers:	15.4	25.2	-39.1	1 869.0	2 461.8	-24.1	121.5	97.5	24.6
5 axles	12.0	16.7	-28.1	1 434.5	1 734.8	-17.3	119.7	104.1	14.9
6 axles	2.7	7.1	-62.4	351.4	615.4	-42.9	132.1	87.1	51.8
7 axles	S	1.3	S	S	99.4	S	S	73.8	S
8 axles or more	.6	S	S	S	S	S	S	S	S
Not reported	V	N	N	V	N	N	V	N	N
Truck-tractors with triple trailers:	1.0	S	S	192.9	S	S	202.4	S	S
7 axles	1.0	V	N	192.9	V	N	202.4	V	N
8 axles	V	S	S	V	S	S	V	S	S
9 axles	V	S	S	V	S	S	V	S	S
10 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	N	N	V	N	N
Driving axles:									
1	165.9	197.8	-16.1	4 055.2	4 939.1	-17.9	24.4	25.0	-2.1
2	124.7	135.8	-8.2	8 564.5	8 337.7	2.7	68.7	61.4	11.9
3 or more	1.3	2.9	-53.5	12.1	108.6	-88.9	9.1	37.9	-76.1
Not reported	.6	V	N	S	V	S	S	V	S
Total liftable axles and locations ⁹ :									
None	285.6	122.9	132.4	12 403.6	5 329.7	132.7	43.4	43.4	.2
1	5.8	4.6	24.8	215.1	85.5	151.6	37.1	18.4	101.7
Forward of the drive axle	1.9	N	N	150.7	N	N	79.0	N	N
Below the chassis	1.7	N	N	S	N	N	S	N	N
Beyond the chassis	1.5	N	N	12.1	N	N	8.1	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	V	S	S	V	S	S	V	S	S
Forward of the drive axle	V	N	N	V	N	N	V	N	N
Below the chassis	V	N	N	V	N	N	V	N	N
Beyond the chassis	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	1.2	N	N	15.4	N	N	13.0	N	N
Total liftable axles and number of braking axles:									
None	285.6	122.9	132.4	12 403.6	5 329.7	132.7	43.4	43.4	.2
1	5.8	4.6	24.8	215.1	85.5	151.6	37.1	18.4	101.7
0 braking	1.8	N	N	63.7	N	N	34.8	N	N
1 braking	3.6	N	N	144.2	N	N	40.0	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	V	S	S	V	S	S	V	S	S
0 braking	V	N	N	V	N	N	V	N	N
1 braking	V	N	N	V	N	N	V	N	N
2 or more braking	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	1.2	N	N	15.4	N	N	13.0	N	N

See footnotes at end of table.

Table 3a. Trucks, Truck Miles, and Average Annual Miles for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities: 2002 and 1997—Con.

[Estimates are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
CAB TYPE									
Conventional cab	255.0	252.1	1.2	11 181.6	10 266.0	8.9	43.8	40.7	7.7
With sleeper	51.6	N	N	5 073.1	N	N	98.4	N	N
Without sleeper	189.1	N	N	5 029.4	N	N	26.6	N	N
Not reported	14.4	N	N	1 079.2	N	N	75.0	N	N
Cab over engine	37.0	38.2	-2.9	1 447.5	1 914.9	-24.4	39.1	50.2	-22.1
With sleeper	7.7	N	N	770.7	N	N	100.2	N	N
Without sleeper	28.8	N	N	638.7	N	N	22.2	N	N
Not reported .....	.6	N	N	S	N	N	S	N	N
Cab forward of engine	S	8.2	S	S	105.2	S	S	12.8	S
Cab beside engine	V	1.6	N	V	S	S	V	S	S
Not reported	S	N	N	S	N	N	S	N	N

N Not available. S Estimate does not meet publication standards because of high sampling variability or poor response quality. V Represents an estimate of less than 50 vehicles, 50,000 miles, or 0.05 percent.

¹Comparability of estimates may vary across survey years due to changes in category definitions.

²Vehicles not in use. When the respondent had partial-year ownership of the vehicle, annual miles were adjusted to reflect miles traveled when not owned by the respondent.

³Truck-tractors not in use.

⁴Detail lines do not add to total trucks because items were not applicable or multiple responses were possible.

⁵Vehicles that are private, rental, or used for personal transportation; and vehicles not in use.

⁶Distributed miles data are available in Table 8.

⁷Vehicles that are rental or used for personal transportation; and vehicles not in use.

⁸Data were derived from administrative records.

⁹Detail lines do not add to the subtotal line because items were not applicable or multiple responses were possible. When 2 or 3 liftable axles were indicated, respondents properly reported multiple responses, therefore detail lines will be significantly greater than the corresponding subtotal line.

Note: Use caution when assessing the true increase or decrease in any particular data line. Large changes in the "not reported" or "not applicable" estimates should be taken into account.

Note: Table 3b provides estimated measures of sampling variability. The Introduction gives information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to this information on the Internet may be found at www.census.gov/svsd/www/02vehinv.html.

Table 3b. Trucks, Truck Miles, and Average Annual Miles for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities—Measures of Sampling Variability: 2002 and 1997

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Columns A, B, D, E, G, H show estimated coefficients of variation. Columns C, F, and I show estimated standard errors]

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
Total	3.1	.8	2.8	2.8	1.9	3.2	2.9	2.0	3.8
BUSINESS									
For-hire transportation or warehousing	5.8	2.9	7.2	3.7	3.3	5.6	3.7	2.5	4.5
Vehicle leasing or rental	13.6	19.4	27.0	16.3	21.7	67.1	10.5	13.8	37.8
Agriculture, forestry, fishing, or hunting	7.1	6.8	6.3	17.4	14.0	15.0	16.1	12.8	21.5
Mining	30.5	47.4	99.8	40.7	S	S	31.2	S	S
Utilities	14.4	16.5	17.6	18.9	21.0	23.6	12.6	13.0	18.8
Construction	6.4	6.4	6.4	9.6	8.9	6.7	7.3	7.3	7.5
Manufacturing	35.2	12.2	42.8	16.9	16.3	16.0	34.3	13.0	21.8
Wholesale trade	11.7	8.8	7.1	17.3	10.1	5.8	13.3	7.1	9.0
Retail trade	12.8	11.5	9.9	19.5	13.9	11.6	15.8	10.7	16.0
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	11.6	N	N	18.4	N	N	15.4	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	20.9	N	N	30.3	N	N	22.6	N	N
Other services	17.8	N	N	20.8	N	N	10.8	N	N
Personal transportation	45.2	33.0	18.8	S	37.3	S	S	22.7	S
Not reported	16.7	N	N	24.8	N	N	19.5	N	N
Not applicable ¹	21.4	22.2	21.4	N	S	S	N	S	S
BODY TYPE									
Single-unit trucks	6.0	1.6	5.3	12.6	4.7	13.1	9.2	4.4	11.6
Armored	S	N	N	S	N	N	S	N	N
Beverage	30.1	40.2	64.4	34.2	41.4	105.7	16.7	8.3	28.6
Concrete mixer	19.7	19.5	24.3	25.5	23.0	22.8	16.1	12.1	15.3
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	S	47.6	S	S	S	S	S	S	S
Curtainside	N	N	N	N	N	N	N	N	N
Dump	8.0	11.0	16.1	15.6	15.1	20.2	13.7	11.7	14.1
Flatbed, stake, or platform	22.0	7.7	16.0	16.3	12.7	14.9	21.5	10.2	25.0
Low boy	N	S	S	N	S	S	N	S	S
Pole, logging, pulpwood, or pipe	S	S	S	S	S	S	S	S	S
Service, utility	12.8	17.5	24.2	18.7	22.7	48.3	13.6	14.2	29.0
Service, other	20.9	22.8	23.0	25.8	29.0	36.4	15.1	17.6	29.2
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	27.8	S	S	31.5	S	S	16.5	S	S
Tank, liquids or gases	17.4	21.7	26.9	24.1	28.5	45.6	16.2	20.6	33.1
Tow/Wrecker	21.7	28.9	41.1	37.7	40.0	46.1	30.3	26.1	29.5
Trash, garbage, or recycling	22.5	19.1	16.1	26.4	20.8	18.6	14.5	12.3	19.3
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	9.7	11.4	12.8	12.4	14.9	14.8	7.9	10.3	11.6
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	21.7	25.2	29.4	27.2	27.4	39.7	17.3	12.5	24.8
Van, open top	16.1	10.4	5.5	31.1	15.9	7.1	27.1	12.9	21.2
Van, step, walk-in, or multistop	26.2	12.4	37.7	43.7	14.9	77.3	18.7	8.4	26.3
Van, other	28.8	N	N	36.3	N	N	21.2	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	1.6	1.1	1.7	2.5	2.2	3.1	2.1	2.0	3.1
Automobile carrier	28.7	37.6	74.1	32.3	38.3	58.6	15.2	7.4	12.7
Beverage	24.5	29.1	44.3	26.4	33.1	27.5	11.1	14.0	10.0
Curtainside	S	N	N	S	N	N	S	N	N
Dump	10.6	11.5	15.6	13.4	13.9	21.5	8.3	7.9	12.7
Flatbed, stake, or platform	10.6	9.1	9.4	12.5	10.8	11.0	6.9	5.9	9.0
Livestock	S	S	S	S	S	S	S	S	S
Low boy	26.5	19.7	16.2	31.4	25.6	27.9	17.0	16.4	33.0
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	23.3	22.1	25.4	31.7	31.0	56.6	21.5	21.8	49.5
Pole, logging, pulpwood, or pipe	44.5	S	S	49.0	S	S	20.5	S	S
Tank, dry bulk	22.1	22.1	27.4	24.1	23.5	34.2	9.6	8.0	14.5
Tank, liquids or gases	12.1	14.1	20.8	13.7	15.4	22.3	6.4	6.4	8.7
Van, basic enclosed	3.5	3.5	4.7	4.3	4.3	6.1	2.6	2.7	4.0
Van, drop-frame	18.7	15.2	14.7	22.8	18.3	25.4	13.6	10.2	24.2
Van, insulated nonrefrigerated	33.1	17.9	9.9	34.6	19.4	10.4	10.1	7.3	12.5
Van, insulated refrigerated	12.2	11.3	12.8	13.7	12.7	16.1	6.3	5.8	9.6
Other	N	N	N	N	N	N	N	N	N
Not applicable ²	S	N	N	N	N	N	S	N	N
ANNUAL MILES									
Less than 5,000	10.8	5.5	10.7	10.0	7.0	9.6	4.5	4.3	5.5
5,000 to 9,999	7.3	8.2	9.0	7.5	8.4	9.3	1.7	2.0	2.7
10,000 to 19,999	6.4	6.5	6.7	6.5	6.6	7.1	1.5	1.5	2.1
20,000 to 29,999	8.0	8.8	10.5	8.0	8.8	10.6	1.0	1.1	1.5
30,000 to 49,999	18.6	7.4	21.3	17.7	7.5	20.4	1.4	1.2	1.8
50,000 to 74,999	7.7	7.5	9.0	7.8	7.5	9.1	1.1	1.0	1.5
75,000 or more	3.5	3.4	4.4	3.7	3.6	5.0	1.3	1.3	1.9
Not applicable ¹	21.4	23.3	24.1	N	N	N	N	N	N

See footnotes at end of table.

Table 3b. Trucks, Truck Miles, and Average Annual Miles for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities—Measures of Sampling Variability: 2002 and 1997—Con.

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Columns A, B, D, E, G, H show estimated coefficients of variation. Columns C, F, and I show estimated standard errors]

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	10.7	15.7	21.3	13.3	28.1	433.3	9.1	25.2	333.5
50 miles or less	6.5	2.7	6.5	11.0	5.0	13.8	7.7	4.1	10.7
51 to 100 miles	7.5	7.1	6.9	9.5	8.3	9.6	6.6	5.6	9.8
101 to 200 miles	9.4	8.7	9.3	10.8	10.2	13.7	6.0	6.4	11.1
201 to 500 miles	7.3	6.3	6.4	8.0	7.1	8.0	3.7	4.0	6.1
501 miles or more	6.7	4.4	4.0	7.3	4.8	5.1	3.2	2.0	4.4
Not reported	7.1	23.3	128.4	8.7	N	N	5.9	N	N
Not applicable	21.4	N	N	N	N	N	N	N	N
PRIMARY JURISDICTION									
Operated in Canada	S	N	N	S	N	N	S	N	N
Operated in Mexico	N	N	N	N	N	N	N	N	N
Operated within the home base state	4.6	N	N	6.0	N	N	4.5	N	N
Operated in states other than the home base state	3.6	N	N	4.1	N	N	2.3	N	N
Not reported	11.1	N	N	13.7	N	N	9.5	N	N
Not applicable ¹	21.4	N	N	N	N	N	N	N	N
MONTHS OPERATED									
12	5.1	N	N	3.6	N	N	4.1	N	N
7 to 11	5.3	N	N	7.7	N	N	6.1	N	N
2 to 6	6.5	N	N	13.4	N	N	12.1	N	N
1 or less	13.0	N	N	S	N	N	S	N	N
Vehicle not used	21.4	N	N	N	N	N	N	N	N
VEHICLE SIZE									
Light	20.7	8.3	18.1	12.4	13.4	12.1	18.5	10.5	17.4
Medium	13.9	5.8	11.5	29.7	9.3	36.1	17.0	7.4	28.0
Light-heavy	6.9	9.1	11.6	11.9	15.0	25.8	9.7	12.1	20.6
Heavy-heavy	1.5	1.5	1.9	2.4	2.1	3.0	2.3	2.3	3.4
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	37.8	20.5	9.1	48.9	36.3	8.3	30.2	29.3	27.1
6,001 to 8,500	14.0	N	N	19.1	N	N	12.8	N	N
8,501 to 10,000	31.9	N	N	17.4	N	N	27.9	N	N
10,001 to 14,000	8.4	8.9	8.7	12.2	12.9	13.7	8.8	9.6	14.1
14,001 to 16,000	39.0	12.6	37.8	S	18.6	S	S	14.0	S
16,001 to 19,500	15.2	15.9	15.1	25.6	24.0	23.4	20.4	18.3	26.6
19,501 to 26,000	6.9	9.1	11.6	11.9	15.0	25.8	9.7	12.1	20.6
26,001 to 33,000	9.9	10.4	10.9	16.5	14.0	12.2	13.6	10.7	12.7
33,001 to 40,000	12.6	12.3	14.5	19.2	16.0	17.2	14.9	12.1	16.0
40,001 to 50,000	9.1	6.3	4.9	14.3	8.0	5.7	11.2	5.1	9.6
50,001 to 60,000	9.3	9.0	11.8	12.4	11.5	9.3	8.3	7.2	6.6
60,001 to 80,000	2.1	2.5	3.5	3.0	3.4	5.0	2.2	2.4	3.4
80,001 to 100,000	40.5	35.2	35.3	46.4	37.2	37.1	22.6	12.2	24.4
100,001 to 130,000	30.1	N	N	33.7	N	N	14.4	N	N
130,001 or more	N	N	N	N	N	N	N	N	N
TOTAL LENGTH (FEET)									
Less than 20.0	14.5	6.0	16.1	27.9	9.7	41.1	19.7	7.7	28.6
20.0 to 27.9	5.0	4.6	4.4	8.6	8.2	7.4	7.1	6.9	9.4
28.0 to 35.9	8.1	9.9	13.2	12.3	12.3	18.7	9.4	8.5	13.2
36.0 to 40.9	13.2	15.7	23.3	17.4	19.7	44.8	12.0	14.3	28.0
41.0 to 44.9	20.6	17.2	18.0	26.9	20.5	13.4	19.5	12.3	13.6
45.0 to 49.9	21.0	15.7	14.9	27.5	21.0	12.8	20.4	14.4	16.2
50.0 to 54.9	11.2	19.4	57.0	14.4	23.1	60.7	9.9	14.2	15.2
55.0 to 59.9	8.2	8.9	13.0	10.3	10.9	15.7	6.3	6.5	8.8
60.0 to 64.9	7.8	5.9	5.7	9.2	6.7	5.9	5.1	3.1	5.3
65.0 to 69.9	6.4	6.1	7.4	7.3	7.2	9.5	3.6	3.8	5.8
70.0 to 74.9	5.7	6.8	10.5	6.3	7.9	13.9	2.8	4.0	5.6
75.0 to 79.9	14.1	N	N	15.7	N	N	6.9	N	N
80.0 or more	41.1	N	N	41.5	N	N	8.2	N	N
MILES PER GALLON									
Less than 5	9.2	9.9	11.4	13.9	14.0	20.7	11.0	11.6	19.9
5 to 6.9	2.5	2.8	3.2	3.2	3.3	4.7	2.7	3.0	4.8
7 to 8.9	6.6	5.1	4.0	10.7	6.8	4.6	8.8	5.6	7.9
9 to 10.9	20.3	8.1	18.7	40.1	11.9	47.7	21.0	9.0	30.6
11 to 12.9	31.0	13.7	43.6	16.9	19.5	19.8	27.7	13.9	18.5
13 to 14.9	18.7	24.9	34.3	29.4	32.2	63.1	22.6	22.5	41.8
15 or more	14.7	20.2	29.5	23.1	24.7	77.7	18.2	17.2	48.8
15 to 20.9	14.7	20.2	29.5	23.1	24.7	77.7	18.2	17.2	48.8
21 to 24.9	N	N	N	N	N	N	N	N	N
25 or more	N	N	N	N	N	N	N	N	N
Not reported	6.1	9.1	17.5	8.5	11.3	20.9	6.6	9.1	10.5
Not applicable ¹	21.4	N	N	N	N	N	N	N	N

See footnotes at end of table.

Table 3b. Trucks, Truck Miles, and Average Annual Miles for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities—Measures of Sampling Variability: 2002 and 1997—Con.

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Columns A, B, D, E, G, H show estimated coefficients of variation. Columns C, F, and I show estimated standard errors]

Vehicle and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	38.0	N	N	43.4	N	N	25.8	N	N
2002	13.0	N	N	14.2	N	N	7.0	N	N
2001	10.2	N	N	12.4	N	N	7.9	N	N
2000	7.1	N	N	8.3	N	N	5.4	N	N
1999	8.1	N	N	9.5	N	N	6.3	N	N
1998	9.2	S	S	11.0	S	S	7.1	S	S
1997	25.6	9.6	37.2	21.0	10.6	19.4	8.6	6.5	6.5
1996	9.0	9.3	11.1	10.9	10.1	7.6	7.2	6.7	5.9
1995	8.2	7.7	8.1	10.7	8.7	7.0	7.7	6.2	7.0
1994	10.8	9.5	9.2	14.8	10.5	6.4	11.2	7.1	7.3
1993	12.2	11.0	9.9	16.1	11.9	7.2	11.8	8.5	8.7
Pre-1993	6.8	2.1	3.4	7.4	4.2	2.0	8.3	3.7	4.5
VEHICLE ACQUISITION									
New	5.8	2.8	6.4	4.3	3.6	6.1	4.7	3.1	6.2
Used	3.2	3.7	4.2	5.9	6.3	11.7	5.1	5.4	11.6
Not reported	8.5	5.9	4.5	10.3	6.4	4.3	7.0	4.1	6.7
LEASE CHARACTERISTICS									
Leased	5.6	N	N	6.8	N	N	4.5	N	N
Lessee	7.1	N	N	8.3	N	N	4.9	N	N
Vehicle only	8.1	N	N	9.5	N	N	5.8	N	N
Vehicle with driver	16.5	N	N	18.1	N	N	7.3	N	N
Not reported	N	N	N	N	N	N	N	N	N
Lessor	10.3	N	N	12.6	N	N	8.4	N	N
Vehicle only	12.4	N	N	15.7	N	N	10.9	N	N
Vehicle with driver	19.7	N	N	22.1	N	N	10.0	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	5.6	N	N	5.2	N	N	4.6	N	N
Not reported	4.1	N	N	6.5	N	N	5.3	N	N
Length of leasing agreement:									
Leased	5.6	N	N	6.8	N	N	4.5	N	N
1 to 11 months	17.8	N	N	20.0	N	N	10.7	N	N
12 months or more	6.1	N	N	7.4	N	N	5.0	N	N
Not reported	37.6	N	N	46.6	N	N	27.5	N	N
Provisions of lease:									
Financing only	8.0	N	N	9.6	N	N	6.3	N	N
Full maintenance	11.9	N	N	15.7	N	N	11.7	N	N
Payment of taxes	10.7	N	N	12.5	N	N	7.9	N	N
Obtaining licenses and permits	10.2	N	N	12.0	N	N	7.7	N	N
Recordkeeping	15.1	N	N	17.2	N	N	10.5	N	N
Fuel contract	19.1	N	N	21.1	N	N	10.4	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	4.8	N	N	5.4	N	N	6.1	N	N
Motor carrier	7.0	N	N	4.7	N	N	4.3	N	N
Owner operator	6.1	N	N	7.0	N	N	3.9	N	N
Rental	13.1	N	N	15.9	N	N	10.5	N	N
Personal transportation	45.2	N	N	S	N	N	S	N	N
Not applicable ¹	21.4	N	N	N	N	N	N	N	N
For-hire characteristics:									
Type of carrier:									
Contract	12.2	N	N	7.5	N	N	6.9	N	N
Common	4.0	N	N	4.8	N	N	3.2	N	N
Not reported	12.1	N	N	14.5	N	N	9.8	N	N
Not applicable ³	4.3	N	N	5.1	N	N	5.7	N	N
Type of service:									
Truckload	3.3	5.7	11.6	3.9	6.3	13.6	2.4	3.4	4.3
Less-than truckload	14.2	5.6	15.0	9.5	6.3	10.2	8.0	4.3	8.2
Not reported	12.1	N	N	14.4	N	N	9.5	N	N
Not applicable ³	4.3	N	N	5.1	N	N	5.7	N	N
Source of hauls:									
Shippers or receivers	7.0	N	N	4.6	N	N	4.3	N	N
Brokers	14.6	N	N	16.3	N	N	7.8	N	N
Centralized markets or exchanges	35.7	N	N	40.0	N	N	20.5	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	7.4	N	N	8.7	N	N	5.5	N	N
Not applicable ³	4.3	N	N	5.1	N	N	5.7	N	N
HAZARDOUS MATERIALS CARRIED⁴									
Carrying hazardous materials	6.7	5.8	6.2	7.9	6.4	7.2	4.8	4.0	6.3
Not carrying hazardous materials	4.3	1.6	4.0	4.0	3.2	5.3	3.7	2.7	5.6
Not reported	7.7	7.6	8.1	11.6	9.6	12.3	9.4	7.6	13.2
Not applicable ⁵	10.7	N	N	15.7	N	N	12.5	N	N

See footnotes at end of table.

