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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 Texas 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 Texas, approximately 75.0 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	9.5	7.2	18.2	14.2
Agriculture, forestry, fishing, or hunting	2.0	4.9	7.2	8.5	3 to 4 years old	26.7	18.2	19.2	14.9
Mining .....	.2	.9	.8	.6	Over 4 years old	63.8	74.6	62.6	71.0
Construction	4.0	5.8	7.9	9.8	VEHICLE ACQUISITION				
Manufacturing	1.0	1.0	2.5	1.5	New	69.7	46.8	50.4	45.2
Wholesale and retail trade	2.9	4.8	4.8	5.3	Used	24.4	49.6	47.5	52.4
For-hire transportation or warehousing	1.2	.9	1.1	1.6	Not reported ⁴	6.0	3.6	2.1	2.5
Utilities and all services	5.6	9.0	5.1	4.7	TRUCK TYPE				
Personal transportation	80.1	71.4	69.4	67.9	Single-unit trucks ⁵	95.3	97.0	96.5	96.5
Other, not reported, and not applicable	3.0	1.3	1.2	.3	2 axles	94.8	96.4	96.0	95.8
BODY TYPE					3 axles or more .....	.5	.6	.5	.7
Pickup, minivan, other light vans, and sport utility	95.2	94.1	94.0	91.8	Trailer/axles not specified	V	N	N	N
Flatbed, stake, platform, and low boy	1.2	2.0	1.9	2.9	Combinations	4.7	3.0	3.5	3.5
Van ²	1.4	1.6	1.2	1.5	3 axles .....	.1	.7	.6	1.0
Service, utility .....	.2	.1	.3	.3	4 axles	3.2	.7	1.4	1.0
Van, step, walk-in, or multistop .....	.4	.3	.4	1.1	5 axles or more	1.2	1.7	1.5	1.5
Dump .....	.4	.5	.5	.6	Trailer/axles not specified .....	.2	V	V	V
Tank for liquids, gases, or dry bulk .....	.4	.5	.4	.5	RANGE OF OPERATION				
Other and not applicable .....	.7	1.0	1.3	1.4	50 miles or less	66.7	67.5	70.5	71.7
VEHICLE SIZE					51 to 200 miles	13.2	23.0	17.0	17.8
Light	93.8	95.2	95.6	94.3	201 miles or more	2.9	4.0	4.4	4.8
Medium	2.6	1.0	1.1	1.7	Off-the-road, not reported, and not applicable	17.1	5.5	8.1	5.6
Light-heavy	1.0	.8	.7	.9	FUEL TYPE				
Heavy-heavy	2.6	2.9	2.5	3.1	Gasoline	88.9	91.3	92.2	94.3
ANNUAL MILES					All other fuels	9.0	8.7	7.5	5.7
Less than 5,000 ³	13.7	14.3	15.8	22.1	Other, not reported, and not applicable	2.0	.1	.3	V
5,000 to 9,999	13.4	14.2	15.9	19.2					
10,000 to 19,999	49.6	42.0	41.0	35.5					
20,000 to 29,999	15.7	18.3	16.9	15.5					
30,000 or more	7.6	11.2	10.3	7.7					

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	8.6	11.1
Agriculture, forestry, fishing, or hunting	7.8	13.1	3 to 4 years old	21.1	14.3
Mining	4.8	4.6	Over 4 years old	70.3	74.5
Construction	16.7	19.8	VEHICLE ACQUISITION		
Manufacturing	6.1	5.1	New	59.8	47.1
Wholesale and retail trade	13.2	18.8	Used	29.9	44.1
For-hire transportation or warehousing	20.4	13.5	Not reported ⁴	10.3	8.9
Utilities and all services	13.0	19.9	TRUCK TYPE		
Personal transportation	S	2.4	Single-unit trucks ⁵	62.6	61.3
Other, not reported, and not applicable	17.7	2.8	2 axles	51.5	50.4
BODY TYPE			3 axles or more	11.1	10.9
Flatbed, stake, platform, and low boy	25.8	33.8	Trailer/axles not specified	V	N
Van ²	28.2	26.4	Combinations	37.4	38.7
Service, utility	4.3	2.1	3 axles	2.1	2.4
Van, step, walk-in, or multistop	9.1	4.7	4 axles	6.2	8.2
Dump	9.3	8.1	5 axles or more	24.7	28.1
Tank for liquids, gases, or dry bulk	7.9	7.9	Trailer/axles not specified	4.5	V
Other and not applicable	15.4	17.1	RANGE OF OPERATION		
VEHICLE SIZE			50 miles or less	45.4	42.8
Light	11.9	18.6	51 to 200 miles	19.6	33.3
Medium	19.7	17.8	201 miles or more	10.4	15.6
Light-heavy	15.5	13.7	Off-the-road, not reported, and not applicable	24.5	8.3
Heavy-heavy	52.9	50.0	FUEL TYPE		
ANNUAL MILES			Gasoline	19.3	28.7
Less than 5,000 ³	18.4	17.9	All other fuels	77.6	70.4
5,000 to 9,999	8.1	11.4	Other, not reported, and not applicable	3.1	.9
10,000 to 19,999	16.8	20.3			
20,000 to 29,999	21.1	14.2			
30,000 or more	35.6	36.1			

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	6 412.0	4 410.6	45.4	96 175.8	71 623.7	34.3	15.0	16.2	-7.6
BUSINESS¹									
For-hire transportation or warehousing	78.6	38.2	105.5	3 861.5	2 751.8	40.3	49.1	72.0	-31.7
Vehicle leasing or rental	23.3	S	S	1 122.9	469.5	139.2	48.3	S	S
Agriculture, forestry, fishing, or hunting	128.3	216.1	-40.6	1 958.6	2 636.7	-25.7	15.3	12.2	25.1
Mining	14.8	41.2	-64.0	456.6	854.3	-46.6	30.8	20.7	48.4
Utilities	45.7	58.9	-22.5	658.3	937.8	-29.8	14.4	15.9	-9.5
Construction	256.3	256.8	-2	5 107.9	6 415.1	-20.4	19.9	25.0	-20.2
Manufacturing	61.4	44.9	36.8	1 245.1	1 219.2	2.1	20.3	27.2	-25.3
Wholesale trade	64.9	90.0	-27.9	2 122.7	2 305.8	-7.9	32.7	25.6	27.6
Retail trade	124.2	122.9	1.0	1 984.0	2 258.4	-12.2	16.0	18.4	-13.0
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	S	N	N	S	N	N	S	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	S	N	N	846.4	N	N	S	N	N
Other services	208.4	N	N	4 611.1	N	N	22.1	N	N
Personal transportation	5 136.8	3 149.7	63.1	69 205.6	45 416.6	52.4	13.5	14.4	-6.6
Not reported	35.6	V	N	S	V	S	S	V	S
Not applicable ²	130.6	35.7	265.9	S	V	S	S	V	S
BODY TYPE									
Single-unit trucks	6 308.7	4 316.2	46.2	90 025.1	65 901.2	36.6	14.3	15.3	-6.5
Pickup	3 326.7	2 578.9	29.0	43 031.0	39 434.0	9.1	12.9	15.3	-15.4
Minivan	693.8	383.5	80.9	11 239.8	6 101.3	84.2	16.2	11.9	1.8
Other light vans	299.3	281.7	6.2	5 704.9	3 845.5	48.4	19.1	13.6	39.6
Sport utility	1 782.2	906.5	96.6	26 010.1	13 606.1	91.2	14.6	15.0	-2.8
Armored	S	N	N	S	N	N	S	N	N
Beverage	1.4	2.5	-42.9	23.4	41.5	-43.7	16.3	16.5	-1.3
Concrete mixer	9.7	5.6	72.0	210.6	110.5	90.6	21.7	19.6	10.9
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane .....	.9	2.2	-60.5	S	33.6	S	S	S	S
Curtainside	V	N	N	V	N	N	V	N	N
Dump	18.1	14.3	27.0	308.2	225.7	36.5	17.0	15.8	7.5
Flatbed, stake, or platform	58.1	63.5	-8.4	1 060.2	946.1	12.1	18.2	14.9	22.4
Low boy	S	V	S	S	V	S	S	V	S
Pole, logging, pulpwood, or pipe .....	.9	S	S	S	S	S	S	S	S
Service, utility	13.4	5.4	148.4	179.2	63.3	183.0	13.4	11.8	13.9
Service, other	9.6	5.4	79.5	174.4	102.9	69.5	18.1	19.2	-5.6
Street sweeper	V	N	N	V	N	N	V	N	N
Tank, dry bulk	S	.6	S	S	S	S	S	S	S
Tank, liquids or gases	12.4	9.0	37.4	177.9	175.7	1.2	14.4	19.5	-26.3
Tow/Wrecker	9.3	5.3	76.3	192.1	87.0	120.7	20.5	16.4	25.2
Trash, garbage, or recycling	4.8	2.6	82.3	168.1	93.3	80.1	35.3	35.7	-1.2
Vacuum	1.6	N	N	17.1	N	N	10.8	N	N
Van, basic enclosed	25.0	21.2	17.9	599.4	483.9	23.9	23.9	22.8	5.1
Van, insulated nonrefrigerated	V	S	S	V	S	S	V	S	S
Van, insulated refrigerated	6.5	5.1	28.1	161.2	142.6	13.0	24.9	28.2	-11.8
Van, open top	1.9	3.1	-38.7	S	23.7	S	S	7.8	S
Van, step, walk-in, or multistop	28.3	12.1	133.1	S	186.2	S	S	15.4	S
Van, other	2.4	N	N	31.3	N	N	12.8	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	103.3	94.5	9.3	6 150.8	5 722.5	7.5	59.5	60.6	-1.7
Automobile carrier	1.2	S	S	136.2	S	S	117.4	S	S
Beverage	1.7	3.5	-50.1	22.2	75.6	-70.6	12.8	21.8	-41.0
Curtainside	S	N	N	S	N	N	S	N	N
Dump	10.6	6.7	59.1	593.8	371.3	59.9	56.1	55.8	.5
Flatbed, stake, or platform	17.5	18.5	-5.6	766.5	923.2	-17.0	43.8	49.8	-12.0
Livestock .....	.9	1.0	-12.9	S	53.9	S	S	53.4	S
Low boy	4.1	4.8	-14.7	161.9	121.8	33.0	39.3	25.2	55.8
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	3.4	4.0	-16.2	218.9	207.1	5.7	64.8	51.3	26.2
Pole, logging, pulpwood, or pipe	1.6	1.5	5.8	69.4	51.7	34.1	42.7	33.7	26.8
Tank, dry bulk	1.9	1.8	7.0	146.9	101.3	45.0	76.6	56.5	35.5
Tank, liquids or gases	9.5	9.2	4.0	552.6	649.8	-15.0	57.9	70.8	-18.2
Van, basic enclosed	34.6	28.5	21.4	2 254.9	2 031.6	11.0	65.2	71.3	-8.6
Van, drop-frame	S	.9	S	S	30.9	S	S	34.5	S
Van, insulated nonrefrigerated .....	.6	.8	-25.0	S	55.5	S	S	70.7	S
Van, insulated refrigerated	12.5	9.2	36.1	1 113.3	922.9	20.6	89.1	100.6	-11.4
Other	S	N	N	S	N	N	S	N	N
Not applicable ³	2.3	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	749.8	596.7	25.7	1 394.7	1 303.3	7.0	1.9	2.2	-14.8
5,000 to 9,999	861.5	624.2	38.0	5 998.9	4 425.4	35.6	7.0	7.1	-1.8
10,000 to 19,999	3 179.3	1 852.0	71.7	43 539.8	25 089.7	73.5	13.7	13.5	1.1
20,000 to 29,999	1 003.8	807.6	24.3	22 532.1	18 377.7	22.6	22.4	22.8	-1.4
30,000 to 49,999	350.0	361.7	-3.3	12 380.0	12 801.8	-3.3	35.4	35.4	V
50,000 to 74,999	97.4	97.1	.4	5 863.9	5 538.5	5.9	60.2	57.1	5.5
75,000 or more	39.5	35.6	11.2	4 387.9	4 087.2	7.4	111.0	114.9	-3.4
Not applicable ²	130.6	35.7	265.9	S	V	S	S	V	S

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	60.6	207.8	-70.8	589.5	2 644.0	-77.7	9.7	12.7	-23.6
50 miles or less	4 278.3	2 977.2	43.7	59 511.8	41 873.9	42.1	13.9	14.1	-1.1
51 to 100 miles	655.2	755.2	-13.3	12 198.5	14 234.5	-14.3	18.6	18.8	-1.2
101 to 200 miles	194.4	260.4	-25.4	5 081.1	6 929.8	-26.7	26.1	26.6	-1.8
201 to 500 miles	100.3	65.0	54.3	2 926.4	1 921.2	52.3	29.2	29.5	-1.3
501 miles or more	88.5	109.3	-19.0	2 465.6	4 020.4	-38.7	27.8	36.8	-24.3
Not reported	904.0	35.7	2 433.1	13 324.4	V	N	14.7	V	N
Not applicable ²	130.6	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	V	N	N	V	N	N	V	N	N
Operated in Mexico	S	N	N	S	N	N	S	N	N
Operated within the home base state	5 584.0	N	N	85 061.6	N	N	15.2	N	N
Operated in states other than the home base state	76.7	N	N	2 283.9	N	N	29.8	N	N
Not reported	606.9	N	N	8 409.0	N	N	13.9	N	N
Not applicable ²	130.6	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	5 116.7	N	N	81 719.1	N	N	16.0	N	N
7 to 11	594.1	N	N	8 955.1	N	N	15.1	N	N
2 to 6	464.6	N	N	4 949.6	N	N	10.7	N	N
1 or less	106.0	N	N	S	N	N	S	N	N
Vehicle not used	130.6	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	6 015.7	4 198.9	43.3	85 017.8	63 727.7	33.4	14.1	15.2	-6.9
Medium	168.8	46.2	265.3	2 601.8	709.4	266.7	15.4	15.4	.4
Light-heavy	63.4	35.6	77.9	940.0	629.9	49.2	14.8	17.7	-16.1
Heavy-heavy	164.0	129.9	26.3	7 616.1	6 556.7	16.2	46.4	50.5	-8.0
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	4 663.5	4 057.2	14.9	63 821.6	61 280.4	4.1	13.7	15.1	-9.4
6,001 to 8,500	1 159.8	N	N	17 581.4	N	N	15.2	N	N
8,501 to 10,000	192.4	N	N	3 614.8	N	N	18.8	N	N
10,001 to 14,000	83.3	19.3	331.6	1 418.6	272.5	420.6	17.0	14.1	20.6
14,001 to 16,000	S	14.4	S	411.3	218.0	88.7	S	15.2	S
16,001 to 19,500	55.9	12.5	346.4	771.9	218.9	252.6	13.8	17.5	-21.0
19,501 to 26,000	63.4	35.6	77.9	940.0	629.9	49.2	14.8	17.7	-16.1
26,001 to 33,000	20.3	18.5	10.1	488.1	425.2	14.8	24.0	23.0	4.3
33,001 to 40,000	13.0	13.6	-3.7	345.8	335.1	3.2	26.5	24.7	7.2
40,001 to 50,000	24.5	24.3	.6	578.6	803.5	-28.0	23.6	33.0	-28.4
50,001 to 60,000	18.0	10.2	76.7	556.3	440.6	26.3	31.0	43.3	-28.6
60,001 to 80,000	84.1	61.4	36.9	5 371.1	4 437.7	21.0	63.9	72.2	-11.6
80,001 to 100,000	2.9	1.5	98.9	190.3	86.6	119.7	64.6	58.5	10.5
100,001 to 130,000	1.0	S	S	81.8	S	S	79.3	S	S
130,001 or more	S	S	S	S	S	S	S	S	S
TOTAL LENGTH (FEET)									
Less than 20.0	5 105.5	4 179.3	22.2	69 542.5	63 720.8	9.1	13.6	15.2	-10.7
20.0 to 27.9	508.4	82.1	519.4	8 327.7	1 223.4	580.7	16.4	14.9	9.9
28.0 to 35.9	417.7	50.3	730.5	7 554.4	815.7	826.1	18.1	16.2	11.5
36.0 to 40.9	162.6	7.3	2 139.2	3 339.7	159.9	1 988.3	20.5	22.0	-6.7
41.0 to 44.9	53.6	1.1	4 834.6	654.3	S	S	12.2	S	S
45.0 to 49.9	54.7	6.5	738.8	738.4	177.4	316.1	13.5	27.2	-50.4
50.0 to 54.9	33.6	10.1	231.8	1 102.1	443.0	148.8	32.8	43.8	-25.0
55.0 to 59.9	17.2	26.5	-35.2	914.2	1 333.9	-31.5	53.2	50.3	5.8
60.0 to 64.9	25.9	28.2	-8.2	1 499.7	2 019.3	-25.7	58.0	71.6	-19.1
65.0 to 69.9	15.6	13.0	20.3	1 027.1	1 157.2	-11.2	65.8	89.2	-26.2
70.0 to 74.9	10.1	3.5	188.3	785.0	384.1	104.4	77.6	109.4	-29.1
75.0 to 79.9	6.3	N	N	622.8	N	N	98.2	N	N
80.0 or more .....	.9	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	28.7	25.2	13.5	837.7	848.2	-1.2	29.2	33.6	-13.0
5 to 6.9	98.4	99.7	-1.3	4 623.7	4 797.0	-3.6	47.0	48.1	-2.3
7 to 8.9	43.1	55.5	-22.4	977.6	1 424.1	-31.4	22.7	25.6	-11.6
9 to 10.9	205.0	250.8	-18.3	2 629.2	3 358.9	-21.7	12.8	13.4	-4.2
11 to 12.9	480.4	438.4	9.6	7 273.5	6 932.2	4.9	15.1	15.8	-4.2
13 to 14.9	601.6	811.4	-25.9	8 677.8	11 183.1	-22.4	14.4	13.8	4.7
15 or more	3 913.7	2 700.2	44.9	56 599.8	42 804.6	32.2	14.5	15.9	-8.8
15 to 20.9	3 249.5	2 009.2	61.7	46 358.7	33 051.6	40.3	14.3	16.5	-13.3
21 to 24.9	401.9	537.4	-25.2	6 700.3	7 916.4	-15.4	16.7	14.7	13.2
25 or more	262.3	153.5	70.9	3 540.7	1 836.7	92.8	13.5	12.0	12.8
Not reported	910.5	29.4	2 993.0	14 477.9	275.7	5 151.2	15.9	9.4	69.8
Not applicable ²	130.6	N	N	S	N	N	S	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	2.2	N	N	160.1	N	N	72.3	N	N
2002	S	N	N	1 009.8	N	N	S	N	N
2001	558.8	N	N	9 997.2	N	N	17.9	N	N
2000	1 001.9	N	N	17 859.2	N	N	17.8	N	N
1999	711.4	N	N	12 810.1	N	N	18.0	N	N
1998	546.1	S	S	9 366.1	S	S	17.2	S	S
1997	515.7	43.7	1 079.8	9 255.6	1 409.1	556.8	17.9	32.2	-44.3
1996	436.2	271.3	60.8	7 267.5	6 123.1	18.7	16.7	22.6	-26.2
1995	420.4	371.3	13.2	5 661.6	8 343.4	-32.1	13.5	22.5	-40.1
1994	376.7	430.8	-12.6	4 259.5	9 682.6	-56.0	11.3	22.5	-49.7
1993	244.4	377.3	-35.2	2 798.2	6 708.0	-58.3	11.4	17.8	-35.6
Pre-1993	1 549.9	2 915.1	-46.8	15 730.9	39 284.8	-60.0	10.1	13.5	-24.7
VEHICLE ACQUISITION									
New	4 467.5	2 063.3	116.5	72 218.7	36 474.1	98.0	16.2	17.7	-8.6
Used	1 561.6	2 188.8	-28.7	17 665.5	31 356.9	-43.7	11.3	14.3	-21.0
Not reported	382.9	158.5	141.5	6 291.6	3 792.8	65.9	16.4	23.9	-31.3
LEASE CHARACTERISTICS									
Leased	404.5	N	N	9 704.9	N	N	24.0	N	N
Lessee	289.4	N	N	6 603.4	N	N	22.8	N	N
Vehicle only	20.2	N	N	1 001.6	N	N	49.6	N	N
Vehicle with driver	S	N	N	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ⁴	269.0	N	N	5 594.2	N	N	20.8	N	N
Lessor	73.5	N	N	2 683.1	N	N	36.5	N	N
Vehicle only	29.1	N	N	1 653.4	N	N	56.8	N	N
Vehicle with driver	3.1	N	N	213.1	N	N	68.8	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	3 375.8	N	N	48 281.9	N	N	14.3	N	N
Not reported	2 631.6	N	N	38 189.0	N	N	14.5	N	N
Length of leasing agreement:									
Leased	404.5	N	N	9 704.9	N	N	24.0	N	N
1 to 11 months	4.8	N	N	255.4	N	N	52.9	N	N
12 months or more	48.5	N	N	2 656.1	N	N	54.8	N	N
Not reported .....	.6	N	N	S	N	N	S	N	N
Not applicable ⁴	350.6	N	N	6 737.6	N	N	19.2	N	N
Provisions of lease ⁵ :									
Financing only	30.8	N	N	1 666.5	N	N	54.1	N	N
Full maintenance	24.4	N	N	1 430.1	N	N	58.7	N	N
Payment of taxes	25.8	N	N	1 426.6	N	N	55.3	N	N
Obtaining licenses and permits	25.4	N	N	1 429.8	N	N	56.4	N	N
Recordkeeping	16.6	N	N	965.1	N	N	58.1	N	N
Fuel contract	6.6	N	N	335.8	N	N	51.2	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	1 019.1	N	N	20 577.9	N	N	20.2	N	N
Motor carrier	80.3	N	N	4 053.2	N	N	50.5	N	N
Owner operator	20.1	N	N	1 096.1	N	N	54.6	N	N
Rental	25.1	N	N	1 164.6	N	N	46.4	N	N
Personal transportation	5 136.8	N	N	69 205.6	N	N	13.5	N	N
Not applicable ²	130.6	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	47.1	N	N	2 541.3	N	N	53.9	N	N
Common	27.4	N	N	1 427.5	N	N	52.1	N	N
Not reported	12.2	N	N	529.1	N	N	43.2	N	N
Not applicable ⁶	6 325.2	N	N	91 677.9	N	N	14.5	N	N
Type of service:									
Truckload	43.2	22.8	89.1	2 906.5	2 070.9	40.3	67.3	90.6	-25.8
Less-than truckload	31.0	11.0	181.4	1 055.0	568.8	85.5	34.0	51.6	-34.1
Not reported	12.5	N	N	536.4	N	N	42.9	N	N
Not applicable ⁶	6 325.2	N	N	91 677.9	N	N	14.5	N	N
Source of hauls:									
Shippers or receivers	61.2	N	N	3 119.1	N	N	50.9	N	N
Brokers	4.4	N	N	418.4	N	N	94.8	N	N
Centralized markets or exchanges	2.8	N	N	141.1	N	N	51.0	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	18.4	N	N	819.3	N	N	44.6	N	N
Not applicable ⁶	6 325.2	N	N	91 677.9	N	N	14.5	N	N
HAZARDOUS MATERIALS CARRIED⁷									
Carrying hazardous materials	24.3	26.1	-6.7	1 100.9	1 635.9	-32.7	45.2	62.7	-27.9
Not carrying hazardous materials	206.7	196.8	5.0	6 540.0	5 986.8	9.2	31.6	30.4	4.0
Not reported	43.2	44.0	-1.8	1 373.9	1 090.0	26.0	31.8	24.8	28.3
Not applicable ⁸	6 137.7	N	N	87 161.1	N	N	14.2	N	N
EQUIPMENT TYPE^{5 9}									
Aerial work platform/bucket	8.9	N	N	105.7	N	N	11.9	N	N
Air bag(s) (safety device only)	3 898.6	800.9	386.8	62 709.8	16 439.7	281.5	16.1	20.5	-21.6
Air compressor (except air brakes)	29.1	N	N	1 195.2	N	N	41.1	N	N
Air-conditioning	5 654.3	3 686.5	53.4	87 811.2	63 138.3	39.1	15.5	17.1	-9.3
Air springs	29.8	N	N	2 138.7	N	N	71.8	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	4 222.2	1 832.5	130.4	67 529.0	34 453.9	96.0	16.0	18.8	-14.9
Collision warning system	2.3	N	N	82.4	N	N	35.4	N	N
Computerized drive train control unit	717.8	N	N	13 950.7	N	N	19.4	N	N
Crane	4.2	N	N	68.9	N	N	16.5	N	N
Electronic vehicle identification device	8.5	6.4	32.5	678.5	467.6	45.1	79.8	72.9	9.5
Engine retarder/brake	34.8	29.0	19.8	2 411.4	2 207.3	9.2	69.3	76.0	-8.8
Front-wheel drive	765.2	536.9	42.5	11 425.5	8 607.3	32.7	14.9	16.0	-6.9
Hoist	13.4	N	N	173.5	N	N	12.9	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	7.7	N	N	401.9	N	N	52.2	N	N
Internet access .....	.9	N	N	85.4	N	N	96.3	N	N
Lift gate	17.1	N	N	426.1	N	N	24.9	N	N
Mounting bar for snowplow	S	N	N	S	N	N	S	N	N
Navigational system	S	3.2	S	S	273.7	S	S	85.2	S
Power take-off	76.0	N	N	2 349.1	N	N	30.9	N	N
Radial tires	4 271.1	3 521.6	21.3	66 008.8	59 567.6	10.8	15.5	16.9	-8.6
Reflective material in addition to those required by law	41.5	57.8	-28.1	1 522.8	2 577.4	-40.9	36.7	44.6	-17.8
Road speed governor	113.4	85.6	32.4	5 264.0	4 249.7	23.9	46.4	49.6	-6.5
Toolbox	835.5	N	N	14 712.1	N	N	17.6	N	N
Trip recorder or on-board computer with communication capabilities	233.1	N	N	4 660.9	N	N	20.0	N	N
Trip recorder or on-board computer without communication capabilities	1 153.5	N	N	16 689.2	N	N	14.5	N	N
Vehicle control aids for handicapped drivers	S	S	S	S	S	S	S	S	S
Wheelchair lift	S	V	S	S	V	S	S	V	S
Winch	40.7	N	N	856.6	N	N	21.1	N	N
Transmission type:									
Automatic	4 848.5	N	N	71 132.2	N	N	14.7	N	N
Manual	1 353.9	N	N	21 226.2	N	N	15.7	N	N
Semiautomated manual	2.6	N	N	86.2	N	N	33.8	N	N
Automated manual	1.0	N	N	119.6	N	N	115.6	N	N
Not reported	205.9	N	N	3 609.6	N	N	17.5	N	N
Braking system:									
Hydraulic (standard)	61.3	46.9	30.7	1 091.0	724.5	50.6	17.8	15.4	15.2
Hydraulic with power assist	63.5	61.5	3.3	1 218.2	1 108.6	9.9	19.2	18.0	6.4
Air	143.6	135.9	5.7	6 404.6	6 290.2	1.8	44.6	46.3	-3.7
Other	V	3.7	N	V	43.0	N	V	11.5	N
Not reported	41.5	N	N	1 476.1	N	N	35.6	N	N
Not applicable ¹⁰	6 102.0	N	N	85 985.9	N	N	14.1	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	5 702.5	4 025.1	41.7	81 310.3	60 028.0	35.5	14.3	14.9	-4.4
Diesel	574.1	355.3	61.6	14 722.1	11 118.8	32.4	25.6	31.3	-18.1
Natural gas	V	N	N	V	N	N	V	N	N
Propane	3.9	N	N	52.0	N	N	13.4	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	130.6	N	N	S	N	N	S	N	N
Cylinders ¹¹ :									
4 cylinders	672.0	559.4	20.1	7 632.7	8 771.1	-13.0	11.4	15.7	-27.6
6 cylinders	2 732.3	1 655.5	65.0	45 562.1	30 568.0	49.1	16.7	18.5	-9.7
8 cylinders	2 912.0	2 136.7	36.3	42 134.9	31 672.7	33.0	14.5	14.8	-2.4
Other	95.6	59.1	61.7	846.2	611.8	38.3	8.9	10.3	-14.4
Cubic inch displacement ¹¹ :									
Gasoline fuel:									
Less than 200	1 159.8	1 056.7	9.8	14 637.0	16 447.5	-11.0	12.6	15.6	-18.9
200 to 299	2 029.7	800.8	153.5	32 030.7	13 103.9	144.4	15.8	16.4	-3.6
300 to 349	1 035.7	844.0	22.7	14 328.7	11 634.0	23.2	13.8	13.8	.4
350 to 399	1 254.0	1 128.6	11.1	17 786.6	17 223.2	3.3	14.2	15.3	-7.1
400 or more	122.8	85.3	44.0	1 752.4	1 139.1	53.8	14.3	13.4	6.8
Not available	100.4	109.8	-8.6	S	480.3	S	S	4.4	S
Diesel fuel:									
Less than 400	574.1	355.3	61.6	14 722.1	11 118.8	32.4	25.6	31.3	-18.1
400 to 599	147.3	87.7	67.9	2 133.4	1 644.8	29.7	14.5	18.8	-22.7
600 to 799	301.5	158.1	90.7	5 931.2	3 444.5	72.2	19.7	21.8	-9.7
800 or more	63.8	43.0	48.5	3 397.5	2 262.3	50.2	53.3	52.7	1.1
Not available	38.1	41.6	-8.3	2 192.3	2 883.9	-24.0	57.5	69.4	-17.1
Other fuel	23.4	24.9	-6.0	1 067.6	883.2	20.9	45.6	35.5	28.6
Less than 400	4.7	S	S	64.9	S	S	13.7	S	S
400 or more	2.7	S	S	35.5	S	S	13.0	S	S
Not available	1.4	S	S	29.0	S	S	20.2	S	S
Not reported	S	N	N	V	N	N	V	N	N
Not applicable ²	130.6	N	N	S	N	N	S	N	N
REFUELING LOCATION									
Gas station	5 755.8	N	N	84 030.1	N	N	14.6	N	N
Truck stop	114.9	N	N	3 879.5	N	N	33.8	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	225.6	N	N	5 019.8	N	N	22.2	N	N
Other company's/contractor's facility not open to the public	11.1	N	N	537.4	N	N	48.6	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	173.9	N	N	2 630.4	N	N	15.1	N	N
Not applicable ²	130.6	N	N	S	N	N	S	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	134.9	41.5	224.8	1 864.7	S	S	13.8	S	S
Company-owned maintenance facility	650.7	296.1	119.7	14 937.5	7 619.6	96.0	23.0	25.7	-10.8
General repair business or private mechanic	2 919.3	1 709.9	70.7	46 705.6	27 453.4	70.1	16.0	16.1	-4
Dealership service department	1 634.1	681.1	139.9	26 529.5	12 263.4	116.3	16.2	18.0	-9.8
Leasing company	7.1	S	S	357.0	796.7	-55.2	50.0	S	S
Individual not employed/paid by any maintenance type facility	2 296.6	2 170.4	5.8	31 324.9	33 172.2	-5.6	13.6	15.3	-10.8
Other	V	50.1	N	V	605.6	N	V	12.1	N
Not reported	187.4	295.1	-36.5	3 071.2	4 659.7	-34.1	16.4	15.8	3.8
Not applicable ²	130.6	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	4 977.1	236.8	2 001.5	76 105.1	4 557.0	1 570.1	15.3	19.2	-20.5
Company-owned maintenance facility	128.5	134.2	-4.3	2 534.5	3 710.4	-31.7	19.7	27.6	-28.6
General repair business or private mechanic	399.6	904.0	-55.8	6 517.8	14 236.0	-54.2	16.3	15.7	3.6
Dealership service department	300.4	435.1	-30.9	5 195.9	9 093.9	-42.9	17.3	20.9	-17.3
Leasing company	S	6.9	S	S	344.8	S	S	49.9	S
Component distributorship (engine, transmission, body, etc.)	1.6	123.1	-98.7	80.9	2 965.7	-97.3	50.5	24.1	109.5
Individual not employed/paid by any repair type facility	298.8	353.1	-15.4	3 364.7	4 011.9	-16.1	11.3	11.4	-9
Other	V	S	S	V	S	S	V	S	S
Not reported	S	2 343.7	S	S	36 005.8	S	S	15.4	S
Not applicable ²	130.6	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer	6 114.1	4 278.2	42.9	87 405.3	65 568.8	33.3	14.3	15.3	-6.7
2 axles	6 078.5	4 249.8	43.0	86 691.8	64 959.9	33.5	14.3	15.3	-6.7
3 axles	34.4	28.1	22.3	693.8	602.1	15.2	20.2	21.4	-5.8
4 axles .....	.9	S	S	19.4	S	S	22.3	S	S
5 axles or more	S	N	N	S	N	N	N	N	N
Not reported	S	V	S	V	N	N	S	V	S
Combinations	297.9	132.4	124.9	8 770.6	6 054.9	44.9	29.4	45.7	-35.6
Single-unit trucks with trailer	196.9	38.0	418.8	2 619.8	332.4	688.3	13.3	8.8	51.9
3 axles	1.4	S	S	25.6	S	S	17.8	S	S
4 axles	190.9	S	S	2 424.0	S	S	12.7	S	S
5 axles or more	4.1	.9	355.7	142.4	28.8	395.0	34.9	32.1	8.6
Not reported	S	N	N	S	N	N	S	N	N
Truck-tractors with single trailer	98.7	93.8	5.2	5 977.1	5 661.2	5.6	60.5	60.3	.3
3 axles	5.1	5.5	-8.2	133.2	128.0	4.1	26.3	23.2	13.3
4 axles	12.3	16.8	-26.5	436.9	552.2	-20.9	35.5	32.9	7.7
5 axles or more	70.3	71.5	-1.7	4 735.8	4 980.9	-4.9	67.3	69.6	-3.3
Not reported	11.0	N	N	671.1	N	N	60.8	67.1	N
Truck-tractors with double trailers	2.1	.7	207.4	169.5	61.3	176.3	82.1	91.3	-10.1
5 axles	1.2	S	S	81.4	S	S	68.8	S	S
6 axles .....	.6	S	S	S	S	S	S	S	S
7 axles	V	V	V	V	V	V	V	V	V
8 axles or more	S	V	S	S	V	S	S	V	S
Not reported	S	N	N	S	N	N	S	N	N
Truck-tractors with triple trailers	S	V	S	S	V	S	S	V	S
7 axles	V	V	N	V	V	V	V	V	N
8 axles	V	V	N	V	V	V	V	V	N
9 axles	V	V	N	V	V	V	V	V	N
10 axles or more	S	V	S	S	V	S	V	V	S
Not reported	V	N	N	V	N	N	V	N	N
Driving axles:									
1	5 523.5	3 430.8	61.0	78 426.7	52 696.4	48.8	14.2	15.4	-7.6
2	886.9	978.2	-9.3	17 700.2	18 816.8	-5.9	20.0	19.2	3.7
3 or more	S	1.7	S	S	110.5	S	S	66.4	S
Not reported	1.0	V	N	S	V	S	S	V	S
Total liftable axles and locations ¹² :									
None	302.1	101.1	198.8	9 977.3	3 803.8	162.3	33.0	37.6	-12.2
1	1.6	1.6	-1.4	45.8	59.3	-22.8	28.6	36.5	-21.7
Forward of the drive axle .....	.9	N	N	24.2	N	N	27.6	N	N
Below the chassis	S	N	N	S	N	N	S	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	S	V	S	S	V	S	S	V	S
Forward of the drive axle	S	N	N	S	N	N	S	N	N
Below the chassis	V	N	N	V	N	N	V	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	6.1	N	N	166.5	N	N	27.2	N	N
Not applicable ¹⁰	6 102.0	N	N	85 985.9	N	N	14.1	N	N
Total liftable axles and number of braking axles:									
None	302.1	101.1	198.8	9 977.3	3 803.8	162.3	33.0	37.6	-12.2
1	1.6	1.6	-1.4	45.8	59.3	-22.8	28.6	36.5	-21.7
0 braking	S	N	N	S	N	N	S	N	N
1 braking	1.3	N	N	31.6	N	N	24.1	N	N
Not reported	V	N	N	V	N	N	V	N	N
2 or more	S	V	S	S	V	S	S	V	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	S	N	N	S	N	N	S	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	6.1	N	N	166.5	N	N	27.2	N	N
Not applicable ¹⁰	6 102.0	N	N	85 985.9	N	N	14.1	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
CAB TYPE									
Conventional cab	284.2	206.6	37.5	9 427.9	7 114.1	32.5	33.2	34.4	-3.6
With sleeper	35.9	N	N	3 039.4	N	N	84.6	N	N
Without sleeper	237.3	N	N	5 759.7	N	N	24.3	N	N
Not reported	11.0	N	N	628.8	N	N	56.9	N	N
Cab over engine	24.3	26.6	-9.0	731.5	790.4	-7.5	30.2	29.7	1.7
With sleeper	4.3	N	N	170.2	N	N	39.9	N	N
Without sleeper	18.8	N	N	508.6	N	N	27.0	N	N
Not reported	1.2	N	N	52.6	N	N	45.1	N	N
Cab forward of engine	S	8.7	S	S	230.8	S	S	26.6	S
Cab beside engine	S	1.5	S	S	19.6	S	S	12.7	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹⁰	6 102.0	N	N	85 985.9	N	N	14.1	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	1.1	.9	2.1	3.1	2.9	5.7	3.0	2.7	3.7
BUSINESS									
For-hire transportation or warehousing	26.3	10.0	57.9	15.1	6.6	23.1	12.8	8.0	10.3
Vehicle leasing or rental	9.2	S	S	10.6	43.0	105.9	7.0	S	S
Agriculture, forestry, fishing, or hunting	30.5	17.4	20.8	36.6	22.4	31.9	22.5	16.3	34.8
Mining	10.7	32.3	12.3	14.1	28.5	17.0	10.1	21.5	35.2
Utilities	47.6	33.9	45.3	49.4	37.7	43.6	22.6	14.0	24.1
Construction	21.1	15.5	26.1	23.4	18.2	23.6	11.6	8.4	11.4
Manufacturing	40.1	33.4	71.4	34.9	26.2	44.6	19.4	23.8	22.9
Wholesale trade	39.5	25.5	33.9	40.2	22.7	42.5	14.3	10.6	22.7
Retail trade	31.5	22.4	39.1	31.9	25.0	35.6	14.7	14.9	18.2
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	S	N	N	S	N	N	S	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	S	N	N	45.4	N	N	S	N	N
Other services	S	N	N	28.8	N	N	13.2	N	N
Personal transportation	25.5	N	N	28.8	N	N	13.2	N	N
Not reported	2.4	2.6	5.8	4.2	4.4	9.2	3.4	3.5	4.6
Not applicable ¹	38.7	N	N	S	N	S	S	N	S
	32.4	45.5	204.3	S	N	S	S	N	S
BODY TYPE									
Single-unit trucks	1.1	.9	2.1	3.4	3.1	6.3	3.2	3.0	4.1
Pickup	2.0	1.4	3.1	5.4	4.5	7.7	5.0	4.2	5.5
Minivan	12.3	12.5	31.6	16.4	15.4	41.5	10.9	9.1	14.4
Other light vans	20.3	15.1	26.8	23.7	20.0	46.0	12.4	13.4	25.4
Sport utility	5.5	6.2	16.3	7.2	8.1	20.6	4.6	5.1	6.7
Armored	S	N	N	S	N	N	S	N	N
Beverage	44.5	33.8	31.9	44.9	39.9	33.8	5.9	21.4	21.9
Concrete mixer	11.2	12.7	29.2	13.7	14.2	37.6	7.6	6.6	11.2
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	46.8	29.0	21.7	S	36.3	S	S	29.7	S
Curtainside	N	N	N	N	N	N	N	N	N
Dump	10.0	11.8	19.6	14.7	13.8	27.5	12.4	10.4	17.3
Flatbed, stake, or platform	5.7	5.3	7.1	10.8	9.1	15.8	9.2	7.4	14.4
Low boy	S	N	S	S	N	S	S	N	S
Pole, logging, pulpwood, or pipe	46.8	S	S	S	S	S	S	S	S
Service, utility	13.6	22.0	64.3	18.2	24.4	86.2	11.9	11.3	18.7
Service, other	16.4	23.1	50.8	21.7	28.8	61.0	13.9	18.2	21.6
Street sweeper	N	N	N	N	N	N	N	N	N
Tank, dry bulk	S	44.7	S	S	S	S	S	S	S
Tank, liquids or gases	13.6	15.7	28.6	17.8	18.6	26.0	12.4	11.4	12.4
Tow/Wrecker	16.6	21.9	48.4	26.0	38.6	102.7	19.7	30.4	45.3
Trash, garbage, or recycling	18.4	23.6	54.6	20.6	27.1	61.4	10.9	11.4	15.6
Vacuum	32.5	N	N	42.5	N	N	31.6	N	N
Van, basic enclosed	9.5	10.4	16.6	11.8	12.6	21.4	6.9	8.5	11.5
Van, insulated nonrefrigerated	N	S	S	N	S	S	N	S	S
Van, insulated refrigerated	19.9	22.0	38.0	21.8	25.2	37.7	9.9	14.0	15.2
Van, open top	36.6	26.9	27.9	S	43.7	S	S	39.4	S
Van, step, walk-in, or multistop	48.6	15.1	118.6	S	18.4	S	S	10.6	S
Van, other	32.5	N	N	39.8	N	N	22.6	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	2.3	2.4	3.6	3.5	3.6	5.4	3.1	2.9	4.2
Automobile carrier	35.0	S	S	38.9	S	S	17.1	S	S
Beverage	38.8	17.6	21.2	43.6	23.4	14.6	19.1	15.5	14.5
Curtainside	S	N	N	S	N	N	S	N	N
Dump	11.5	13.6	28.2	14.1	15.4	33.4	8.5	9.9	13.1
Flatbed, stake, or platform	9.0	8.0	11.4	12.8	10.0	13.5	9.6	7.3	10.6
Livestock	46.7	33.0	49.9	S	43.3	S	S	28.0	S
Low boy	18.6	17.2	21.6	23.6	20.6	41.6	14.5	15.3	32.9
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	20.6	16.3	22.0	28.1	20.5	36.7	19.1	12.4	28.7
Pole, logging, pulpwood, or pipe	29.9	31.0	45.5	37.2	34.2	67.8	22.3	21.9	39.6
Tank, dry bulk	27.4	24.7	39.5	35.3	31.0	68.1	22.2	18.7	39.3
Tank, liquids or gases	12.2	11.2	17.2	14.4	13.4	16.8	8.4	7.9	9.4
Van, basic enclosed	5.8	6.0	10.2	7.1	7.4	11.4	4.6	4.6	6.0
Van, drop-frame	S	35.1	S	S	39.3	S	S	17.7	S
Van, insulated nonrefrigerated	49.8	37.5	46.7	S	46.5	S	S	27.5	S
Van, insulated refrigerated	10.7	11.3	21.2	11.7	13.0	21.1	5.6	5.7	7.1
Other	S	N	N	S	N	N	S	N	N
Not applicable ²	27.7	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	12.8	10.4	20.7	16.1	12.4	21.7	9.8	6.4	10.0
5,000 to 9,999	12.0	10.3	21.8	12.3	10.6	22.0	2.8	2.4	3.7
10,000 to 19,999	4.8	4.9	11.7	5.0	5.1	12.3	1.3	1.3	1.9
20,000 to 29,999	10.8	8.8	17.3	10.9	8.9	17.2	1.5	1.2	1.9
30,000 to 49,999	18.7	13.6	22.3	18.7	13.8	22.5	2.7	2.5	3.7
50,000 to 74,999	32.8	24.2	40.9	32.7	24.1	43.0	4.9	2.9	6.1
75,000 or more	5.4	5.4	8.5	5.8	5.8	8.8	2.2	1.8	2.8
Not applicable ¹	32.4	45.5	204.3	S	N	S	S	N	S