Table 3b. Trucks, Truck Miles, and Average Annual Miles for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities—Measures of Sampling Variability: 2002 and 1997—Con.

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Columns A, B, D, E, G, H show estimated coefficients of variation. Columns C, F, and I show estimated standard errors]

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE									
Aerial work platform/bucket	19.2	N	N	23.1	N	N	12.6	N	N
Air bag(s) (safety device only)	8.9	6.9	7.2	12.1	7.6	5.1	9.3	4.4	5.8
Air compressor (except air brakes)	6.7	N	N	7.8	N	N	4.6	N	N
Air-conditioning	2.1	2.4	3.3	2.8	2.7	3.8	2.4	2.4	3.3
Air springs	4.0	N	N	4.7	N	N	2.9	N	N
Antilock brake system	3.2	5.4	11.0	3.9	6.1	14.8	2.9	4.4	6.1
Collision warning system	18.1	N	N	21.7	N	N	14.2	N	N
Computerized drive train control unit	11.0	N	N	12.6	N	N	7.6	N	N
Crane	25.1	N	N	33.5	N	N	23.4	N	N
Electronic vehicle identification device	9.2	7.4	6.8	10.0	8.2	9.3	4.2	4.2	7.5
Engine retarder/brake	4.4	4.5	5.4	5.1	5.0	7.2	2.9	2.7	4.6
Front-wheel drive	N	N	N	N	N	N	N	N	N
Hoist	7.3	N	N	15.8	N	N	14.2	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	28.4	N	N	14.4	N	N	17.2	N	N
Internet access	30.2	N	N	30.7	N	N	8.6	N	N
Lift gate	14.2	N	N	18.4	N	N	11.9	N	N
Mounting bar for snowplow	26.6	N	N	32.9	N	N	19.2	N	N
Navigational system	30.2	16.6	9.3	35.4	17.9	9.1	21.0	8.6	19.3
Power take-off	4.2	N	N	6.9	N	N	5.8	N	N
Radial tires	5.1	2.0	4.7	3.7	2.5	4.0	4.2	2.5	5.0
Reflective material in addition to those required by law	13.4	4.0	7.6	10.6	4.8	5.8	6.3	3.9	6.9
Road speed governor	6.5	3.2	6.9	4.5	3.7	6.1	4.0	3.0	5.5
Toolbox	5.3	N	N	7.7	N	N	6.1	N	N
Trip recorder or on-board computer with communication capabilities	19.5	N	N	11.2	N	N	10.9	N	N
Trip recorder or on-board computer without communication capabilities	8.3	N	N	9.8	N	N	5.8	N	N
Vehicle control aids for handicapped drivers	N	N	N	N	N	N	N	N	N
Wheelchair lift	N	N	N	N	N	N	N	N	N
Winch	12.5	N	N	20.7	N	N	17.1	N	N
Transmission type:									
Automatic	10.3	N	N	7.6	N	N	10.2	N	N
Manual	3.6	N	N	3.5	N	N	2.7	N	N
Semiautomated manual	27.9	N	N	31.9	N	N	18.7	N	N
Automated manual	31.3	N	N	31.6	N	N	3.8	N	N
Not reported	8.3	N	N	10.4	N	N	7.0	N	N
Braking system:									
Hydraulic (standard)	4.7	6.2	7.7	8.5	11.3	16.1	7.1	9.6	13.7
Hydraulic with power assist	14.8	5.7	11.2	35.0	10.3	29.1	21.4	8.8	26.1
Air	1.8	1.8	2.3	2.7	2.5	3.4	2.5	2.4	3.6
Other	N	S	S	N	S	S	N	S	S
Not reported	22.2	N	N	10.2	N	N	21.7	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	9.9	4.1	7.6	8.3	8.0	8.3	9.8	6.9	12.2
Diesel	3.2	1.6	3.4	2.9	2.0	3.4	2.5	2.2	3.4
Natural gas	N	N	N	N	N	N	N	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	N	N	N	N	N	N	N	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ¹	21.4	N	N	N	N	N	N	N	N
Cylinders ⁶ :									
4 cylinders	16.5	22.2	31.6	26.4	27.6	36.2	20.7	19.7	23.7
6 cylinders	3.5	1.8	3.8	2.3	2.2	3.0	3.8	2.3	4.4
8 cylinders	9.3	4.5	9.0	25.0	8.2	30.0	16.6	6.9	23.4
Other	9.0	6.9	5.0	22.8	13.6	8.8	21.6	12.5	18.8
Cubic inch displacement ⁶ :									
Gasoline fuel	9.9	4.1	7.6	8.3	8.0	8.3	9.8	6.9	12.2
Less than 200	N	S	S	N	S	S	N	S	S
200 to 299	24.6	29.8	34.1	37.6	33.2	41.4	28.4	14.6	29.9
300 to 349	S	36.3	S	31.6	49.8	86.1	S	33.0	S
350 to 399	7.9	8.5	8.5	11.2	12.9	13.4	8.1	9.7	13.5
400 or more	13.2	16.2	18.7	18.9	20.8	20.0	13.3	12.9	14.7
Not available	10.7	8.4	5.7	21.3	13.1	7.0	18.6	10.1	13.9
Diesel fuel	3.2	1.6	3.4	2.9	2.0	3.4	2.5	2.2	3.4
Less than 400	9.9	12.9	17.7	14.0	16.3	22.1	9.8	10.7	13.7
400 to 599	12.1	7.3	18.0	20.6	9.8	27.2	9.7	7.2	11.2
600 to 799	3.0	3.5	5.0	4.0	4.4	6.6	2.9	2.9	4.2
800 or more	5.9	4.3	4.1	7.2	5.5	5.4	4.2	3.5	5.8
Not available	7.6	7.6	8.9	9.6	10.4	19.8	6.0	7.6	16.4
Other fuel	44.9	33.0	20.0	S	44.5	S	S	27.8	S
Less than 400	S	S	S	S	S	S	S	S	S
400 or more	S	S	S	S	S	S	S	S	S
Not available	S	47.3	S	S	S	S	S	S	S
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ¹	21.4	N	N	N	N	N	N	N	N

See footnotes at end of table.

Table 3b. Trucks, Truck Miles, and Average Annual Miles for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities—Measures of Sampling Variability: 2002 and 1997—Con.

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Columns A, B, D, E, G, H show estimated coefficients of variation. Columns C, F, and I show estimated standard errors]

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
REFUELING LOCATION									
Gas station	7.3	N	N	6.4	N	N	7.8	N	N
Truck stop	3.5	N	N	4.1	N	N	2.6	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	6.6	N	N	7.1	N	N	4.4	N	N
Other company's/contractor's facility not open to the public	20.1	N	N	25.5	N	N	18.0	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	18.7	N	N	25.3	N	N	19.1	N	N
Not applicable ¹	21.4	N	N	N	N	N	N	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	S	43.2	S	S	S	S	S	S	S
Company-owned maintenance facility	4.9	2.9	5.7	4.4	3.5	5.6	3.3	3.1	4.5
General repair business or private mechanic	3.6	5.2	7.6	5.2	7.0	13.7	4.1	5.8	9.3
Dealership service department	6.5	8.0	10.6	7.9	9.3	18.3	5.4	7.0	12.9
Leasing company	21.5	18.2	15.6	27.2	19.0	25.1	19.4	12.1	31.2
Individual not employed/paid by any maintenance type facility:									
Other	5.7	4.5	3.6	10.0	7.7	8.2	8.6	6.8	14.4
Not reported	N	29.9	N	N	35.1	N	N	18.5	N
Not reported	10.7	8.3	5.2	12.6	10.4	12.4	7.4	8.2	22.0
Not applicable ¹	21.4	N	N	N	N	N	N	N	N
Extensive repairs performed by:									
None performed	4.4	18.3	498.0	4.0	28.3	2 012.3	3.9	24.7	66.5
Company-owned maintenance facility	8.6	4.5	2.6	11.4	5.3	3.0	8.4	4.3	8.4
General repair business or private mechanic	8.6	5.9	3.6	11.6	8.2	8.4	8.6	6.8	18.7
Dealership service department	9.6	5.8	3.2	11.4	7.0	5.8	7.2	5.4	13.5
Leasing company	S	25.0	S	S	27.2	S	S	19.1	S
Component distributorship (engine, transmission, body, etc.):									
Individual not employed/paid by any repair type facility	24.3	9.2	2.9	28.3	10.7	3.9	16.9	8.0	21.3
Other	17.2	12.3	7.8	25.0	18.2	22.9	20.2	16.1	52.1
Not reported	N	47.6	N	N	S	S	N	S	S
Not reported	S	3.8	S	S	5.7	S	S	4.9	S
Not applicable ¹	21.4	N	N	N	N	N	N	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	6.4	1.9	5.7	13.4	4.9	13.8	9.8	4.5	12.3
3 axles	7.4	2.2	6.6	15.6	5.8	17.3	11.4	5.3	15.4
4 axles	7.9	7.6	9.4	12.7	10.6	12.4	10.0	7.5	10.9
5 axles or more	49.6	27.0	15.2	S	30.0	S	S	12.9	S
Not reported	S	N	N	N	N	N	N	N	N
Not reported	S	N	S	S	N	S	S	N	S
Combinations:									
Single-unit trucks with trailer:	1.7	1.4	2.0	2.5	2.2	3.1	2.2	2.2	3.3
3 axles	13.9	18.3	26.5	22.2	23.6	33.7	17.4	17.4	22.2
4 axles	27.5	39.7	68.4	47.5	43.1	137.7	38.5	25.9	70.3
5 axles or more	18.4	22.0	27.4	29.2	27.4	29.5	22.7	19.8	23.3
Not reported	35.7	S	S	45.4	S	S	32.0	S	S
Truck-tractors with single trailer:	N	N	N	N	N	N	N	N	N
3 axles	2.0	1.9	2.6	2.9	2.8	3.9	2.2	2.2	3.3
4 axles	16.9	18.9	31.9	22.7	26.1	21.1	14.9	18.0	11.4
5 axles or more	10.8	11.0	15.1	14.3	14.0	21.8	9.5	9.4	14.9
Not reported	2.3	2.3	2.9	3.1	3.1	4.3	2.1	2.2	3.3
Truck-tractors with double trailers:	S	N	N	S	N	N	S	N	N
5 axles	9.5	7.5	7.4	10.4	8.8	10.3	4.4	4.6	7.9
6 axles	10.9	9.5	10.4	11.8	10.7	13.2	4.8	5.0	8.0
7 axles	23.3	15.1	10.4	25.8	18.8	18.2	11.0	11.2	23.9
8 axles or more	S	35.1	S	S	37.7	S	S	13.6	S
Not reported	49.8	S	S	S	S	S	S	S	S
Truck-tractors with triple trailers:	N	N	N	N	N	N	N	N	N
7 axles	41.1	S	S	41.5	S	S	8.2	S	S
8 axles	41.1	N	N	41.5	N	N	8.2	N	N
9 axles	N	S	S	N	S	S	N	S	S
10 axles or more	N	S	S	N	S	S	N	S	S
Not reported	N	N	N	N	N	N	N	N	N
Driving axles:									
1	5.6	1.9	5.0	7.7	5.0	7.5	6.1	4.3	7.3
2	1.8	2.3	2.7	2.9	3.0	4.3	2.4	2.4	3.8
3 or more	32.9	24.0	18.9	45.0	32.2	6.2	30.8	21.4	9.0
Not reported	49.6	N	N	S	N	S	S	N	S
Total liftable axles and locations:									
None	3.2	3.6	11.2	2.8	4.7	12.7	3.0	4.1	5.0
1	16.6	22.4	34.8	27.7	30.6	103.9	22.8	22.8	65.0
Forward of the drive axle	29.0	N	N	34.6	N	N	21.3	N	N
Below the chassis	32.0	N	N	S	N	N	S	N	N
Beyond the chassis	31.2	N	N	36.2	N	N	18.4	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	N	S	S	N	S	S	N	S	S
Forward of the drive axle	N	N	N	N	N	N	N	N	N
Below the chassis	N	N	N	N	N	N	N	N	N
Beyond the chassis	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	35.1	N	N	46.1	N	N	29.9	N	N

See footnotes at end of table.

Table 3b. Trucks, Truck Miles, and Average Annual Miles for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities—Measures of Sampling Variability: 2002 and 1997—Con.

[Estimates are shown as percents and are based on data from the 2002 and 1997 Vehicle Inventory and Use Surveys. Columns A, B, D, E, G, H show estimated coefficients of variation. Columns C, F, and I show estimated standard errors]

Vehicle and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
TRUCK TYPE AND AXLE ARRANGEMENT—Con.									
Total liftable axles and number of braking axles:									
None	3.2	3.6	11.2	2.8	4.7	12.7	3.0	4.1	5.0
1	16.6	22.4	34.8	27.7	30.6	103.9	22.8	22.8	65.0
0 braking	30.5	N	N	43.2	N	N	33.0	N	N
1 braking	20.8	N	N	36.5	N	N	30.4	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	N	S	S	N	S	S	N	S	S
0 braking	N	N	N	N	N	N	N	N	N
1 braking	N	N	N	N	N	N	N	N	N
2 or more braking	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	35.1	N	N	46.1	N	N	29.9	N	N
CAB TYPE									
Conventional cab	2.6	1.7	3.2	2.4	2.8	4.0	3.2	2.6	4.5
With sleeper	4.3	N	N	4.9	N	N	2.4	N	N
Without sleeper	3.6	N	N	4.4	N	N	4.9	N	N
Not reported	9.7	N	N	11.7	N	N	6.4	N	N
Cab over engine	18.4	6.9	19.1	18.0	8.2	14.9	7.4	5.9	7.4
With sleeper	13.5	N	N	15.5	N	N	7.6	N	N
Without sleeper	23.5	N	N	36.1	N	N	14.1	N	N
Not reported	49.8	N	N	S	N	N	S	N	N
Cab forward of engine	S	18.7	S	S	22.8	S	S	13.5	S
Cab beside engine	N	43.2	N	N	S	S	N	S	S
Not reported	S	N	N	S	N	N	S	N	N

N Not available. S Estimate does not meet publication standards because of high sampling variability or poor response quality. V Represents an estimate of less than 50 vehicles, 50,000 miles, or 0.05 percent.

¹Vehicles not in use. When the respondent had partial-year ownership of the vehicle, annual miles were adjusted to reflect miles traveled when not owned by the respondent.
²Truck-tractors not in use.
³Vehicles that are private, rental, or used for personal transportation; and vehicles not in use.
⁴Distributed miles data are available in Table 8.
⁵Vehicles that are rental or used for personal transportation; and vehicles not in use.
⁶Data were derived from administrative records.

Table 4. Trucks by Vehicle Size: 2002

[Thousands. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
Total	3 277.2	2 991.0	74.9	33.9	177.5	X
Coefficient of variation (percent) .....	.7	.9	18.9	6.9	1.5	X
BUSINESS¹						
For-hire transportation or warehousing	135.8	S	S	3.1	106.5	8.5
Vehicle leasing or rental	22.2	S	S	2.4	5.6	41.7
Agriculture, forestry, fishing, or hunting	106.7	70.1	S	9.1	16.5	19.7
Mining	1.8	V	V	S	1.2	30.5
Utilities	22.1	S	2.8	2.8	2.2	40.7
Construction	196.8	165.2	9.0	5.4	17.2	15.8
Manufacturing	30.7	S	2.3	1.4	6.0	36.1
Wholesale trade	45.0	33.2	3.8	2.7	5.3	31.6
Retail trade	87.0	77.8	3.4	1.4	4.4	25.0
Information services	S	S	V	S	V	S
Waste management, landscaping, or administrative/support services	19.1	S	4.0	1.7	5.6	32.9
Arts, entertainment, or recreation services	S	S	V	S	S	S
Accommodation or food services	4.3	S	1.4	S	2.0	20.9
Other services	109.5	105.5	2.0	1.1	.9	23.1
Personal transportation	2 415.1	2 395.8	S	V	V	2.4
Not reported	37.0	31.6	2.4	S	2.4	36.5
Not applicable ²	36.6	33.2	1.0	.9	1.5	38.7
BODY TYPE						
Single-unit trucks	3 139.8	2 991.0	74.9	33.1	40.8	.7
Pickup	1 026.2	1 008.0	S	V	V	1.6
Minivan	823.2	823.2	V	V	V	6.9
Other light vans	253.1	246.6	S	V	V	15.0
Sport utility	882.1	882.1	V	V	V	6.4
Armored	S	V	S	V	V	S
Beverage	2.2	S	S	S	1.1	30.1
Concrete mixer	3.6	V	V	V	3.6	19.7
Concrete pumper	S	V	V	V	S	S
Crane	S	V	V	V	S	S
Curtainside	V	V	V	V	V	N
Dump	26.3	3.0	6.0	6.7	10.7	8.0
Flatbed, stake, or platform	29.1	S	9.4	5.1	5.4	22.0
Low boy	V	V	V	V	V	N
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Service, utility	11.8	3.0	3.7	3.0	2.2	12.8
Service, other	4.7	1.9	1.3	S	.9	20.9
Street sweeper	S	V	V	V	S	S
Tank, dry bulk	2.6	V	S	1.2	1.2	27.8
Tank, liquids or gases	6.1	V	S	1.6	4.1	17.4
Tow/Wrecker	4.2	1.8	2.0	S	S	21.7
Trash, garbage, or recycling	2.9	V	V	S	2.7	22.5
Vacuum	S	V	V	V	S	S
Van, basic enclosed	19.1	3.6	6.1	6.7	2.7	9.7
Van, insulated nonrefrigerated	S	V	V	S	S	S
Van, insulated refrigerated	4.2	V	2.1	1.4	S	21.7
Van, open top	7.4	S	2.0	1.5	3.7	16.1
Van, step, walk-in, or multistop	25.8	7.3	15.5	3.0	V	26.2
Van, other	2.4	S	.9	S	S	28.8
Other	S	V	S	V	V	S
Truck-tractors	137.4	V	V	S	136.7	1.6
Automobile carrier	1.8	V	V	V	1.8	28.7
Beverage	3.0	V	V	V	3.0	24.5
Curtainside	S	V	V	V	S	S
Dump	12.0	V	V	V	12.0	10.6
Flatbed, stake, or platform	12.2	V	V	S	12.0	10.6
Livestock	S	V	V	V	S	S
Low boy	2.1	V	V	V	2.1	26.5
Mobile home toter	S	V	V	V	S	S
Open top	2.7	V	V	V	2.7	23.3
Pole, logging, pulpwood, or pipe .....	.7	V	V	V	.7	44.5
Tank, dry bulk	3.0	V	V	V	3.0	22.1
Tank, liquids or gases	9.5	V	V	V	9.5	12.1
Van, basic enclosed	73.8	V	V	S	73.5	3.5
Van, drop-frame	4.2	V	V	V	4.2	18.7
Van, insulated nonrefrigerated	1.3	V	V	V	1.3	33.1
Van, insulated refrigerated	9.4	V	V	V	9.4	12.2
Other	V	V	V	V	V	N
Not applicable ³	S	V	V	S	S	S
ANNUAL MILES						
Less than 5,000	432.1	385.1	15.2	13.2	18.5	10.4
5,000 to 9,999	709.6	678.0	13.8	5.4	12.4	8.2
10,000 to 19,999	1 511.7	1 458.5	28.7	7.5	17.0	4.6
20,000 to 29,999	356.1	333.6	5.0	3.9	13.6	12.2
30,000 to 49,999	119.0	83.7	S	2.0	23.9	19.8
50,000 to 74,999	41.8	S	1.4	S	21.0	26.1
75,000 or more	70.4	V	S	S	69.6	3.5
Not applicable ²	36.6	33.2	1.0	.9	1.5	38.7
PRIMARY RANGE OF OPERATION						
Off-the-road	26.3	S	1.2	1.2	10.6	35.2
50 miles or less	2 378.3	2 250.3	43.4	24.5	60.1	2.6
51 to 100 miles	250.2	218.4	S	4.7	16.6	14.4
101 to 200 miles	62.2	45.0	1.2	S	15.7	27.3
201 to 500 miles	75.7	44.6	S	S	23.4	23.8
501 miles or more	85.8	56.8	S	S	27.9	22.0
Not reported	362.1	329.2	S	1.2	21.8	11.9
Not applicable ²	36.6	33.2	1.0	.9	1.5	38.7

See footnotes at end of table.

Table 4. Trucks by Vehicle Size: 2002—Con.

[Thousands. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Vehicle size				Coefficient of variation of total (percent)	
	Total	Light	Medium	Light-heavy		Heavy-heavy
PRIMARY JURISDICTION						
Operated in Canada.....	S	S	V	V	S	S
Operated in Mexico.....	V	V	V	V	V	N
Operated within the home base state.....	2 816.0	2 622.7	64.0	31.0	98.3	1.8
Operated in states other than the home base state.....	128.6	57.2	1.1	1.6	68.7	14.9
Not reported.....	289.4	271.4	S	S	8.8	13.7
Not applicable ²	36.6	33.2	1.0	.9	1.5	38.7
MONTHS OPERATED						
12.....	2 512.7	2 326.0	49.0	17.7	120.0	2.4
7 to 11.....	325.1	271.4	14.3	6.0	33.4	12.3
2 to 6.....	334.6	301.3	7.6	6.0	19.7	12.3
1 or less.....	68.3	59.1	3.0	3.3	2.9	27.6
Vehicle not used.....	36.6	33.2	1.0	.9	1.5	38.7
AVERAGE WEIGHT (POUNDS)						
Less than 6,001.....	2 417.1	2 417.1	N	N	N	2.4
6,001 to 8,500.....	511.5	511.5	N	N	N	10.1
8,501 to 10,000.....	62.4	62.4	N	N	N	27.2
10,001 to 14,000.....	36.8	N	36.8	N	N	24.0
14,001 to 16,000.....	23.5	N	23.5	N	N	39.4
16,001 to 19,500.....	14.6	N	14.6	N	N	42.7
19,501 to 26,000.....	33.9	N	N	33.9	N	6.9
26,001 to 33,000.....	18.5	N	N	N	18.5	9.9
33,001 to 40,000.....	11.0	N	N	N	11.0	12.6
40,001 to 50,000.....	16.9	N	N	N	16.9	9.1
50,001 to 60,000.....	16.8	N	N	N	16.8	9.3
60,001 to 80,000.....	111.7	N	N	N	111.7	2.1
80,001 to 100,000.....	.9	N	N	N	.9	40.5
100,001 to 130,000.....	1.7	N	N	N	1.7	30.1
130,001 or more.....	V	N	N	N	V	N
TOTAL LENGTH (FEET)						
Less than 20.0.....	2 836.5	2 782.3	40.1	8.2	5.9	1.4
20.0 to 27.9.....	218.9	169.0	17.0	14.6	18.3	14.2
28.0 to 35.9.....	50.4	27.0	2.2	8.4	12.8	24.8
36.0 to 40.9.....	10.1	S	1.7	1.1	7.1	13.2
41.0 to 44.9.....	4.2	V	S	V	3.6	20.6
45.0 to 49.9.....	22.6	S	S	S	2.9	47.8
50.0 to 54.9.....	18.2	V	S	.9	11.0	34.4
55.0 to 59.9.....	21.5	V	V	V	21.5	8.2
60.0 to 64.9.....	21.9	V	V	S	21.6	7.8
65.0 to 69.9.....	29.7	V	V	V	29.7	6.4
70.0 to 74.9.....	35.2	V	V	V	35.2	5.7
75.0 to 79.9.....	7.1	V	V	V	7.1	14.1
80.0 or more.....	1.0	V	V	V	1.0	41.1
MILES PER GALLON						
Less than 5.....	18.7	1.1	1.4	2.0	14.2	9.2
5 to 6.9.....	122.9	1.8	4.2	7.2	109.7	2.5
7 to 8.9.....	43.5	S	9.7	6.3	18.5	15.1
9 to 10.9.....	134.3	106.8	16.7	6.5	4.2	19.1
11 to 12.9.....	191.4	168.7	18.5	1.7	2.5	17.0
13 to 14.9.....	233.3	229.4	1.4	1.4	S	15.7
15 or more.....	1 991.7	1 980.2	S	1.4	1.6	3.4
15 to 20.9.....	1 571.5	1 560.0	S	1.4	1.6	4.5
21 to 24.9.....	307.8	307.8	V	V	V	13.6
25 or more.....	112.5	112.5	V	V	V	23.1
Not reported.....	504.9	460.7	13.0	6.5	24.8	9.9
Not applicable ²	36.6	33.2	1.0	.9	1.5	38.7
MODEL YEAR						
2003.....	1.1	V	V	V	1.1	38.0
2002.....	194.8	186.1	S	S	7.7	17.2
2001.....	368.8	347.5	S	1.5	12.3	12.0
2000.....	329.1	301.0	4.2	1.7	22.3	12.6
1999.....	362.0	334.2	S	1.8	16.0	12.1
1998.....	286.8	262.8	S	1.2	14.1	13.8
1997.....	223.1	197.8	S	3.7	12.7	15.6
1996.....	177.4	159.9	2.0	.9	14.6	17.4
1995.....	238.6	217.6	2.6	2.4	16.0	15.0
1994.....	179.3	166.8	2.0	1.4	9.1	17.6
1993.....	163.3	153.2	1.3	1.4	7.4	18.6
Pre-1993.....	753.0	664.2	27.0	17.8	44.0	7.3
VEHICLE ACQUISITION						
New.....	1 696.3	1 532.5	47.2	15.0	101.6	4.1
Used.....	1 459.1	1 356.4	26.4	17.3	59.0	4.7
Not reported.....	121.8	102.1	1.3	1.5	16.9	20.6
LEASE CHARACTERISTICS						
Leased.....	204.8	157.3	S	3.1	35.2	15.3
Lessee.....	163.6	137.1	1.7	.9	23.8	17.6
Vehicle only.....	22.2	.9	1.7	.9	18.6	8.1
Vehicle with driver.....	5.2	V	V	V	5.2	16.5
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	136.2	136.2	V	V	V	21.1
Lessor.....	27.6	S	S	2.2	10.7	32.8
Vehicle only.....	11.0	S	1.4	2.2	6.9	12.4
Vehicle with driver.....	3.7	V	V	V	3.7	19.7
Not reported.....	S	S	V	V	S	S
Not applicable ⁴	S	S	V	V	S	S
Not reported.....	S	S	V	V	S	S
Not leased.....	1 669.5	1 501.3	51.9	21.3	95.0	4.2
Not reported.....	1 402.9	1 332.3	13.9	9.4	47.3	4.9

See footnotes at end of table.

Table 4. Trucks by Vehicle Size: 2002—Con.

[Thousands. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
LEASE CHARACTERISTICS—Con.						
Length of leasing agreement:						
Leased	204.8	157.3	S	3.1	35.2	15.3
1 to 11 months	4.8	V	V	S	4.2	17.8
12 months or more	37.2	1.7	3.1	2.5	30.0	6.1
Not reported	1.0	V	V	V	1.0	37.6
Not applicable ⁴	161.7	155.6	S	V	V	19.3
Provisions of lease ⁵ :						
Financing only	23.8	1.5	2.8	S	18.7	8.0
Full maintenance	11.9	S	1.8	2.2	7.5	11.9
Payment of taxes	13.8	S	1.4	1.9	10.3	10.7
Obtaining licenses and permits	15.2	S	1.5	1.9	11.5	10.2
Recordkeeping	7.2	S	1.2	.9	4.9	15.1
Fuel contract	4.1	S	S	V	3.5	19.1
PRIMARY OPERATOR CLASSIFICATION						
Private	654.2	533.1	41.0	26.2	53.8	8.0
Motor carrier	109.1	S	S	3.7	85.4	8.8
Owner operator	39.4	S	S	S	30.9	17.2
Rental	22.9	S	.9	2.4	5.9	40.4
Personal transportation	2 415.1	2 395.8	S	V	V	2.4
Not applicable ²	36.6	33.2	1.0	.9	1.5	38.7
For-hire characteristics:						
Type of carrier:						
Contract	56.6	S	S	3.0	45.1	12.2
Common	67.6	1.1	2.7	1.0	62.7	4.0
Not reported	11.3	S	1.8	S	8.4	12.1
Not applicable ⁶	3 141.8	2 988.9	62.2	29.5	61.3	.7
Type of service:						
Truckload	75.5	S	1.3	1.2	72.5	3.3
Less-than truckload	49.0	1.0	S	2.7	35.4	14.2
Not reported	11.0	S	1.6	S	8.3	12.1
Not applicable ⁶	3 141.8	2 988.9	62.2	29.5	61.3	.7
Source of hauls:						
Shippers or receivers	101.6	.9	S	3.5	86.9	7.0
Brokers	6.7	V	V	S	6.5	14.6
Centralized markets or exchanges	1.3	V	S	V	1.1	35.7
Other	V	V	V	V	V	N
Not reported	25.8	1.2	2.2	S	21.7	7.4
Not applicable ⁶	3 141.8	2 988.9	62.2	29.5	61.3	.7
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	31.0	V	S	1.5	29.1	6.7
Not carrying hazardous materials	219.1	25.5	41.2	27.1	125.3	4.3
Not reported	27.4	3.7	6.0	2.0	15.7	7.7
Not applicable ⁸	2 999.6	2 961.7	27.2	3.2	7.4	.8
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	18.5	S	1.3	1.3	1.7	49.8
Air bag(s) (safety device only)	2 096.6	2 060.5	23.9	2.4	9.8	3.0
Air compressor (except air brakes)	30.0	S	1.2	1.2	27.4	6.7
Air-conditioning	2 840.8	2 672.9	34.4	11.5	122.1	1.6
Air springs	65.3	S	S	.9	63.6	4.0
Antilock brake system	2 178.7	2 070.3	24.2	6.3	77.9	2.9
Collision warning system	5.3	S	1.1	S	3.9	18.1
Computerized drive train control unit	481.0	468.0	1.3	.9	10.9	10.4
Crane	3.1	S	S	.9	1.4	25.1
Electronic vehicle identification device	15.9	S	V	S	15.5	9.2
Engine retarder/brake	52.2	S	1.0	S	50.3	4.4
Front-wheel drive	1 090.5	1 078.3	S	V	V	6.1
Hoist	30.9	3.5	8.1	6.7	12.7	7.3
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	23.4	V	S	S	15.9	28.4
Internet access	1.7	V	S	V	1.5	30.2
Lift gate	9.4	1.2	3.2	2.6	2.4	14.2
Mounting bar for snowplow	28.0	26.0	1.4	S	S	44.9
Navigational system	1.7	V	V	V	1.7	30.2
Power take-off	72.7	2.0	8.5	11.2	51.0	4.2
Radial tires	2 182.8	2 007.2	33.8	16.2	125.5	3.1
Reflective material in addition to those required by law	52.1	2.4	S	4.2	32.9	13.4
Road speed governor	110.9	2.2	S	6.2	90.0	6.5
Toolbox	258.6	213.4	10.6	4.9	29.7	13.4
Trip recorder or on-board computer with communication capabilities	200.2	165.9	S	2.2	23.7	16.1
Trip recorder or on-board computer without communication capabilities	615.8	588.7	S	V	20.2	8.9
Vehicle control aids for handicapped drivers	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	S
Winch	18.1	S	3.0	1.5	5.2	36.6
Transmission type:						
Automatic	2 613.2	2 545.0	47.2	9.9	11.0	1.9
Manual	583.0	388.4	25.4	22.3	146.9	7.6
Semiautomated manual	2.1	V	V	S	1.6	27.9
Automated manual	S	S	V	V	1.5	S
Not reported	71.0	51.0	2.2	1.2	16.5	24.8
Braking system:						
Hydraulic (standard)	59.4	15.2	22.1	13.4	8.8	4.7
Hydraulic with power assist	46.9	7.5	21.9	10.5	7.1	14.8
Air	157.6	S	2.8	8.8	145.4	1.8
Other	V	V	V	V	V	N
Not reported	28.7	S	3.3	1.2	16.2	22.2
Not applicable ¹⁰	2 984.6	2 959.8	24.8	V	V	.8

See footnotes at end of table.

Table 4. Trucks by Vehicle Size: 2002—Con.

[Thousands. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Vehicle size				Coefficient of variation of total (percent)	
	Total	Light	Medium	Light-heavy		Heavy-heavy
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	2 887.1	2 823.6	42.4	11.8	9.4	1.3
Diesel	256.7	38.5	31.1	20.8	166.4	6.4
Natural gas	S	S	V	V	V	S
Propane	S	V	S	S	S	S
Alcohol fuels	V	V	V	V	V	N
Electricity	V	V	V	V	V	N
Combination	89.7	89.2	S	S	V	26.3
Other	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not applicable ²	36.6	33.2	1.0	.9	1.5	38.7
Cylinders ¹¹ :						
4 cylinders	249.1	245.2	2.8	S	.6	15.0
6 cylinders	1 972.3	1 790.2	9.3	14.5	158.4	3.3
8 cylinders	996.2	921.4	51.8	14.2	8.8	6.1
Other	59.6	34.2	S	4.7	9.7	25.9
Cubic inch displacement ¹¹ :						
Gasoline fuel	2 887.1	2 823.6	42.4	11.8	9.4	1.3
Less than 200	624.3	624.3	V	V	V	9.0
200 to 299	1 354.3	1 351.7	1.3	1.3	V	4.9
300 to 349	440.4	433.3	S	S	V	10.8
350 to 399	383.8	365.8	11.3	4.2	2.4	11.4
400 or more	42.2	S	S	1.9	2.2	32.7
Not available	42.2	28.0	5.1	4.2	4.9	30.1
Diesel fuel	256.7	38.5	31.1	20.8	166.4	6.4
Less than 400	29.9	S	7.6	4.7	1.7	29.4
400 to 599	82.7	22.5	22.6	13.6	24.0	16.9
600 to 799	86.9	V	S	1.2	85.3	3.0
800 or more	33.9	V	S	S	33.5	5.9
Not available	23.4	S	S	1.0	21.8	7.6
Other fuel	96.7	95.7	S	S	S	25.2
Less than 400	96.2	95.7	S	S	V	25.3
400 or more	S	V	S	V	V	S
Not available	S	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not applicable ²	36.6	33.2	1.0	.9	1.5	38.7
REFUELING LOCATION						
Gas station	2 871.2	2 783.1	47.9	15.6	24.6	1.4
Truck stop	74.5	S	S	2.9	70.5	3.5
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	198.7	86.4	23.6	14.2	74.6	12.0
Other company's/contractor's facility not open to the public	S	S	S	V	3.2	S
Other	V	V	V	V	V	N
Not reported	79.5	75.1	1.2	S	3.0	26.8
Not applicable ²	36.6	33.2	1.0	.9	1.5	38.7
MAINTENANCE⁵						
General maintenance performed by:						
None performed	52.4	50.3	1.0	S	S	33.1
Company-owned maintenance facility	331.5	182.4	27.5	14.7	106.9	10.1
General repair business or private mechanic	1 399.6	1 309.4	22.6	11.6	56.1	4.9
Dealership service department	1 066.1	1 020.6	S	3.5	25.0	6.1
Leasing company	3.6	S	S	S	2.7	21.5
Individual not employed/paid by any maintenance type facility	1 059.1	1 011.5	16.8	7.3	23.6	6.0
Other	V	V	V	V	V	N
Not reported	100.2	88.1	S	S	11.1	23.1
Not applicable ²	36.6	33.2	1.0	.9	1.5	38.7
Extensive repairs performed by:						
None performed	2 641.5	2 425.4	64.6	26.4	125.0	2.2
Company-owned maintenance facility	34.4	S	1.3	1.9	16.7	26.4
General repair business or private mechanic	219.0	198.5	3.5	3.8	13.2	15.7
Dealership service department	132.9	117.2	1.2	1.2	13.2	20.2
Leasing company	S	V	V	V	S	S
Component distributorship (engine, transmission, body, etc.)	2.6	V	V	V	2.6	24.3
Individual not employed/paid by any repair type facility	164.3	158.9	2.1	S	2.7	18.8
Other	V	V	V	V	V	N
Not reported	S	S	S	V	V	S
Not applicable ²	36.6	33.2	1.0	.9	1.5	38.7
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	3 056.1	2 928.4	59.8	29.7	38.2	1.0
2 axles	3 035.8	2 928.0	59.1	29.2	19.5	1.0
3 axles	19.4	S	.6	S	18.0	7.9
4 axles .....	.6	V	V	V	.6	49.6
5 axles or more	S	V	V	V	S	S
Not reported	S	V	S	V	S	S
Combinations	221.1	62.6	S	4.2	139.3	9.6
Single-unit trucks with trailer	84.4	62.6	S	3.7	3.0	25.0
3 axles	40.1	37.8	S	.9	.9	37.9
4 axles	30.8	S	S	2.6	1.3	40.2
5 axles or more	S	V	S	S	.9	S
Not reported	S	S	V	V	V	S
Truck-tractors with single trailer	120.4	V	V	S	119.9	2.0
3 axles	5.7	V	V	V	5.7	16.9
4 axles	14.1	V	V	S	13.7	10.8
5 axles or more	100.2	V	V	S	100.0	2.3
Not reported	S	V	V	V	S	S
Truck-tractors with double trailers	15.4	V	V	V	15.4	9.5
5 axles	12.0	V	V	V	12.0	10.9
6 axles	2.7	V	V	V	2.7	23.3
7 axles	S	V	V	V	S	S
8 axles or more .....	.6	V	V	V	.6	49.8
Not reported	V	V	V	V	V	N
Truck-tractors with triple trailers	1.0	V	V	V	1.0	41.1
7 axles	1.0	V	V	V	1.0	41.1
8 axles	V	V	V	V	V	N
9 axles	V	V	V	V	V	N
10 axles or more	V	V	V	V	V	N
Not reported	V	V	V	V	V	N

See footnotes at end of table.

Table 4. Trucks by Vehicle Size: 2002—Con.

[Thousands. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
TRUCK TYPE AND AXLE ARRANGEMENT—Con.						
Driving axles:						
1	2 060.0	1 911.7	60.5	32.5	55.3	3.3
2	1 215.3	1 079.3	S	1.3	120.4	5.5
3 or more	1.3	V	V	V	1.3	32.9
Not reported .....	.6	V	S	V	S	49.6
Total liftable axles and locations ¹² :						
None	285.6	30.9	49.8	33.7	171.2	3.2
1	5.8	S	S	V	5.4	16.6
Forward of the drive axle	1.9	V	V	V	1.9	29.0
Below the chassis	1.7	S	V	V	1.5	32.0
Beyond the chassis	1.5	V	V	V	1.5	31.2
Not reported	S	V	S	V	S	S
2 or more	V	V	V	V	V	N
Forward of the drive axle	V	V	V	V	V	N
Below the chassis	V	V	V	V	V	N
Beyond the chassis	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not reported	1.2	V	S	S	.9	35.1
Not applicable ¹⁰	2 984.6	2 959.8	24.8	V	V	.8
Total liftable axles and number of braking axles:						
None	285.6	30.9	49.8	33.7	171.2	3.2
1	5.8	S	S	V	5.4	16.6
0 braking	1.8	V	S	V	1.6	30.5
1 braking	3.6	V	V	V	3.6	20.8
Not reported	S	S	V	V	S	S
2 or more	V	V	V	V	V	N
0 braking	V	V	V	V	V	N
1 braking	V	V	V	V	V	N
2 or more braking	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not reported	1.2	V	S	S	.9	35.1
Not applicable ¹⁰	2 984.6	2 959.8	24.8	V	V	.8
CAB TYPE						
Conventional cab	255.0	28.2	35.9	29.6	161.3	2.6
With sleeper	51.6	V	V	S	51.4	4.3
Without sleeper	189.1	28.2	35.9	29.4	95.5	3.6
Not reported	14.4	V	V	V	14.4	9.7
Cab over engine	37.0	2.7	14.1	4.3	16.0	18.4
With sleeper	7.7	V	V	V	7.7	13.5
Without sleeper	28.8	2.7	14.1	4.3	7.7	23.5
Not reported .....	.6	V	V	V	.6	49.8
Cab forward of engine	S	V	V	V	S	S
Cab beside engine	V	V	V	V	V	N
Not reported	S	S	S	V	V	S
Not applicable ¹⁰	2 984.6	2 959.8	24.8	V	V	.8

N Not available. S Estimate does not meet publication standards because of high sampling variability or poor response quality. V Represents an estimate of less than 50 vehicles, 50,000 miles, or 0.05 percent.