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	42.3	18.4	13.5	41.0	24.6	10.7	27.3	16.4	24.3
50 miles or less	3.4	3.0	6.5	4.9	4.5	9.4	3.6	3.4	4.9
51 to 100 miles	13.8	9.0	14.3	14.8	10.3	15.4	7.2	5.6	9.0
101 to 200 miles	26.0	16.0	22.8	29.0	18.3	25.2	16.6	11.1	19.6
201 to 500 miles	35.3	30.0	71.4	34.1	20.5	60.6	22.7	19.6	29.6
501 miles or more	35.1	23.3	34.2	18.6	14.1	14.3	22.8	14.2	20.3
Not reported	11.5	45.5	1 187.9	12.4	N	N	6.8	N	N
Not applicable ¹	32.4	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	N	N	N	N	N	N	N	N	N
Operated in Mexico	S	N	N	S	N	N	S	N	N
Operated within the home base state	2.1	N	N	3.7	N	N	3.2	N	N
Operated in states other than the home base state	38.9	N	N	17.9	N	N	24.8	N	N
Not reported	14.3	N	N	14.8	N	N	8.5	N	N
Not applicable ¹	32.4	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	2.6	N	N	4.0	N	N	3.2	N	N
7 to 11	14.4	N	N	14.8	N	N	7.2	N	N
2 to 6	16.5	N	N	20.1	N	N	13.1	N	N
1 or less	34.6	N	N	S	N	N	S	N	N
Vehicle not used	32.4	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	1.4	.9	2.4	3.6	3.2	6.4	3.3	3.1	4.2
Medium	25.1	6.7	95.0	26.5	9.5	103.2	12.4	7.0	14.3
Light-heavy	24.7	7.8	46.1	11.2	11.7	24.2	18.9	9.2	17.7
Heavy-heavy	1.9	2.2	3.6	3.0	3.4	5.3	2.9	2.9	3.8
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2.9	1.1	3.6	4.7	3.3	6.0	3.8	3.1	4.5
6,001 to 8,500	10.1	N	N	12.4	N	N	7.2	N	N
8,501 to 10,000	26.3	N	N	32.6	N	N	18.1	N	N
10,001 to 14,000	36.7	11.1	165.7	39.6	15.4	221.1	15.4	11.4	23.1
14,001 to 16,000	S	13.5	S	39.2	19.2	82.4	S	13.4	S
16,001 to 19,500	45.8	14.0	213.8	48.0	17.7	180.4	26.4	11.0	22.6
19,501 to 26,000	24.7	7.8	46.1	11.2	11.7	24.2	18.9	9.2	17.7
26,001 to 33,000	10.6	10.8	16.7	13.9	20.4	28.3	9.3	16.8	20.0
33,001 to 40,000	12.4	10.6	15.8	25.3	13.9	29.8	21.5	9.1	25.0
40,001 to 50,000	8.0	6.5	10.3	10.5	8.8	9.9	7.2	6.4	6.9
50,001 to 60,000	9.1	10.4	24.4	15.5	13.7	26.1	12.5	9.1	11.0
60,001 to 80,000	2.8	3.4	6.0	4.0	4.6	7.4	3.0	3.0	3.8
80,001 to 100,000	22.0	27.5	70.1	26.3	30.3	88.2	14.4	12.8	21.3
100,001 to 130,000	37.5	S	S	47.8	S	S	29.5	S	S
130,001 or more	S	S	S	S	S	S	S	S	S
TOTAL LENGTH (FEET)									
Less than 20.0	2.5	1.0	3.3	4.4	3.2	5.9	3.7	3.1	4.3
20.0 to 27.9	15.2	10.9	116.2	16.8	6.7	123.0	7.8	10.4	14.2
28.0 to 35.9	17.4	27.4	269.9	19.4	19.6	255.4	9.3	18.0	22.6
36.0 to 40.9	28.8	17.0	749.3	34.3	22.6	857.5	18.8	17.2	23.8
41.0 to 44.9	49.5	38.8	3 100.9	50.0	S	S	30.5	S	S
45.0 to 49.9	48.5	15.4	426.7	35.5	19.2	167.7	22.5	14.0	13.2
50.0 to 54.9	46.0	11.0	156.8	16.5	14.0	53.9	32.3	10.2	25.4
55.0 to 59.9	9.1	5.9	7.0	11.5	7.8	9.5	7.9	5.1	9.9
60.0 to 64.9	6.9	5.8	8.3	9.4	7.2	8.8	6.6	4.2	6.3
65.0 to 69.9	9.3	9.4	15.9	11.5	11.4	14.4	6.9	6.1	6.8
70.0 to 74.9	11.8	17.6	61.2	14.3	19.6	49.5	8.4	8.0	8.2
75.0 to 79.9	14.7	N	N	15.8	N	N	5.8	N	N
80.0 or more	40.6	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	7.5	7.3	11.8	10.6	9.2	13.8	8.4	6.9	9.4
5 to 6.9	14.2	3.2	14.4	8.4	4.2	9.1	7.8	3.6	8.4
7 to 8.9	6.7	5.8	6.9	9.5	9.0	9.0	7.4	7.4	9.2
9 to 10.9	24.5	16.1	24.0	30.5	18.3	27.8	21.0	11.0	22.7
11 to 12.9	16.5	12.5	22.7	21.5	16.9	26.7	14.2	11.5	17.5
13 to 14.9	14.8	8.9	12.8	17.1	11.6	16.1	9.1	7.5	12.3
15 or more	3.8	3.3	7.4	5.4	4.9	9.6	3.8	3.5	4.8
15 to 20.9	4.7	4.6	10.6	6.3	6.1	12.4	4.3	4.0	5.1
21 to 24.9	18.4	11.4	16.2	21.4	14.0	21.6	11.0	8.1	15.4
25 or more	23.2	22.5	55.2	25.9	26.9	71.9	11.6	14.5	21.0
Not reported	11.4	38.7	1 248.0	12.7	21.3	1 304.0	7.8	42.7	73.7
Not applicable ¹	32.4	N	N	S	N	N	S	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	25.5	N	N	26.9	N	N	8.8	N	N
2002	S	N	N	37.1	N	N	S	N	N
2001	15.3	N	N	15.6	N	N	6.8	N	N
2000	10.8	N	N	11.4	N	N	5.8	N	N
1999	13.0	N	N	13.7	N	N	6.4	N	N
1998	15.4	S	S	17.6	S	S	10.2	S	S
1997	15.7	37.8	483.1	18.6	27.4	217.7	10.5	17.2	11.2
1996	17.5	15.6	37.7	20.8	15.1	30.5	12.3	7.2	10.5
1995	17.7	13.6	25.3	20.2	14.1	16.7	11.3	6.4	7.8
1994	18.9	12.7	19.9	22.4	14.4	11.7	13.6	8.0	7.9
1993	23.5	13.7	17.6	24.6	14.7	12.0	12.8	6.6	9.3
Pre-1993	8.2	3.1	4.6	11.7	4.8	5.1	8.6	3.8	7.1
VEHICLE ACQUISITION									
New	3.3	4.5	12.0	4.7	5.6	14.4	3.5	3.8	4.7
Used	8.3	4.2	6.6	10.1	5.9	6.6	6.4	4.3	6.1
Not reported	18.3	19.4	64.3	17.4	18.1	41.6	6.6	8.9	7.6
LEASE CHARACTERISTICS									
Leased	16.8	N	N	15.5	N	N	8.6	N	N
Lessee	20.9	N	N	21.5	N	N	10.6	N	N
Vehicle only	9.8	N	N	11.6	N	N	8.2	N	N
Vehicle with driver	S	N	N	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ³	22.5	N	N	25.3	N	N	12.2	N	N
Lessor	32.1	N	N	18.3	N	N	15.7	N	N
Vehicle only	7.8	N	N	8.6	N	N	5.3	N	N
Vehicle with driver	21.5	N	N	24.7	N	N	12.3	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	4.6	N	N	6.0	N	N	4.2	N	N
Not reported	5.7	N	N	7.4	N	N	4.9	N	N
Length of leasing agreement:									
Leased	16.8	N	N	15.5	N	N	8.6	N	N
1 to 11 months	18.6	N	N	22.5	N	N	14.7	N	N
12 months or more	5.9	N	N	6.7	N	N	4.5	N	N
Not reported	49.7	N	N	S	N	N	S	N	N
Not applicable ³	19.4	N	N	22.2	N	N	11.1	N	N
Provisions of lease:									
Financing only	7.8	N	N	8.7	N	N	5.6	N	N
Full maintenance	8.4	N	N	9.4	N	N	5.7	N	N
Payment of taxes	8.3	N	N	9.4	N	N	6.0	N	N
Obtaining licenses and permits	8.4	N	N	9.4	N	N	6.0	N	N
Recordkeeping	10.5	N	N	11.6	N	N	7.3	N	N
Fuel contract	17.4	N	N	18.6	N	N	10.2	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	10.1	N	N	11.5	N	N	6.3	N	N
Motor carrier	24.2	N	N	18.6	N	N	9.7	N	N
Owner operator	8.8	N	N	10.8	N	N	7.0	N	N
Rental	8.9	N	N	10.3	N	N	6.9	N	N
Personal transportation	2.4	N	N	4.2	N	N	3.4	N	N
Not applicable ¹	32.4	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	29.3	N	N	14.5	N	N	16.6	N	N
Common	7.8	N	N	10.9	N	N	8.2	N	N
Not reported	12.5	N	N	14.1	N	N	8.9	N	N
Not applicable ⁴	1.2	N	N	3.3	N	N	3.1	N	N
Type of service:									
Truckload	5.4	6.8	16.4	6.8	7.8	14.6	4.6	4.0	4.5
Less-than truckload	44.3	13.2	129.9	32.4	13.9	65.5	14.8	9.4	11.6
Not reported	12.4	N	N	14.0	N	N	9.1	N	N
Not applicable ⁴	1.2	N	N	3.3	N	N	3.1	N	N
Source of hauls:									
Shippers or receivers	22.6	N	N	12.1	N	N	12.5	N	N
Brokers	18.5	N	N	20.4	N	N	9.8	N	N
Centralized markets or exchanges	26.1	N	N	32.3	N	N	20.2	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	9.9	N	N	13.6	N	N	9.9	N	N
Not applicable ⁴	1.2	N	N	3.3	N	N	3.1	N	N
HAZARDOUS MATERIALS CARRIED⁵									
Carrying hazardous materials	8.5	7.9	10.8	10.5	8.8	9.3	7.7	6.6	7.3
Not carrying hazardous materials	6.9	2.0	7.5	6.2	3.5	7.7	3.6	3.1	4.9
Not reported	6.5	6.6	9.1	8.1	8.7	15.0	6.0	7.1	11.9
Not applicable ⁶	1.2	N	N	3.5	N	N	3.3	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	16.8	N	N	22.1	N	N	14.7	N	N
Air bag(s) (safety device only)	3.7	8.8	46.5	5.2	9.5	41.2	3.6	4.6	4.6
Air compressor (except air brakes)	7.8	N	N	10.0	N	N	7.6	N	N
Air-conditioning	2.0	2.0	4.3	3.6	3.4	6.9	3.1	2.8	3.8
Air springs	6.7	N	N	8.1	N	N	5.2	N	N
Antilock brake system	3.5	5.0	14.1	4.8	5.9	14.8	3.5	3.4	4.1
Collision warning system	29.1	N	N	34.3	N	N	21.1	N	N
Computerized drive train control unit	13.1	N	N	16.4	N	N	10.2	N	N
Crane	23.9	N	N	29.1	N	N	18.1	N	N
Electronic vehicle identification device	13.2	14.6	26.1	14.8	16.5	32.2	8.2	10.2	14.3
Engine retarder/brake	5.9	6.2	10.3	7.4	7.6	11.5	4.8	4.9	6.2
Front-wheel drive	12.9	11.0	24.2	15.7	14.3	28.2	8.8	8.8	11.6
Hoist	13.1	N	N	20.4	N	N	16.5	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	15.6	N	N	18.7	N	N	11.9	N	N
Internet access	40.5	N	N	44.1	N	N	17.4	N	N
Lift gate	11.8	N	N	14.7	N	N	8.8	N	N
Mounting bar for snowplow	S	N	N	S	N	N	S	N	N
Navigational system	S	23.3	S	S	23.9	S	S	17.3	S
Power take-off	4.5	N	N	7.1	N	N	6.0	N	N
Radial tires	3.5	2.2	5.0	4.8	3.6	6.7	3.6	3.0	4.3
Reflective material in addition to those required by law	6.5	5.0	5.9	8.6	6.1	6.2	6.7	4.9	6.8
Road speed governor	12.4	3.9	17.2	7.5	4.7	11.0	6.7	3.8	7.2
Toolbox	11.7	N	N	13.4	N	N	8.0	N	N
Trip recorder or on-board computer with communication capabilities	23.5	N	N	20.6	N	N	9.7	N	N
Trip recorder or on-board computer without communication capabilities	10.1	N	N	12.2	N	N	7.3	N	N
Vehicle control aids for handicapped drivers	S	S	S	S	S	S	S	S	S
Wheelchair lift	S	N	S	S	N	S	S	N	S
Winch	38.1	N	N	36.8	N	N	6.9	N	N
Transmission type:									
Automatic	2.7	N	N	4.4	N	N	3.7	N	N
Manual	8.5	N	N	8.7	N	N	5.8	N	N
Semiautomated manual	25.8	N	N	30.7	N	N	18.3	N	N
Automated manual	37.5	N	N	40.0	N	N	13.8	N	N
Not reported	23.9	N	N	19.4	N	N	9.4	N	N
Braking system:									
Hydraulic (standard)	5.5	6.6	11.2	10.5	10.9	22.7	9.0	8.8	14.5
Hydraulic with power assist	22.0	5.5	23.4	27.7	8.3	31.8	7.7	6.5	10.8
Air	2.3	2.2	3.4	3.6	3.2	4.9	3.2	2.9	4.2
Other	N	27.0	N	N	41.9	N	N	32.4	N
Not reported	6.7	N	N	7.5	N	N	4.6	N	N
Not applicable ⁹	1.2	N	N	3.5	N	N	3.3	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	1.8	1.3	3.1	3.7	3.4	6.8	3.3	3.1	4.4
Diesel	12.2	10.3	25.8	9.2	8.1	16.2	6.8	6.4	7.7
Natural gas	N	N	N	N	N	N	N	N	N
Propane	26.6	N	N	30.9	N	N	15.7	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	32.4	N	N	S	N	N	S	N	N
Cylinders ⁹ :									
4 cylinders	13.9	11.0	21.3	16.3	14.1	18.7	9.0	9.0	9.2
6 cylinders	5.2	5.1	12.0	6.1	5.6	12.3	4.2	3.7	5.1
8 cylinders	5.1	4.3	9.1	7.0	6.2	12.5	4.8	4.5	6.4
Other	35.0	24.5	69.1	46.2	22.0	70.8	31.4	21.6	32.6
Cubic inch displacement ⁹ :									
Gasoline fuel	1.8	1.3	3.1	3.7	3.4	6.8	3.3	3.1	4.4
Less than 200	10.1	7.6	13.8	11.6	9.7	13.5	6.1	6.1	7.0
200 to 299	6.7	8.6	27.7	8.7	10.5	33.4	5.6	6.0	7.9
300 to 349	10.9	8.7	17.1	13.1	11.4	21.4	7.4	7.4	10.5
350 to 399	9.6	7.2	13.3	12.2	9.2	15.8	7.6	5.8	8.8
400 or more	32.3	26.9	60.5	42.0	32.0	81.2	25.6	17.0	32.8
Not available	37.1	24.6	40.7	S	35.0	S	S	24.9	S
Diesel fuel	12.2	10.3	25.8	9.2	8.1	16.2	6.8	6.4	7.7
Less than 400	29.1	26.3	65.8	28.7	26.8	51.0	13.3	13.1	14.4
400 to 599	19.1	18.2	50.3	20.5	22.1	52.0	11.1	14.0	16.1
600 to 799	3.9	4.9	9.3	5.4	6.6	12.8	3.9	4.7	6.2
800 or more	5.3	4.4	6.3	7.2	5.7	7.0	5.0	3.6	5.1
Not available	7.8	6.9	9.8	11.5	10.6	19.0	9.3	8.7	16.3
Other fuel	24.1	S	S	29.4	S	S	16.9	S	S
Less than 400	31.7	S	S	36.1	S	S	17.1	S	S
400 or more	44.5	S	S	49.3	S	S	21.3	S	S
Not available	S	50.0	S	S	S	S	S	S	S
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ¹	32.4	N	N	S	N	N	S	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	1.8	N	N	3.7	N	N	3.3	N	N
Truck stop	26.7	N	N	12.8	N	N	16.1	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	18.6	N	N	12.5	N	N	11.7	N	N
Other company's/contractor's facility not open to the public	13.2	N	N	16.6	N	N	12.4	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	26.7	N	N	24.1	N	N	10.7	N	N
Not applicable ¹	32.4	N	N	S	N	N	S	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	32.6	42.4	173.7	40.5	S	S	25.0	S	S
Company-owned maintenance facility	12.7	13.0	39.9	12.0	11.1	31.9	6.9	7.8	9.3
General repair business or private mechanic ..	5.2	5.2	12.6	6.5	6.7	15.9	4.1	4.4	6.0
Dealership service department	7.8	9.7	30.0	9.1	10.9	30.7	5.2	6.0	7.2
Leasing company	16.4	S	S	18.0	48.4	23.2	10.8	S	S
Individual not employed/paid by any maintenance type facility									
Other	6.3	4.2	8.1	8.8	6.0	10.0	6.2	4.3	6.7
Not reported	N	38.8	N	N	39.6	N	N	20.8	N
Not applicable ¹	25.8	15.0	19.0	25.2	16.3	19.8	12.2	9.6	16.1
Extensive repairs performed by:									
None performed	2.7	17.5	372.2	4.2	22.1	375.0	3.3	13.4	11.0
Company-owned maintenance facility	30.5	19.0	34.4	26.8	18.4	22.2	12.5	12.6	12.7
General repair business or private mechanic ..	17.9	8.1	8.7	22.6	10.1	11.3	15.8	6.6	17.7
Dealership service department	20.6	12.1	16.5	20.2	12.6	13.6	10.3	7.5	10.5
Leasing company	S	47.1	S	S	28.3	S	S	29.5	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	34.9	23.8	.6	44.3	25.9	1.4	28.3	14.1	66.3
Other	21.4	14.1	21.7	26.1	16.8	26.0	16.6	10.0	19.2
Not reported	N	S	S	N	S	S	N	S	S
Not applicable ¹	S	3.9	S	S	5.3	S	S	3.8	S
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	1.4	1.0	2.4	3.5	3.1	6.2	3.2	3.0	4.1
3 axles	1.4	1.0	2.5	3.5	3.2	6.3	3.2	3.0	4.1
4 axles	5.2	6.0	9.7	7.8	7.9	12.8	5.9	5.7	7.7
5 axles or more	40.4	S	S	42.2	S	S	12.1	S	S
Not reported	S	N	N	S	N	N	S	N	N
Combinations									
Single-unit trucks with trailer	17.4	12.2	47.8	9.9	4.1	15.5	12.1	10.8	10.4
3 axles	26.4	42.0	257.4	32.1	40.8	409.0	21.0	28.1	53.3
4 axles	42.2	S	S	46.0	S	S	28.9	S	S
5 axles or more	27.2	S	S	34.6	S	S	22.5	S	S
Not reported	20.6	35.1	185.2	25.8	44.6	255.0	17.7	27.6	35.6
Truck-tractors with single trailer									
3 axles	2.4	2.4	3.6	3.6	3.6	5.4	3.0	3.0	4.3
4 axles	20.9	16.1	24.2	27.1	21.7	36.1	18.1	16.1	27.4
5 axles or more	11.7	9.6	11.1	14.7	12.6	15.4	10.2	9.6	15.1
Not reported	3.1	2.7	4.0	4.4	4.1	5.7	3.2	2.8	4.1
Truck-tractors with double trailers									
5 axles	11.6	N	N	14.5	N	N	9.7	N	N
6 axles	26.4	40.5	148.7	35.3	43.0	153.8	23.5	14.4	24.8
7 axles	35.0	S	S	47.7	S	S	32.3	S	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	N	N	N	N	N	N	N	N	N
8 axles	N	N	N	N	N	N	N	N	N
9 axles	N	N	N	N	N	N	N	N	N
10 axles or more	N	N	N	N	N	N	N	N	N
Not reported	S	S	S	S	S	S	S	S	S
Driving axles:									
1	2.1	2.1	4.8	4.0	4.1	8.5	3.4	3.5	4.5
2	11.2	6.8	11.9	10.2	6.7	11.5	6.4	4.2	7.9
3 or more	S	25.6	S	S	32.4	S	S	19.8	S
Not reported	37.5	N	N	S	N	S	S	N	S
Total liftable axles and locations:									
None	4.6	3.6	17.5	4.1	4.9	16.8	2.7	4.2	4.4
1	29.9	37.3	47.1	33.7	38.2	39.3	15.3	16.3	17.5
Forward of the drive axle	40.6	N	N	44.9	N	N	19.1	N	N
Below the chassis	S	N	N	S	N	N	S	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	S	N	N	S	N	N	S	N	N
Forward of the drive axle	S	N	N	S	N	N	S	N	N
Below the chassis	N	N	N	N	N	N	N	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	15.0	N	N	19.5	N	N	12.5	N	N
Not applicable ⁶	1.2	N	N	3.5	N	N	3.3	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	4.6	3.6	17.5	4.1	4.9	16.8	2.7	4.2	4.4
1	29.9	37.3	47.1	33.7	38.2	39.3	15.3	16.3	17.5
0 braking	S	N	N	S	N	N	S	N	N
1 braking	33.1	N	N	36.1	N	N	14.4	N	N
Not reported	N	N	N	N	N	N	N	N	N
2 or more	S	N	S	S	N	S	S	N	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	S	N	N	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	15.0	N	N	19.5	N	N	12.5	N	N
Not applicable ⁸	1.2	N	N	3.5	N	N	3.3	N	N
CAB TYPE									
Conventional cab	4.9	1.8	7.2	4.3	3.1	7.0	2.8	2.8	3.8
With sleeper	5.4	N	N	6.6	N	N	3.8	N	N
Without sleeper	5.9	N	N	6.6	N	N	3.1	N	N
Not reported	11.1	N	N	12.7	N	N	5.7	N	N
Cab over engine	7.4	7.7	9.7	10.9	9.3	13.3	8.1	7.0	10.9
With sleeper	18.2	N	N	28.5	N	N	21.9	N	N
Without sleeper	8.5	N	N	11.9	N	N	8.4	N	N
Not reported	39.2	N	N	44.4	N	N	28.4	N	N
Cab forward of engine	S	16.9	S	S	19.3	S	S	11.2	S
Cab beside engine	S	40.9	S	S	49.2	S	S	32.9	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁹	1.2	N	N	3.5	N	N	3.3	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	309.9	260.0	19.2	10 189.9	8 636.7	18.0	32.9	33.2	-1.0
BUSINESS¹									
For-hire transportation or warehousing	63.3	35.1	80.4	3 427.2	2 713.7	26.3	54.2	77.4	-30.0
Vehicle leasing or rental	23.3	4.0	478.3	1 122.9	192.6	482.9	48.3	47.9	.8
Agriculture, forestry, fishing, or hunting	24.3	34.0	-28.5	451.4	655.2	-31.1	18.6	19.3	-3.6
Mining	14.8	12.0	24.1	456.6	376.9	21.1	30.8	31.5	-2.4
Utilities	14.7	7.4	99.2	238.6	84.9	181.0	16.2	11.5	41.1
Construction	51.9	51.5	.8	1 172.9	1 108.7	5.8	22.6	21.5	5.0
Manufacturing	18.9	13.3	41.7	580.7	669.9	-13.3	30.8	50.3	-38.8
Wholesale trade	20.6	25.0	-17.8	719.3	964.2	-25.4	34.9	38.5	-9.3
Retail trade	20.2	24.0	-15.7	460.9	623.1	-26.0	22.8	26.0	-12.2
Information services	2.2	N	N	28.9	N	N	13.4	N	N
Waste management, landscaping, or administrative/support services	10.2	N	N	287.6	N	N	28.1	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	4.8	N	N	220.6	N	N	46.2	N	N
Other services	7.5	N	N	144.4	N	N	19.3	N	N
Personal transportation	S	6.2	S	S	41.1	S	S	6.6	S
Not reported	22.0	V	N	862.8	V	N	39.3	V	N
Not applicable ²	9.5	3.2	195.9	S	V	S	S	V	S
BODY TYPE									
Single-unit trucks	206.6	165.5	24.8	4 039.1	2 914.2	38.6	19.5	17.6	11.0
Armored	S	N	N	S	N	N	S	N	N
Beverage	1.4	2.5	-42.9	23.4	41.5	-43.7	16.3	16.5	-1.3
Concrete mixer	9.7	5.6	72.0	210.6	110.5	90.6	21.7	19.6	10.9
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane .....	.9	2.2	-60.5	S	33.6	S	S	15.2	S
Curtainside	V	N	N	V	N	N	V	N	N
Dump	18.1	14.3	27.0	308.2	225.7	36.5	17.0	15.8	7.5
Flatbed, stake, or platform	58.1	63.5	-8.4	1 060.2	946.1	12.1	18.2	14.9	22.4
Low boy	S	V	S	S	V	S	S	V	S
Pole, logging, pulpwood, or pipe .....	.9	S	S	S	S	S	S	S	S
Service, utility	13.4	5.4	148.4	179.2	63.3	183.0	13.4	11.8	13.9
Service, other	9.6	5.4	79.5	174.4	102.9	69.5	18.1	19.2	-5.6
Street sweeper	V	N	N	V	N	N	V	N	N
Tank, dry bulk	S	.6	S	S	S	S	S	S	S
Tank, liquids or gases	12.4	9.0	37.4	177.9	175.7	1.2	14.4	19.5	-26.3
Tow/Wrecker	9.3	5.3	76.3	192.1	87.0	120.7	20.5	16.4	25.2
Trash, garbage, or recycling	4.8	2.6	82.3	168.1	93.3	80.1	35.3	35.7	-1.2
Vacuum	1.6	N	N	17.1	N	N	10.8	N	N
Van, basic enclosed	25.0	21.2	17.9	599.4	483.9	23.9	23.9	22.8	5.1
Van, insulated nonrefrigerated	V	S	S	V	S	S	V	S	S
Van, insulated refrigerated	6.5	5.1	28.1	161.2	142.6	13.0	24.9	28.2	-11.8
Van, open top	1.9	3.1	-38.7	S	23.7	S	S	7.8	S
Van, step, walk-in, or multistop	28.3	12.1	133.1	S	186.2	S	S	15.4	S
Van, other	2.4	N	N	31.3	N	N	12.8	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	103.3	94.5	9.3	6 150.8	5 722.5	7.5	59.5	60.6	-1.7
Automobile carrier	1.2	S	S	136.2	S	S	117.4	S	S
Beverage	1.7	3.5	-50.1	22.2	75.6	-70.6	12.8	21.8	-41.0
Curtainside	S	N	N	S	N	N	S	N	N
Dump	10.6	6.7	59.1	593.8	371.3	59.9	56.1	55.8	.5
Flatbed, stake, or platform	17.5	18.5	-5.6	766.5	923.2	-17.0	43.8	49.8	-12.0
Livestock .....	.9	1.0	-12.9	S	53.9	S	S	53.4	S
Low boy	4.1	4.8	-14.7	161.9	121.8	33.0	39.3	25.2	55.8
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	3.4	4.0	-16.2	218.9	207.1	5.7	64.8	51.3	26.2
Pole, logging, pulpwood, or pipe	1.6	1.5	5.8	69.4	51.7	34.1	42.7	33.7	26.8
Tank, dry bulk	1.9	1.8	7.0	146.9	101.3	45.0	76.6	56.5	35.5
Tank, liquids or gases	9.5	9.2	4.0	552.6	649.8	-15.0	57.9	70.8	-18.2
Van, basic enclosed	34.6	28.5	21.4	2 254.9	2 031.6	11.0	65.2	71.3	-8.6
Van, drop-frame	S	.9	S	S	30.9	S	S	34.5	S
Van, insulated nonrefrigerated .....	.6	.8	-25.0	S	55.5	S	S	70.7	S
Van, insulated refrigerated	12.5	9.2	36.1	1 113.3	922.9	20.6	89.1	100.6	-11.4
Other	S	N	N	S	N	N	S	N	N
Not applicable ³	2.3	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	47.6	43.3	9.8	85.4	72.3	18.1	1.8	1.7	7.6
5,000 to 9,999	25.0	29.7	-15.9	173.8	203.9	-14.8	6.9	6.9	1.3
10,000 to 19,999	52.1	52.9	-1.4	747.5	708.4	5.5	14.3	13.4	7.0
20,000 to 29,999	65.4	37.0	76.7	1 564.3	858.4	82.2	23.9	23.2	3.1
30,000 to 49,999	44.8	33.5	33.6	1 622.7	1 228.1	32.1	36.2	36.6	-1.1
50,000 to 74,999	25.9	24.7	4.7	1 604.2	1 478.5	8.5	61.9	59.8	3.6
75,000 or more	39.5	35.6	11.2	4 387.9	4 087.2	7.4	111.0	114.9	-3.4
Not applicable ²	9.5	3.2	195.9	S	V	S	S	V	S