¹Comparability of estimates may vary across survey years due to changes in category definitions.

²Vehicles not in use.

³Truck-tractors not in use.

⁴Lessees or lessors of pickups, minivans, other light vans, and sport utilities.

⁵Detail lines do not add to total trucks because items were not applicable or multiple responses were possible.

⁶Includes pickups, minivans, other light vans, and sport utilities; all other vehicles that are private, rental, or used for personal transportation; and vehicles not in use.

⁷Distributed miles data are available in Table 8.

⁸Includes pickups, minivans, other light vans, and sport utilities; all other vehicles that are rental or used for personal transportation; and vehicles not in use.

⁹Pickups, minivans, other light vans, and sport utilities, in the Equipment Type section, were only required to report for aerial work platform/bucket, air bag(s), air-conditioning, antilock brake system, computerized drive train control unit, front-wheel drive, mounting bar for snowplow, radial tires, toolbox, trip recorder, vehicle control aids for handicapped drivers, wheelchair lift, and winch.

¹⁰Pickups, minivans, other light vans, and sport utilities.

¹¹Data were derived from administrative records.

¹²Detail lines do not add to the subtotal line because items were not applicable or multiple responses were possible. When 2 or 3 liftable axles were indicated, respondents properly reported multiple responses, therefore detail lines will be significantly greater than the corresponding subtotal line.

Note: Use caution when assessing the true increase or decrease in any particular data line. Large changes in the "not reported" or "not applicable" estimates should be taken into account.

Note: The Appendix provides instructions for approximating unpublished coefficients of variation (CVs). CVs estimated from sample data are available on request. The Introduction gives information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to this information on the Internet may be found at www.census.gov/svsd/www/02vehinv.html.

Table 5. Trucks by Truck Type: 2002

[Thousands. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
Total	3 277.2	3 056.1	221.1	84.4	120.4	15.4	1.0	X
Coefficient of variation (percent) .....	.7	1.0	9.6	25.0	2.0	9.5	41.1	X
BUSINESS¹								
For-hire transportation or warehousing	135.8	30.8	105.0	V	88.9	15.1	1.0	8.5
Vehicle leasing or rental	22.2	S	4.3	V	4.3	V	V	41.7
Agriculture, forestry, fishing, or hunting	106.7	94.3	12.4	S	4.6	V	V	19.7
Mining	1.8	S	1.0	V	1.0	V	V	30.5
Utilities	22.1	20.5	1.6	1.4	S	V	V	40.7
Construction	196.8	180.5	16.3	S	6.9	V	V	15.8
Manufacturing	30.7	26.3	4.5	S	3.9	V	V	36.1
Wholesale trade	45.0	41.1	3.9	S	3.1	S	V	31.6
Retail trade	87.0	84.1	2.9	S	2.3	S	V	25.0
Information services	S	S	V	V	V	V	V	S
Waste management, landscaping, or administrative/support services	19.1	9.7	S	S	1.7	V	V	32.9
Arts, entertainment, or recreation services	S	S	S	V	S	V	V	S
Accommodation or food services	4.3	2.6	1.7	S	1.5	V	V	20.9
Other services	109.5	109.2	S	V	S	V	V	23.1
Personal transportation	2 415.1	2 359.0	56.0	56.0	V	V	V	2.4
Not reported	37.0	35.3	1.7	S	1.5	V	V	36.5
Not applicable ²	36.6	36.6	V	V	V	V	V	38.7
BODY TYPE								
Single-unit trucks	3 139.8	3 055.4	84.4	84.4	N	N	N	.7
Pickup	1 026.2	971.4	54.9	54.9	N	N	N	1.6
Minivan	823.2	816.7	S	S	N	N	N	6.9
Other light vans	253.1	246.6	S	S	N	N	N	15.0
Sport utility	882.1	875.6	S	S	N	N	N	6.4
Armored	S	S	V	V	N	N	N	S
Beverage	2.2	2.2	V	V	N	N	N	30.1
Concrete mixer	3.6	3.4	S	S	N	N	N	19.7
Concrete pumper	S	S	V	V	N	N	N	S
Crane	S	S	V	V	N	N	N	S
Curtainside	V	V	V	V	N	N	N	N
Dump	26.3	21.3	5.0	5.0	N	N	N	8.0
Flatbed, stake, or platform	29.1	27.4	1.7	1.7	N	N	N	22.0
Low boy	V	V	V	V	N	N	N	N
Pole, logging, pulpwood, or pipe	S	S	V	V	N	N	N	S
Service, utility	11.8	10.3	1.5	1.5	N	N	N	12.8
Service, other	4.7	4.5	S	S	N	N	N	20.9
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk	2.6	2.6	V	V	N	N	N	27.8
Tank, liquids or gases	6.1	6.1	V	V	N	N	N	17.4
Tow/Wrecker	4.2	4.2	V	V	N	N	N	21.7
Trash, garbage, or recycling	2.9	2.9	V	V	N	N	N	22.5
Vacuum	S	S	V	V	N	N	N	S
Van, basic enclosed	19.1	18.7	S	S	N	N	N	9.7
Van, insulated nonrefrigerated	S	S	V	V	N	N	N	S
Van, insulated refrigerated	4.2	3.3	.9	.9	N	N	N	21.7
Van, open top	7.4	7.4	V	V	N	N	N	16.1
Van, step, walk-in, or multistop	25.8	25.8	V	V	N	N	N	26.2
Van, other	2.4	2.2	S	S	N	N	N	28.8
Other	S	S	V	V	N	N	N	S
Truck-tractors	137.4	S	136.7	N	120.4	15.4	1.0	1.6
Automobile carrier	1.8	N	1.8	N	1.8	V	V	28.7
Beverage	3.0	N	3.0	N	3.0	V	V	24.5
Curtainside	S	N	S	N	S	V	V	S
Dump	12.0	N	12.0	N	12.0	V	V	10.6
Flatbed, stake, or platform	12.2	N	12.2	N	12.2	V	V	10.6
Livestock	S	N	S	N	S	V	V	S
Low boy	2.1	N	2.1	N	2.1	V	V	26.5
Mobile home toter	S	N	S	N	S	V	V	S
Open top	2.7	N	2.7	N	2.7	V	V	23.3
Pole, logging, pulpwood, or pipe .....	.7	N	.7	N	.7	V	V	44.5
Tank, dry bulk	3.0	N	3.0	N	3.0	V	V	22.1
Tank, liquids or gases	9.5	N	9.5	N	9.5	V	V	12.1
Van, basic enclosed	73.8	N	73.8	N	60.1	12.7	1.0	3.5
Van, drop-frame	4.2	N	4.2	N	1.7	2.5	V	18.7
Van, insulated nonrefrigerated	1.3	N	1.3	N	1.3	V	V	33.1
Van, insulated refrigerated	9.4	N	9.4	N	9.2	S	V	12.2
Other	V	N	V	N	V	V	V	N
Not applicable ³	S	S	V	N	V	V	V	S
ANNUAL MILES								
Less than 5,000	432.1	411.9	20.1	S	3.8	S	V	10.4
5,000 to 9,999	709.6	684.9	24.6	S	3.8	S	V	8.2
10,000 to 19,999	1 511.7	1 462.9	48.9	39.8	8.9	S	V	4.6
20,000 to 29,999	356.1	340.4	15.7	S	8.9	S	V	12.2
30,000 to 49,999	119.0	98.0	21.0	S	19.7	S	V	19.8
50,000 to 74,999	41.8	S	21.2	S	19.1	1.7	V	26.1
75,000 or more	70.4	.8	69.6	V	56.2	12.4	1.0	3.5
Not applicable ²	36.6	36.6	V	V	V	V	V	38.7

See footnotes at end of table.

Table 5. Trucks by Truck Type: 2002—Con.

[Thousands. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
PRIMARY RANGE OF OPERATION								
Off-the-road	26.3	S	9.2	V	9.2	V	V	35.2
50 miles or less	2 378.3	2 316.2	62.1	33.3	28.2	.6	V	2.6
51 to 100 miles	250.2	217.4	32.9	S	12.7	S	V	14.4
101 to 200 miles	62.2	47.8	14.3	V	11.0	3.3	V	27.3
201 to 500 miles	75.7	39.6	36.1	S	19.3	4.1	S	23.8
501 miles or more	85.8	58.0	27.7	S	20.6	6.1	.8	22.0
Not reported	362.1	323.3	38.8	S	19.5	.6	V	11.9
Not applicable ²	36.6	36.6	V	V	V	V	V	38.7
PRIMARY JURISDICTION								
Operated in Canada	S	S	S	V	S	V	V	S
Operated in Mexico	V	V	V	V	V	V	V	N
Operated within the home base state	2 816.0	2 682.6	133.4	71.6	56.4	5.1	S	1.8
Operated in states other than the home base state	128.6	61.1	67.5	S	56.9	9.6	S	14.9
Not reported	289.4	269.3	20.1	S	6.9	.7	V	13.7
Not applicable ²	36.6	36.6	V	V	V	V	V	38.7
MONTHS OPERATED								
12	2 512.7	2 345.4	167.2	66.3	87.3	12.9	.8	2.4
7 to 11	325.1	296.6	28.5	3.8	23.3	1.3	V	12.3
2 to 6	334.6	310.3	24.2	S	9.1	.9	S	12.3
1 or less	68.3	67.1	1.2	S	S	S	V	27.6
Vehicle not used	36.6	36.6	V	V	V	V	V	38.7
VEHICLE SIZE								
Light	2 991.0	2 928.4	62.6	62.6	V	V	V	.9
Medium	74.9	59.8	S	S	V	V	V	18.9
Light-heavy	33.9	29.7	4.2	3.7	S	V	V	6.9
Heavy-heavy	177.5	38.2	139.3	3.0	119.9	15.4	1.0	1.5
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	2 417.1	2 385.6	31.5	31.5	V	V	V	2.4
6,001 to 8,500	511.5	493.0	S	S	V	V	V	10.1
8,501 to 10,000	62.4	49.8	S	S	V	V	V	27.2
10,001 to 14,000	36.8	35.0	1.9	1.9	V	V	V	24.0
14,001 to 16,000	23.5	16.8	S	S	V	V	V	39.4
16,001 to 19,500	14.6	8.1	S	S	V	V	V	42.7
19,501 to 26,000	33.9	29.7	4.2	3.7	S	V	V	6.9
26,001 to 33,000	18.5	15.9	2.6	1.3	1.3	V	V	9.9
33,001 to 40,000	11.0	6.5	4.4	S	4.1	V	V	12.6
40,001 to 50,000	16.9	8.4	8.5	S	7.3	.6	V	9.1
50,001 to 60,000	16.8	4.7	12.2	S	11.7	S	V	9.3
60,001 to 80,000	111.7	2.8	108.9	S	94.0	14.5	V	2.1
80,001 to 100,000 .....	.9	V	.9	V	.6	S	S	40.5
100,001 to 130,000	1.7	V	1.7	V	.9	V	.8	30.1
130,001 or more	V	V	V	V	V	V	V	N
TOTAL LENGTH (FEET)								
Less than 20.0	2 836.5	2 836.5	V	V	V	V	V	1.4
20.0 to 27.9	218.9	186.4	32.5	32.5	V	V	V	14.2
28.0 to 35.9	50.4	28.2	22.2	S	1.3	V	V	24.8
36.0 to 40.9	10.1	3.7	6.4	1.7	4.7	V	V	13.2
41.0 to 44.9	4.2	S	3.6	1.3	2.3	V	V	20.6
45.0 to 49.9	22.6	S	22.1	S	1.8	V	V	47.8
50.0 to 54.9	18.2	S	18.0	S	10.6	V	V	34.4
55.0 to 59.9	21.5	V	21.5	S	21.3	V	V	8.2
60.0 to 64.9	21.9	V	21.9	S	21.8	V	V	7.8
65.0 to 69.9	29.7	V	29.7	V	23.5	6.2	V	6.4
70.0 to 74.9	35.2	V	35.2	V	28.2	7.0	V	5.7
75.0 to 79.9	7.1	V	7.1	V	4.9	2.2	V	14.1
80.0 or more	1.0	V	1.0	V	V	V	1.0	41.1
MILES PER GALLON								
Less than 5	18.7	10.4	8.3	S	7.3	S	V	9.2
5 to 6.9	122.9	22.0	100.9	2.0	84.9	13.2	.8	2.5
7 to 8.9	43.5	25.7	17.8	S	9.3	1.2	V	15.1
9 to 10.9	134.3	131.2	3.1	2.4	.7	V	V	19.1
11 to 12.9	191.4	176.9	S	S	.6	V	V	17.0
13 to 14.9	233.3	233.0	S	S	V	V	V	15.7
15 or more	1 991.7	1 941.1	50.6	50.2	S	V	V	3.4
15 to 20.9	1 571.5	1 526.9	44.5	44.1	S	V	V	4.5
21 to 24.9	307.8	301.7	S	S	V	V	V	13.6
25 or more	112.5	112.5	V	V	V	V	V	23.1
Not reported	504.9	479.1	25.7	S	17.1	.7	S	9.9
Not applicable ²	36.6	36.6	V	V	V	V	V	38.7

See footnotes at end of table.

Table 5. Trucks by Truck Type: 2002—Con.

[Thousands. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
MODEL YEAR								
2003	1.1	S	.9	V	.7	S	V	38.0
2002	194.8	187.4	7.4	V	5.9	1.5	V	17.2
2001	368.8	338.7	30.1	S	8.6	1.4	S	12.0
2000	329.1	302.5	26.7	S	16.7	2.8	S	12.6
1999	362.0	341.8	20.2	S	13.4	S	V	12.1
1998	286.8	254.7	32.1	S	11.4	1.6	V	13.8
1997	223.1	211.7	11.4	S	9.8	1.1	S	15.6
1996	177.4	163.5	13.9	1.1	11.6	1.2	V	17.4
1995	238.6	219.0	19.6	S	11.0	2.1	S	15.0
1994	179.3	166.1	13.2	S	6.1	S	S	17.6
1993	163.3	156.3	7.0	S	5.5	1.0	V	18.6
Pre-1993	753.0	714.3	38.7	17.5	19.6	1.6	V	7.3
VEHICLE ACQUISITION								
New	1 696.3	1 564.9	131.4	48.5	70.4	11.7	.8	4.1
Used	1 459.1	1 396.9	62.2	23.3	36.0	2.8	S	4.7
Not reported	121.8	94.2	27.5	S	14.0	.9	V	20.6
LEASE CHARACTERISTICS								
Leased	204.8	173.4	31.4	V	28.3	2.8	S	15.3
Lessee	163.6	141.9	21.7	V	18.9	2.5	S	17.6
Vehicle only	22.2	5.7	16.5	V	13.7	2.5	S	8.1
Vehicle with driver	5.2	V	5.2	V	5.2	V	V	16.5
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	136.2	136.2	V	V	V	V	V	21.1
Lessor	27.6	18.5	9.1	V	8.9	S	V	32.8
Vehicle only	11.0	5.5	5.5	V	5.5	V	V	12.4
Vehicle with driver	3.7	S	3.4	V	3.3	S	V	19.7
Not reported	S	S	S	V	S	V	V	S
Not applicable ⁴	S	S	V	V	V	V	V	S
Not reported	S	S	S	V	S	S	V	S
Not leased	1 669.5	1 548.1	121.4	49.5	63.4	8.1	S	4.2
Not reported	1 402.9	1 334.6	68.3	34.9	28.7	4.5	S	4.9
Length of leasing agreement:								
Leased	204.8	173.4	31.4	V	28.3	2.8	S	15.3
1 to 11 months	4.8	.9	3.8	V	3.8	V	V	17.8
12 months or more	37.2	10.7	26.5	V	23.6	2.6	S	6.1
Not reported	1.0	V	1.0	V	.9	S	V	37.6
Not applicable ⁴	161.7	161.7	V	V	V	V	V	19.3
Provisions of lease ⁵ :								
Financing only	23.8	7.6	16.2	V	14.0	2.1	S	8.0
Full maintenance	11.9	5.5	6.4	V	5.7	.6	S	11.9
Payment of taxes	13.8	4.5	9.4	V	9.4	V	V	10.7
Obtaining licenses and permits	15.2	5.2	10.0	V	9.9	S	V	10.2
Recordkeeping	7.2	2.3	4.9	V	4.9	V	V	15.1
Fuel contract	4.1	S	3.5	V	3.5	V	V	19.1
PRIMARY OPERATOR CLASSIFICATION								
Private	654.2	606.3	47.9	28.4	19.4	S	V	8.0
Motor carrier	109.1	26.4	82.7	V	68.5	13.2	1.0	8.8
Owner operator	39.4	S	30.0	V	28.0	2.1	V	17.2
Rental	22.9	18.5	4.4	V	4.4	V	V	40.4
Personal transportation	2 415.1	2 359.0	56.0	56.0	V	V	V	2.4
Not applicable ²	36.6	36.6	V	V	V	V	V	38.7
For-hire characteristics:								
Type of carrier:								
Contract	56.6	S	43.9	V	38.9	4.9	S	12.2
Common	67.6	6.0	61.6	V	51.0	9.8	.8	4.0
Not reported	11.3	4.0	7.2	V	6.6	.6	V	12.1
Not applicable ⁶	3 141.8	3 033.3	108.4	84.4	23.9	S	V	.7
Type of service:								
Truckload	75.5	4.6	70.9	V	70.0	.9	V	3.3
Less-than truckload	49.0	14.3	34.6	V	19.9	13.8	1.0	14.2
Not reported	11.0	3.8	7.2	V	6.6	.6	V	12.1
Not applicable ⁶	3 141.8	3 033.3	108.4	84.4	23.9	S	V	.7
Source of hauls:								
Shippers or receivers	101.6	16.7	84.8	V	69.7	14.2	1.0	7.0
Brokers	6.7	S	6.4	V	6.2	S	V	14.6
Centralized markets or exchanges	1.3	S	1.1	V	1.1	V	V	35.7
Other	V	V	V	V	V	V	V	N
Not reported	25.8	5.4	20.4	V	19.6	.9	V	7.4
Not applicable ⁶	3 141.8	3 033.3	108.4	84.4	23.9	S	V	.7
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	31.0	4.3	26.7	V	19.2	6.8	.8	6.7
Not carrying hazardous materials	219.1	116.5	102.6	9.0	87.4	6.0	S	4.3
Not reported	27.4	14.4	13.0	1.1	9.4	2.6	V	7.7
Not applicable ⁸	2 999.6	2 920.8	78.8	74.3	4.4	V	V	.8
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	18.5	S	1.1	1.1	V	V	V	49.8
Air bag(s) (safety device only)	2 096.6	2 037.4	59.1	50.6	7.7	.7	S	3.0
Air compressor (except air brakes)	30.0	4.3	25.7	S	24.7	.6	V	6.7
Air-conditioning	2 840.8	2 678.3	162.5	53.2	95.4	13.0	1.0	1.6
Air springs	65.3	3.1	62.1	S	58.7	2.8	S	4.0

See footnotes at end of table.

Table 5. Trucks by Truck Type: 2002—Con.