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	16.1	18.4	-12.9	255.5	234.2	9.1	15.9	12.7	25.3
50 miles or less	140.8	111.2	26.7	3 012.7	1 919.7	56.9	21.4	17.3	23.9
51 to 100 miles	43.6	60.4	-27.8	1 585.7	1 716.5	-7.6	36.3	28.4	27.9
101 to 200 miles	17.2	26.1	-34.1	784.4	1 139.9	-31.2	45.6	43.6	4.5
201 to 500 miles	13.5	17.3	-22.1	977.1	1 197.0	-18.4	72.6	69.3	4.8
501 miles or more	18.8	23.3	-19.6	1 638.7	2 429.5	-32.6	87.3	104.1	-16.1
Not reported	50.4	3.2	1 463.5	1 931.7	V	N	38.3	V	N
Not applicable ²	9.5	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	V	N	N	V	N	N	V	N	N
Operated in Mexico	S	N	N	S	N	N	S	N	N
Operated within the home base state	237.1	N	N	6 887.2	N	N	29.0	N	N
Operated in states other than the home base state	17.0	N	N	1 581.6	N	N	92.9	N	N
Not reported	46.1	N	N	1 714.3	N	N	37.2	N	N
Not applicable ²	9.5	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	217.4	N	N	8 314.2	N	N	38.2	N	N
7 to 11	35.4	N	N	1 273.2	N	N	36.0	N	N
2 to 6	32.0	N	N	522.9	N	N	16.3	N	N
1 or less	15.6	N	N	75.4	N	N	4.8	N	N
Vehicle not used	9.5	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	36.8	48.3	-23.8	520.0	740.8	-29.8	14.1	15.3	-7.8
Medium	61.1	46.2	32.1	1 175.1	709.4	65.6	19.2	15.4	25.3
Light-heavy	48.0	35.6	34.8	878.7	629.9	39.5	18.3	17.7	3.5
Heavy-heavy	164.0	129.9	26.3	7 616.1	6 556.7	16.2	46.4	50.5	-8.0
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	5.7	8.3	-31.0	66.1	95.4	-30.7	11.5	11.5	.5
6,001 to 8,500	15.8	N	N	230.1	N	N	14.6	N	N
8,501 to 10,000	15.2	N	N	223.8	N	N	14.7	N	N
10,001 to 14,000	21.6	19.3	11.8	375.6	272.5	37.8	17.4	14.1	23.3
14,001 to 16,000	14.2	14.4	-1.0	257.8	218.0	18.3	18.1	15.2	19.5
16,001 to 19,500	S	12.5	S	S	218.9	S	S	17.5	S
19,501 to 26,000	48.0	35.6	34.8	878.7	629.9	39.5	18.3	17.7	3.5
26,001 to 33,000	20.3	18.5	10.1	488.1	425.2	14.8	24.0	23.0	4.3
33,001 to 40,000	13.0	13.6	-3.7	345.8	335.1	3.2	26.5	24.7	7.2
40,001 to 50,000	24.5	24.3	.6	578.6	803.5	-28.0	23.6	33.0	-28.4
50,001 to 60,000	18.0	10.2	76.7	556.3	440.6	26.3	31.0	43.3	-28.6
60,001 to 80,000	84.1	61.4	36.9	5 371.1	4 437.7	21.0	63.9	72.2	-11.6
80,001 to 100,000	2.9	1.5	98.9	190.3	86.6	119.7	64.6	58.5	10.5
100,001 to 130,000	1.0	S	S	81.8	S	S	79.3	S	S
130,001 or more	S	S	S	S	S	S	S	S	S
TOTAL LENGTH (FEET)									
Less than 20.0	80.9	60.9	32.9	1 355.8	951.0	42.6	16.8	15.6	7.3
20.0 to 27.9	70.3	73.4	-4.2	1 314.8	1 206.2	9.0	18.7	16.4	13.7
28.0 to 35.9	35.7	26.7	33.7	829.4	615.8	34.7	23.2	23.0	.8
36.0 to 40.9	12.6	7.3	72.9	299.6	159.9	87.3	23.9	22.0	8.3
41.0 to 44.9	7.5	1.1	593.7	194.3	S	S	25.8	S	S
45.0 to 49.9	8.6	6.5	32.1	330.7	177.4	86.3	38.4	27.2	41.1
50.0 to 54.9	18.2	10.1	80.1	948.7	443.0	114.1	52.1	43.8	18.9
55.0 to 59.9	17.2	26.5	-35.2	914.2	1 333.9	-31.5	53.2	50.3	5.8
60.0 to 64.9	25.9	28.2	-8.2	1 499.7	2 019.3	-25.7	58.0	71.6	-19.1
65.0 to 69.9	15.6	13.0	20.3	1 027.1	1 157.2	-11.2	65.8	89.2	-26.2
70.0 to 74.9	10.1	3.5	188.3	785.0	384.1	104.4	77.6	109.4	-29.1
75.0 to 79.9	6.3	N	N	622.8	N	N	98.2	N	N
80.0 or more .....	.9	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	28.7	25.2	13.5	837.7	848.2	-1.2	29.2	33.6	-13.0
5 to 6.9	84.8	99.4	-14.7	4 300.2	4 789.4	-10.2	50.7	48.2	5.2
7 to 8.9	43.1	54.6	-21.1	977.6	1 418.0	-31.1	22.7	26.0	-12.6
9 to 10.9	42.8	36.0	18.8	866.1	698.8	23.9	20.2	19.4	4.3
11 to 12.9	20.0	18.3	9.4	404.5	358.7	12.8	20.2	19.6	3.1
13 to 14.9	6.9	5.5	26.4	161.5	140.1	15.3	23.4	25.6	-8.8
15 or more	6.8	7.8	-13.3	112.9	112.1	.7	16.7	14.4	16.2
15 to 20.9	6.8	7.3	-7.2	112.9	106.3	6.1	16.7	14.6	14.4
21 to 24.9	V	S	S	V	S	S	V	S	S
25 or more	V	S	S	V	S	S	V	S	S
Not reported	67.4	13.2	409.6	2 525.3	271.5	830.2	37.5	20.5	82.5
Not applicable ²	9.5	N	N	S	N	N	S	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	2.2	N	N	160.1	N	N	72.3	N	N
2002	5.7	N	N	376.7	N	N	66.1	N	N
2001	18.8	N	N	1 073.0	N	N	57.2	N	N
2000	33.2	N	N	2 013.0	N	N	60.6	N	N
1999	32.2	N	N	1 469.7	N	N	45.7	N	N
1998	23.2	S	S	996.2	S	S	42.9	S	S
1997	16.5	10.6	55.8	600.0	712.8	-15.8	36.3	67.2	-46.0
1996	13.5	17.2	-21.5	445.8	1 057.1	-57.8	33.1	61.6	-46.3
1995	14.8	21.5	-31.3	420.4	1 128.0	-62.7	28.5	52.5	-45.7
1994	10.2	15.7	-35.4	289.7	924.8	-68.7	28.5	58.7	-51.5
1993	11.0	12.5	-12.1	376.2	506.6	-25.7	34.2	40.4	-15.5
Pre-1993	128.7	181.3	-29.0	1 969.0	4 234.7	-53.5	15.3	23.4	-34.5
VEHICLE ACQUISITION									
New	185.2	122.4	51.4	7 215.1	4 941.9	46.0	39.0	40.4	-3.5
Used	92.7	114.6	-19.1	1 819.6	2 656.9	-31.5	19.6	23.2	-15.3
Not reported	32.0	23.0	38.9	1 155.2	1 038.0	11.3	36.1	45.1	-19.9
LEASE CHARACTERISTICS									
Leased	53.9	N	N	2 967.3	N	N	55.1	N	N
Lessee	20.5	N	N	1 009.3	N	N	49.3	N	N
Vehicle only	20.2	N	N	1 001.6	N	N	49.6	N	N
Vehicle with driver	S	N	N	S	N	N	S	N	N
Not reported	V	N	N	V	N	N	V	N	N
Lessor	32.7	N	N	1 887.5	N	N	57.8	N	N
Vehicle only	29.1	N	N	1 653.4	N	N	56.8	N	N
Vehicle with driver	3.1	N	N	213.1	N	N	68.8	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	7	N	N	70.6	N	N	95.6	N	N
Not leased	161.1	N	N	4 644.8	N	N	28.8	N	N
Not reported	94.9	N	N	2 577.8	N	N	27.2	N	N
Length of leasing agreement:									
Leased	53.9	N	N	2 967.3	N	N	55.1	N	N
1 to 11 months	4.8	N	N	255.4	N	N	52.9	N	N
12 months or more	48.5	N	N	2 656.1	N	N	54.8	N	N
Not reported .....	.6	N	N	S	N	N	S	N	N
Provisions of lease ⁴ :									
Financing only	30.8	N	N	1 666.5	N	N	54.1	N	N
Full maintenance	24.4	N	N	1 430.1	N	N	58.7	N	N
Payment of taxes	25.8	N	N	1 426.6	N	N	55.3	N	N
Obtaining licenses and permits	25.4	N	N	1 429.8	N	N	56.4	N	N
Recordkeeping	16.6	N	N	965.1	N	N	58.1	N	N
Fuel contract	6.6	N	N	335.8	N	N	51.2	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	187.5	N	N	4 516.8	N	N	24.1	N	N
Motor carrier	66.7	N	N	3 401.9	N	N	51.0	N	N
Owner operator	20.1	N	N	1 096.1	N	N	54.6	N	N
Rental	25.1	N	N	1 164.6	N	N	46.4	N	N
Personal transportation	S	N	N	S	N	N	S	N	N
Not applicable ²	9.5	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	47.1	N	N	2 541.3	N	N	53.9	N	N
Common	27.4	N	N	1 427.5	N	N	52.1	N	N
Not reported	12.2	N	N	529.1	N	N	43.2	N	N
Not applicable ⁵	223.2	N	N	5 691.9	N	N	25.5	N	N
Type of service:									
Truckload	43.2	22.8	89.1	2 906.5	2 070.9	40.3	67.3	90.6	-25.8
Less-than truckload	31.0	11.0	181.4	1 055.0	568.8	85.5	34.0	51.6	-34.1
Not reported	12.5	N	N	536.4	N	N	42.9	N	N
Not applicable ⁵	223.2	N	N	5 691.9	N	N	25.5	N	N
Source of hauls:									
Shippers or receivers	61.2	N	N	3 119.1	N	N	50.9	N	N
Brokers	4.4	N	N	418.4	N	N	94.8	N	N
Centralized markets or exchanges	2.8	N	N	141.1	N	N	51.0	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	18.4	N	N	819.3	N	N	44.6	N	N
Not applicable ⁵	223.2	N	N	5 691.9	N	N	25.5	N	N
HAZARDOUS MATERIALS CARRIED⁶									
Carrying hazardous materials	24.3	26.1	-6.7	1 100.9	1 635.9	-32.7	45.2	62.7	-27.9
Not carrying hazardous materials	206.7	196.8	5.0	6 540.0	5 986.8	9.2	31.6	30.4	4.0
Not reported	43.2	37.2	16.3	1 373.9	1 014.1	35.5	31.8	27.3	16.5
Not applicable ⁷	35.7	N	N	1 175.1	N	N	32.9	N	N
EQUIPMENT TYPE⁴									
Aerial work platform/bucket	8.9	N	N	105.7	N	N	11.9	N	N
Air bag(s) (safety device only)	34.9	17.9	95.4	1 679.4	1 353.0	24.1	48.1	75.7	-36.5
Air compressor (except air brakes)	29.1	N	N	1 195.2	N	N	41.1	N	N
Air-conditioning	193.4	145.1	33.2	8 062.6	6 669.1	20.9	41.7	45.9	-9.3
Air springs	29.8	N	N	2 138.7	N	N	71.8	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	2002 truck	1997 truck	Percent	2002 average	1997 average	Percent
	(thousands)	(thousands)	change	miles	miles	change	miles per	miles per	change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE⁴—Con.									
Antilock brake system	105.3	38.2	176.0	5 462.4	2 196.3	148.7	51.9	57.6	-9.9
Collision warning system	2.3	N	N	82.4	N	N	35.4	N	N
Computerized drive train control unit	9.6	N	N	597.6	N	N	62.0	N	N
Crane	4.2	N	N	68.9	N	N	16.5	N	N
Electronic vehicle identification device	8.5	6.4	32.5	678.5	467.6	45.1	79.8	72.9	9.5
Engine retarder/brake	34.8	29.0	19.8	2 411.4	2 207.3	9.2	69.3	76.0	-8.8
Front-wheel drive	V	V	N	V	V	N	V	V	N
Hoist	13.4	N	N	173.5	N	N	12.9	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	7.7	N	N	401.9	N	N	52.2	N	N
Internet access	.9	N	N	85.4	N	N	96.3	N	N
Lift gate	17.1	N	N	426.1	N	N	24.9	N	N
Mounting bar for snowplow	V	N	N	V	N	N	V	N	N
Navigational system	S	3.2	S	S	273.7	S	S	85.2	S
Power take-off	76.0	N	N	2 349.1	N	N	30.9	N	N
Radial tires	179.9	179.5	.2	6 433.1	6 952.3	-7.5	35.8	38.7	-7.7
Reflective material in addition to those required by law	41.5	57.8	-28.1	1 522.8	2 577.4	-40.9	36.7	44.6	-17.8
Road speed governor	113.4	85.6	32.4	5 264.0	4 249.7	23.9	46.4	49.6	-6.5
Toolbox	77.6	N	N	2 341.1	N	N	30.2	N	N
Trip recorder or on-board computer with communication capabilities	32.1	N	N	1 534.2	N	N	47.8	N	N
Trip recorder or on-board computer without communication capabilities	9.3	N	N	634.2	N	N	68.0	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	25.3	N	N	550.1	N	N	21.7	N	N
Transmission type:									
Automatic	59.2	N	N	1 320.7	N	N	22.3	N	N
Manual	206.6	N	N	7 227.6	N	N	35.0	N	N
Semiautomated manual	2.6	N	N	86.2	N	N	33.8	N	N
Automated manual	1.0	N	N	119.6	N	N	115.6	N	N
Not reported	40.5	N	N	1 433.7	N	N	35.4	N	N
Braking system:									
Hydraulic (standard)	61.3	46.9	30.7	1 091.0	724.5	50.6	17.8	15.4	15.2
Hydraulic with power assist	63.5	61.5	3.3	1 218.2	1 108.6	9.9	19.2	18.0	6.4
Air	143.6	135.9	5.7	6 404.6	6 290.2	1.8	44.6	46.3	-3.7
Other	V	3.7	N	V	43.0	N	V	11.5	N
Not reported	41.5	N	N	1 476.1	N	N	35.6	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	59.8	74.6	-19.9	737.8	759.5	-2.8	12.3	10.2	21.3
Diesel	235.9	179.4	31.5	9 383.0	7 782.9	20.6	39.8	43.4	-8.3
Natural gas	V	N	N	V	N	N	V	N	N
Propane	3.9	N	N	52.0	N	N	13.4	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	9.5	N	N	S	N	N	S	N	N
Cylinders ⁸ :									
4 cylinders	9.2	7.1	29.9	245.0	208.7	17.4	26.5	29.3	-9.6
6 cylinders	184.0	130.6	40.9	8 245.2	6 702.9	23.0	44.8	51.3	-12.7
8 cylinders	96.1	88.1	9.0	1 499.9	1 242.8	20.7	15.6	14.1	10.7
Other	20.6	34.2	-39.8	199.8	482.3	-58.6	9.7	14.1	-31.2
Cubic inch displacement ⁸ :									
Gasoline fuel	59.8	74.6	-19.9	737.8	759.5	-2.8	12.3	10.2	21.3
Less than 200	S	S	S	S	S	S	S	S	S
200 to 299	4.0	3.5	13.8	90.2	78.5	15.0	22.4	22.2	1.1
300 to 349	3.2	1.2	161.8	46.2	S	S	14.6	S	S
350 to 399	26.9	32.4	-17.0	368.2	350.2	5.1	13.7	10.8	26.6
400 or more	17.1	17.3	-1.2	202.1	225.2	-10.3	11.8	13.0	-9.1
Not available	8.3	19.3	-56.9	28.8	83.3	-65.4	3.5	4.3	-19.8
Diesel fuel	235.9	179.4	31.5	9 383.0	7 782.9	20.6	39.8	43.4	-8.3
Less than 400	24.2	22.1	9.2	560.5	548.9	2.1	23.2	24.8	-6.5
400 to 599	86.4	47.8	80.6	2 165.0	1 204.6	79.7	25.1	25.2	-5
600 to 799	63.8	43.0	48.5	3 397.5	2 262.3	50.2	53.3	52.7	1.1
800 or more	38.1	41.6	-8.3	2 192.3	2 883.9	-24.0	57.5	69.4	-17.1
Not available	23.4	24.9	-6.0	1 067.6	883.2	20.9	45.6	35.5	28.6
Other fuel	4.7	3.7	29.4	64.9	71.7	-9.5	13.7	19.6	-30.1
Less than 400	2.7	S	S	35.5	S	S	13.0	S	S
400 or more	1.4	1.8	-21.4	29.0	56.2	-48.5	20.2	30.8	-34.5
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	9.5	N	N	S	N	N	S	N	N
REFUELING LOCATION									
Gas station	90.5	N	N	1 912.9	N	N	21.1	N	N
Truck stop	53.2	N	N	2 999.0	N	N	56.4	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	119.9	N	N	3 954.4	N	N	33.0	N	N
Other company's/contractor's facility not open to the public	11.1	N	N	537.4	N	N	48.6	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	25.7	N	N	782.1	N	N	30.5	N	N
Not applicable ²	9.5	N	N	S	N	N	S	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	2.0	2.0	3.1	S	S	S	S	S	S
Company-owned maintenance facility	157.6	102.7	53.5	6 117.4	4 251.5	43.9	38.8	41.4	-6.3
General repair business or private mechanic	85.3	61.9	37.9	2 811.2	1 758.1	59.9	32.9	28.4	16.0
Dealership service department	34.0	22.4	51.5	1 565.4	1 046.5	49.6	46.1	46.7	-1.2
Leasing company	7.1	6.0	18.4	357.0	354.6	.7	50.0	58.9	-15.0
Individual not employed/paid by any maintenance type facility:									
Other	37.5	72.0	-48.0	877.6	1 859.9	-52.8	23.4	25.8	-9.3
Not reported	25.5	35.3	-27.7	790.3	1 051.4	-24.8	30.9	29.8	3.9
Not applicable ²	9.5	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	195.7	6.3	2 989.2	6 046.6	130.6	4 528.8	30.9	20.6	49.8
Company-owned maintenance facility	24.2	53.1	-54.3	889.5	2 030.0	-56.2	36.7	38.3	-4.1
General repair business or private mechanic	24.7	57.6	-57.2	1 029.2	1 517.3	-32.2	41.7	26.3	58.5
Dealership service department	17.9	41.0	-56.4	1 009.3	2 084.8	-51.6	56.5	50.9	10.9
Leasing company	1.2	3.7	-69.0	S	275.0	S	S	73.6	S
Component distributorship (engine, transmission, body, etc.):									
Individual not employed/paid by any repair type facility	1.6	12.3	-87.0	80.9	526.9	-84.6	50.5	42.7	18.2
Other	7.5	16.8	-55.1	195.7	370.4	-47.2	26.0	22.1	17.7
Not reported	V	1.0	N	V	S	S	V	S	S
Not applicable ²	S	91.7	S	S	2 527.1	S	S	27.6	S
	9.5	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	196.2	159.4	23.1	3 683.9	2 794.2	31.8	18.8	17.5	7.1
3 axles	160.7	131.0	22.7	2 970.5	2 185.3	35.9	18.5	16.7	10.8
4 axles	34.4	28.1	22.3	693.8	602.1	15.2	20.2	21.4	-5.8
5 axles or more	.9	S	S	19.4	S	S	22.3	S	S
Not reported	S	N	N	S	N	N	N	N	N
	S	V	S	V	V	N	S	V	S
Combinations:									
Single-unit trucks with trailer:	113.7	100.6	13.0	6 506.0	5 842.5	11.4	57.2	58.1	-1.4
3 axles	12.7	6.1	107.7	355.2	120.0	196.0	27.9	19.6	42.5
4 axles	1.4	S	S	25.6	S	S	17.8	S	S
5 axles or more	6.8	4.5	50.0	159.4	85.6	86.2	23.6	19.0	24.1
Not reported	4.1	.9	355.7	142.4	28.8	395.0	34.9	32.1	8.6
	S	N	N	S	N	N	S	N	N
Truck-tractors with single trailer:	98.7	93.8	5.2	5 977.1	5 661.2	5.6	60.5	60.3	.3
3 axles	5.1	5.5	-8.2	133.2	128.0	4.1	26.3	23.2	13.3
4 axles	12.3	16.8	-26.5	436.9	552.2	-20.9	35.5	32.9	7.7
5 axles or more	70.3	71.5	-1.7	4 735.8	4 980.9	-4.9	67.3	69.6	-3.3
Not reported	11.0	N	N	671.1	N	N	60.8	67.1	N
Truck-tractors with double trailers:	2.1	.7	207.4	169.5	61.3	176.3	82.1	91.3	-10.1
5 axles	1.2	S	S	81.4	S	S	68.8	S	S
6 axles	.6	S	S	S	S	S	S	S	S
7 axles	V	V	N	V	V	N	V	V	N
8 axles or more	S	V	S	S	V	S	S	V	S
Not reported	S	N	N	S	N	N	N	N	N
Truck-tractors with triple trailers:	S	V	S	S	V	S	S	V	S
7 axles	V	V	N	V	V	V	V	V	N
8 axles	V	V	N	V	V	N	V	V	N
9 axles	V	V	N	V	V	N	V	V	N
10 axles or more	S	V	S	S	V	S	S	V	S
Not reported	V	N	N	V	V	N	V	N	N
Driving axles:									
1	186.7	156.7	19.1	3 866.4	2 867.9	34.8	20.7	18.3	13.1
2	121.7	101.6	19.8	6 274.6	5 658.4	10.9	51.6	55.7	-7.4
3 or more	S	1.7	S	S	110.5	S	S	66.4	S
Not reported	1.0	V	N	S	V	S	S	V	S
Total liftable axles and locations ⁹ :									
None	302.1	99.3	204.2	9 977.3	3 781.3	163.9	33.0	38.1	-13.3
1	1.6	1.6	-1.4	45.8	59.3	-22.8	28.6	36.5	-21.7
Forward of the drive axle	.9	N	N	24.2	N	N	27.6	N	N
Below the chassis	S	N	N	S	N	N	S	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	S	V	S	S	V	S	S	V	S
Forward of the drive axle	S	N	N	S	N	N	S	N	N
Below the chassis	V	N	N	V	N	N	V	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	6.1	N	N	166.5	N	N	27.2	N	N
Total liftable axles and number of braking axles:									
None	302.1	99.3	204.2	9 977.3	3 781.3	163.9	33.0	38.1	-13.3
1	1.6	1.6	-1.4	45.8	59.3	-22.8	28.6	36.5	-21.7
0 braking	S	N	N	S	N	N	S	N	N
1 braking	1.3	N	N	31.6	N	N	24.1	N	N
Not reported	V	N	N	V	N	N	V	N	N
2 or more	S	V	S	S	V	S	S	V	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	S	N	N	S	N	N	S	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	6.1	N	N	166.5	N	N	27.2	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	284.2	206.6	37.5	9 427.9	7 114.1	32.5	33.2	34.4	-3.6
With sleeper	35.9	N	N	3 039.4	N	N	84.6	N	N
Without sleeper	237.3	N	N	5 759.7	N	N	24.3	N	N
Not reported	11.0	N	N	628.8	N	N	56.9	N	N
Cab over engine	24.3	26.6	-9.0	731.5	790.4	-7.5	30.2	29.7	1.7
With sleeper	4.3	N	N	170.2	N	N	39.9	N	N
Without sleeper	18.8	N	N	508.6	N	N	27.0	N	N
Not reported	1.2	N	N	52.6	N	N	45.1	N	N
Cab forward of engine	S	8.7	S	S	230.8	S	S	26.6	S
Cab beside engine	S	1.5	S	S	19.6	S	S	12.7	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	4.4	1.2	5.5	4.0	2.8	5.7	2.6	2.5	3.6
BUSINESS									
For-hire transportation or warehousing	22.0	6.0	41.0	11.4	6.6	16.6	12.8	4.2	9.4
Vehicle leasing or rental	9.2	21.7	136.2	10.6	21.5	139.9	7.0	13.5	15.4
Agriculture, forestry, fishing, or hunting	9.4	7.6	8.6	15.9	11.3	13.5	14.1	9.7	16.5
Mining	10.7	11.2	19.3	14.1	14.4	24.4	10.1	11.2	14.7
Utilities	12.6	18.1	43.9	16.4	21.3	75.6	11.4	13.1	24.6
Construction	5.9	5.8	8.3	7.8	7.5	11.4	5.7	5.7	8.4
Manufacturing	9.8	10.5	20.3	13.6	13.3	16.5	10.8	10.3	9.1
Wholesale trade	10.0	8.9	11.0	12.3	12.4	13.1	8.3	9.4	11.4
Retail trade	10.5	9.5	11.9	12.9	11.8	13.0	8.8	8.9	11.0
Information services	35.6	N	N	41.1	N	N	21.5	N	N
Waste management, landscaping, or administrative/support services	14.1	N	N	16.6	N	N	11.3	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	21.4	N	N	25.0	N	N	18.7	N	N
Other services	18.1	N	N	32.8	N	N	29.0	N	N
Personal transportation	S	21.1	S	S	30.5	S	S	22.4	S
Not reported	9.3	N	N	10.9	N	N	7.5	N	N
Not applicable ¹	15.4	25.7	88.8	S	N	S	S	N	S
BODY TYPE									
Single-unit trucks	6.7	2.0	8.8	8.9	4.7	13.9	3.7	4.2	6.2
Armored	S	N	N	S	N	N	S	N	N
Beverage	44.5	33.8	31.9	44.9	39.9	33.8	5.9	21.4	21.9
Concrete mixer	11.2	12.7	29.2	13.7	14.2	37.6	7.6	6.6	11.2
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	46.8	29.0	21.7	S	36.3	S	S	29.7	S
Curtainside	N	N	N	N	N	N	N	N	N
Dump	10.0	11.8	19.6	14.7	13.8	27.5	12.4	10.4	17.3
Flatbed, stake, or platform	5.7	5.3	7.1	10.8	9.1	15.8	9.2	7.4	14.4
Low boy	S	N	N	S	N	S	S	N	S
Pole, logging, pulpwood, or pipe	46.8	S	S	S	S	S	S	S	S
Service, utility	13.6	22.0	64.3	18.2	24.4	86.2	11.9	11.3	18.7
Service, other	16.4	23.1	50.8	21.7	28.8	61.0	13.9	18.2	21.6
Street sweeper	N	N	N	N	N	N	N	N	N
Tank, dry bulk	S	44.7	S	S	S	S	S	S	S
Tank, liquids or gases	13.6	15.7	28.6	17.8	18.6	26.0	12.4	11.4	12.4
Tow/Wrecker	16.6	21.9	48.4	26.0	38.6	102.7	19.7	30.4	45.3
Trash, garbage, or recycling	18.4	23.6	54.6	20.6	27.1	61.4	10.9	11.4	15.6
Vacuum	32.5	N	N	42.5	N	N	31.6	N	N
Van, basic enclosed	9.5	10.4	16.6	11.8	12.6	21.4	6.9	8.5	11.5
Van, insulated nonrefrigerated	N	S	S	N	S	S	N	S	S
Van, insulated refrigerated	19.9	22.0	38.0	21.8	25.2	37.7	9.9	14.0	15.2
Van, open top	36.6	26.9	27.9	S	43.7	S	S	39.4	S
Van, step, walk-in, or multistop	48.6	15.1	118.6	S	18.4	S	S	10.6	S
Van, other	32.5	N	N	39.8	N	N	22.6	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	2.3	2.4	3.6	3.5	3.6	5.4	3.1	2.9	4.2
Automobile carrier	35.0	S	S	38.9	S	S	17.1	S	S
Beverage	38.8	17.6	21.2	43.6	23.4	14.6	19.1	15.5	14.5
Curtainside	S	N	N	S	N	N	S	N	N
Dump	11.5	13.6	28.2	14.1	15.4	33.4	8.5	9.9	13.1
Flatbed, stake, or platform	9.0	8.0	11.4	12.8	10.0	13.5	9.6	7.3	10.6
Livestock	46.7	33.0	49.9	S	43.3	S	S	28.0	S
Low boy	18.6	17.2	21.6	23.6	20.6	41.6	14.5	15.3	32.9
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	20.6	16.3	22.0	28.1	20.5	36.7	19.1	12.4	28.7
Pole, logging, pulpwood, or pipe	29.9	31.0	45.5	37.2	34.2	67.8	22.3	21.9	39.6
Tank, dry bulk	27.4	24.7	39.5	35.3	31.0	68.1	22.2	18.7	39.3
Tank, liquids or gases	12.2	11.2	17.2	14.4	13.4	16.8	8.4	7.9	9.4
Van, basic enclosed	5.8	6.0	10.2	7.1	7.4	11.4	4.6	4.6	6.0
Van, drop-frame	S	35.1	S	S	39.3	S	S	17.7	S
Van, insulated nonrefrigerated	49.8	37.5	46.7	S	46.5	S	S	27.5	S
Van, insulated refrigerated	10.7	11.3	21.2	11.7	13.0	21.1	5.6	5.7	7.1
Other	S	N	N	S	N	N	S	N	N
Not applicable ²	27.7	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	6.5	6.8	10.3	8.5	9.2	14.8	5.5	6.2	9.0
5,000 to 9,999	9.1	8.5	10.5	9.3	8.7	10.8	2.2	1.9	2.9
10,000 to 19,999	6.1	5.9	8.4	6.2	6.1	9.2	1.4	1.5	2.2
20,000 to 29,999	21.3	7.2	39.8	21.4	7.3	41.1	.6	1.0	1.2
30,000 to 49,999	6.4	7.2	12.8	6.4	7.1	12.6	1.0	1.1	1.5
50,000 to 74,999	7.8	7.2	11.2	7.8	7.1	11.5	1.0	1.0	1.4
75,000 or more	5.4	5.4	8.5	5.8	5.8	8.8	2.2	1.8	2.8
Not applicable ¹	15.4	25.7	88.8	S	N	S	S	N	S