[Thousands. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
EQUIPMENT TYPE^{5 9}—Con.								
Antilock brake system	2 178.7	2 049.3	129.4	58.5	61.3	9.0	.6	2.9
Collision warning system	5.3	2.0	3.4	V	2.9	S	V	18.1
Computerized drive train control unit	481.0	471.1	9.9	S	9.2	S	V	10.4
Crane	3.1	3.1	V	V	V	V	V	25.1
Electronic vehicle identification device	15.9	S	15.3	V	14.5	.9	V	9.2
Engine retarder/brake	52.2	3.6	48.6	S	46.1	2.2	S	4.4
Front-wheel drive	1 090.5	1 060.0	30.5	30.5	V	V	V	6.1
Hoist	30.9	27.7	3.2	3.2	V	V	V	7.3
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	23.4	S	15.7	S	12.7	2.4	S	28.4
Internet access	1.7	S	1.5	V	1.5	V	V	30.2
Lift gate	9.4	9.2	S	S	V	V	V	14.2
Mounting bar for snowplow	28.0	27.0	1.0	1.0	V	V	V	44.9
Navigational system	1.7	S	1.2	V	1.2	V	V	30.2
Power take-off	72.7	40.6	32.2	4.7	27.5	V	V	4.2
Radial tires	2 182.8	2 035.0	147.8	44.8	90.0	12.1	1.0	3.1
Reflective material in addition to those required by law	52.1	25.0	27.1	1.9	25.0	S	V	13.4
Road speed governor	110.9	26.8	84.1	S	69.9	12.7	1.0	6.5
Toolbox	258.6	233.4	25.2	4.2	20.4	.6	V	13.4
Trip recorder or on-board computer with communication capabilities	200.2	171.6	28.6	S	22.4	S	V	16.1
Trip recorder or on-board computer without communication capabilities	615.8	564.8	51.0	31.5	13.8	5.6	S	8.9
Vehicle control aids for handicapped drivers	V	V	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	V	V	S
Winch	18.1	15.5	2.6	S	1.5	S	V	36.6
Transmission type:								
Automatic	2 613.2	2 543.2	70.0	67.0	3.0	V	V	1.9
Manual	583.0	462.7	120.3	5.2	101.2	13.0	1.0	7.6
Semiautomated manual	2.1	S	1.5	V	1.3	S	V	27.9
Automated manual	S	S	1.5	V	1.5	V	V	S
Not reported	71.0	43.1	27.9	S	13.4	2.3	V	24.8
Braking system:								
Hydraulic (standard)	59.4	54.3	5.1	3.6	1.5	V	V	4.7
Hydraulic with power assist	46.9	42.8	4.1	3.7	S	V	V	14.8
Air	157.6	35.5	122.1	2.8	105.3	13.1	1.0	1.8
Other	V	V	V	V	V	V	V	N
Not reported	28.7	13.2	15.4	V	13.1	2.3	V	22.2
Not applicable ¹⁰	2 984.6	2 910.3	74.3	74.3	V	V	V	.8
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	2 887.1	2 815.5	71.7	71.7	V	V	V	1.3
Diesel	256.7	107.3	149.5	12.7	120.4	15.4	1.0	6.4
Natural gas	S	S	V	V	V	V	V	S
Propane	S	S	V	V	V	V	V	S
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	89.7	89.7	V	V	V	V	V	26.3
Other	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	36.6	36.6	V	V	V	V	V	38.7
Cylinders¹¹:								
4 cylinders	249.1	242.8	S	S	S	V	V	15.0
6 cylinders	1 972.3	1 823.1	149.2	S	116.7	15.4	1.0	3.3
8 cylinders	996.2	940.4	55.8	55.2	S	V	V	6.1
Other	59.6	49.7	S	S	3.0	V	V	25.9
Cubic inch displacement¹¹:								
Gasoline fuel								
Less than 200	2 887.1	2 815.5	71.7	71.7	V	V	V	1.3
200 to 299	624.3	618.2	S	S	V	V	V	9.0
300 to 349	1 354.3	1 341.5	S	S	V	V	V	4.9
350 to 399	440.4	434.3	S	S	V	V	V	10.8
400 or more	383.8	357.3	26.5	26.5	V	V	V	11.4
Not available	42.2	22.3	S	S	V	V	V	32.7
Diesel fuel								
Less than 400	256.7	107.3	149.5	12.7	120.4	15.4	1.0	6.4
400 to 599	29.9	28.9	.9	S	S	V	V	29.4
600 to 799	82.7	63.3	19.3	S	8.0	V	V	16.9
800 or more	86.9	8.9	78.0	.6	69.4	7.7	S	3.0
Not available	33.9	2.3	31.6	V	29.3	2.1	S	5.9
Other fuel	23.4	3.8	19.5	V	13.5	5.5	S	7.6
Less than 400	96.7	96.7	V	V	V	V	V	25.2
400 or more	96.2	96.2	V	V	V	V	V	25.3
Not available	S	S	V	V	V	V	V	S
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	36.6	36.6	V	V	V	V	V	38.7
REFUELING LOCATION								
Gas station	2 871.2	2 786.2	85.0	74.1	10.8	S	V	1.4
Truck stop	74.5	5.6	68.9	S	67.0	1.2	S	3.5
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	198.7	142.6	56.1	3.6	39.6	12.1	.8	12.0
Other company's/contractor's facility not open to the public	S	S	2.8	V	1.5	1.3	V	S
Other	V	V	V	V	V	V	V	N
Not reported	79.5	71.2	S	S	1.6	.6	V	26.8
Not applicable ²	36.6	36.6	V	V	V	V	V	38.7

See footnotes at end of table.

Table 5. Trucks by Truck Type: 2002—Con.

[Thousands. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
MAINTENANCE⁵								
General maintenance performed by:								
None performed	52.4	52.0	S	V	S	V	V	33.1
Company-owned maintenance facility	331.5	242.5	89.0	3.0	72.9	12.3	.8	10.1
General repair business or private mechanic	1 399.6	1 330.1	69.5	23.6	44.0	1.9	V	4.9
Dealership service department	1 066.1	1 007.0	59.1	38.3	19.9	.9	V	6.1
Leasing company	3.6	1.4	2.2	V	1.5	.6	S	21.5
Individual not employed/paid by any maintenance type facility	1 059.1	1 017.2	41.9	27.3	13.5	1.0	V	6.0
Other	V	V	V	V	V	V	V	N
Not reported	100.2	83.6	16.6	S	9.9	.6	V	23.1
Not applicable ²	36.6	36.6	V	V	V	V	V	38.7
Extensive repairs performed by:								
None performed	2 641.5	2 491.2	150.3	57.2	81.8	10.5	.8	2.2
Company-owned maintenance facility	34.4	14.7	19.7	S	10.6	2.1	V	26.4
General repair business or private mechanic	219.0	207.3	11.6	.9	9.7	1.1	V	15.7
Dealership service department	132.9	113.9	18.9	S	10.1	1.8	S	20.2
Leasing company	S	V	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)	2.6	S	2.1	V	1.8	S	V	24.3
Individual not employed/paid by any repair type facility	164.3	149.2	S	S	2.2	V	V	18.8
Other	V	V	V	V	V	V	V	N
Not reported	S	S	S	S	V	V	V	S
Not applicable ²	36.6	36.6	V	V	V	V	V	38.7
AXLE ARRANGEMENT								
Driving axles:								
1	2 060.0	1 974.3	85.7	52.6	19.9	12.3	1.0	3.3
2	1 215.3	1 080.3	134.9	31.7	100.2	3.1	V	5.5
3 or more	1.3	1.2	S	S	V	V	V	32.9
Not reported	.6	S	S	V	S	V	V	49.6
Total liftable axles and locations ¹² :								
None	285.6	141.0	144.6	9.7	118.7	15.2	1.0	3.2
1	5.8	4.0	1.8	S	1.4	S	V	16.6
Forward of the drive axle	1.9	S	1.4	V	1.2	S	V	29.0
Below the chassis	1.7	1.6	S	V	S	V	V	32.0
Beyond the chassis	1.5	1.5	V	V	V	V	V	31.2
Not reported	S	S	S	S	V	V	V	S
2 or more	V	V	V	V	V	V	V	N
Forward of the drive axle	V	V	V	V	V	V	V	N
Below the chassis	V	V	V	V	V	V	V	N
Beyond the chassis	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not reported	1.2	.7	S	S	S	V	V	35.1
Not applicable ¹⁰	2 984.6	2 910.3	74.3	74.3	V	V	V	.8
Total liftable axles and number of braking axles:								
None	285.6	141.0	144.6	9.7	118.7	15.2	1.0	3.2
1	5.8	4.0	1.8	S	1.4	S	V	16.6
0 braking	1.8	1.0	.8	S	.6	V	V	30.5
1 braking	3.6	2.7	1.0	V	1.8	S	V	20.8
Not reported	S	S	V	V	V	V	V	S
2 or more	V	V	V	V	V	V	V	N
0 braking	V	V	V	V	V	V	V	N
1 braking	V	V	V	V	V	V	V	N
2 or more braking	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not reported	1.2	.7	S	S	S	V	V	35.1
Not applicable ¹⁰	2 984.6	2 910.3	74.3	74.3	V	V	V	.8
CAB TYPE								
Conventional cab	255.0	120.4	134.6	9.7	109.6	14.5	.8	2.6
With sleeper	51.6	S	51.4	V	49.0	2.1	S	4.3
Without sleeper	189.1	120.1	69.0	9.7	48.3	10.4	S	3.6
Not reported	14.4	S	14.2	V	12.3	2.0	V	9.7
Cab over engine	37.0	24.9	12.2	S	10.8	.9	S	18.4
With sleeper	7.7	V	7.7	V	7.4	S	S	13.5
Without sleeper	28.8	24.9	3.9	S	2.9	.6	V	23.5
Not reported	.6	V	.6	V	S	S	V	49.8
Cab forward of engine	S	S	V	V	V	V	V	S
Cab beside engine	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ¹⁰	2 984.6	2 910.3	74.3	74.3	V	V	V	.8

N Not available. S Estimate does not meet publication standards because of high sampling variability or poor response quality. V Represents an estimate of less than 50 vehicles, 50,000 miles, or 0.05 percent.

¹Comparability of estimates may vary across survey years due to changes in category definitions.

²Vehicles not in use. When the respondent had partial-year ownership of the vehicle, annual miles were adjusted to reflect miles traveled when not owned by the respondent.

³Truck-tractors not in use.

⁴Lessees or lessors of pickups, minivans, other light vans, and sport utilities.

⁵Detail lines do not add to total trucks because items were not applicable or multiple responses were possible.

⁶Includes pickups, minivans, other light vans, and sport utilities; all other vehicles that are private, rental, or used for personal transportation; and vehicles not in use.

⁷Distributed miles data are available in Table 8.

⁸Includes pickups, minivans, other light vans, and sport utilities; all other vehicles that are rental or used for personal transportation; and vehicles not in use.

⁹Pickups, minivans, other light vans, and sport utilities, in the Equipment Type section, were only required to report for aerial work platform/bucket, air bag(s), air-conditioning, antilock brake system, computerized drive train control unit, front-wheel drive, mounting bar for snowplow, radial tires, toolbox, trip recorder, vehicle control aids for handicapped drivers, wheelchair lift, and winch.

¹⁰Pickups, minivans, other light vans, and sport utilities.

¹¹Data were derived from administrative records.

¹²Detail lines do not add to the subtotal line because items were not applicable or multiple responses were possible. When 2 or 3 liftable axles were indicated, respondents properly reported multiple responses, therefore detail lines will be significantly greater than the corresponding subtotal line.

Note: Use caution when assessing the true increase or decrease in any particular data line. Large changes in the "not reported" or "not applicable" estimates should be taken into account.

Note: The Appendix provides instructions for approximating unpublished coefficients of variation (CVs). CVs estimated from sample data are available on request. The Introduction gives information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to this information on the Internet may be found at www.census.gov/svsd/www/02vehinv.html.

Table 6. Truck Miles by Vehicle Size: 2002

[Millions. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
Total	48 603.4	35 891.1	1 126.0	394.8	11 191.4	X
Coefficient of variation (percent)	2.3	3.1	26.1	11.9	2.4	X
BUSINESS¹						
For-hire transportation or warehousing	9 887.3	S	S	50.8	9 334.7	3.8
Vehicle leasing or rental	684.8	S	S	50.7	306.4	33.2
Agriculture, forestry, fishing, or hunting	833.9	491.1	S	50.4	166.4	25.8
Mining	58.1	V	V	S	56.3	40.7
Utilities	S	S	20.8	24.3	29.0	S
Construction	2 969.2	2 498.6	86.3	51.6	332.6	17.9
Manufacturing	692.6	S	32.8	14.8	269.8	40.5
Wholesale trade	984.4	682.8	75.3	72.8	153.5	35.0
Retail trade	1 207.0	945.2	57.5	17.4	186.8	25.7
Information services	S	S	V	S	V	S
Waste management, landscaping, or administrative/support services	236.9	S	23.5	20.5	165.0	18.7
Arts, entertainment, or recreation services	S	S	V	S	S	S
Accommodation or food services	123.2	S	27.0	S	78.6	30.3
Other services	1 734.6	1 665.4	32.3	19.5	17.4	29.5
Personal transportation	28 574.4	28 339.4	S	V	V	3.9
Not reported	312.7	S	52.2	S	94.8	30.3
Not applicable ²	V	V	V	V	V	N
BODY TYPE						
Single-unit trucks	37 859.6	35 891.1	1 126.0	375.2	467.2	2.9
Pickup	11 834.6	11 583.6	S	V	V	6.2
Minivan	10 207.7	10 207.7	V	V	V	8.4
Other light vans	3 177.6	3 080.4	S	V	V	18.2
Sport utility	10 749.3	10 749.3	V	V	V	8.0
Armored	S	V	S	V	V	S
Beverage	46.6	S	S	S	S	34.2
Concrete mixer	33.4	V	V	V	33.4	25.5
Concrete pumper	S	V	V	V	S	S
Crane	S	V	V	V	S	S
Curtainside	V	V	V	V	V	N
Dump	174.5	12.1	29.7	28.9	103.8	15.6
Flatbed, stake, or platform	225.0	24.0	89.5	61.0	50.6	16.3
Low boy	V	V	V	V	V	N
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Service, utility	118.2	28.7	42.5	22.6	24.4	18.7
Service, other	78.9	34.7	14.5	S	S	25.8
Street sweeper	S	V	V	V	S	S
Tank, dry bulk	14.0	V	S	6.8	7.1	31.5
Tank, liquids or gases	66.5	V	S	10.7	51.6	24.1
Tow/Wrecker	59.7	8.8	32.6	S	S	37.7
Trash, garbage, or recycling	62.6	V	V	S	60.4	26.4
Vacuum	S	V	V	V	S	S
Van, basic enclosed	312.6	49.0	96.6	116.8	50.2	12.4
Van, insulated nonrefrigerated	S	V	V	S	S	S
Van, insulated refrigerated	107.0	V	52.1	43.1	S	27.2
Van, open top	17.9	S	3.4	S	11.4	31.1
Van, step, walk-in, or multistop	522.7	99.9	S	35.8	V	43.7
Van, other	19.8	S	S	S	S	36.3
Other	S	V	S	V	V	S
Truck-tractors	10 743.8	V	V	S	10 724.2	2.5
Automobile carrier	95.9	V	V	V	95.9	32.3
Beverage	50.6	V	V	V	50.6	26.4
Curtainside	S	V	V	V	S	S
Dump	489.0	V	V	V	489.0	13.4
Flatbed, stake, or platform	802.5	V	V	S	802.5	12.5
Livestock	S	V	V	V	S	S
Low boy	137.4	V	V	V	137.4	31.4
Mobile home toter	S	V	V	V	S	S
Open top	121.0	V	V	V	121.0	31.7
Pole, logging, pulpwood, or pipe	84.1	V	V	V	84.1	49.0
Tank, dry bulk	252.8	V	V	V	252.8	24.1
Tank, liquids or gases	825.2	V	V	V	825.2	13.7
Van, basic enclosed	6 373.2	V	V	S	6 353.6	4.3
Van, drop-frame	425.3	V	V	V	425.3	22.8
Van, insulated nonrefrigerated	109.3	V	V	V	109.3	34.6
Van, insulated refrigerated	884.8	V	V	V	884.8	13.7
Other	V	V	V	V	V	N
Not applicable ³	V	V	V	V	V	N
ANNUAL MILES						
Less than 5,000	851.9	763.6	26.8	22.3	39.2	12.8
5,000 to 9,999	5 281.9	5 063.1	96.9	36.9	85.0	8.4
10,000 to 19,999	19 745.5	18 956.3	442.1	107.0	240.2	4.8
20,000 to 29,999	7 782.2	7 255.6	117.1	91.0	318.5	12.2
30,000 to 49,999	4 139.6	2 838.2	S	65.0	904.2	19.5
50,000 to 74,999	2 420.6	S	83.6	S	1 298.1	24.3
75,000 or more	8 381.7	V	S	S	8 306.1	3.7
Not applicable ²	V	V	V	V	V	N
PRIMARY RANGE OF OPERATION						
Off-the-road	1 042.2	S	S	S	880.0	15.7
50 miles or less	28 330.2	26 176.7	662.0	226.1	1 265.5	3.8
51 to 100 miles	4 827.3	3 754.3	213.3	81.2	778.6	15.3
101 to 200 miles	1 631.3	573.6	21.8	S	1 019.7	15.9
201 to 500 miles	2 923.5	467.0	S	S	2 313.7	9.7
501 miles or more	4 385.9	1 017.5	S	S	3 329.5	11.6
Not reported	5 462.8	3 744.0	94.2	20.1	1 604.5	11.7
Not applicable ²	V	V	V	V	V	N

See footnotes at end of table.

Table 6. Truck Miles by Vehicle Size: 2002—Con.

[Millions. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
PRIMARY JURISDICTION						
Operated in Canada.....	S	S	V	V	S	S
Operated in Mexico.....	V	V	V	V	V	N
Operated within the home base state.....	36 938.9	31 993.3	1 003.1	333.5	3 609.0	3.3
Operated in states other than the home base state.....	7 754.3	822.6	S	S	6 839.3	5.3
Not reported.....	3 848.4	3 014.2	S	S	742.3	13.0
Not applicable ²	V	V	V	V	V	N
MONTHS OPERATED						
12.....	39 879.0	29 675.5	965.7	300.6	8 937.2	3.1
7 to 11.....	5 349.7	3 410.3	122.8	70.9	1 745.7	11.7
2 to 6.....	3 090.1	2 550.2	36.1	21.6	482.2	16.1
1 or less.....	284.6	255.1	1.5	1.7	S	39.8
Vehicle not used.....	V	V	V	V	V	N
AVERAGE WEIGHT (POUNDS)						
Less than 6,001.....	28 627.4	28 627.4	N	N	N	4.1
6,001 to 8,500.....	6 793.9	6 793.9	N	N	N	11.6
8,501 to 10,000.....	469.9	469.9	N	N	N	31.2
10,001 to 14,000.....	452.4	N	452.4	N	N	28.5
14,001 to 16,000.....	S	N	S	N	N	S
16,001 to 19,500.....	S	N	S	N	N	S
19,501 to 26,000.....	394.8	N	N	394.8	N	11.9
26,001 to 33,000.....	199.2	N	N	N	199.2	16.5
33,001 to 40,000.....	252.8	N	N	N	252.8	19.2
40,001 to 50,000.....	654.4	N	N	N	654.4	14.3
50,001 to 60,000.....	582.8	N	N	N	582.8	12.4
60,001 to 80,000.....	9 185.7	N	N	N	9 185.7	3.0
80,001 to 100,000.....	65.1	N	N	N	65.1	46.4
100,001 to 130,000.....	251.3	N	N	N	251.3	33.7
130,001 or more.....	V	N	N	N	V	N
TOTAL LENGTH (FEET)						
Less than 20.0.....	34 143.5	33 344.1	671.0	83.1	45.2	3.4
20.0 to 27.9.....	2 537.3	2 040.7	205.7	130.3	160.5	17.0
28.0 to 35.9.....	743.4	S	27.6	130.5	220.6	26.1
36.0 to 40.9.....	240.9	S	S	S	185.1	17.4
41.0 to 44.9.....	74.4	V	S	V	72.9	26.9
45.0 to 49.9.....	307.5	S	S	S	68.7	45.4
50.0 to 54.9.....	523.5	V	S	S	425.2	21.1
55.0 to 59.9.....	1 320.8	V	V	V	1 320.8	10.3
60.0 to 64.9.....	1 511.8	V	V	S	1 492.2	9.2
65.0 to 69.9.....	2 539.8	V	V	V	2 539.8	7.3
70.0 to 74.9.....	3 705.2	V	V	V	3 705.2	6.3
75.0 to 79.9.....	762.4	V	V	V	762.4	15.7
80.0 or more.....	192.9	V	V	V	192.9	41.5
MILES PER GALLON						
Less than 5.....	524.8	S	S	19.1	474.5	13.9
5 to 6.9.....	8 795.4	15.7	37.4	76.2	8 666.1	3.2
7 to 8.9.....	921.6	S	119.3	71.3	643.1	11.8
9 to 10.9.....	2 059.9	1 544.9	S	62.8	70.5	26.4
11 to 12.9.....	2 385.0	2 061.4	S	S	35.8	20.2
13 to 14.9.....	2 704.3	2 628.6	22.5	S	S	18.7
15 or more.....	24 818.6	24 653.7	S	S	16.6	4.8
15 to 20.9.....	18 761.8	18 597.0	S	S	16.6	5.7
21 to 24.9.....	4 326.6	4 326.6	V	V	V	16.9
25 or more.....	1 730.1	1 730.1	V	V	V	28.1
Not reported.....	6 393.8	4 894.2	128.2	93.8	1 277.5	10.1
Not applicable ²	V	V	V	V	V	N
MODEL YEAR						
2003.....	87.2	V	V	V	87.2	43.4
2002.....	3 241.1	2 316.6	S	S	906.7	15.6
2001.....	6 038.8	4 679.9	S	37.6	1 198.1	11.4
2000.....	7 069.6	4 759.5	106.1	32.7	2 171.3	10.4
1999.....	6 159.8	4 533.5	S	43.7	1 380.4	11.5
1998.....	4 232.5	2 916.7	S	21.5	1 160.2	11.8
1997.....	4 255.8	3 072.5	S	51.5	863.2	15.7
1996.....	3 140.4	2 298.8	21.8	S	802.7	17.2
1995.....	4 016.9	2 966.7	37.6	26.3	986.3	14.1
1994.....	1 975.6	1 524.3	23.0	S	409.1	18.2
1993.....	1 725.4	1 314.5	31.1	S	350.3	18.3
Pre-1993.....	6 660.3	5 508.1	168.1	108.1	875.9	10.3
VEHICLE ACQUISITION						
New.....	28 187.8	19 626.7	911.7	227.8	7 421.5	4.1
Used.....	18 054.5	15 124.6	200.0	133.9	2 596.0	6.2
Not reported.....	2 361.1	1 139.8	14.3	S	1 173.9	13.9
LEASE CHARACTERISTICS						
Leased.....	5 639.0	2 339.7	S	74.8	3 036.9	9.9
Lessee.....	4 552.3	2 096.4	45.5	S	2 377.9	11.5
Vehicle only.....	1 999.6	16.9	45.5	S	1 904.8	9.5
Vehicle with driver.....	473.1	V	V	V	473.1	18.1
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	2 079.5	2 079.5	S	V	V	23.2
Lessor.....	885.2	S	S	42.4	607.4	18.7
Vehicle only.....	400.5	S	25.8	42.4	320.5	15.7
Vehicle with driver.....	273.8	V	V	V	273.8	22.1
Not reported.....	S	S	S	V	S	S
Not applicable ⁴	S	S	S	V	S	S
Not reported.....	S	S	V	V	S	S
Not leased.....	24 462.2	17 999.5	777.1	235.1	5 450.5	4.8
Not reported.....	18 502.2	15 551.9	161.2	85.0	2 704.1	5.9

See footnotes at end of table.

Table 6. Truck Miles by Vehicle Size: 2002—Con.

[Millions. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
LEASE CHARACTERISTICS—Con.						
Length of leasing agreement:						
Leased	5 639.0	2 339.7	S	74.8	3 036.9	9.9
1 to 11 months	325.4	V	V	S	301.5	20.0
12 months or more	2 806.2	31.6	71.4	50.9	2 652.4	7.4
Not reported	82.9	V	V	V	82.9	46.6
Not applicable ⁴	2 424.4	2 308.1	S	V	V	21.1
Provisions of lease ⁵ :						
Financing only	1 843.1	27.9	66.3	S	1 731.3	9.6
Full maintenance	646.1	S	31.7	42.4	562.5	15.7
Payment of taxes	824.4	S	25.3	42.6	751.3	12.5
Obtaining licenses and permits	875.5	S	26.1	43.1	801.0	12.0
Recordkeeping	477.2	S	20.9	S	438.3	17.2
Fuel contract	319.8	S	S	V	310.1	21.1
PRIMARY OPERATOR CLASSIFICATION						
Private	8 814.0	7 022.0	527.3	271.4	993.2	10.3
Motor carrier	7 849.6	S	S	49.3	7 310.0	4.9
Owner operator	2 669.6	S	S	S	2 576.0	7.1
Rental	695.8	S	S	50.7	312.1	32.7
Personal transportation	28 574.4	28 339.4	S	V	V	3.9
Not applicable ²	V	V	V	V	V	N
For-hire characteristics:						
Type of carrier:						
Contract	4 211.1	S	S	55.8	3 870.0	7.5
Common	5 350.3	S	47.3	13.9	5 270.9	4.8
Not reported	782.8	S	S	S	745.2	14.5
Not applicable ⁶	38 259.3	35 854.9	776.8	322.1	1 305.4	2.9
Type of service:						
Truckload	6 185.4	S	S	S	6 135.8	3.9
Less-than truckload	3 360.5	27.2	S	36.2	2 986.4	9.5
Not reported	798.3	S	S	S	764.0	14.4
Not applicable ⁶	38 259.3	35 854.9	776.8	322.1	1 305.4	2.9
Source of hauls:						
Shippers or receivers	7 910.2	S	S	66.0	7 515.4	4.6
Brokers	525.2	V	V	S	523.0	16.3
Centralized markets or exchanges	97.7	V	S	V	96.9	40.0
Other	V	V	V	V	V	N
Not reported	1 811.0	12.7	43.0	S	1 750.8	8.7
Not applicable ⁶	38 259.3	35 854.9	776.8	322.1	1 305.4	2.9
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	2 769.1	V	S	22.4	2 739.5	7.9
Not carrying hazardous materials	8 355.2	210.2	682.1	300.0	7 162.8	4.0
Not reported	1 111.6	42.1	70.8	21.7	977.0	11.6
Not applicable ⁸	36 367.5	35 638.8	365.9	50.7	312.1	3.0
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	S	S	S	11.7	13.5	S
Air bag(s) (safety device only)	28 516.0	27 322.8	399.7	58.8	734.8	4.1
Air compressor (except air brakes)	2 224.4	S	S	21.8	2 187.8	7.8
Air-conditioning	43 720.8	33 440.3	585.4	218.4	9 476.7	2.6
Air springs	5 454.3	S	S	S	5 430.7	4.7
Antilock brake system	35 088.3	27 831.2	409.1	110.0	6 738.1	3.6
Collision warning system	314.2	S	S	S	280.9	21.7
Computerized drive train control unit	7 048.3	6 079.1	S	S	917.7	11.4
Crane	38.2	S	S	S	20.8	33.5
Electronic vehicle identification device	1 622.9	S	V	S	1 619.2	10.0
Engine retarder/brake	4 705.8	S	S	S	4 680.6	5.1
Front-wheel drive	13 331.6	13 123.9	S	V	V	7.8
Hoist	176.6	14.0	35.7	11.1	115.8	15.8
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	2 010.3	V	S	S	1 763.1	14.4
Internet access	170.9	V	S	V	157.4	30.7
Lift gate	148.9	13.2	64.2	47.5	24.1	18.4
Mounting bar for snowplow	S	S	14.3	S	S	S
Navigational system	116.6	V	V	V	116.6	35.4
Power take-off	2 171.3	S	57.6	47.2	2 061.5	6.9
Radial tires	34 265.4	24 660.7	666.9	219.2	8 718.7	3.6
Reflective material in addition to those required by law	2 710.0	17.1	S	76.6	2 313.3	10.6
Road speed governor	8 051.1	35.2	S	70.3	7 641.6	4.5
Toolbox	4 752.5	2 828.5	142.6	51.7	1 729.7	11.9
Trip recorder or on-board computer with communication capabilities	4 747.8	2 135.3	S	21.8	2 325.2	12.5
Trip recorder or on-board computer without communication capabilities	9 757.7	8 197.8	S	V	1 455.3	9.5
Vehicle control aids for handicapped drivers	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	S
Winch	247.3	11.7	19.6	17.7	198.4	20.5
Transmission type:						
Automatic	32 077.0	31 041.0	704.9	129.4	201.7	3.5
Manual	14 402.1	4 345.6	S	243.9	9 421.2	5.3
Semiautomated manual	160.7	V	V	V	153.1	31.9
Automated manual	265.1	S	V	S	186.4	37.1
Not reported	1 698.5	425.8	29.7	14.0	1 229.1	12.4
Braking system:						
Hydraulic (standard)	665.9	127.3	297.0	144.7	96.8	8.5
Hydraulic with power assist	658.8	92.7	S	94.5	67.5	35.0
Air	10 000.3	S	21.6	141.1	9 830.8	2.7
Other	V	V	V	V	V	N
Not reported	1 309.2	43.5	54.9	14.5	1 196.3	10.2
Not applicable ¹⁰	35 969.3	35 621.0	S	V	V	3.0

See footnotes at end of table.

Table 6. Truck Miles by Vehicle Size: 2002—Con.

[Millions. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Vehicle size					Coefficient of variation of total (percent)
	Total	Light	Medium	Light-heavy	Heavy-heavy	
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	34 800.1	34 266.6	428.1	69.5	35.9	3.2
Diesel	12 587.4	412.5	694.4	325.0	11 155.4	3.2
Natural gas	S	S	V	V	V	S
Propane	S	V	S	S	S	S
Alcohol fuels	V	V	V	V	V	N
Electricity	V	V	V	V	V	N
Combination	1 153.9	1 153.7	S	S	V	31.5
Other	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not applicable ²	V	V	V	V	V	N
Cylinders ¹¹ :						
4 cylinders	3 188.0	3 128.0	48.3	S	S	17.9
6 cylinders	32 802.2	21 385.0	168.8	252.0	10 996.3	3.4
8 cylinders	12 004.7	11 021.9	800.4	128.5	53.9	8.4
Other	608.5	S	S	8.3	135.5	37.1
Cubic inch displacement ¹¹ :						
Gasoline fuel	34 800.1	34 266.6	428.1	69.5	35.9	3.2
Less than 200	7 700.1	7 700.1	V	V	V	11.5
200 to 299	16 943.4	16 906.4	S	10.3	V	6.0
300 to 349	5 029.1	4 967.7	S	S	V	14.3
350 to 399	4 404.5	4 252.2	104.1	32.1	16.1	14.9
400 or more	442.8	S	S	20.0	11.2	39.7
Not available	S	S	7.1	6.8	8.5	S
Diesel fuel	12 587.4	412.5	694.4	325.0	11 155.4	3.2
Less than 400	420.1	S	132.7	68.6	14.7	31.2
400 to 599	1 421.3	S	557.0	225.4	430.8	20.1
600 to 799	6 200.0	V	S	S	6 184.8	4.0
800 or more	2 596.7	V	S	S	2 594.5	7.2
Not available	1 949.4	S	S	S	1 930.7	9.6
Other fuel	1 215.9	1 212.0	S	S	S	30.2
Less than 400	1 212.1	1 212.0	S	S	V	30.3
400 or more	S	V	S	V	S	S
Not available	S	V	V	V	V	S
Not reported	V	V	V	V	V	N
Not applicable ²	V	V	V	V	V	N
REFUELING LOCATION						
Gas station	34 853.6	33 449.2	626.2	203.7	574.4	3.1
Truck stop	6 181.2	S	S	78.7	6 072.6	4.1
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	5 867.8	1 241.4	S	108.8	4 066.0	8.8
Other company's/contractor's facility not open to the public	S	S	S	V	296.2	S
Other	V	V	V	V	V	N
Not reported	929.5	729.7	S	S	182.2	26.0
Not applicable ²	V	V	V	V	V	N
MAINTENANCE⁵						
General maintenance performed by:						
None performed	S	S	S	S	S	S
Company-owned maintenance facility	10 883.5	2 712.9	569.4	171.2	7 429.9	6.0
General repair business or private mechanic	20 385.3	16 157.7	344.7	187.7	3 695.2	5.4
Dealership service department	15 505.2	13 022.4	S	83.3	2 132.1	6.7
Leasing company	306.4	S	S	S	291.7	27.2
Individual not employed/paid by any maintenance type facility	13 752.5	12 419.5	132.6	S	1 157.3	7.9
Other	V	V	V	V	V	N
Not reported	1 658.8	865.9	S	S	780.3	16.7
Not applicable ²	V	V	V	V	V	N
Extensive repairs performed by:						
None performed	38 171.3	29 222.9	989.0	289.4	7 670.0	3.1
Company-owned maintenance facility	1 303.7	S	S	24.2	1 039.1	14.5
General repair business or private mechanic	3 560.8	2 594.5	66.5	61.9	837.9	14.8
Dealership service department	3 303.0	2 069.2	S	S	1 163.8	17.3
Leasing company	S	V	V	V	S	S
Component distributorship (engine, transmission, body, etc.)	198.1	V	V	V	198.1	28.3
Individual not employed/paid by any repair type facility	1 688.1	1 469.6	S	S	181.5	21.9
Other	V	V	V	V	V	N
Not reported	S	S	S	V	V	S
Not applicable ²	V	V	V	V	V	N
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	36 861.9	35 191.8	900.2	337.6	432.4	3.0
2 axles	36 595.4	35 186.5	895.6	330.8	182.5	3.1
3 axles	262.5	S	S	S	245.9	12.7
4 axles	S	V	V	V	S	N
5 axles or more	V	V	V	V	V	N
Not reported	S	V	S	V	V	S
Combinations	11 741.5	699.4	S	57.3	10 759.0	3.3
Single-unit trucks with trailer	997.6	699.4	S	37.7	34.8	28.3
3 axles	467.8	440.6	S	S	S	44.6
4 axles	323.8	S	S	33.1	12.7	43.5
5 axles or more	S	V	S	S	15.4	S
Not reported	S	S	V	V	V	S
Truck-tractors with single trailer	8 681.9	V	V	S	8 662.3	2.9
3 axles	132.6	V	V	V	132.6	22.7
4 axles	669.7	V	V	S	664.9	14.3
5 axles or more	7 876.6	V	V	S	7 861.8	3.1
Not reported	S	V	V	V	S	S
Truck-tractors with double trailers	1 869.0	V	V	V	1 869.0	10.4
5 axles	1 434.5	V	V	V	1 434.5	11.8
6 axles	351.4	V	V	V	351.4	25.8
7 axles	S	V	V	V	S	S
8 axles or more	S	V	V	V	S	S
Not reported	V	V	V	V	V	N

See footnotes at end of table.

Table 6. Truck Miles by Vehicle Size: 2002—Con.

[Millions. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
TRUCK TYPE AND AXLE ARRANGEMENT—Con.						
Combinations—Con.						
Truck-tractors with triple trailers	192.9	V	V	V	192.9	41.5
7 axles	192.9	V	V	V	192.9	41.5
8 axles	V	V	V	V	V	N
9 axles	V	V	V	V	V	N
10 axles or more	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Driving axles:						
1	26 692.8	22 761.1	892.3	365.4	2 674.1	4.5
2	21 896.1	13 130.0	S	S	8 502.9	4.9
3 or more	12.1	V	V	V	12.1	45.0
Not reported	S	V	S	V	S	S
Total liftable axles and locations ¹² :						
None	12 403.6	269.5	776.4	391.2	10 966.6	2.8
1	215.1	S	S	V	213.2	27.7
Forward of the drive axle	150.7	V	V	V	150.7	34.6
Below the chassis	S	S	V	V	S	S
Beyond the chassis	12.1	V	V	V	12.1	36.2
Not reported	S	V	S	V	S	S
2 or more	V	V	V	V	V	N
Forward of the drive axle	V	V	V	V	V	N
Below the chassis	V	V	V	V	V	N
Beyond the chassis	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not reported	15.4	V	S	S	S	46.1
Not applicable ¹⁰	35 969.3	35 621.0	S	V	V	3.0
Total liftable axles and number of braking axles:						
None	12 403.6	269.5	776.4	391.2	10 966.6	2.8
1	215.1	S	S	V	213.2	27.7
0 braking	63.7	V	S	V	62.4	43.2
1 braking	144.2	V	V	V	144.2	36.5
Not reported	S	S	V	V	S	S
2 or more	V	V	V	V	V	N
0 braking	V	V	V	V	V	N
1 braking	V	V	V	V	V	N
2 or more braking	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not reported	15.4	V	S	S	S	46.1
Not applicable ¹⁰	35 969.3	35 621.0	S	V	V	3.0
CAB TYPE						
Conventional cab	11 181.6	218.4	410.7	328.3	10 224.1	2.4
With sleeper	5 073.1	V	V	S	5 058.3	4.9
Without sleeper	5 029.4	218.4	410.7	313.6	4 086.6	4.4
Not reported	1 079.2	V	V	V	1 079.2	11.7
Cab over engine	1 447.5	47.4	S	66.5	966.6	18.0
With sleeper	770.7	V	V	V	770.7	15.5
Without sleeper	638.7	47.4	S	66.5	157.8	36.1
Not reported	S	V	V	V	S	S
Cab forward of engine	S	V	V	V	S	S
Cab beside engine	V	V	V	V	V	N
Not reported	S	S	S	V	V	S
Not applicable ¹⁰	35 969.3	35 621.0	S	V	V	3.0

N Not available. S Estimate does not meet publication standards because of high sampling variability or poor response quality. V Represents an estimate of less than 50 vehicles, 50,000 miles, or 0.05 percent.

¹Comparability of estimates may vary across survey years due to changes in category definitions.
²Vehicles not in use. When the respondent had partial-year ownership of the vehicle, annual miles were adjusted to reflect miles traveled when not owned by the respondent.
³Truck-tractors not in use.
⁴Lessees or lessors of pickups, minivans, other light vans, and sport utilities.
⁵Detail lines do not add to total trucks because items were not applicable or multiple responses were possible.
⁶Includes pickups, minivans, other light vans, and sport utilities; all other vehicles that are private, rental, or used for personal transportation; and vehicles not in use.
⁷Distributed miles data are available in Table 8.
⁸Includes pickups, minivans, other light vans, and sport utilities; all other vehicles that are rental or used for personal transportation; and vehicles not in use.
⁹Pickups, minivans, other light vans, and sport utilities, in the Equipment Type section, were only required to report for aerial work platform/bucket, air bag(s), air-conditioning, antilock brake system, computerized drive train control unit, front-wheel drive, mounting bar for snowplow, radial tires, toolbox, trip recorder, vehicle control aids for handicapped drivers, wheelchair lift, and winch.
¹⁰Pickups, minivans, other light vans, and sport utilities.
¹¹Data were derived from administrative records.
¹²Detail lines do not add to the subtotal line because items were not applicable or multiple responses were possible. When 2 or 3 liftable axles were indicated, respondents properly reported multiple responses, therefore detail lines will be significantly greater than the corresponding subtotal line.

Note: Use caution when assessing the true increase or decrease in any particular data line. Large changes in the "not reported" or "not applicable" estimates should be taken into account.

Note: The Appendix provides instructions for approximating unpublished coefficients of variation (CVs). CVs estimated from sample data are available on request. The Introduction gives information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to this information on the Internet may be found at www.census.gov/svsd/www/02vehinv.html.