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	11.7	10.9	14.0	20.5	17.2	29.2	18.1	14.8	29.3
50 miles or less	10.1	3.4	13.5	11.7	5.2	20.2	3.9	4.2	7.1
51 to 100 miles	6.6	5.3	6.1	9.1	6.3	10.2	7.0	4.4	10.6
101 to 200 miles	10.3	7.9	8.6	13.1	8.6	10.8	9.0	5.7	11.1
201 to 500 miles	10.8	9.0	10.9	12.7	9.0	12.7	7.7	4.7	9.4
501 miles or more	8.9	7.6	9.4	10.0	8.3	8.7	5.7	4.7	6.2
Not reported	5.9	25.7	412.9	6.7	N	N	4.4	N	N
Not applicable	15.4	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	N	N	N	N	N	N	N	N	N
Operated in Mexico	S	N	N	S	N	N	S	N	N
Operated within the home base state	5.9	N	N	5.8	N	N	3.1	N	N
Operated in states other than the home base state	9.2	N	N	10.1	N	N	5.4	N	N
Not reported	6.2	N	N	7.1	N	N	4.7	N	N
Not applicable ¹	15.4	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	6.5	N	N	5.0	N	N	3.5	N	N
7 to 11	7.1	N	N	9.0	N	N	6.9	N	N
2 to 6	7.8	N	N	12.0	N	N	10.1	N	N
1 or less	12.2	N	N	33.0	N	N	31.8	N	N
Vehicle not used	15.4	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	7.7	6.5	7.7	10.8	10.5	10.6	7.7	8.3	10.5
Medium	22.8	6.7	31.5	28.6	9.5	49.9	7.5	7.0	12.8
Light-heavy	6.5	7.8	13.7	9.7	11.7	21.2	7.2	9.2	12.1
Heavy-heavy	1.9	2.2	3.6	3.0	3.4	5.3	2.9	2.9	3.8
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	21.9	18.4	19.7	32.8	25.4	28.8	24.4	18.1	30.5
6,001 to 8,500	12.6	N	N	16.2	N	N	10.4	N	N
8,501 to 10,000	12.7	N	N	17.4	N	N	12.5	N	N
10,001 to 14,000	10.4	11.1	17.1	14.5	15.4	29.1	10.3	11.4	18.9
14,001 to 16,000	13.0	13.5	18.5	19.0	19.2	32.0	14.2	13.4	23.4
16,001 to 19,500	S	14.0	S	S	17.7	S	S	11.0	S
19,501 to 26,000	6.5	7.8	13.7	9.7	11.7	21.2	7.2	9.2	12.1
26,001 to 33,000	10.6	10.8	16.7	13.9	20.4	28.3	9.3	16.8	20.0
33,001 to 40,000	12.4	10.6	15.8	25.3	13.9	29.8	21.5	9.1	25.0
40,001 to 50,000	8.0	6.5	10.3	10.5	8.8	9.9	7.2	6.4	6.9
50,001 to 60,000	9.1	10.4	24.4	15.5	13.7	26.1	12.5	9.1	11.0
60,001 to 80,000	2.8	3.4	6.0	4.0	4.6	7.4	3.0	3.0	3.8
80,001 to 100,000	22.0	27.5	70.1	26.3	30.3	88.2	14.4	12.8	21.3
100,001 to 130,000	37.5	S	S	47.8	S	S	29.5	S	S
130,001 or more	S	S	S	S	S	S	S	S	S
TOTAL LENGTH (FEET)									
Less than 20.0	17.3	5.5	24.2	24.7	9.0	37.5	8.4	7.2	11.9
20.0 to 27.9	5.0	4.7	6.6	8.8	6.7	12.0	7.3	5.1	10.1
28.0 to 35.9	7.6	8.8	15.5	10.3	15.0	24.5	6.9	11.8	13.8
36.0 to 40.9	13.5	17.0	37.5	18.1	22.6	54.2	12.3	17.2	22.9
41.0 to 44.9	16.9	38.8	293.4	21.5	S	S	14.8	S	S
45.0 to 49.9	14.8	15.4	28.1	20.3	19.2	52.0	15.9	14.0	29.8
50.0 to 54.9	8.8	11.0	25.4	10.3	14.0	37.2	6.0	10.2	14.0
55.0 to 59.9	9.1	5.9	7.0	11.5	7.8	9.5	7.9	5.1	9.9
60.0 to 64.9	6.9	5.8	8.3	9.4	7.2	8.8	6.6	4.2	6.3
65.0 to 69.9	9.3	9.4	15.9	11.5	11.4	14.4	6.9	6.1	6.8
70.0 to 74.9	11.8	17.6	61.2	14.3	19.6	49.5	8.4	8.0	8.2
75.0 to 79.9	14.7	N	N	15.8	N	N	5.8	N	N
80.0 or more	40.6	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	7.5	7.3	11.8	10.6	9.2	13.8	8.4	6.9	9.4
5 to 6.9	3.9	3.2	4.3	5.1	4.2	5.9	4.2	3.6	5.8
7 to 8.9	6.7	5.8	7.0	9.5	9.0	9.0	7.4	7.4	9.1
9 to 10.9	32.3	7.9	39.5	38.6	11.0	49.7	8.8	8.6	12.9
11 to 12.9	11.0	11.6	17.5	15.0	14.8	23.7	10.3	10.3	15.0
13 to 14.9	19.0	22.0	36.7	26.5	30.7	46.8	19.1	22.2	26.7
15 or more	19.3	18.3	23.0	26.0	27.0	37.7	17.3	20.3	31.0
15 to 20.9	19.3	19.0	25.1	26.0	28.2	40.8	17.3	21.4	31.5
21 to 24.9	N	S	S	N	S	S	N	S	S
25 or more	N	S	S	N	S	S	N	S	S
Not reported	5.0	13.0	70.9	6.4	21.6	209.7	4.7	18.5	34.9
Not applicable ¹	15.4	N	N	S	N	N	S	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
MODEL YEAR									
2003	25.5	N	N	26.9	N	N	8.8	N	N
2002	16.9	N	N	19.8	N	N	11.9	N	N
2001	9.9	N	N	11.5	N	N	7.7	N	N
2000	7.3	N	N	8.4	N	N	5.6	N	N
1999	7.8	N	N	9.5	N	N	6.7	N	N
1998	9.0	S	S	11.1	S	S	7.8	S	S
1997	11.1	12.7	26.2	12.4	13.9	15.6	7.6	9.6	6.6
1996	12.5	10.0	12.6	14.3	11.4	7.7	9.3	8.1	6.6
1995	11.7	9.6	10.4	14.4	10.1	6.6	9.8	7.3	6.6
1994	13.7	11.1	11.4	15.8	13.7	6.6	10.3	10.1	7.0
1993	13.6	12.2	16.1	22.7	14.6	20.1	18.4	9.9	17.7
Pre-1993	11.0	2.1	8.0	17.3	3.5	8.2	7.5	3.2	5.3
VEHICLE ACQUISITION									
New	7.7	3.3	12.6	5.7	4.6	10.7	4.0	3.7	5.3
Used	4.1	3.3	4.2	6.6	4.9	5.6	5.7	4.4	6.1
Not reported	7.5	8.8	16.1	9.4	9.8	15.1	6.8	7.4	8.1
LEASE CHARACTERISTICS									
Leased	5.5	N	N	6.2	N	N	4.2	N	N
Lessee	9.7	N	N	11.6	N	N	8.1	N	N
Vehicle only	9.8	N	N	11.6	N	N	8.2	N	N
Vehicle with driver	S	N	N	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Lessor	7.2	N	N	8.0	N	N	4.9	N	N
Vehicle only	7.8	N	N	8.6	N	N	5.3	N	N
Vehicle with driver	21.5	N	N	24.7	N	N	12.3	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	44.4	N	N	45.2	N	N	8.2	N	N
Not reported	8.8	N	N	8.3	N	N	4.1	N	N
Not reported	4.0	N	N	6.0	N	N	5.0	N	N
Length of leasing agreement:									
Leased	5.5	N	N	6.2	N	N	4.2	N	N
1 to 11 months	18.6	N	N	22.5	N	N	14.7	N	N
12 months or more	5.9	N	N	6.7	N	N	4.5	N	N
Not reported	49.7	N	N	S	N	N	S	N	N
Provisions of lease:									
Financing only	7.8	N	N	8.7	N	N	5.6	N	N
Full maintenance	8.4	N	N	9.4	N	N	5.7	N	N
Payment of taxes	8.3	N	N	9.4	N	N	6.0	N	N
Obtaining licenses and permits	8.4	N	N	9.4	N	N	6.0	N	N
Recordkeeping	10.5	N	N	11.6	N	N	7.3	N	N
Fuel contract	17.4	N	N	18.6	N	N	10.2	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	2.1	N	N	3.9	N	N	3.4	N	N
Motor carrier	20.8	N	N	11.3	N	N	11.7	N	N
Owner operator	8.8	N	N	10.8	N	N	7.0	N	N
Rental	8.9	N	N	10.3	N	N	6.9	N	N
Personal transportation	S	N	N	S	N	N	S	N	N
Not applicable ¹	15.4	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	29.3	N	N	14.5	N	N	16.6	N	N
Common	7.8	N	N	10.9	N	N	8.2	N	N
Not reported	12.5	N	N	14.1	N	N	8.9	N	N
Not applicable ³	1.6	N	N	3.5	N	N	3.1	N	N
Type of service:									
Truckload	5.4	6.8	16.4	6.8	7.8	14.6	4.6	4.0	4.5
Less-than truckload	44.3	13.2	129.9	32.4	13.9	65.5	14.8	9.4	11.6
Not reported	12.4	N	N	14.0	N	N	9.1	N	N
Not applicable ³	1.6	N	N	3.5	N	N	3.1	N	N
Source of hauls:									
Shippers or receivers	22.6	N	N	12.1	N	N	12.5	N	N
Brokers	18.5	N	N	20.4	N	N	9.8	N	N
Centralized markets or exchanges	26.1	N	N	32.3	N	N	20.2	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	9.9	N	N	13.6	N	N	9.9	N	N
Not applicable ³	1.6	N	N	3.5	N	N	3.1	N	N
HAZARDOUS MATERIALS CARRIED⁴									
Carrying hazardous materials	8.5	7.9	10.8	10.5	8.8	9.3	7.7	6.6	7.3
Not carrying hazardous materials	6.9	2.0	7.5	6.2	3.5	7.7	3.6	3.1	4.9
Not reported	6.5	7.2	11.3	8.1	9.2	16.6	6.0	7.5	11.2
Not applicable ⁵	7.4	N	N	10.2	N	N	8.1	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	16.8	N	N	22.1	N	N	14.7	N	N
Air bag(s) (safety device only)	7.2	8.6	22.0	8.7	9.1	15.7	5.9	5.9	5.3
Air compressor (except air brakes)	7.8	N	N	10.0	N	N	7.6	N	N
Air-conditioning	2.1	2.6	4.5	3.1	3.3	5.5	2.8	2.9	3.6
Air springs	6.7	N	N	8.1	N	N	5.2	N	N
Antilock brake system	3.6	6.6	20.6	4.4	7.5	21.5	3.3	5.6	5.9
Collision warning system	29.1	N	N	34.3	N	N	21.1	N	N
Computerized drive train control unit	13.4	N	N	16.7	N	N	11.0	N	N
Crane	23.9	N	N	29.1	N	N	18.1	N	N
Electronic vehicle identification device	13.2	14.6	26.1	14.8	16.5	32.2	8.2	10.2	14.3
Engine retarder/brake	5.9	6.2	10.3	7.4	7.6	11.5	4.8	4.9	6.2
Front-wheel drive	N	N	N	N	N	N	N	N	N
Hoist	13.1	N	N	20.4	N	N	16.5	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	15.6	N	N	18.7	N	N	11.9	N	N
Internet access	40.5	N	N	44.1	N	N	17.4	N	N
Lift gate	11.8	N	N	14.7	N	N	8.8	N	N
Mounting bar for snowplow	N	N	N	N	N	N	N	N	N
Navigational system	S	23.3	S	S	23.9	S	S	17.3	S
Power take-off	4.5	N	N	7.1	N	N	6.0	N	N
Radial tires	7.9	2.2	8.2	6.1	3.1	6.4	3.8	2.8	4.4
Reflective material in addition to those required by law	6.5	5.0	5.9	8.6	6.1	6.2	6.7	4.9	6.8
Road speed governor	12.4	3.9	17.2	7.5	4.7	11.0	6.7	3.8	7.2
Toolbox	4.6	N	N	7.3	N	N	6.0	N	N
Trip recorder or on-board computer with communication capabilities	42.7	N	N	22.9	N	N	21.8	N	N
Trip recorder or on-board computer without communication capabilities	13.9	N	N	16.3	N	N	10.7	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	9.0	N	N	13.6	N	N	10.2	N	N
Transmission type:									
Automatic	5.6	N	N	8.4	N	N	6.5	N	N
Manual	6.9	N	N	5.6	N	N	3.7	N	N
Semiautomated manual	25.8	N	N	30.7	N	N	18.3	N	N
Automated manual	37.5	N	N	40.0	N	N	13.8	N	N
Not reported	6.7	N	N	7.6	N	N	4.8	N	N
Braking system:									
Hydraulic (standard)	5.5	6.6	11.2	10.5	10.9	22.7	9.0	8.8	14.5
Hydraulic with power assist	22.0	5.5	23.4	27.7	8.3	31.8	7.7	6.5	10.8
Air	2.3	2.2	3.4	3.6	3.2	4.9	3.2	2.9	4.2
Other	N	27.0	N	N	41.9	N	N	32.4	N
Not reported	6.7	N	N	7.5	N	N	4.6	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	5.5	4.6	5.7	8.9	8.6	12.0	6.9	7.2	12.2
Diesel	6.0	2.1	8.3	4.3	3.0	6.4	3.4	2.7	3.9
Natural gas	N	N	N	N	N	N	N	N	N
Propane	26.6	N	N	30.9	N	N	15.7	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	15.4	N	N	S	N	N	S	N	N
Cylinders ⁶ :									
4 cylinders	12.5	12.2	22.8	16.9	16.3	27.5	10.4	12.1	14.5
6 cylinders	2.0	2.7	4.7	3.0	3.4	5.6	2.7	2.9	3.4
8 cylinders	14.6	4.0	16.5	22.5	7.1	28.4	8.9	5.9	11.8
Other	9.6	7.1	7.2	17.3	10.8	8.5	15.5	9.5	12.5
Cubic inch displacement ⁶ :									
Gasoline fuel									
Less than 200	5.5	S	S	S	S	S	6.9	7.2	12.2
200 to 299	26.4	27.4	43.3	34.7	31.4	53.8	22.5	20.6	30.9
300 to 349	29.8	49.7	151.9	33.3	S	S	14.7	S	S
350 to 399	9.3	8.4	10.4	13.0	11.4	18.2	9.3	7.8	15.4
400 or more	12.2	12.2	17.0	17.3	20.5	24.1	12.3	16.5	18.7
Not available	17.7	11.1	9.0	30.9	20.4	12.8	25.8	16.6	24.6
Diesel fuel									
Less than 400	6.0	2.1	8.3	4.3	3.0	6.4	3.4	2.7	3.9
400 to 599	9.3	9.7	14.7	12.1	12.2	17.5	7.9	8.3	10.7
600 to 799	16.3	6.6	31.7	16.3	9.8	34.2	4.7	7.1	8.5
800 or more	3.9	4.9	9.3	5.4	6.6	12.8	3.9	4.7	6.2
Not available	5.3	4.4	6.3	7.2	5.7	7.0	5.0	3.6	5.1
Other fuel	7.8	6.9	9.8	11.5	10.6	19.0	9.3	8.7	16.3
Less than 400	24.1	26.7	46.5	29.4	33.3	40.2	16.9	19.6	18.1
400 or more	31.7	S	S	36.1	S	S	17.1	S	S
Not available	44.5	38.0	46.0	49.3	39.9	32.7	21.3	13.8	16.6
Not reported	N	N	N	S	S	S	S	S	S
Not applicable ¹	15.4	N	N	S	N	N	S	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	4.2	N	N	6.7	N	N	5.5	N	N
Truck stop	5.2	N	N	6.3	N	N	4.5	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	11.8	N	N	9.6	N	N	5.2	N	N
Other company's/contractor's facility not open to the public	13.2	N	N	16.6	N	N	12.4	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	8.6	N	N	9.6	N	N	5.6	N	N
Not applicable ¹	15.4	N	N	S	N	N	S	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	34.8	36.1	51.7	S	S	S	S	S	S
Company-owned maintenance facility	9.0	3.5	14.8	6.6	4.5	11.5	4.7	3.7	5.6
General repair business or private mechanic	4.3	5.4	9.5	6.1	7.1	14.9	4.8	5.7	8.6
Dealership service department	7.5	9.3	18.0	9.4	10.1	20.6	7.1	7.5	10.2
Leasing company	16.4	16.8	27.8	18.0	20.9	27.8	10.8	17.2	17.2
Individual not employed/paid by any maintenance type facility:									
Other	7.4	4.6	4.5	11.7	6.7	6.4	9.9	5.9	10.5
Not reported	N	31.8	N	N	43.6	N	N	33.8	N
Not applicable ¹	8.6	7.5	8.2	9.7	11.1	11.1	5.7	9.0	11.1
Extensive repairs performed by:									
None performed	7.3	19.1	630.6	6.6	26.2	1 247.9	3.6	23.6	35.7
Company-owned maintenance facility	8.8	5.5	4.7	12.4	6.5	6.1	10.2	5.2	11.0
General repair business or private mechanic	8.8	5.6	4.5	11.0	7.1	8.9	8.0	5.4	15.2
Dealership service department	10.1	6.1	5.2	12.5	7.2	7.0	9.3	5.3	11.9
Leasing company	43.0	19.6	14.7	S	24.8	S	S	18.0	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	34.9	11.9	4.8	44.3	13.3	7.1	28.3	9.4	35.3
Other	17.5	11.0	9.3	24.6	15.5	15.4	19.8	13.8	28.4
Not reported	N	35.3	N	N	S	S	N	S	S
Not applicable ¹	S	4.1	S	S	6.5	S	S	5.5	S
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	7.1	2.1	9.1	9.7	4.8	14.2	4.0	4.2	6.3
3 axles	8.7	2.6	11.1	11.9	6.0	18.1	4.9	5.2	7.9
4 axles	5.2	6.0	9.7	7.8	7.9	12.8	5.9	5.7	7.7
5 axles or more	40.4	S	S	42.2	S	S	12.1	S	S
Not reported	S	N	N	S	N	N	S	N	N
Combinations:									
Single-unit trucks with trailer	2.4	2.5	3.9	3.4	3.6	5.5	3.0	3.0	4.2
3 axles	13.4	21.0	51.7	17.5	28.8	99.7	12.4	21.9	35.8
4 axles	42.2	S	S	46.0	S	S	28.9	S	S
5 axles or more	19.9	25.2	48.2	27.9	37.3	86.7	19.1	27.9	42.0
Not reported	20.6	35.1	185.2	25.8	44.6	255.0	17.7	27.6	35.6
Truck-tractors with single trailer	S	N	N	S	N	N	S	N	N
3 axles	2.4	2.4	3.6	3.6	3.6	5.4	3.0	3.0	4.3
4 axles	20.9	16.1	24.2	27.1	21.7	36.1	18.1	16.1	27.4
5 axles or more	11.7	9.6	11.1	14.7	12.6	15.4	10.2	9.6	15.1
Not reported	3.1	2.7	4.0	4.4	4.1	5.7	3.2	2.8	4.1
Truck-tractors with double trailers	11.6	N	N	14.5	N	N	9.7	N	N
5 axles	26.4	40.5	148.7	35.3	43.0	153.8	23.5	14.4	24.8
6 axles	35.0	S	S	47.7	S	S	32.3	S	S
7 axles	49.8	S	S	S	S	S	S	S	S
8 axles or more	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	S
Truck-tractors with triple trailers	S	N	N	S	N	N	S	N	S
7 axles	N	N	N	N	N	N	N	N	N
8 axles	N	N	N	N	N	N	N	N	N
9 axles	N	N	N	N	N	N	N	N	N
10 axles or more	S	N	S	S	N	S	S	N	S
Not reported	N	N	N	N	N	N	N	N	N
Driving axles:									
1	7.4	2.2	9.2	9.4	5.1	14.4	3.9	4.5	6.7
2	1.8	2.2	3.4	3.4	3.6	5.5	3.0	2.9	3.9
3 or more	S	25.6	S	S	32.4	S	S	19.8	S
Not reported	37.5	N	N	S	N	S	S	N	S
Total liftable axles and locations:									
None	4.6	3.7	17.8	4.1	4.9	16.9	2.7	4.2	4.3
1	29.9	37.3	47.1	33.7	38.2	39.3	15.3	16.3	17.5
Forward of the drive axle	40.6	N	N	44.9	N	N	19.1	N	N
Below the chassis	S	N	N	S	N	N	S	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	S	N	S	S	N	S	S	N	S
Forward of the drive axle	S	N	N	S	N	N	S	N	N
Below the chassis	N	N	N	N	N	N	N	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	15.0	N	N	19.5	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]