Table 7. Truck Miles by Truck Type: 2002

[Millions. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
Total	48 603.4	36 861.9	11 741.5	997.6	8 681.9	1 869.0	192.9	X
Coefficient of variation (percent)	2.3	3.0	3.3	28.3	2.9	10.4	41.5	X
BUSINESS¹								
For-hire transportation or warehousing	9 887.3	591.0	9 296.3	V	7 287.4	1 816.0	192.9	3.8
Vehicle leasing or rental	684.8	S	282.9	V	282.9	V	V	33.2
Agriculture, forestry, fishing, or hunting	833.9	699.8	134.1	S	102.5	V	V	25.8
Mining	58.1	S	56.2	V	56.2	V	V	40.7
Utilities	S	S	21.2	15.7	S	V	V	S
Construction	2 969.2	2 628.9	340.3	S	221.0	V	V	17.9
Manufacturing	692.6	S	248.7	S	241.3	V	V	40.5
Wholesale trade	984.4	850.0	134.4	S	81.6	S	V	35.0
Retail trade	1 207.0	1 051.0	155.9	S	141.4	S	V	25.7
Information services	S	S	V	V	V	V	V	S
Waste management, landscaping, or administrative/support services	236.9	114.7	122.2	S	94.5	V	V	18.7
Arts, entertainment, or recreation services	S	S	S	V	68.1	V	V	S
Accommodation or food services	123.2	48.6	74.6	S	68.1	V	V	30.3
Other services	1 734.6	1 727.7	S	V	S	V	V	29.5
Personal transportation	28 574.4	27 812.3	762.1	762.1	V	V	V	3.9
Not reported	312.7	207.3	105.4	S	92.4	V	V	30.3
Not applicable ²	V	V	V	V	V	V	V	N
BODY TYPE								
Single-unit trucks	37 859.6	36 861.9	997.6	997.6	N	N	N	2.9
Pickup	11 834.6	11 276.3	558.3	558.3	N	N	N	6.2
Minivan	10 207.7	10 097.5	S	S	N	N	N	8.4
Other light vans	3 177.6	3 080.4	S	S	N	N	N	18.2
Sport utility	10 749.3	10 632.6	S	S	N	N	N	8.0
Armored	S	S	V	V	N	N	N	S
Beverage	46.6	46.6	V	V	N	N	N	34.2
Concrete mixer	33.4	29.0	S	S	N	N	N	25.5
Concrete pumper	S	S	V	V	N	N	N	S
Crane	S	S	V	V	N	N	N	S
Curtainside	V	V	V	V	N	N	N	N
Dump	174.5	138.1	36.4	36.4	N	N	N	15.6
Flatbed, stake, or platform	225.0	197.8	S	S	N	N	N	16.3
Low boy	V	V	V	V	N	N	N	N
Pole, logging, pulpwood, or pipe	S	S	V	V	N	N	N	S
Service, utility	118.2	105.8	12.4	12.4	N	N	N	18.7
Service, other	78.9	76.6	S	S	N	N	N	25.8
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk	14.0	14.0	V	V	N	N	N	31.5
Tank, liquids or gases	66.5	66.5	V	V	N	N	N	24.1
Tow/Wrecker	59.7	59.7	V	V	N	N	N	37.7
Trash, garbage, or recycling	62.6	62.6	V	V	N	N	N	26.4
Vacuum	S	S	V	V	N	N	N	S
Van, basic enclosed	312.6	307.2	S	S	N	N	N	12.4
Van, insulated nonrefrigerated	S	S	V	V	N	N	N	S
Van, insulated refrigerated	107.0	80.1	S	S	N	N	N	27.2
Van, open top	17.9	17.9	V	V	N	N	N	31.1
Van, step, walk-in, or multistop	522.7	522.7	V	V	N	N	N	43.7
Van, other	19.8	19.8	S	S	N	N	N	36.3
Other	S	S	V	V	N	N	N	S
Truck-tractors	10 743.8	V	10 743.8	N	8 681.9	1 869.0	192.9	2.5
Automobile carrier	95.9	N	95.9	N	95.9	V	V	32.3
Beverage	50.6	N	50.6	N	50.6	V	V	26.4
Curtainside	S	N	S	N	S	V	V	S
Dump	489.0	N	489.0	N	489.0	V	V	13.4
Flatbed, stake, or platform	802.5	N	802.5	N	802.5	V	V	12.5
Livestock	S	N	S	N	S	V	V	S
Low boy	137.4	N	137.4	N	137.4	V	V	31.4
Mobile home toter	S	N	S	N	S	V	V	S
Open top	121.0	N	121.0	N	121.0	V	V	31.7
Pole, logging, pulpwood, or pipe	84.1	N	84.1	N	84.1	V	V	49.0
Tank, dry bulk	252.8	N	252.8	N	252.8	V	V	24.1
Tank, liquids or gases	825.2	N	825.2	N	825.2	V	V	13.7
Van, basic enclosed	6 373.2	N	6 373.2	N	4 690.9	1 489.4	192.9	4.3
Van, drop-frame	425.3	N	425.3	N	58.6	366.7	V	22.8
Van, insulated nonrefrigerated	109.3	N	109.3	N	109.3	V	V	34.6
Van, insulated refrigerated	884.8	N	884.8	N	872.0	S	V	13.7
Other	V	N	V	N	V	V	V	N
Not applicable ³	V	V	V	N	V	V	V	N
ANNUAL MILES								
Less than 5,000	851.9	793.7	58.1	S	9.0	S	V	12.8
5,000 to 9,999	5 281.9	5 110.4	171.5	S	26.3	S	V	8.4
10,000 to 19,999	19 745.5	18 992.4	753.2	620.0	131.0	S	V	4.8
20,000 to 29,999	7 782.2	7 426.4	355.8	S	215.8	S	V	12.2
30,000 to 49,999	4 139.6	3 349.0	790.6	S	748.4	S	V	19.5
50,000 to 74,999	2 420.6	S	1 309.6	S	1 175.4	107.0	V	24.3
75,000 or more	8 381.7	79.0	8 302.7	V	6 376.1	1 733.7	192.9	3.7
Not applicable ²	V	V	V	V	V	V	V	N

See footnotes at end of table.

Table 7. Truck Miles by Truck Type: 2002—Con.

[Millions. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination			Truck-tractor with triple trailers		
			Total	Single-unit truck with trailer	Truck-tractor with single trailer			Truck-tractor with double trailers
PRIMARY RANGE OF OPERATION								
Off-the-road	1 042.2	S	873.1	V	873.1	V	V	15.7
50 miles or less	28 330.2	27 041.3	1 288.9	349.4	918.1	S	V	3.8
51 to 100 miles	4 827.3	3 782.7	1 044.7	S	677.0	S	V	15.3
101 to 200 miles	1 631.3	654.9	976.4	V	691.2	285.2	V	15.9
201 to 500 miles	2 923.5	457.2	2 466.3	S	1 780.5	527.9	S	9.7
501 miles or more	4 385.9	1 047.1	3 338.8	S	2 236.9	914.9	172.8	11.6
Not reported	5 462.8	3 709.6	1 753.2	S	1 505.0	S	V	11.7
Not applicable ²	V	V	V	V	V	V	V	N
PRIMARY JURISDICTION								
Operated in Canada	S	S	S	V	S	V	V	S
Operated in Mexico	V	V	V	V	V	V	V	N
Operated within the home base state	36 938.9	32 920.4	4 018.5	841.3	2 616.3	513.3	S	3.3
Operated in states other than the home base state	7 754.3	904.6	6 849.6	S	5 422.5	1 263.8	145.4	5.3
Not reported	3 848.4	2 975.8	872.5	S	642.3	91.9	V	13.0
Not applicable ²	V	V	V	V	V	V	V	N
MONTHS OPERATED								
12	39 879.0	30 338.2	9 540.8	899.4	6 838.3	1 637.6	165.5	3.1
7 to 11	5 349.7	3 682.5	1 667.2	33.7	1 480.8	152.7	V	11.7
2 to 6	3 090.1	2 580.7	509.4	S	362.3	S	S	16.1
1 or less	284.6	260.6	S	S	S	S	V	39.8
Vehicle not used	V	V	V	V	V	V	V	N
VEHICLE SIZE								
Light	35 891.1	35 191.8	699.4	699.4	V	V	V	3.1
Medium	1 126.0	900.2	S	S	V	V	V	26.1
Light-heavy	394.8	337.6	57.3	37.7	S	V	V	11.9
Heavy-heavy	11 191.4	432.4	10 759.0	34.8	8 662.3	1 869.0	192.9	2.4
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	28 627.4	28 217.9	S	S	V	V	V	4.1
6,001 to 8,500	6 793.9	6 625.2	S	S	V	V	V	11.6
8,501 to 10,000	469.9	348.6	S	S	V	V	V	31.2
10,001 to 14,000	452.4	443.2	9.2	9.2	V	V	V	28.5
14,001 to 16,000	S	S	S	S	V	V	V	S
16,001 to 19,500	S	81.1	S	S	V	V	V	S
19,501 to 26,000	394.8	337.6	57.3	37.7	S	V	V	11.9
26,001 to 33,000	199.2	131.4	67.8	11.6	56.2	V	V	16.5
33,001 to 40,000	252.8	90.5	162.3	S	155.7	V	V	19.2
40,001 to 50,000	654.4	101.3	553.1	S	475.0	S	V	14.3
50,001 to 60,000	582.8	75.3	507.5	S	493.6	S	V	12.4
60,001 to 80,000	9 185.7	33.9	9 151.8	S	7 370.9	1 771.6	V	3.0
80,001 to 100,000	65.1	V	65.1	V	S	S	S	46.4
100,001 to 130,000	251.3	V	251.3	V	78.5	V	172.8	33.7
130,001 or more	V	V	V	V	V	V	V	N
TOTAL LENGTH (FEET)								
Less than 20.0	34 143.5	34 143.5	V	V	V	V	V	3.4
20.0 to 27.9	2 537.3	2 227.8	S	S	V	V	V	17.0
28.0 to 35.9	743.4	417.6	S	S	37.4	V	V	26.1
36.0 to 40.9	240.9	66.5	174.4	S	142.2	V	V	17.4
41.0 to 44.9	74.4	S	71.5	S	60.8	V	V	26.9
45.0 to 49.9	307.5	S	304.5	S	56.7	V	V	45.4
50.0 to 54.9	523.5	S	523.0	S	414.7	V	V	21.1
55.0 to 59.9	1 320.8	V	1 320.8	S	1 320.4	V	V	10.3
60.0 to 64.9	1 511.8	V	1 511.8	S	1 511.3	V	V	9.2
65.0 to 69.9	2 539.8	V	2 539.8	V	1 894.7	645.1	V	7.3
70.0 to 74.9	3 705.2	V	3 705.2	V	2 772.1	933.2	V	6.3
75.0 to 79.9	762.4	V	762.4	V	471.7	290.7	V	15.7
80.0 or more	192.9	V	192.9	V	V	V	192.9	41.5
MILES PER GALLON								
Less than 5	524.8	127.4	397.4	S	364.7	S	V	13.9
5 to 6.9	8 795.4	211.1	8 584.4	18.7	6 751.3	1 656.8	157.5	3.2
7 to 8.9	921.6	294.0	627.6	S	445.8	100.8	V	11.8
9 to 10.9	2 059.9	2 001.2	58.7	S	S	V	V	26.4
11 to 12.9	2 385.0	2 245.9	S	S	S	V	V	20.2
13 to 14.9	2 704.3	2 697.8	S	S	V	V	V	18.7
15 or more	24 818.6	24 179.8	638.8	630.7	S	V	V	4.8
15 to 20.9	18 761.8	18 153.6	608.3	600.2	S	V	V	5.7
21 to 24.9	4 326.6	4 296.2	S	S	V	V	V	16.9
25 or more	1 730.1	1 730.1	V	V	V	V	V	28.1
Not reported	6 393.8	5 104.7	1 289.1	S	1 065.4	89.7	S	10.1
Not applicable ²	V	V	V	V	V	V	V	N

See footnotes at end of table.

Table 7. Truck Miles by Truck Type: 2002—Con.

[Millions. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
MODEL YEAR								
2003	87.2	S	86.0	V	72.6	S	V	43.4
2002	3 241.1	2 339.6	901.4	V	683.6	217.8	V	15.6
2001	6 038.8	4 555.6	1 483.2	S	842.6	238.2	S	11.4
2000	7 069.6	4 808.4	2 261.2	S	1 637.0	442.8	S	10.4
1999	6 159.8	4 740.8	1 419.0	S	1 266.9	S	V	11.5
1998	4 232.5	2 842.4	1 390.1	S	961.3	184.3	V	11.8
1997	4 255.8	3 415.7	840.0	S	684.0	133.9	V	15.7
1996	3 140.4	2 343.8	796.6	S	679.6	98.2	V	17.2
1995	4 016.9	3 049.5	967.4	S	698.7	214.2	V	14.1
1994	1 975.6	1 585.3	390.3	S	307.1	S	S	18.2
1993	1 725.4	1 362.1	363.3	S	242.0	116.5	V	18.3
Pre-1993	6 660.3	5 817.5	842.8	S	606.6	104.4	V	10.3
VEHICLE ACQUISITION								
New	28 187.8	20 286.2	7 901.5	748.4	5 529.7	1 450.6	172.8	4.1
Used	18 054.5	15 501.4	2 553.1	144.8	2 083.8	304.4	S	6.2
Not reported	2 361.1	1 074.3	1 286.8	S	1 068.4	114.0	V	13.9
LEASE CHARACTERISTICS								
Leased	5 639.0	2 650.7	2 988.4	V	2 458.2	455.4	S	9.9
Lessee	4 552.3	2 196.3	2 356.0	V	1 868.4	412.8	S	11.5
Vehicle only	1 999.6	116.8	1 882.9	V	1 395.3	412.8	S	9.5
Vehicle with driver	473.1	V	473.1	V	473.1	V	V	18.1
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	2 079.5	2 079.5	V	V	V	V	V	23.2
Lessor	885.2	304.4	580.8	V	564.6	S	V	18.7
Vehicle only	400.5	99.7	300.8	V	300.8	V	V	15.7
Vehicle with driver	273.8	S	267.0	V	250.7	V	V	22.1
Not reported	S	S	S	V	S	V	V	S
Not applicable ⁴	S	S	V	V	V	V	V	S
Not reported	S	S	S	V	S	S	V	S
Not leased	24 462.2	18 609.3	5 852.9	646.8	4 363.1	763.6	S	4.8
Not reported	18 502.2	15 602.0	2 900.2	350.8	1 860.6	650.0	S	5.9
Length of leasing agreement:								
Leased	5 639.0	2 650.7	2 988.4	V	2 458.2	455.4	S	9.9
1 to 11 months	325.4	S	308.8	V	306.8	V	V	20.0
12 months or more	2 806.2	207.6	2 598.6	V	2 094.8	429.1	S	7.4
Not reported	82.9	V	82.9	V	S	S	V	46.6
Not applicable ⁴	2 424.4	2 424.4	V	V	V	V	V	21.1
Provisions of lease ⁵ :								
Financing only	1 843.1	150.0	1 693.1	V	1 335.2	318.5	S	9.6
Full maintenance	646.1	105.7	540.3	V	387.2	S	S	15.7
Payment of taxes	824.4	90.3	734.2	V	734.2	V	V	12.5
Obtaining licenses and permits	875.5	97.1	778.4	V	762.1	S	V	12.0
Recordkeeping	477.2	39.0	438.3	V	438.3	V	V	17.2
Fuel contract	319.8	S	310.1	V	310.1	V	V	21.1
PRIMARY OPERATOR CLASSIFICATION								
Private	8 814.0	7 940.8	873.1	235.5	624.8	S	V	10.3
Motor carrier	7 849.6	593.2	7 256.5	V	5 492.3	1 571.3	192.9	4.9
Owner operator	2 669.6	107.9	2 561.7	V	2 276.8	284.9	V	7.1
Rental	695.8	S	288.1	V	288.1	V	V	32.7
Personal transportation	28 574.4	27 812.3	762.1	762.1	V	V	V	3.9
Not applicable ²	V	V	V	V	V	V	V	N
For-hire characteristics:								
Type of carrier:								
Contract	4 211.1	S	3 828.2	V	3 301.8	506.3	S	7.5
Common	5 350.3	94.7	5 255.6	V	3 812.0	1 270.9	172.8	4.8
Not reported	782.8	48.4	734.4	V	655.3	S	V	14.5
Not applicable ⁶	38 259.3	36 336.0	1 923.3	997.6	912.9	S	V	2.9
Type of service:								
Truckload	6 185.4	87.6	6 097.7	V	5 983.2	114.5	V	3.9
Less-than-truckload	3 360.5	S	2 967.3	V	1 111.8	1 662.6	192.9	9.5
Not reported	798.3	45.2	753.1	V	674.1	S	V	14.4
Not applicable ⁶	38 259.3	36 336.0	1 923.3	997.6	912.9	S	V	2.9
Source of hauls:								
Shippers or receivers	7 910.2	S	7 462.6	V	5 548.5	1 721.2	192.9	4.6
Brokers	525.2	S	520.0	V	505.2	S	V	16.3
Centralized markets or exchanges	97.7	S	96.9	V	96.9	V	V	40.0
Other	V	V	V	V	V	V	V	N
Not reported	1 811.0	72.3	1 738.7	V	1 618.5	120.2	V	8.7
Not applicable ⁶	38 259.3	36 336.0	1 923.3	997.6	912.9	S	V	2.9
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	2 769.1	71.6	2 697.5	V	1 643.1	881.6	172.8	7.9
Not carrying hazardous materials	8 355.2	1 439.5	6 915.7	106.0	6 172.0	617.7	S	4.0
Not reported	1 111.6	153.9	957.7	S	578.8	369.7	V	11.6
Not applicable ⁸	36 367.5	35 196.9	1 170.6	882.5	288.1	V	V	3.0
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	S	S	10.1	10.1	V	V	V	S
Air bag(s) (safety device only)	28 516.0	27 086.8	1 429.1	710.3	560.3	123.1	S	4.1
Air compressor (except air brakes)	2 224.4	60.9	2 163.4	S	2 095.3	S	V	7.8
Air-conditioning	43 720.8	33 732.7	9 988.0	767.5	7 504.1	1 523.6	192.9	2.6
Air springs	5 454.3	62.9	5 391.4	S	4 910.9	371.4	S	4.7

See footnotes at end of table.

Table 7. Truck Miles by Truck Type: 2002—Con.

[Millions. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
EQUIPMENT TYPE^{5 9}—Con.								
Antilock brake system	35 088.3	27 726.8	7 361.5	765.2	5 406.0	1 063.5	S	3.6
Collision warning system	314.2	38.2	276.0	V	245.1	S	V	21.7
Computerized drive train control unit	7 048.3	6 150.5	897.8	S	824.8	S	V	11.4
Crane	38.2	38.2	V	V	V	V	V	33.5
Electronic vehicle identification device	1 622.9	S	1 618.2	V	1 524.0	94.2	V	10.0
Engine retarder/brake	4 705.8	52.2	4 653.6	S	4 281.5	336.0	S	5.1
Front-wheel drive	13 331.6	13 062.5	S	S	V	V	V	7.8
Hoist	176.6	154.2	22.4	22.4	V	V	V	15.8
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	2 010.3	S	1 762.3	S	1 270.0	386.6	S	14.4
Internet access	170.9	S	157.4	V	157.4	V	V	30.7
Lift gate	148.9	146.6	S	S	V	V	V	18.4
Mounting bar for snowplow	S	S	9.4	9.4	V	V	V	S
Navigational system	116.6	S	114.4	V	114.4	V	V	35.4
Power take-off	2 171.3	351.7	1 819.6	38.7	1 780.9	V	V	6.9
Radial tires	34 265.4	25 273.0	8 992.4	603.3	6 810.8	1 385.3	192.9	3.6
Reflective material in addition to those required by law	2 710.0	510.3	2 199.7	25.3	2 156.6	S	V	10.6
Road speed governor	8 051.1	528.8	7 522.2	S	5 842.6	1 482.0	192.9	4.5
Toolbox	4 752.5	3 102.4	1 650.2	50.7	1 503.4	S	V	11.9
Trip recorder or on-board computer with communication capabilities	4 747.8	2 418.8	2 329.0	S	2 287.3	S	V	12.5
Trip recorder or on-board computer without communication capabilities	9 757.7	7 862.2	1 895.5	466.3	845.9	563.2	S	9.5
Vehicle control aids for handicapped drivers	V	V	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	V	V	S
Winch	247.3	113.3	134.1	S	94.7	S	V	20.5
Transmission type:								
Automatic	32 077.0	31 132.3	944.7	841.7	103.0	V	V	3.5
Manual	14 402.1	5 264.0	9 138.0	53.9	7 379.5	1 511.8	192.9	5.3
Semiautomated manual	160.7	S	152.7	V	136.5	S	V	31.9
Automated manual	265.1	S	186.4	V	186.4	V	V	37.1
Not reported	1 698.5	378.9	1 319.6	S	876.6	340.9	V	12.4
Braking system:								
Hydraulic (standard)	665.9	578.6	87.3	37.2	50.0	V	V	8.5
Hydraulic with power assist	658.8	658.0	72.8	34.7	S	V	V	35.0
Air	10 000.3	486.1	9 514.2	43.2	7 749.7	1 528.3	192.9	2.7
Other	V	V	V	V	V	V	V	N
Not reported	1 309.2	124.5	1 184.7	V	844.1	340.6	V	10.2
Not applicable ¹⁰	35 969.3	35 086.8	882.5	882.5	V	V	V	3.0
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	34 800.1	33 991.4	808.6	808.6	V	V	V	3.2
Diesel	12 587.4	1 654.6	10 932.8	S	8 681.9	1 869.0	192.9	3.2
Natural gas	S	S	V	V	V	V	V	S
Propane	S	S	V	V	V	V	V	S
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	1 153.9	1 153.9	V	V	V	V	V	31.5
Other	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	V	V	V	V	V	V	V	N
Cylinders¹¹:								
4 cylinders	3 188.0	3 103.7	S	S	S	V	V	17.9
6 cylinders	32 802.2	21 972.6	10 829.6	S	8 560.6	1 869.0	192.9	3.4
8 cylinders	12 004.7	11 395.4	609.2	606.8	S	V	V	8.4
Other	608.5	S	218.3	S	115.4	V	V	37.1
Cubic inch displacement¹¹:								
Gasoline fuel								
Less than 200	34 800.1	33 991.4	808.6	808.6	V	V	V	3.2
200 to 299	7 700.1	7 619.3	S	S	V	V	V	11.5
300 to 349	16 943.4	16 711.1	S	S	V	V	V	6.0
350 to 399	5 029.1	4 988.6	S	S	V	V	V	14.3
400 or more	4 404.5	4 203.1	S	S	V	V	V	14.9
Not available	442.8	S	S	S	V	V	V	39.7
Diesel fuel								
Less than 400	12 587.4	1 654.6	10 932.8	S	8 681.9	1 869.0	192.9	3.2
400 to 599	420.1	411.6	S	S	S	V	V	31.2
600 to 799	1 421.3	1 056.9	364.4	S	197.1	V	V	20.1
800 or more	6 200.0	145.2	6 054.8	S	5 075.8	909.9	S	4.0
Not available	2 596.7	22.9	2 573.8	V	2 306.0	240.4	S	7.2
Other fuel	1 949.4	18.0	1 931.4	V	1 102.7	718.7	S	9.6
Less than 400	1 215.9	1 215.9	V	V	V	V	V	30.2
400 or more	1 212.1	1 212.1	V	V	V	V	V	30.3
Not available	S	S	V	V	V	V	V	S
Not reported	V	V	V	V	V	V	V	S
Not applicable ²	V	V	V	V	V	V	V	N
REFUELING LOCATION								
Gas station	34 853.6	33 569.0	1 284.6	857.1	423.0	S	V	3.1
Truck stop	6 181.2	100.5	6 080.7	S	5 819.1	209.2	S	4.1
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	5 867.8	2 039.4	3 828.4	42.8	2 208.9	1 419.2	157.5	8.8
Other company's/contractor's facility not open to the public	S	S	293.6	V	136.6	157.1	V	S
Other	V	V	V	V	V	V	V	N
Not reported	929.5	675.3	254.2	S	94.3	S	V	26.0
Not applicable ²	V	V	V	V	V	V	V	N

See footnotes at end of table.