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	4.6	3.7	17.8	4.1	4.9	16.9	2.7	4.2	4.3
1	29.9	37.3	47.1	33.7	38.2	39.3	15.3	16.3	17.5
0 braking	S	N	N	S	N	N	S	N	N
1 braking	33.1	N	N	36.1	N	N	14.4	N	N
Not reported	N	N	N	N	N	N	N	N	N
2 or more	S	N	S	S	N	S	S	N	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	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	15.0	N	N	19.5	N	N	12.5	N	N
CAB TYPE									
Conventional cab	4.9	1.8	7.2	4.3	3.1	7.0	2.8	2.8	3.8
With sleeper	5.4	N	N	6.6	N	N	3.8	N	N
Without sleeper	5.9	N	N	6.6	N	N	3.1	N	N
Not reported	11.1	N	N	12.7	N	N	5.7	N	N
Cab over engine	7.4	7.7	9.7	10.9	9.3	13.3	8.1	7.0	10.9
With sleeper	18.2	N	N	28.5	N	N	21.9	N	N
Without sleeper	8.5	N	N	11.9	N	N	8.4	N	N
Not reported	39.2	N	N	44.4	N	N	28.4	N	N
Cab forward of engine	S	16.9	S	S	19.3	S	S	11.2	S
Cab beside engine	S	40.9	S	S	49.2	S	S	32.9	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	6 412.0	6 015.7	168.8	63.4	164.0	X
Coefficient of variation (percent)	1.1	1.4	25.1	24.7	1.9	X
BUSINESS¹						
For-hire transportation or warehousing	78.6	S	S	3.9	37.0	26.3
Vehicle leasing or rental	23.3	1.1	4.5	4.6	13.0	9.2
Agriculture, forestry, fishing, or hunting	128.3	108.0	4.6	5.5	10.2	30.5
Mining	14.8	S	1.3	1.4	11.8	10.7
Utilities	45.7	S	S	4.9	5.6	47.6
Construction	256.3	213.5	6.5	7.0	29.3	21.1
Manufacturing	61.4	S	2.2	1.9	13.0	40.1
Wholesale trade	64.9	S	2.2	4.2	11.1	39.5
Retail trade	124.2	108.3	4.3	5.3	6.3	31.5
Information services	S	S	S	V	S	S
Waste management, landscaping, or administrative/support services	S	S	1.7	1.1	6.4	S
Arts, entertainment, or recreation services	S	S	S	V	V	S
Accommodation or food services	S	S	S	S	2.5	S
Other services	208.4	203.4	3.3	S	1.2	25.5
Personal transportation	5 136.8	5 044.0	77.0	S	S	2.4
Not reported	35.6	S	3.6	3.0	13.6	38.7
Not applicable ²	130.6	122.1	2.2	4.0	2.3	32.4
BODY TYPE						
Single-unit trucks	6 308.7	6 015.7	168.8	61.5	62.7	1.1
Pickup	3 326.7	3 203.6	107.7	S	V	2.0
Minivan	693.8	693.8	V	V	V	12.3
Other light vans	299.3	299.3	V	V	V	20.3
Sport utility	1 782.2	1 782.2	V	V	V	5.5
Armored	S	V	V	S	S	S
Beverage	1.4	V	V	S	S	44.5
Concrete mixer	9.7	V	V	V	9.7	11.2
Concrete pumper	S	V	V	V	S	S
Crane .....	.9	V	V	S	S	46.8
Curtainside	V	V	V	V	V	N
Dump	18.1	S	2.0	3.7	11.8	10.0
Flatbed, stake, or platform	58.1	15.5	17.4	13.1	12.1	5.7
Low boy	S	V	V	V	S	S
Pole, logging, pulpwood, or pipe .....	.9	V	V	V	.6	46.8
Service, utility	13.4	2.9	3.2	3.2	4.2	13.6
Service, other	9.6	3.2	3.2	2.7	.6	16.4
Street sweeper	V	V	V	V	V	N
Tank, dry bulk	S	V	V	S	S	S
Tank, liquids or gases	12.4	V	1.9	3.9	6.6	13.6
Tow/Wrecker	9.3	1.7	3.2	2.7	1.7	16.6
Trash, garbage, or recycling	4.8	V	S	V	4.6	18.4
Vacuum	1.6	V	S	V	1.4	32.5
Van, basic enclosed	25.0	5.0	8.3	9.3	2.3	9.5
Van, insulated nonrefrigerated	V	V	V	V	V	N
Van, insulated refrigerated	6.5	V	1.2	3.0	2.3	19.9
Van, open top	1.9	V	S	V	1.3	36.6
Van, step, walk-in, or multistop	28.3	6.5	S	2.0	S	48.6
Van, other	2.4	1.4	S	S	S	32.5
Other	S	V	V	V	S	S
Truck-tractors	103.3	V	V	1.9	101.4	2.3
Automobile carrier	1.2	V	V	V	1.2	35.0
Beverage	1.7	V	V	S	1.6	38.8
Curtainside	S	V	V	V	S	S
Dump	10.6	V	V	V	10.6	11.5
Flatbed, stake, or platform	17.5	V	V	S	17.2	9.0
Livestock .....	.9	V	V	V	.9	46.7
Low boy	4.1	V	V	V	4.1	18.6
Mobile home toter	S	V	V	V	S	S
Open top	3.4	V	V	V	3.4	20.6
Pole, logging, pulpwood, or pipe	1.6	V	V	V	1.6	29.9
Tank, dry bulk	1.9	V	V	V	1.9	27.4
Tank, liquids or gases	9.5	V	V	V	9.5	12.2
Van, basic enclosed	34.6	V	V	S	34.4	5.8
Van, drop-frame	S	V	V	V	S	S
Van, insulated nonrefrigerated .....	.6	V	V	V	.6	49.8
Van, insulated refrigerated	12.5	V	V	V	12.5	10.7
Other	S	V	V	V	S	S
Not applicable ³	2.3	V	V	1.3	1.0	27.7
ANNUAL MILES						
Less than 5,000	749.8	698.4	11.2	S	16.6	12.8
5,000 to 9,999	861.5	809.7	S	5.0	11.6	12.0
10,000 to 19,999	3 179.3	3 090.0	56.0	10.6	22.7	4.8
20,000 to 29,999	1 003.8	914.3	54.4	9.5	25.6	10.8
30,000 to 49,999	350.0	309.1	7.6	7.6	25.7	18.7
50,000 to 74,999	97.4	72.1	1.7	2.0	21.6	32.8
75,000 or more	39.5	S	S	S	38.0	5.4
Not applicable ²	130.6	122.1	2.2	4.0	2.3	32.4
PRIMARY RANGE OF OPERATION						
Off-the-road	60.6	S	3.4	3.2	8.0	42.3
50 miles or less	4 278.3	4 128.0	70.2	21.7	58.4	3.4
51 to 100 miles	655.2	601.9	S	7.3	25.1	13.8
101 to 200 miles	194.4	162.3	S	2.9	12.2	26.0
201 to 500 miles	100.3	56.7	S	S	11.3	35.3
501 miles or more	88.5	55.3	S	S	16.8	35.1
Not reported	904.0	843.4	S	7.0	30.0	11.5
Not applicable ²	130.6	122.1	2.2	4.0	2.3	32.4

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.....	V	V	V	V	V	N
Operated in Mexico.....	S	S	V	V	S	S
Operated within the home base state.....	5 584.0	5 270.4	142.9	51.4	119.2	2.1
Operated in states other than the home base state.....	76.7	60.2	S	S	15.6	38.9
Not reported.....	606.9	549.4	S	7.3	26.8	14.3
Not applicable ²	130.6	122.1	2.2	4.0	2.3	32.4
MONTHS OPERATED						
12.....	5 116.7	4 801.4	154.0	46.3	115.1	2.6
7 to 11.....	594.1	561.7	4.0	4.9	23.6	14.4
2 to 6.....	464.6	436.3	5.8	4.7	17.8	16.5
1 or less.....	106.0	94.4	2.9	3.5	5.3	34.6
Vehicle not used.....	130.6	122.1	2.2	4.0	2.3	32.4
AVERAGE WEIGHT (POUNDS)						
Less than 6,001.....	4 663.5	4 663.5	N	N	N	2.9
6,001 to 8,500.....	1 159.8	1 159.8	N	N	N	10.1
8,501 to 10,000.....	192.4	192.4	N	N	N	26.3
10,001 to 14,000.....	83.3	N	83.3	N	N	36.7
14,001 to 16,000.....	S	N	S	N	N	S
16,001 to 19,500.....	55.9	N	55.9	N	N	45.8
19,501 to 26,000.....	63.4	N	N	63.4	N	24.7
26,001 to 33,000.....	20.3	N	N	N	20.3	10.6
33,001 to 40,000.....	13.0	N	N	N	13.0	12.4
40,001 to 50,000.....	24.5	N	N	N	24.5	8.0
50,001 to 60,000.....	18.0	N	N	N	18.0	9.1
60,001 to 80,000.....	84.1	N	N	N	84.1	2.8
80,001 to 100,000.....	2.9	N	N	N	2.9	22.0
100,001 to 130,000.....	1.0	N	N	N	1.0	37.5
130,001 or more.....	S	N	N	N	S	S
TOTAL LENGTH (FEET)						
Less than 20.0.....	5 105.5	5 048.9	32.3	11.8	12.6	2.5
20.0 to 27.9.....	508.4	430.6	34.8	18.7	24.3	15.2
28.0 to 35.9.....	417.7	383.9	5.5	11.6	16.6	17.4
36.0 to 40.9.....	162.6	135.8	S	3.0	6.4	28.8
41.0 to 44.9.....	53.6	1.1	S	1.6	4.5	49.5
45.0 to 49.9.....	54.7	S	S	S	7.0	48.5
50.0 to 54.9.....	33.6	V	S	S	17.5	46.0
55.0 to 59.9.....	17.2	V	V	V	17.2	9.1
60.0 to 64.9.....	25.9	V	V	S	25.6	6.9
65.0 to 69.9.....	15.6	V	S	V	15.3	9.3
70.0 to 74.9.....	10.1	V	V	S	9.8	11.8
75.0 to 79.9.....	6.3	V	V	V	6.3	14.7
80.0 or more.....	.9	V	V	V	.9	40.6
MILES PER GALLON						
Less than 5.....	28.7	S	1.9	2.7	23.8	7.5
5 to 6.9.....	98.4	S	4.6	8.6	67.9	14.2
7 to 8.9.....	43.1	5.9	7.8	8.6	20.8	6.7
9 to 10.9.....	205.0	153.4	S	7.6	7.4	24.5
11 to 12.9.....	480.4	421.0	53.5	3.3	2.6	16.5
13 to 14.9.....	601.6	582.5	S	S	S	14.8
15 or more.....	3 913.7	3 878.0	S	1.6	1.2	3.8
15 to 20.9.....	3 249.5	3 213.8	S	1.6	1.2	4.7
21 to 24.9.....	401.9	401.9	V	V	V	18.4
25 or more.....	262.3	262.3	V	V	V	23.2
Not reported.....	910.5	835.4	11.8	S	37.3	11.4
Not applicable ²	130.6	122.1	2.2	4.0	2.3	32.4
MODEL YEAR						
2003.....	2.2	V	V	V	2.2	25.5
2002.....	S	S	S	S	5.0	S
2001.....	558.8	524.9	S	3.2	12.7	15.3
2000.....	1 001.9	970.5	4.2	4.2	23.1	10.8
1999.....	711.4	667.1	S	5.3	16.1	13.0
1998.....	546.1	510.2	S	3.9	14.3	15.4
1997.....	515.7	486.1	S	1.1	9.9	15.7
1996.....	436.2	408.1	2.4	S	7.9	17.5
1995.....	420.4	408.1	2.4	3.0	6.8	17.7
1994.....	376.7	368.4	S	S	7.4	18.9
1993.....	244.4	234.8	1.6	2.2	5.8	23.5
Pre-1993.....	1 549.9	1 395.0	79.9	22.3	52.7	8.2
VEHICLE ACQUISITION						
New.....	4 467.5	4 207.7	120.8	43.5	95.4	3.3
Used.....	1 561.6	1 454.4	43.6	15.3	48.3	8.3
Not reported.....	382.9	353.7	4.3	4.6	20.4	18.3
LEASE CHARACTERISTICS						
Leased.....	404.5	352.7	7.1	6.9	37.8	16.8
Lessee.....	289.4	270.4	2.6	2.6	13.9	20.9
Vehicle only.....	20.2	1.4	2.6	2.6	13.6	9.8
Vehicle with driver.....	S	V	V	V	S	S
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	269.0	269.0	V	V	V	22.5
Lessor.....	73.5	S	4.5	4.3	23.2	32.1
Vehicle only.....	29.1	S	4.5	4.0	19.9	7.8
Vehicle with driver.....	3.1	V	V	V	3.1	21.5
Not reported.....	S	V	V	S	S	S
Not applicable ⁴	S	S	V	V	V	S
Not reported.....	S	S	V	V	7	S
Not leased.....	3 375.8	3 172.7	101.9	25.5	75.8	4.6
Not reported.....	2 631.6	2 490.3	59.8	31.0	50.5	5.7

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	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
LEASE CHARACTERISTICS—Con.						
Length of leasing agreement:						
Leased	404.5	352.7	7.1	6.9	37.8	16.8
1 to 11 months	4.8	S	V	S	4.1	18.6
12 months or more	48.5	1.9	7.1	6.5	33.1	5.9
Not reported	.6	V	V	V	.6	49.7
Not applicable ⁴	350.6	350.6	V	V	V	19.4
Provisions of lease ⁵ :						
Financing only	30.8	1.6	4.5	4.0	20.7	7.8
Full maintenance	24.4	S	2.9	4.0	17.2	8.4
Payment of taxes	25.8	S	4.5	3.7	17.2	8.3
Obtaining licenses and permits	25.4	S	3.9	4.0	16.9	8.4
Recordkeeping	16.6	S	2.4	2.9	10.9	10.5
Fuel contract	6.6	S	1.0	1.6	3.7	17.4
PRIMARY OPERATOR CLASSIFICATION						
Private	1 019.1	832.3	64.2	32.9	89.6	10.1
Motor carrier	80.3	S	S	4.3	41.2	24.2
Owner operator	20.1	1.2	1.1	1.2	16.6	8.8
Rental	25.1	1.1	4.5	5.5	14.0	8.9
Personal transportation	5 136.8	5 044.0	77.0	S	S	2.4
Not applicable ²	130.6	122.1	2.2	4.0	2.3	32.4
For-hire characteristics:						
Type of carrier:						
Contract	47.1	S	S	2.4	27.8	29.3
Common	27.4	1.2	3.3	S	22.0	7.8
Not reported	12.2	S	1.1	2.0	8.1	12.5
Not applicable ⁶	6 325.2	6 013.1	147.9	57.9	106.3	1.2
Type of service:						
Truckload	43.2	S	2.0	S	39.5	5.4
Less-than truckload	31.0	S	S	2.6	10.2	44.3
Not reported	12.5	S	1.4	2.0	8.1	12.4
Not applicable ⁶	6 325.2	6 013.1	147.9	57.9	106.3	1.2
Source of hauls:						
Shippers or receivers	61.2	1.3	S	2.9	38.1	22.6
Brokers	4.4	V	V	V	4.4	18.5
Centralized markets or exchanges	2.8	S	V	S	2.2	26.1
Other	V	V	V	V	V	N
Not reported	18.4	S	2.0	2.3	13.0	9.9
Not applicable ⁶	6 325.2	6 013.1	147.9	57.9	106.3	1.2
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	24.3	S	1.2	3.7	18.7	8.5
Not carrying hazardous materials	206.7	26.7	45.4	28.6	105.9	6.9
Not reported	43.2	6.6	7.9	6.0	22.7	6.5
Not applicable ⁸	6 137.7	5 981.7	114.4	S	16.7	1.2
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	8.9	S	2.0	3.3	2.7	16.8
Air bag(s) (safety device only)	3 898.6	3 822.0	53.2	3.6	19.8	3.7
Air compressor (except air brakes)	29.1	S	2.2	4.6	21.5	7.8
Air-conditioning	5 654.3	5 387.5	104.7	39.7	122.5	2.0
Air springs	29.8	S	S	1.4	27.6	6.7
Antilock brake system	4 222.2	4 034.1	91.8	S	67.2	3.5
Collision warning system	2.3	V	1.2	V	1.2	29.1
Computerized drive train control unit	717.8	693.4	S	S	7.6	13.1
Crane	4.2	S	S	1.1	1.6	23.9
Electronic vehicle identification device	8.5	V	S	S	7.6	13.2
Engine retarder/brake	34.8	S	.9	S	32.6	5.9
Front-wheel drive	765.2	749.6	S	V	V	12.9
Hoist	13.4	2.0	3.0	2.4	5.9	13.1
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	7.7	S	S	1.1	5.8	15.6
Internet access	.9	V	V	V	.9	40.5
Lift gate	17.1	1.9	4.6	7.0	3.6	11.8
Mounting bar for snowplow	S	S	V	V	V	S
Navigational system	S	V	S	V	S	S
Power take-off	76.0	3.2	9.3	13.2	50.3	4.5
Radial tires	4 271.1	4 002.8	128.7	39.8	99.7	3.5
Reflective material in addition to those required by law	41.5	3.4	4.3	5.9	27.8	6.5
Road speed governor	113.4	2.7	S	12.4	75.2	12.4
Toolbox	835.5	723.2	61.9	12.8	37.7	11.7
Trip recorder or on-board computer with communication capabilities	233.1	201.8	S	S	13.4	23.5
Trip recorder or on-board computer without communication capabilities	1 153.5	1 113.9	S	1.3	6.5	10.1
Vehicle control aids for handicapped drivers						
Wheelchair lift	S	S	V	V	V	S
Winch	40.7	2.7	S	5.0	12.2	38.1
Transmission type:						
Automatic	4 848.5	4 729.8	79.0	S	14.7	2.7
Manual	1 353.9	1 116.0	82.9	31.5	123.5	8.5
Semiautomated manual	2.6	V	S	V	2.5	25.8
Automated manual	1.0	V	V	V	1.0	37.5
Not reported	205.9	170.0	6.8	6.9	22.3	23.9
Braking system:						
Hydraulic (standard)	61.3	14.1	21.7	15.4	10.1	5.5
Hydraulic with power assist	63.5	16.4	27.7	14.7	4.8	22.0
Air	143.6	S	3.7	11.4	127.5	2.3
Other	V	V	V	V	V	N
Not reported	41.5	5.3	7.9	6.6	21.7	6.7
Not applicable ¹⁰	6 102.0	5 979.0	107.7	S	V	1.2

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	
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	5 702.5	5 591.1	79.6	S	5.2	1.8
Diesel	574.1	302.0	85.7	30.8	155.7	12.2
Natural gas	V	V	V	V	V	N
Propane	3.9	S	1.3	2.0	S	26.6
Alcohol fuels	V	V	V	V	V	N
Electricity	V	V	V	V	V	N
Combination	S	S	V	V	S	S
Other	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not applicable ²	130.6	122.1	2.2	4.0	2.3	32.4
Cylinders ¹¹ :						
4 cylinders	672.0	665.4	4.3	1.4	.9	13.9
6 cylinders	2 732.3	2 537.2	S	24.7	141.7	5.2
8 cylinders	2 912.0	2 752.7	116.4	34.0	8.9	5.1
Other	95.6	60.4	S	3.2	12.5	35.0
Cubic inch displacement ¹¹ :						
Gasoline fuel	5 702.5	5 591.1	79.6	S	5.2	1.8
Less than 200	1 159.8	1 159.8	V	V	V	10.1
200 to 299	2 029.7	2 026.0	2.6	S	S	6.7
300 to 349	1 035.7	1 034.9	S	V	V	10.9
350 to 399	1 254.0	1 210.8	S	S	S	9.6
400 or more	122.8	66.4	S	2.6	2.3	32.3
Not available	100.4	93.2	4.0	2.0	1.2	37.1
Diesel fuel	574.1	302.0	85.7	30.8	155.7	12.2
Less than 400	147.3	112.6	S	6.8	3.6	29.1
400 to 599	301.5	189.4	60.4	21.3	30.5	19.1
600 to 799	63.8	V	S	1.2	62.5	3.9
800 or more	38.1	V	S	.6	37.4	5.3
Not available	23.4	V	S	1.0	21.7	7.8
Other fuel	4.7	S	1.3	2.0	S	24.1
Less than 400	2.7	S	1.3	S	S	31.7
400 or more	1.4	V	V	S	V	44.5
Not available	S	S	V	V	V	S
Not reported	V	V	V	V	V	N
Not applicable ²	130.6	122.1	2.2	4.0	2.3	32.4
REFUELING LOCATION						
Gas station	5 755.8	5 582.0	114.5	32.0	27.2	1.8
Truck stop	114.9	S	S	5.5	44.4	26.7
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	225.6	112.3	30.0	16.1	67.3	18.6
Other company's/contractor's facility not open to the public	11.1	1.2	V	2.9	7.0	13.2
Other	V	V	V	V	V	N
Not reported	173.9	151.3	4.0	2.9	15.8	26.7
Not applicable ²	130.6	122.1	2.2	4.0	2.3	32.4
MAINTENANCE⁵						
General maintenance performed by:						
None performed	134.9	133.2	S	S	S	32.6
Company-owned maintenance facility	650.7	471.7	65.2	18.7	95.1	12.7
General repair business or private mechanic	2 919.3	2 803.4	60.0	14.2	41.6	5.2
Dealership service department	1 634.1	1 588.7	S	5.0	20.2	7.8
Leasing company	7.1	V	S	1.9	5.0	16.4
Individual not employed/paid by any maintenance type facility	2 296.6	2 190.7	67.9	S	15.8	6.3
Other	V	V	V	V	V	N
Not reported	187.4	164.9	4.3	2.9	15.3	25.8
Not applicable ²	130.6	122.1	2.2	4.0	2.3	32.4
Extensive repairs performed by:						
None performed	4 977.1	4 712.9	122.1	45.4	96.7	2.7
Company-owned maintenance facility	128.5	106.0	3.7	3.2	15.6	30.5
General repair business or private mechanic	399.6	362.9	S	2.3	17.3	17.9
Dealership service department	300.4	269.2	S	1.6	12.4	20.6
Leasing company	S	S	S	S	S	S
Component distributorship (engine, transmission, body, etc.)	1.6	S	S	S	.9	34.9
Individual not employed/paid by any repair type facility	298.8	293.3	1.4	S	3.2	21.4
Other	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ²	130.6	122.1	2.2	4.0	2.3	32.4
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	6 114.1	5 922.2	88.9	44.6	58.4	1.4
2 axles	6 078.5	5 922.2	88.4	43.5	24.3	1.4
3 axles	34.4	V	S	.9	33.2	5.2
4 axles	.9	V	S	V	.7	40.4
5 axles or more	S	V	V	V	S	S
Not reported	S	V	V	S	V	S
Combinations	297.9	93.5	79.9	S	105.6	17.4
Single-unit trucks with trailer	196.9	93.5	79.9	S	5.2	26.4
3 axles	1.4	V	S	S	S	42.2
4 axles	190.9	93.5	79.2	S	1.2	27.2
5 axles or more	4.1	V	S	S	3.4	20.6
Not reported	S	V	V	V	S	S
Truck-tractors with single trailer	98.7	V	V	6	98.2	2.4
3 axles	5.1	V	V	S	4.9	20.9
4 axles	12.3	V	V	S	12.2	11.7
5 axles or more	70.3	V	V	S	70.2	3.1
Not reported	11.0	V	V	V	10.9	11.6
Truck-tractors with double trailers	2.1	V	V	V	2.1	26.4
5 axles	1.2	V	V	V	1.2	35.0
6 axles	.6	V	V	V	.6	49.8
7 axles	V	V	V	V	V	N
8 axles or more	S	V	V	V	S	S
Not reported	S	V	V	V	S	S
Truck-tractors with triple trailers	S	V	V	V	S	S
7 axles	V	V	V	V	V	N
8 axles	V	V	V	V	V	N
9 axles	V	V	V	V	V	N
10 axles or more	S	V	V	V	S	S
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	5 523.5	5 264.8	151.7	61.3	45.6	2.1
2	886.9	750.9	S	1.9	117.1	11.2
3 or more	S	V	V	V	S	S
Not reported	1.0	V	V	S	.9	37.5
Total liftable axles and locations ¹² :						
None	302.1	36.8	61.1	47.7	156.5	4.6
1	1.6	V	V	S	1.5	29.9
Forward of the drive axle .....	.9	V	V	S	.7	40.6
Below the chassis	S	V	V	V	S	S
Beyond the chassis	S	V	V	V	S	S
Not reported	S	V	V	V	S	S
2 or more	S	V	V	V	S	S
Forward of the drive axle	S	V	V	V	S	S
Below the chassis	V	V	V	V	V	N
Beyond the chassis	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Not reported	6.1	V	V	S	6.0	15.0
Not applicable ¹⁰	6 102.0	5 979.0	107.7	S	V	1.2
Total liftable axles and number of braking axles:						
None	302.1	36.8	61.1	47.7	156.5	4.6
1	1.6	V	V	S	1.5	29.9
0 braking	S	V	V	V	S	S
1 braking	1.3	V	V	S	1.2	33.1
Not reported	V	V	V	V	V	N
2 or more	S	V	V	V	S	S
0 braking	V	V	V	V	V	N
1 braking	V	V	V	V	V	N
2 or more braking	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Not reported	6.1	V	V	S	6.0	15.0
Not applicable ¹⁰	6 102.0	5 979.0	107.7	S	V	1.2
CAB TYPE						
Conventional cab	284.2	33.2	53.3	45.9	151.9	4.9
With sleeper	35.9	V	V	V	35.9	5.4
Without sleeper	237.3	33.2	53.3	45.7	105.1	5.9
Not reported	11.0	V	V	S	10.9	11.1
Cab over engine	24.3	2.9	7.8	2.2	11.4	7.4
With sleeper	4.3	V	V	S	4.1	18.2
Without sleeper	18.8	2.9	7.8	2.0	6.1	8.5
Not reported	1.2	V	V	V	1.2	39.2
Cab forward of engine	S	S	V	V	S	S
Cab beside engine	S	S	V	V	V	S
Not reported	S	S	V	V	S	S
Not applicable ¹⁰	6 102.0	5 979.0	107.7	S	V	1.2

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	6 412.0	6 114.1	297.9	196.9	98.7	2.1	S	X
Coefficient of variation (percent)	1.1	1.4	17.4	26.4	2.4	26.4	S	X
BUSINESS¹								
For-hire transportation or warehousing	78.6	43.5	35.1	S	33.1	1.5	S	26.3
Vehicle leasing or rental	23.3	13.5	9.7	V	9.7	V	V	9.2
Agriculture, forestry, fishing, or hunting	128.3	103.1	S	S	6.9	S	V	30.5
Mining	14.8	7.5	7.3	S	6.9	V	V	10.7
Utilities	45.7	S	S	S	1.0	V	V	47.6
Construction	256.3	226.7	S	S	9.7	S	V	21.1
Manufacturing	61.4	54.8	6.6	S	6.0	S	V	40.1
Wholesale trade	64.9	56.0	8.9	S	7.8	S	V	39.5
Retail trade	124.2	104.6	S	S	3.7	V	V	31.5
Information services	S	S	S	V	S	V	V	S
Waste management, landscaping, or administrative/support services	S	8.6	S	S	.7	V	V	S
Arts, entertainment, or recreation services	S	S	V	V	V	V	V	S
Accommodation or food services	S	S	2.2	V	2.2	V	V	S
Other services	208.4	207.5	.9	V	.9	V	V	25.5
Personal transportation	5 136.8	5 029.4	107.4	107.4	10.0	V	V	2.4
Not reported	35.6	S	10.3	S	10.0	V	V	38.7
Not applicable ²	130.6	130.6	V	V	V	V	V	32.4
BODY TYPE								
Single-unit trucks	6 308.7	6 111.8	196.9	196.9	N	N	N	1.1
Pickup	3 326.7	3 142.5	184.2	184.2	N	N	N	2.0
Minivan	693.8	693.8	V	V	N	N	N	12.3
Other light vans	299.3	299.3	V	V	N	N	N	20.3
Sport utility	1 782.2	1 782.2	V	V	N	N	N	5.5
Armored	S	S	V	V	N	N	N	S
Beverage	1.4	1.4	V	V	N	N	N	44.5
Concrete mixer	9.7	9.5	S	S	N	N	N	11.2
Concrete pumper	S	S	V	V	N	N	N	S
Crane .....	.9	.9	V	V	N	N	N	46.8
Curtainside	V	V	V	V	N	N	N	N
Dump	18.1	15.7	2.5	2.5	N	N	N	10.0
Flatbed, stake, or platform	58.1	51.2	6.9	6.9	N	N	N	5.7
Low boy	S	V	S	S	N	N	N	S
Pole, logging, pulpwood, or pipe .....	.9	S	S	S	N	N	N	46.8
Service, utility	13.4	12.7	S	S	N	N	N	13.6
Service, other	9.6	8.8	S	S	N	N	N	16.4
Street sweeper	V	V	V	V	N	N	N	N
Tank, dry bulk	S	S	V	V	N	N	N	S
Tank, liquids or gases	12.4	11.9	S	S	N	N	N	13.6
Tow/Wrecker	9.3	9.3	V	V	N	N	N	16.6
Trash, garbage, or recycling	4.8	4.8	V	V	N	N	N	18.4
Vacuum	1.6	1.4	S	S	N	N	N	32.5
Van, basic enclosed	25.0	25.0	V	V	N	N	N	9.5
Van, insulated nonrefrigerated	V	V	V	V	N	N	N	N
Van, insulated refrigerated	6.5	6.5	V	V	N	N	N	19.9
Van, open top	1.9	1.9	V	V	N	N	N	36.6
Van, step, walk-in, or multistop	28.3	27.8	S	S	N	N	N	48.6
Van, other	2.4	2.4	V	V	N	N	N	32.5
Other	S	S	V	V	N	N	N	S
Truck-tractors	103.3	2.3	101.0	N	98.7	2.1	S	2.3
Automobile carrier	1.2	N	1.2	N	1.2	V	V	35.0
Beverage	1.7	N	1.7	N	1.7	V	V	38.8
Curtainside	S	N	S	N	S	V	V	S
Dump	10.6	N	10.6	N	10.4	S	V	11.5
Flatbed, stake, or platform	17.5	N	17.5	N	17.5	V	V	9.0
Livestock .....	.9	N	.9	N	.9	V	V	46.7
Low boy	4.1	N	4.1	N	4.0	V	S	18.6
Mobile home toter	S	N	S	N	S	V	V	S
Open top	3.4	N	3.4	N	3.4	V	V	20.6
Pole, logging, pulpwood, or pipe	1.6	N	1.6	N	1.5	S	V	29.9
Tank, dry bulk	1.9	N	1.9	N	1.9	V	V	27.4
Tank, liquids or gases	9.5	N	9.5	N	9.5	V	V	12.2
Van, basic enclosed	34.6	N	34.6	N	33.2	1.3	V	5.8
Van, drop-frame	S	N	S	N	S	S	V	S
Van, insulated nonrefrigerated .....	.6	N	.6	N	S	S	V	49.8
Van, insulated refrigerated	12.5	N	12.5	N	12.3	S	V	10.7
Other	S	N	S	N	S	V	V	S
Not applicable ³	2.3	2.3	V	N	V	V	V	27.7
ANNUAL MILES								
Less than 5,000	749.8	696.1	53.8	S	5.6	S	V	12.8
5,000 to 9,999	861.5	824.1	S	S	5.1	S	V	12.0
10,000 to 19,999	3 179.3	3 105.2	74.1	63.8	9.8	S	V	4.8
20,000 to 29,999	1 003.8	958.9	44.9	S	11.6	V	S	10.8
30,000 to 49,999	350.0	317.3	32.6	S	15.1	S	V	18.7
50,000 to 74,999	97.4	79.2	18.3	1.3	16.6	S	V	32.8
75,000 or more	39.5	2.7	36.8	1.0	34.9	.9	V	5.4
Not applicable ²	130.6	130.6	V	V	V	V	V	32.4

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			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	60.6	S	S	S	3.1	V	V	42.3
50 miles or less	4 278.3	4 185.0	93.3	67.2	25.8	S	V	3.4
51 to 100 miles	655.2	636.5	18.6	2.3	16.1	S	V	13.8
101 to 200 miles	194.4	153.3	S	S	9.1	S	V	26.0
201 to 500 miles	100.3	59.0	S	S	9.1	.9	V	35.3
501 miles or more	88.5	56.1	32.4	S	15.9	S	S	35.1
Not reported	904.0	867.2	36.8	S	19.6	S	V	11.5
Not applicable ²	130.6	130.6	V	V	V	V	V	32.4
PRIMARY JURISDICTION								
Operated in Canada	V	V	V	V	V	V	V	N
Operated in Mexico	S	S	S	V	S	V	V	S
Operated within the home base state	5 584.0	5 336.5	247.5	179.8	66.1	1.6	V	2.1
Operated in states other than the home base state	76.7	S	31.7	S	15.3	S	V	38.9
Not reported	606.9	588.4	18.5	1.0	17.2	S	S	14.3
Not applicable ²	130.6	130.6	V	V	V	V	V	32.4
MONTHS OPERATED								
12	5 116.7	4 867.4	249.2	178.2	69.5	1.3	S	2.6
7 to 11	594.1	577.3	16.9	1.6	14.8	S	V	14.4
2 to 6	464.6	451.6	13.0	1.3	11.4	S	V	16.5
1 or less	106.0	87.2	S	S	2.9	V	V	34.6
Vehicle not used	130.6	130.6	V	V	V	V	V	32.4
VEHICLE SIZE								
Light	6 015.7	5 922.2	93.5	93.5	V	V	V	1.4
Medium	168.8	88.9	79.9	79.9	V	V	V	25.1
Light-heavy	63.4	44.6	S	S	.6	V	V	24.7
Heavy-heavy	164.0	58.4	105.6	5.2	98.2	2.1	S	1.9
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	4 663.5	4 647.8	S	S	V	V	V	2.9
6,001 to 8,500	1 159.8	1 097.9	62.0	62.0	V	V	V	10.1
8,501 to 10,000	192.4	176.5	S	S	V	V	V	26.3
10,001 to 14,000	83.3	51.1	S	S	V	V	V	36.7
14,001 to 16,000	S	13.4	S	S	V	V	V	S
16,001 to 19,500	55.9	S	S	S	V	V	V	45.8
19,501 to 26,000	63.4	44.6	S	S	.6	V	V	24.7
26,001 to 33,000	20.3	17.7	2.6	S	2.1	V	V	10.6
33,001 to 40,000	13.0	8.1	5.0	S	4.4	V	V	12.4
40,001 to 50,000	24.5	12.8	11.7	1.9	9.8	V	V	8.0
50,001 to 60,000	18.0	8.6	9.4	V	8.5	.9	V	9.1
60,001 to 80,000	84.1	11.3	72.8	2.1	70.2	.6	V	2.8
80,001 to 100,000	2.9	V	2.9	V	2.9	V	V	22.0
100,001 to 130,000	1.0	V	1.0	S	S	.6	V	37.5
130,001 or more	S	V	S	V	V	V	S	S
TOTAL LENGTH (FEET)								
Less than 20.0	5 105.5	5 105.5	V	V	V	V	V	2.5
20.0 to 27.9	508.4	476.7	S	S	S	V	V	15.2
28.0 to 35.9	417.7	414.1	3.6	2.9	S	V	V	17.4
36.0 to 40.9	162.6	112.4	S	S	2.8	V	V	28.8
41.0 to 44.9	53.6	3.0	S	S	2.3	V	V	49.5
45.0 to 49.9	54.7	2.0	S	S	5.4	V	V	48.5
50.0 to 54.9	33.6	S	33.3	S	16.2	V	V	46.0
55.0 to 59.9	17.2	V	17.2	S	16.9	V	V	9.1
60.0 to 64.9	25.9	V	25.9	S	25.4	V	V	6.9
65.0 to 69.9	15.6	V	15.6	1.0	14.6	V	V	9.3
70.0 to 74.9	10.1	V	10.1	S	8.2	1.3	V	11.8
75.0 to 79.9	6.3	V	6.3	V	6.0	S	V	14.7
80.0 or more .....	.9	V	.9	S	S	S	S	40.6
MILES PER GALLON								
Less than 5	28.7	15.7	12.9	S	12.5	V	S	7.5
5 to 6.9	98.4	43.5	54.9	4.2	49.1	1.6	V	14.2
7 to 8.9	43.1	29.6	13.5	1.9	11.2	S	V	6.7
9 to 10.9	205.0	202.5	2.5	1.3	1.2	V	V	24.5
11 to 12.9	480.4	416.4	64.0	63.1	.9	V	V	16.5
13 to 14.9	601.6	570.9	S	S	V	V	V	14.8
15 or more	3 913.7	3 836.1	77.6	77.6	V	V	V	3.8
15 to 20.9	3 249.5	3 171.9	77.6	77.6	V	V	V	4.7
21 to 24.9	401.9	401.9	V	V	V	V	V	18.4
25 or more	262.3	262.3	V	V	V	V	V	23.2
Not reported	910.5	868.7	41.8	S	24.0	V	V	11.4
Not applicable ²	130.6	130.6	V	V	V	V	V	32.4

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	2.2	V	2.2	V	2.2	V	V	25.5
2002	S	S	4.1	V	4.0	V	S	S
2001	558.8	517.2	S	S	10.7	S	V	15.3
2000	1 001.9	983.7	18.2	1.3	16.5	S	V	10.8
1999	711.4	683.4	S	S	10.0	S	V	13.0
1998	546.1	505.8	S	S	8.5	S	V	15.4
1997	515.7	479.7	S	S	4.9	V	V	15.7
1996	436.2	415.7	S	S	4.7	V	V	17.5
1995	420.4	415.3	5.1	1.2	4.0	V	V	17.7
1994	376.7	372.2	4.5	V	4.5	V	V	18.9
1993	244.4	241.3	3.1	S	2.4	V	V	23.5
Pre-1993	1 549.9	1 455.7	94.2	67.0	26.4	.7	V	8.2
VEHICLE ACQUISITION								
New	4 467.5	4 247.7	219.8	160.3	57.9	1.5	S	3.3
Used	1 561.6	1 497.7	63.8	S	27.5	S	V	8.3
Not reported	382.9	368.7	14.3	S	13.4	S	V	18.3
LEASE CHARACTERISTICS								
Leased	404.5	374.2	30.3	1.7	27.8	.6	S	16.8
Lessee	289.4	279.6	9.8	S	9.0	V	S	20.9
Vehicle only	20.2	10.5	9.7	S	8.8	V	S	9.8
Vehicle with driver	S	S	S	V	S	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	269.0	269.0	V	V	V	V	V	22.5
Lessor	73.5	53.8	19.7	1.0	18.1	.6	V	32.1
Vehicle only	29.1	12.4	16.7	S	15.6	.6	V	7.8
Vehicle with driver	S	S	2.8	S	2.4	V	V	21.5
Not reported	S	S	S	S	S	V	V	S
Not applicable ⁴	S	S	V	V	V	V	V	S
Not reported	S	S	.7	V	.7	V	V	S
Not leased	3 375.8	3 232.2	143.7	98.0	44.5	1.2	V	4.6
Not reported	2 631.6	2 507.7	123.9	97.1	26.5	S	V	5.7
Length of leasing agreement:								
Leased	404.5	374.2	30.3	1.7	27.8	.6	S	16.8
1 to 11 months	4.8	1.9	3.0	V	3.0	V	V	18.6
12 months or more	48.5	21.7	26.7	1.7	24.2	.6	S	5.9
Not reported	.6	V	.6	V	.6	V	V	49.7
Not applicable ⁴	350.6	350.6	V	V	V	V	V	19.4
Provisions of lease ⁵ :								
Financing only	30.8	15.8	15.0	1.0	13.8	V	S	7.8
Full maintenance	24.4	9.1	15.3	S	14.6	.6	V	8.4
Payment of taxes	25.8	10.5	15.3	S	14.3	.6	V	8.3
Obtaining licenses and permits	25.4	9.8	15.6	S	14.4	.6	V	8.4
Recordkeeping	16.6	6.6	10.0	S	9.0	.6	V	10.5
Fuel contract	6.6	3.5	3.1	S	2.8	V	V	17.4
PRIMARY OPERATOR CLASSIFICATION								
Private	1 019.1	887.9	131.2	87.6	43.2	S	V	10.1
Motor carrier	80.3	44.6	35.7	S	33.8	1.3	S	24.2
Owner operator	20.1	6.5	13.6	1.2	12.1	S	V	8.8
Rental	25.1	15.1	10.0	S	9.7	V	V	8.9
Personal transportation	5 136.8	5 029.4	107.4	107.4	V	V	V	2.4
Not applicable ²	130.6	130.6	V	V	V	V	V	32.4
For-hire characteristics:								
Type of carrier:								
Contract	47.1	S	25.3	1.0	23.5	.6	S	29.3
Common	27.4	10.1	17.3	S	15.7	1.0	V	7.8
Not reported	12.2	5.6	6.6	V	6.6	V	V	12.5
Not applicable ⁶	6 325.2	6 076.6	248.6	195.3	52.9	S	V	1.2
Type of service:								
Truckload	43.2	10.1	33.1	1.3	31.5	S	S	5.4
Less-than truckload	31.0	S	9.2	S	7.6	1.3	V	44.3
Not reported	12.5	5.6	6.9	V	6.8	S	V	12.4
Not applicable ⁶	6 325.2	6 076.6	248.6	195.3	52.9	S	V	1.2
Source of hauls:								
Shippers or receivers	61.2	28.0	33.2	.9	30.9	1.3	S	22.6
Brokers	4.4	V	4.4	V	4.4	V	V	18.5
Centralized markets or exchanges	2.8	1.0	1.8	S	1.6	V	V	26.1
Other	V	V	V	V	V	V	V	N
Not reported	18.4	8.5	9.9	.6	9.0	S	V	9.9
Not applicable ⁶	6 325.2	6 076.6	248.6	195.3	52.9	S	V	1.2
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	24.3	9.5	14.8	S	13.7	.6	V	8.5
Not carrying hazardous materials	206.7	135.3	71.4	9.7	60.2	1.3	S	6.9
Not reported	43.2	25.8	17.4	2.2	15.1	S	V	6.5
Not applicable ⁸	6 137.7	5 943.5	194.2	184.5	9.7	V	V	1.2
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	8.9	8.5	S	S	V	V	V	16.8
Air bag(s) (safety device only)	3 898.6	3 802.5	96.1	79.2	16.5	S	V	3.7
Air compressor (except air brakes)	29.1	15.7	13.4	.9	12.2	S	V	7.8
Air-conditioning	5 654.3	5 393.2	261.1	176.8	82.5	1.6	S	2.0
Air springs	29.8	3.8	26.0	S	25.7	S	V	6.7

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		
EQUIPMENT TYPE^{5 9}—Con.								
Antilock brake system	4 222.2	4 013.2	209.0	157.0	50.6	1.3	S	3.5
Collision warning system	2.3	1.3	1.0	S	.9	V	V	29.1
Computerized drive train control unit	717.8	696.1	S	S	5.7	S	S	13.1
Crane	4.2	4.0	S	V	S	V	V	23.9
Electronic vehicle identification device	8.5	1.9	6.6	S	6.3	V	V	13.2
Engine retarder/brake	34.8	4.6	30.1	S	29.0	S	S	5.9
Front-wheel drive	765.2	749.9	S	S	V	V	V	12.9
Hoist	13.4	12.5	S	S	V	V	V	13.1
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	7.7	2.9	4.8	S	4.5	V	V	15.6
Internet access	.9	V	.9	V	.9	V	V	40.5
Lift gate	17.1	16.7	S	S	V	V	V	11.8
Mounting bar for snowplow	S	S	V	V	V	V	V	S
Navigational system	S	S	S	S	S	V	V	S
Power take-off	76.0	49.9	26.1	3.3	22.8	V	V	4.5
Radial tires	4 271.1	4 072.8	198.2	130.0	66.3	1.8	S	3.5
Reflective material in addition to those required by law	41.5	26.4	15.1	1.7	13.2	S	V	6.5
Road speed governor	113.4	56.8	56.5	3.0	52.0	1.3	S	12.4
Toolbox	835.5	746.9	88.6	68.0	20.3	S	S	11.7
Trip recorder or on-board computer with communication capabilities	233.1	220.9	12.2	S	11.8	V	V	23.5
Trip recorder or on-board computer without communication capabilities	1 153.5	1 117.1	S	S	5.0	S	S	10.1
Vehicle control aids for handicapped drivers	S	S	V	V	V	V	V	S
Wheelchair lift	S	S	V	V	V	V	V	S
Winch	40.7	17.9	S	S	5.4	V	V	38.1
Transmission type:								
Automatic	4 848.5	4 751.2	97.3	94.3	2.9	S	V	2.7
Manual	1 353.9	1 171.5	182.5	101.6	78.8	1.9	S	8.5
Semiautomated manual	2.6	.6	2.0	V	2.0	V	V	25.8
Automated manual	1.0	S	.9	V	.9	V	V	37.5
Not reported	205.9	190.7	15.1	1.0	14.1	V	V	23.9
Braking system:								
Hydraulic (standard)	61.3	55.6	5.7	3.5	1.9	S	V	5.5
Hydraulic with power assist	63.5	57.7	5.8	4.0	1.7	V	V	22.0
Air	143.6	56.2	87.4	4.2	81.2	1.8	S	2.3
Other	V	V	V	V	V	V	V	N
Not reported	41.5	26.7	14.9	1.0	13.8	V	V	6.7
Not applicable ¹⁰	6 102.0	5 917.8	184.2	184.2	V	V	V	1.2
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	5 702.5	5 606.8	95.7	95.5	S	V	V	1.8
Diesel	574.1	372.2	201.9	101.1	98.6	2.1	S	12.2
Natural gas	V	V	V	V	V	V	V	N
Propane	3.9	3.6	S	S	V	V	V	26.6
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	S	S	V	V	V	V	V	S
Other	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	130.6	130.6	V	V	V	V	V	32.4
Cylinders¹¹:								
4 cylinders	672.0	671.8	S	S	S	V	V	13.9
6 cylinders	2 732.3	2 586.8	145.5	S	92.2	1.8	S	5.2
8 cylinders	2 912.0	2 766.8	145.2	144.2	1.0	V	V	5.1
Other	95.6	88.7	6.9	1.2	5.4	S	V	35.0
Cubic inch displacement¹¹:								
Gasoline fuel								
Less than 200	5 702.5	5 606.8	95.7	95.5	S	V	V	1.8
200 to 299	1 159.8	1 159.8	V	V	V	V	V	10.1
300 to 349	2 029.7	2 014.4	S	S	V	V	V	6.7
350 to 399	1 035.7	1 035.7	V	V	V	V	V	10.9
400 or more	1 254.0	1 206.8	S	S	V	V	V	9.6
Not available	122.8	90.1	S	S	V	V	V	32.3
Diesel fuel								
Less than 400	100.4	100.0	S	S	S	V	V	37.1
400 to 599	574.1	372.2	201.9	101.1	98.6	2.1	S	12.2
600 to 799	147.3	114.7	S	S	S	V	V	29.1
800 or more	301.5	225.9	75.6	65.1	10.2	S	V	19.1
Not available	63.8	19.6	44.2	2.2	41.0	1.0	V	3.9
Other fuel	38.1	5.0	33.1	.9	31.8	S	S	5.3
Not available	23.4	7.1	16.3	.9	15.0	S	V	7.8
Other fuel								
Less than 400	4.7	4.5	S	S	V	V	V	24.1
400 or more	2.7	2.4	S	S	V	V	V	31.7
Not available	1.4	1.4	V	V	V	V	V	44.5
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	V	V	V	V	V	V	V	N
Not applicable ²	130.6	130.6	V	V	V	V	V	32.4
REFUELING LOCATION								
Gas station	5 755.8	5 599.6	156.2	145.1	10.9	S	V	1.8
Truck stop	114.9	45.8	69.0	S	35.7	S	V	26.7
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	225.6	167.8	57.9	S	37.9	1.6	S	18.6
Other company's/contractor's facility not open to the public	11.1	5.2	5.9	V	5.9	V	V	13.2
Other	V	V	V	V	V	V	V	N
Not reported	173.9	165.1	8.8	S	8.4	V	V	26.7
Not applicable ²	130.6	130.6	V	V	V	V	V	32.4