Table 7. Truck Miles by Truck Type: 2002—Con.

[Millions. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
MAINTENANCE⁵								
General maintenance performed by:								
None performed	S	S	S	V	S	V	V	S
Company-owned maintenance facility	10 883.5	3 690.2	7 193.2	49.1	5 517.6	1 469.0	157.5	6.0
General repair business or private mechanic	20 385.3	16 484.4	3 900.9	S	3 407.1	196.7	V	5.4
Dealership service department	15 505.2	12 878.4	2 626.7	586.2	1 918.7	121.8	V	6.7
Leasing company	306.4	27.3	279.0	V	126.0	S	S	27.2
Individual not employed/paid by any maintenance type facility								
Other	13 752.5	12 460.7	1 291.8	S	949.5	133.5	V	7.9
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	1 658.8	804.4	854.5	S	694.6	S	V	16.7
Not applicable ²	V	V	V	V	V	V	V	N
Extensive repairs performed by:								
None performed	38 171.3	30 150.6	8 020.7	687.5	5 903.0	1 269.2	161.0	3.1
Company-owned maintenance facility	1 303.7	210.2	1 093.5	S	708.2	258.9	V	14.5
General repair business or private mechanic	3 560.8	2 724.3	836.4	S	701.7	113.7	V	14.8
Dealership service department	3 303.0	2 045.7	1 257.3	S	876.7	225.4	S	17.3
Leasing company	S	V	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)								
Individual not employed/paid by any repair type facility	198.1	S	188.9	V	152.7	S	V	28.3
Other	1 688.1	1 435.8	252.2	S	176.3	V	V	21.9
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	S	S	S	S	S	S	S	S
Not applicable ²	V	V	V	V	V	V	V	N
AXLE ARRANGEMENT								
Driving axles:								
1	26 692.8	23 534.7	3 158.1	698.7	795.0	1 471.5	192.9	4.5
2	21 896.1	13 319.6	8 576.6	294.5	7 884.6	397.4	V	4.9
3 or more	12.1	7.7	S	S	V	V	V	45.0
Not reported	S	S	S	V	S	V	V	S
Total liftable axles and locations ¹² :								
None	12 403.6	1 714.5	10 689.1	109.4	8 554.7	1 832.1	192.9	2.8
1	215.1	52.0	163.1	S	124.9	S	V	27.7
Forward of the drive axle	150.7	S	134.6	V	97.7	S	V	34.6
Below the chassis	S	19.3	S	V	S	V	V	S
Beyond the chassis	12.1	12.1	V	V	V	V	V	36.2
Not reported	S	S	S	S	V	V	V	S
2 or more	V	V	V	V	V	V	V	N
Forward of the drive axle	V	V	V	V	V	V	V	N
Below the chassis	V	V	V	V	V	V	V	N
Beyond the chassis	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not reported	15.4	S	S	S	S	V	V	46.1
Not applicable ¹⁰	35 969.3	35 086.8	882.5	882.5	V	V	V	3.0
Total liftable axles and number of braking axles:								
None	12 403.6	1 714.5	10 689.1	109.4	8 554.7	1 832.1	192.9	2.8
1	215.1	52.0	163.1	S	124.9	S	V	27.7
0 braking	63.7	S	S	S	S	V	V	43.2
1 braking	144.2	34.6	109.6	V	72.7	S	V	36.5
Not reported	S	S	V	V	V	V	V	S
2 or more	V	V	V	V	V	V	V	N
0 braking	V	V	V	V	V	V	V	N
1 braking	V	V	V	V	V	V	V	N
2 or more braking	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not reported	15.4	S	S	S	S	V	V	46.1
Not applicable ¹⁰	35 969.3	35 086.8	882.5	882.5	V	V	V	3.0
CAB TYPE								
Conventional cab								
With sleeper	11 181.6	1 259.8	9 921.8	108.0	7 863.8	1 792.6	157.5	2.4
Without sleeper	5 073.1	V	5 073.1	V	4 705.7	296.2	S	4.9
Not reported	5 029.4	1 259.8	3 769.6	108.0	2 376.3	1 199.0	S	4.4
Not reported	1 079.2	V	1 079.2	V	781.8	297.4	V	11.7
Cab over engine								
With sleeper	1 447.5	510.3	937.2	S	818.2	S	S	18.0
Without sleeper	770.7	V	770.7	V	699.8	S	S	15.5
Not reported	638.7	510.3	128.4	S	97.3	S	V	36.1
Not reported	S	V	S	V	S	S	V	S
Cab forward of engine								
Cab beside engine	S	S	V	V	V	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not applicable ¹⁰	S	S	V	V	V	V	V	S
Not applicable ¹⁰	35 969.3	35 086.8	882.5	882.5	V	V	V	3.0

N Not available. S Estimate does not meet publication standards because of high sampling variability or poor response quality. V Represents an estimate of less than 50 vehicles, 50,000 miles, or 0.05 percent.

¹Comparability of estimates may vary across survey years due to changes in category definitions.
²Vehicles not in use. When the respondent had partial-year ownership of the vehicle, annual miles were adjusted to reflect miles traveled when not owned by the respondent.
³Truck-tractors not in use.
⁴Lessees or lessors of pickups, minivans, other light vans, and sport utilities.
⁵Detail lines do not add to total trucks because items were not applicable or multiple responses were possible.
⁶Includes pickups, minivans, other light vans, and sport utilities; all other vehicles that are private, rental, or used for personal transportation; and vehicles not in use.
⁷Distributed miles data are available in Table 8.
⁸Includes pickups, minivans, other light vans, and sport utilities; all other vehicles that are rental or used for personal transportation; and vehicles not in use.
⁹Pickups, minivans, other light vans, and sport utilities, in the Equipment Type section, were only required to report for aerial work platform/bucket, air bag(s), air-conditioning, antilock brake system, computerized drive train control unit, front-wheel drive, mounting bar for snowplow, radial tires, toolbox, trip recorder, vehicle control aids for handicapped drivers, wheelchair lift, and winch.
¹⁰Pickups, minivans, other light vans, and sport utilities.
¹¹Data were derived from administrative records.
¹²Detail lines do not add to the subtotal line because items were not applicable or multiple responses were possible. When 2 or 3 liftable axles were indicated, respondents properly reported multiple responses, therefore detail lines will be significantly greater than the corresponding subtotal line.

Note: Use caution when assessing the true increase or decrease in any particular data line. Large changes in the "not reported" or "not applicable" estimates should be taken into account.

Note: The Appendix provides instructions for approximating unpublished coefficients of variation (CVs). CVs estimated from sample data are available on request. The Introduction gives information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to this information on the Internet may be found at www.census.gov/svsd/www/02vehinv.html.

Table 8. Truck Miles Distribution by Operational Characteristics: 2002

[Millions. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Truck miles distribution for all trucks		Truck miles distribution excluding pickups, minivans, other light vans, and sport utilities		Coefficient of variation (percent)	
	A	B	A	B	A	B
Total	48 603.4	12 634.1	2.3	2.8		
TRAILER CONFIGURATION						
No trailer pulled	37 123.6	2 015.8	3.0	11.8		
Single trailer pulled	9 579.2	8 717.7	3.1	2.7		
Double trailers pulled	1 725.0	1 725.0	10.3	10.3		
Triple trailers pulled	175.6	175.6	40.1	40.1		
Not applicable ¹	V	V	N	N		
RANGE OF OPERATION						
Off-the-road	1 149.3	896.7	12.6	13.0		
50 miles or less	25 181.9	2 031.4	3.6	7.4		
51 to 100 miles	6 157.0	1 330.7	10.6	9.4		
101 to 200 miles	2 564.4	1 266.1	8.1	6.9		
201 to 500 miles	3 176.6	2 225.5	7.2	6.8		
501 miles or more	4 911.4	3 190.1	10.3	7.0		
Not reported	5 462.8	1 693.6	11.7	8.7		
Not applicable ¹	V	V	N	N		
JURISDICTION						
Operated in Canada	S	19.6	S	35.7		
Operated in Mexico	S	S	S			
Operated within the home base state	35 251.0	5 014.4	3.2	5.4		
Operated in states other than the home base state	9 405.6	6 797.9	4.6	3.8		
Not reported	3 848.4	799.7	13.0	13.7		
Not applicable ¹	V	V	N	N		
OPERATOR CLASSIFICATION						
Private	8 490.3	1 900.9	9.6	5.3		
Motor carrier	7 846.5	7 716.8	4.9	4.7		
Owner operator	2 650.5	2 618.7	7.0	7.0		
Rental	682.9	392.2	32.1	15.9		
Personal transportation	28 933.1	S	3.7	S		
Not applicable ¹	V	V	N	N		
For-hire characteristics:						
Type of carrier:						
Contract	4 046.9	4 046.9	5.8	5.8		
Common	5 514.5	5 514.5	4.9	4.9		
Not reported	782.8	782.8	14.5	14.5		
Not applicable ^{2 3}	38 259.3	2 290.0	2.9	5.1		
Type of service:						
Truckload	3 422.8	3 422.8	9.1	9.1		
Less-than truckload	6 123.0	6 123.0	3.8	3.8		
Not reported	798.3	798.3	14.4	14.4		
Not applicable ^{2 3}	38 259.3	2 290.0	2.9	5.1		
PRODUCTS CARRIED⁴						
Animals and fish, live	S	S	S	S		
Animal feed and products of animal origin	64.1	22.2	40.6	37.0		
Grains, cereal	128.1	109.1	21.6	18.9		
All other agricultural products	102.6	61.2	27.8	29.5		
Basic chemicals	62.4	62.4	34.7	34.7		
Fertilizers and fertilizer materials	64.1	43.2	41.7	38.6		
Pharmaceutical products	S	S	S	S		
All other chemical products and preparations	313.7	241.4	27.0	19.7		
Alcoholic beverages	133.1	133.1	16.5	16.5		
Bakery and milled grain products	335.4	335.4	13.6	13.6		
Meat, seafood, and their preparations	224.7	224.7	18.1	18.1		
Tobacco products	22.7	22.7	49.3	49.3		
All other prepared foodstuffs	686.7	570.0	19.4	11.3		
Logs and other wood in the rough	20.3	18.3	30.1	31.5		
Paper or paperboard articles	351.8	281.8	22.7	13.7		
Printed products	127.8	94.7	33.3	32.4		
Pulp, newsprint, paper, and paperboard	164.5	164.5	17.6	17.6		
Wood products	232.7	129.2	26.5	19.0		
Articles of base metal	657.8	119.6	35.2	20.8		
Base metal in primary or semifinished forms	353.1	316.3	16.0	16.6		
Nonmetallic mineral products	281.6	184.4	33.6	17.7		
Tools, nonpowered	1 858.5	211.6	20.6	13.2		
Tools, powered	1 652.2	251.7	22.0	12.2		
Electronic and other electrical equipment	753.5	145.0	35.4	16.3		
Furniture, mattresses, lamps, etc.	300.4	192.8	28.2	18.5		
Machinery	718.5	160.4	32.5	19.4		
Miscellaneous manufactured products	406.3	226.7	25.6	13.4		
Precision instruments and apparatus	S	77.5	S	18.2		
Textile, leather, and related articles	271.9	214.8	20.0	17.0		
Vehicles, including parts	276.5	246.7	17.3	15.1		
All other transportation equipment	S	S	S	S		
Coal	47.6	47.6	34.0	34.0		
Crude petroleum	S	S	S	S		
Gravel or crushed stone	144.3	144.3	14.4	14.4		
Metallic ores and concentrates	S	S	S	S		
Monumental or building stone	13.3	13.3	37.6	37.6		
Natural sands	42.4	41.4	28.9	29.5		
All other nonmetallic minerals	34.4	34.4	38.9	38.9		
Fuel oils	67.1	47.1	34.2	39.7		
Gasoline and aviation turbine fuel	44.8	32.6	39.5	39.4		

See footnotes at end of table.

Table 8. Truck Miles Distribution by Operational Characteristics: 2002—Con.

[Millions. Estimates are based on data from the 2002 Vehicle Inventory and Use Survey. Because of rounding, estimates may not be additive]

Vehicular and operational characteristics	Truck miles distribution for all trucks	Truck miles distribution excluding pickups, minivans, other light vans, and sport utilities	Coefficient of variation (percent)	
	A	B	A	B
PRODUCTS CARRIED⁴—Con.				
Plastics and rubber	S	84.0	S	24.5
All other coal and refined petroleum products	67.5	49.0	36.8	33.8
Hazardous waste (EPA manifest)	S	S	S	S
All other waste and scrap (non-EPA manifest)	125.6	119.9	20.1	20.8
Recyclable products	59.7	59.7	31.4	31.4
Mail and courier parcels	1 236.3	1 100.1	22.9	22.6
Empty shipping containers	70.3	70.3	23.3	23.3
Passengers	S	S	S	S
Mixed freight	2 515.1	2 515.1	8.0	8.0
Products, equipment, or materials not elsewhere classified	S	S	S	S
Products not specified	1 036.4	769.3	16.0	12.7
Not applicable ¹	V	V	N	N
HAZARDOUS MATERIALS CARRIED⁴				
Division 1.1, Explosives	V	V	N	N
Division 1.2, Explosives	V	V	N	N
Division 1.3, Explosives	V	V	N	N
Division 1.4, Explosives .....	.7	.7	48.8	48.8
Division 1.5, Explosives	S	S	S	S
Division 1.6, Explosives	S	S	S	S
Division 2.1, Flammable gas	46.6	46.6	29.0	29.0
Division 2.2, Nonflammable gas	35.3	35.3	33.0	33.0
Division 2.3, Poison gas	S	S	S	S
Class 3, Flammable	160.9	160.9	18.9	18.9
Combustible liquid	105.1	105.1	21.2	21.2
Oxygen 2, Oxygen	S	S	S	S
Division 4.1, Flammable solid	36.1	36.1	24.1	24.1
Division 4.2, Spontaneously combustible	S	S	S	S
Division 4.3, Dangerous when wet	2.9	2.9	46.8	46.8
Division 5.1, Oxidizer	28.8	28.8	34.1	34.1
Division 5.2, Organic peroxide	7.3	7.3	34.2	34.2
Division 6.1, Poison inhalation hazard	7.5	7.5	35.1	35.1
Division 6.1, Poison	S	S	S	S
Class 7, Radioactive	V	V	N	N
Class 8, Corrosive	136.5	136.5	17.3	17.3
Class 9	35.5	35.5	38.7	38.7
Hazardous materials not specified	119.2	119.2	18.8	18.8
Not applicable ¹	V	V	N	N

N Not available. S Estimate does not meet publication standards because of high sampling variability or poor response quality. V Represents an estimate of less than 50 vehicles, 50,000 miles, or 0.05 percent.

¹Vehicles not in use. When the respondent had partial-year ownership of the vehicle, annual miles were adjusted to reflect miles traveled when not owned by the respondent.

²Column A includes: pickups, minivans, other light vans, and sport utilities; all other vehicles that are private, rental, or used for personal transportation; and vehicles not in use.

³Column B includes: all other vehicles that are private, rental, used for personal transportation, or not in use.

⁴Detail lines may not add to total because multiple products/hazardous materials may be carried at the same time.

Note: The Appendix provides instructions for approximating unpublished coefficients of variation (CVs). CVs estimated from sample data are available on request. The Introduction gives information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to this information on the Internet may be found at www.census.gov/svsd/www/02vehinv.html.

Appendix.

Approximating Unpublished Coefficients of Variation

Estimated coefficients of variation (CVs) are presented for only the row and column totals for Tables 4 through 7.

The coefficient of variation for an individual cell in a particular table can be approximated by using the procedure below. CVs for each cell, estimated from the sample data, are available on request.

Tables 4 and 5

The CV (expressed as a percentage) for a cell in a particular table can be calculated as follows:

$$CV(C) = CV(S) * \sqrt{\frac{S (STATE - C)}{C (STATE - S)}}$$

where:

S = the smaller number between the row and column truck totals for the row and column containing the cell

C = the number of trucks in the cell

STATE = the number of trucks in the state

CV(S) = the coefficient of variation corresponding to S

Tables 6 and 7

For Tables 6 and 7, follow the above procedure but replace “trucks” with “truck miles.”

Example

Suppose, in Table 4, there are an estimated 40.0 thousand trucks in the cell for retail light-sized trucks, for which an approximation of the CV is needed. The following information must be extracted from the table: (1) 2222.2 thousand trucks in the state, (2) 46.0 thousand trucks and an estimated CV of 27.6 percent for the “Retail Trade” row, and (3) 2034.0 thousand trucks and an estimated CV of 1.1 percent for the “Light-sized trucks” column. Since the row total of 46.0 thousand is less than the column total of 2034.0 thousand, use the row figure to approximate the CV:

CV (retail light-sized trucks)=

$$\begin{aligned} &= 27.6 * \sqrt{\frac{46.0 * (2222.2 - 40.0)}{40.0 * (2222.2 - 46.0)}} \\ &= 29.6\% \end{aligned}$$

Some exceptions from this procedure will yield better approximations of the coefficients of variation in particular cells. Certain rows and columns in the tables are composed predominantly of “large trucks” (trucks excluding pickups, minivans, other light vans, and sport utilities). Because of the sample design, one obtains a better approximation of the coefficient of variation for a cell when the value of S is equal to the truck total associated with the “large trucks” even though this truck (row or column) total may not be the smaller of the two truck totals. For example, if the column containing the cell is composed of “large trucks,” then S is equal to the column total. When both totals consist of “large trucks,” use the smaller of the row and column totals.

Columns of predominately “large trucks:”

Tables 4 and 6—Light-heavy and Heavy-heavy

Tables 5 and 7—Single-unit truck with trailer and all Truck-tractor trailer columns

Rows of predominately “large-trucks:”

Body Type—All except pickup, minivan, other light vans, and sport utility

Annual Miles—75,000 miles or more

Vehicle Size—Light-heavy and Heavy-heavy

Average Weight—19,501 pounds or more

Total Length—50.0 or more

Miles per Gallon—Less than 5 and 5 to 6.9

Primary Operator Classification— Motor carrier, Owner operator

Primary Operator Classification, For-hire characteristics—Type of carrier, Type of service

Hazardous Materials Carried—Carrying hazardous materials

Equipment Type—Electronic vehicle identification device, Engine retarder/brake, Navigational system, and Reflective material in addition to those required by law

Equipment Type, Braking system—All rows except Not applicable

Fuel Type and Engine Size, Cubic inch displacement, Diesel fuel—600 or more and Not available

Truck Type and Axle Arrangement, Single-unit trucks and truck-tractors without trailer—3 axles or more

Truck Type and Axle Arrangement, Combinations—All Truck-tractor rows

Cab Type—All rows except Not applicable