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			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	134.9	134.6	S	V	S	V	V	32.6
Company-owned maintenance facility	650.7	538.9	111.8	S	59.5	1.2	S	12.7
General repair business or private mechanic	2 919.3	2 828.7	90.6	65.4	23.5	1.6	V	5.2
Dealership service department	1 634.1	1 588.7	45.4	S	13.4	S	V	7.8
Leasing company	7.1	2.9	4.3	V	4.3	V	V	16.4
Individual not employed/paid by any maintenance type facility	2 296.6	2 190.3	106.3	96.1	10.0	S	V	6.3
Other	V	V	V	V	V	V	V	N
Not reported	187.4	178.3	9.1	S	8.7	V	V	25.8
Not applicable ²	130.6	130.6	V	V	V	V	V	32.4
Extensive repairs performed by:								
None performed	4 977.1	4 754.3	222.9	160.9	59.8	2.1	S	2.7
Company-owned maintenance facility	128.5	119.1	9.4	1.3	8.1	V	V	30.5
General repair business or private mechanic	399.6	373.0	S	S	9.5	V	V	17.9
Dealership service department	300.4	276.3	S	S	7.8	V	V	20.6
Leasing company	S	S	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)	1.6	1.2	S	V	S	V	V	34.9
Individual not employed/paid by any repair type facility	298.8	295.6	3.2	S	2.2	V	V	21.4
Other	V	V	V	V	V	V	V	N
Not reported	S	V	S	V	S	V	V	S
Not applicable ²	130.6	130.6	V	V	V	V	V	32.4
AXLE ARRANGEMENT								
Driving axles:								
1	5 523.5	5 325.5	198.1	177.5	19.4	1.2	V	2.1
2	886.9	788.2	98.8	S	78.4	.9	S	11.2
3 or more	S	S	S	V	S	V	V	S
Not reported	1.0	S	.9	S	.7	V	V	37.5
Total liftable axles and locations ¹² :								
None	302.1	190.3	111.8	12.0	97.6	2.1	S	4.6
1	1.6	1.2	S	S	S	V	V	29.9
Forward of the drive axle	.9	.6	S	S	S	V	V	40.6
Below the chassis	S	V	S	V	S	V	V	S
Beyond the chassis	S	S	V	V	V	V	V	S
Not reported	S	S	V	V	V	V	V	S
2 or more	S	S	V	V	V	V	V	S
Forward of the drive axle	S	S	V	V	V	V	V	S
Below the chassis	V	V	V	V	V	V	V	N
Beyond the chassis	S	S	V	V	V	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not reported	6.1	4.6	1.5	.6	.9	V	V	15.0
Not applicable ¹⁰	6 102.0	5 917.8	184.2	184.2	V	V	V	1.2
Total liftable axles and number of braking axles:								
None	302.1	190.3	111.8	12.0	97.6	2.1	S	4.6
1	1.6	1.2	S	S	S	V	V	29.9
0 braking	S	S	S	V	S	V	V	S
1 braking	1.3	1.0	S	S	S	V	V	33.1
Not reported	V	V	V	V	V	V	V	N
2 or more	S	S	V	V	V	V	V	S
0 braking	V	V	V	V	V	V	V	N
1 braking	V	V	V	V	V	V	V	N
2 or more braking	S	S	V	V	V	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not reported	6.1	4.6	1.5	.6	.9	V	V	15.0
Not applicable ¹⁰	6 102.0	5 917.8	184.2	184.2	V	V	V	1.2
CAB TYPE								
Conventional cab	284.2	179.5	104.7	12.3	90.4	1.9	S	4.9
With sleeper	35.9	S	35.6	V	35.2	S	V	5.4
Without sleeper	237.3	178.9	58.4	12.3	44.6	1.8	S	5.9
Not reported	11.0	S	10.8	V	10.6	S	V	11.1
Cab over engine	24.3	15.8	8.5	S	8.1	S	V	7.4
With sleeper	4.3	V	4.3	V	4.1	S	V	18.2
Without sleeper	18.8	15.6	3.2	S	2.9	V	V	8.5
Not reported	1.2	S	1.0	V	1.0	V	V	39.2
Cab forward of engine	S	S	S	S	V	V	V	S
Cab beside engine	S	S	V	V	V	V	V	S
Not reported	S	S	S	V	S	V	V	S
Not applicable ¹⁰	6 102.0	5 917.8	184.2	184.2	V	V	V	1.2

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	96 175.8	85 017.8	2 601.8	940.0	7 616.1	X
Coefficient of variation (percent)	3.1	3.6	26.5	11.2	3.0	X
BUSINESS¹						
For-hire transportation or warehousing	3 861.5	S	S	142.3	2 748.5	15.1
Vehicle leasing or rental	1 122.9	S	116.1	136.1	838.5	10.6
Agriculture, forestry, fishing, or hunting	1 958.6	1 539.1	47.7	47.2	324.5	36.6
Mining	456.6	S	S	S	413.4	14.1
Utilities	658.3	S	S	63.0	127.1	49.4
Construction	5 107.9	4 094.9	96.6	115.1	801.3	23.4
Manufacturing	1 245.1	S	35.3	14.8	507.6	34.9
Wholesale trade	2 122.7	S	48.0	122.8	470.8	40.2
Retail trade	1 984.0	1 572.9	95.2	101.3	214.6	31.9
Information services	S	S	S	V	S	S
Waste management, landscaping, or administrative/support services	S	S	28.4	S	214.9	S
Arts, entertainment, or recreation services	S	S	S	V	V	S
Accommodation or food services	846.4	S	S	S	180.2	45.4
Other services	4 611.1	4 501.4	38.8	S	S	28.8
Personal transportation	69 205.6	68 370.1	S	S	S	4.2
Not reported	S	S	62.7	78.4	706.0	S
Not applicable ²	S	S	V	S	V	S
BODY TYPE						
Single-unit trucks	90 025.1	85 017.8	2 601.8	934.1	1 471.3	3.4
Pickup	43 031.0	41 542.9	1 426.7	S	V	5.4
Minivan	11 239.8	11 239.8	V	V	V	16.4
Other light vans	5 704.9	5 704.9	V	V	V	23.7
Sport utility	26 010.1	26 010.1	V	V	V	7.2
Armored	S	V	V	S	S	S
Beverage	23.4	V	V	S	S	44.9
Concrete mixer	210.6	V	V	V	210.6	13.7
Concrete pumper	S	V	V	V	S	S
Crane	S	V	V	S	S	S
Curtainside	V	V	V	V	V	N
Dump	308.2	S	2.4	22.7	273.7	14.7
Flatbed, stake, or platform	1 060.2	186.3	307.3	215.0	351.6	10.8
Low boy	S	V	V	V	S	S
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Service, utility	179.2	48.1	38.5	36.5	56.1	18.2
Service, other	174.4	51.0	66.6	48.4	S	21.7
Street sweeper	V	V	V	V	V	N
Tank, dry bulk	S	V	V	S	S	S
Tank, liquids or gases	177.9	V	10.3	45.3	122.3	17.8
Tow/Wrecker	192.1	4.8	44.2	99.4	S	26.0
Trash, garbage, or recycling	168.1	V	S	V	166.7	20.6
Vacuum	17.1	V	S	V	12.1	42.5
Van, basic enclosed	599.4	80.0	193.0	266.6	59.7	11.8
Van, insulated nonrefrigerated	V	V	V	V	V	N
Van, insulated refrigerated	161.2	V	36.3	64.5	60.4	21.8
Van, open top	S	V	S	V	S	S
Van, step, walk-in, or multistop	S	115.7	S	36.6	S	S
Van, other	31.3	24.8	S	S	V	39.8
Other	S	V	V	V	S	S
Truck-tractors	6 150.8	V	V	S	6 144.8	3.5
Automobile carrier	136.2	V	V	V	136.2	38.9
Beverage	22.2	V	V	S	20.0	43.6
Curtainside	S	V	V	V	S	S
Dump	593.8	V	V	V	593.8	14.1
Flatbed, stake, or platform	766.5	V	V	S	765.7	12.8
Livestock	S	V	V	V	S	S
Low boy	161.9	V	V	V	161.9	23.6
Mobile home toter	S	V	V	V	S	S
Open top	218.9	V	V	V	218.9	28.1
Pole, logging, pulpwood, or pipe	69.4	V	V	V	69.4	37.2
Tank, dry bulk	146.9	V	V	V	146.9	35.3
Tank, liquids or gases	552.6	V	V	V	552.6	14.4
Van, basic enclosed	2 254.9	V	V	S	2 252.0	7.1
Van, drop-frame	S	V	V	V	S	S
Van, insulated nonrefrigerated	S	V	V	V	S	S
Van, insulated refrigerated	1 113.3	V	V	V	1 113.3	11.7
Other	S	V	V	V	S	S
Not applicable ³	V	V	V	V	V	N
ANNUAL MILES						
Less than 5,000	1 394.7	1 267.1	20.0	S	33.6	16.1
5,000 to 9,999	5 998.9	5 697.8	S	34.4	84.0	12.3
10,000 to 19,999	43 539.8	42 312.6	751.8	152.0	323.4	5.0
20,000 to 29,999	22 532.1	20 470.2	1 223.4	225.0	613.4	10.9
30,000 to 49,999	12 380.0	10 895.0	271.6	256.3	957.2	18.7
50,000 to 74,999	5 863.9	4 288.4	100.6	122.0	1 352.9	32.7
75,000 or more	4 387.9	S	S	S	4 251.7	5.8
Not applicable ²	S	S	V	S	V	S
PRIMARY RANGE OF OPERATION						
Off-the-road	589.5	S	S	14.2	201.2	41.0
50 miles or less	59 511.8	56 392.6	1 092.7	401.2	1 625.3	4.9
51 to 100 miles	12 198.5	10 368.9	S	113.8	1 217.8	14.8
101 to 200 miles	5 081.1	4 143.8	S	80.2	655.0	29.0
201 to 500 miles	2 926.4	S	S	S	894.7	34.1
501 miles or more	2 465.6	S	S	S	1 550.9	18.6
Not reported	13 324.4	11 182.2	S	185.7	1 471.2	12.4
Not applicable ²	S	S	V	S	V	S

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
PRIMARY JURISDICTION						
Operated in Canada	V	V	V	V	N	
Operated in Mexico	S	S	V	V	S	
Operated within the home base state	85 061.6	77 412.8	2 124.7	746.1	4 778.1	3.7
Operated in states other than the home base state	2 283.9	S	S	S	1 542.4	17.9
Not reported	8 409.0	6 473.9	S	167.9	1 293.0	14.8
Not applicable ²	S	S	V	S	V	S
MONTHS OPERATED						
12	81 719.1	72 342.6	2 495.9	794.5	6 086.2	4.0
7 to 11	8 955.1	7 728.7	59.2	91.9	1 075.3	14.8
2 to 6	4 949.6	4 466.0	39.8	46.8	397.0	20.1
1 or less	S	S	S	S	57.6	S
Vehicle not used	S	S	V	S	V	S
AVERAGE WEIGHT (POUNDS)						
Less than 6,001	63 821.6	63 821.6	N	N	N	4.7
6,001 to 8,500	17 581.4	17 581.4	N	N	N	12.4
8,501 to 10,000	3 614.8	3 614.8	N	N	N	32.6
10,001 to 14,000	1 418.6	N	1 418.6	N	N	39.6
14,001 to 16,000	411.3	N	411.3	N	N	39.2
16,001 to 19,500	771.9	N	771.9	N	N	48.0
19,501 to 26,000	940.0	N	N	940.0	N	11.2
26,001 to 33,000	488.1	N	N	N	488.1	13.9
33,001 to 40,000	345.8	N	N	N	345.8	25.3
40,001 to 50,000	578.6	N	N	N	578.6	10.5
50,001 to 60,000	556.3	N	N	N	556.3	15.5
60,001 to 80,000	5 371.1	N	N	N	5 371.1	4.0
80,001 to 100,000	190.3	N	N	N	190.3	26.3
100,001 to 130,000	81.8	N	N	N	81.8	47.8
130,001 or more	S	N	N	N	S	S
TOTAL LENGTH (FEET)						
Less than 20.0	69 542.5	68 513.8	S	155.0	228.4	4.4
20.0 to 27.9	8 327.7	6 776.1	707.3	274.6	569.7	16.8
28.0 to 35.9	7 554.4	6 753.0	113.4	323.5	364.5	19.4
36.0 to 40.9	3 339.7	2 755.7	S	76.1	163.4	34.3
41.0 to 44.9	654.3	S	S	S	138.5	50.0
45.0 to 49.9	738.4	S	S	S	302.6	35.5
50.0 to 54.9	1 102.1	V	S	S	944.5	16.5
55.0 to 59.9	914.2	V	V	V	914.2	11.5
60.0 to 64.9	1 499.7	V	V	S	1 496.1	9.4
65.0 to 69.9	1 027.1	V	S	V	1 024.3	11.5
70.0 to 74.9	785.0	V	V	S	779.2	14.3
75.0 to 79.9	622.8	V	V	V	622.8	15.8
80.0 or more	S	V	V	V	S	S
MILES PER GALLON						
Less than 5	837.7	S	16.0	27.4	794.0	10.6
5 to 6.9	4 623.7	S	79.4	140.3	4 034.1	8.4
7 to 8.9	977.6	74.9	126.2	144.6	631.9	9.5
9 to 10.9	2 629.2	1 474.4	S	144.4	210.5	30.5
11 to 12.9	7 273.5	6 508.7	S	114.9	56.2	21.5
13 to 14.9	8 677.8	8 428.4	S	S	S	17.1
15 or more	56 599.8	56 054.9	S	16.3	S	5.4
15 to 20.9	46 358.7	45 813.8	S	16.3	S	6.3
21 to 24.9	6 700.3	6 700.3	V	V	V	21.4
25 or more	3 540.7	3 540.7	V	V	V	25.9
Not reported	14 477.9	12 031.9	252.6	333.8	1 859.7	12.7
Not applicable ²	S	S	V	S	V	S
MODEL YEAR						
2003	160.1	V	V	V	160.1	26.9
2002	1 009.8	S	S	S	353.0	37.1
2001	9 997.2	8 851.8	S	89.2	901.4	15.6
2000	17 859.2	15 886.7	140.8	143.7	1 688.0	11.4
1999	12 810.1	11 060.6	S	157.7	1 052.0	13.7
1998	9 366.1	8 289.1	S	79.9	799.2	17.6
1997	9 255.6	8 406.5	S	S	447.6	18.6
1996	7 267.5	6 774.0	47.0	S	334.7	20.8
1995	5 661.6	5 295.5	32.8	67.0	266.3	20.2
1994	4 259.5	4 001.1	S	S	239.6	22.4
1993	2 798.2	2 463.7	28.7	42.6	263.1	24.6
Pre-1993	15 730.9	13 355.6	1 060.5	203.6	1 111.2	11.7
VEHICLE ACQUISITION						
New	72 218.7	64 070.0	2 200.2	682.6	5 265.8	4.7
Used	17 665.5	15 755.1	S	150.1	1 427.5	10.1
Not reported	6 291.6	5 192.7	68.8	107.3	922.8	17.4
LEASE CHARACTERISTICS						
Leased	9 704.9	6 792.1	163.3	202.0	2 547.4	15.5
Lessee	6 603.4	5 625.8	55.0	71.9	850.7	21.5
Vehicle only	1 001.6	S	55.0	71.9	843.0	11.6
Vehicle with driver	S	S	V	V	S	S
Not reported	V	V	V	V	V	N
Not applicable ⁴	5 594.2	5 594.2	V	V	V	25.3
Lessor	2 683.1	S	108.3	130.1	1 626.1	18.3
Vehicle only	1 653.4	S	108.3	125.5	1 398.8	8.6
Vehicle with driver	213.1	V	V	V	213.1	24.7
Not reported	S	V	V	V	S	S
Not applicable ⁴	S	S	V	V	V	S
Not reported	S	S	V	V	V	S
Not leased	48 281.9	43 011.8	1 668.0	405.2	3 197.0	6.0
Not reported	38 189.0	35 213.9	770.5	332.9	1 871.7	7.4

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	9 704.9	6 792.1	163.3	202.0	2 547.4	15.5
1 to 11 months	255.4	S	V	S	250.3	22.5
12 months or more	2 656.1	52.4	163.3	199.1	2 241.3	6.7
Not reported	S	V	V	V	S	S
Not applicable ⁴	6 737.6	6 737.6	V	V	V	22.2
Provisions of lease ⁵ :						
Financing only	1 666.5	38.0	114.4	112.8	1 401.3	8.7
Full maintenance	1 430.1	S	74.2	128.2	1 213.3	9.4
Payment of taxes	1 426.6	S	102.7	124.4	1 195.1	9.4
Obtaining licenses and permits	1 429.8	S	84.1	125.5	1 203.7	9.4
Recordkeeping	965.1	S	58.4	73.6	816.6	11.6
Fuel contract	335.8	S	27.6	44.7	249.2	18.6
PRIMARY OPERATOR CLASSIFICATION						
Private	20 577.9	15 849.4	1 189.6	543.7	2 995.2	11.5
Motor carrier	4 053.2	S	S	141.6	2 764.7	18.6
Owner operator	1 096.1	S	S	S	990.9	10.8
Rental	1 164.6	S	116.1	152.1	864.2	10.3
Personal transportation	69 205.6	68 370.1	S	S	S	4.2
Not applicable ²	S	S	V	S	V	S
For-hire characteristics:						
Type of carrier:						
Contract	2 541.3	S	S	79.8	2 033.6	14.5
Common	1 427.5	S	71.2	S	1 289.2	10.9
Not reported	529.1	S	S	52.7	432.7	14.1
Not applicable ⁶	91 677.9	84 977.4	2 076.7	763.2	3 860.6	3.3
Type of service:						
Truckload	2 906.5	S	S	S	2 807.7	6.8
Less-than truckload	1 055.0	S	S	87.7	509.4	32.4
Not reported	536.4	S	S	52.7	438.5	14.0
Not applicable ⁶	91 677.9	84 977.4	2 076.7	763.2	3 860.6	3.3
Source of hauls:						
Shippers or receivers	3 119.1	S	S	87.9	2 532.4	12.1
Brokers	418.4	V	V	418.4	418.4	20.4
Centralized markets or exchanges	141.1	S	V	S	113.8	32.3
Other	V	V	V	V	V	N
Not reported	819.3	S	53.7	65.9	690.9	13.6
Not applicable ⁶	91 677.9	84 977.4	2 076.7	763.2	3 860.6	3.3
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	1 100.9	S	12.9	91.3	977.1	10.5
Not carrying hazardous materials	6 540.0	351.3	916.6	515.5	4 756.6	6.2
Not reported	1 373.9	113.6	129.5	113.8	1 017.0	8.1
Not applicable ⁸	87 161.1	84 533.4	1 542.8	219.5	865.3	3.5
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	105.7	S	26.6	30.8	32.5	22.1
Air bag(s) (safety device only)	62 709.8	60 581.6	716.1	134.0	1 278.1	5.2
Air compressor (except air brakes)	1 195.2	S	36.5	110.0	1 043.9	10.0
Air-conditioning	87 811.2	79 219.4	1 365.4	663.2	6 563.2	3.6
Air springs	2 138.7	S	S	55.5	2 075.9	8.1
Antilock brake system	67 529.0	61 155.6	1 402.4	455.8	4 515.4	4.8
Collision warning system	82.4	V	S	V	52.5	34.3
Computerized drive train control unit	13 950.7	13 291.4	S	S	537.1	16.4
Crane	68.9	S	S	S	30.5	29.1
Electronic vehicle identification device	678.5	V	S	S	666.1	14.8
Engine retarder/brake	2 411.4	S	13.8	S	2 380.9	7.4
Front-wheel drive	11 425.5	11 115.5	S	V	V	15.7
Hoist	173.5	S	S	32.8	101.7	20.4
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	401.9	S	S	S	326.0	18.7
Internet access	85.4	V	V	V	85.4	44.1
Lift gate	426.1	14.4	104.9	192.1	114.7	14.7
Mounting bar for snowplow	S	S	V	V	V	S
Navigational system	S	V	S	V	S	S
Power take-off	2 349.1	38.8	80.5	199.8	2 030.0	7.1
Radial tires	66 008.8	58 523.9	2 055.0	558.1	4 871.8	4.8
Reflective material in addition to those required by law	1 522.8	45.9	63.6	120.4	1 292.8	8.6
Road speed governor	5 264.0	49.6	S	296.8	4 355.6	7.5
Toolbox	14 712.1	11 771.8	1 040.5	245.7	1 654.0	13.4
Trip recorder or on-board computer with communication capabilities	4 660.9	3 147.5	S	S	1 069.9	20.6
Trip recorder or on-board computer without communication capabilities	16 689.2	15 828.8	S	S	536.2	12.2
Vehicle control aids for handicapped drivers	S	S	V	V	V	S
Wheelchair lift	S	S	V	V	V	S
Winch	856.6	S	S	134.4	319.3	36.8
Transmission type:						
Automatic	71 132.2	69 205.2	1 184.9	260.8	481.4	4.4
Manual	21 226.2	13 539.3	1 262.4	539.3	5 885.2	8.7
Semiautomated manual	88.2	V	S	V	84.6	30.7
Automated manual	119.6	V	V	V	119.6	40.0
Not reported	3 609.6	2 273.3	150.9	140.0	1 045.4	19.4
Braking system:						
Hydraulic (standard)	1 091.0	154.1	364.5	267.9	304.5	10.5
Hydraulic with power assist	1 218.2	220.4	S	249.2	175.8	27.7
Air	6 404.6	S	59.2	213.6	6 109.5	3.6
Other	V	V	V	V	V	N
Not reported	1 476.1	123.3	178.4	148.0	1 026.4	7.5
Not applicable ¹⁰	85 985.9	84 497.8	1 426.7	S	V	3.5

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	81 310.3	80 019.9	1 041.1	180.7	68.6	3.7
Diesel	14 722.1	4 918.0	1 545.9	725.3	7 532.9	9.2
Natural gas	V	V	V	V	V	N
Propane	52.0	S	S	29.9	S	30.9
Alcohol fuels	V	V	V	V	V	N
Electricity	V	V	V	V	V	N
Combination	S	S	V	V	S	S
Other	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not applicable ²	S	S	V	S	V	S
Cylinders ¹¹ :						
4 cylinders	7 632.7	7 443.3	110.7	S	S	16.3
6 cylinders	45 562.1	37 261.7	469.9	558.1	7 272.4	6.1
8 cylinders	42 134.9	40 015.5	1 651.7	317.6	150.1	7.0
Other	846.2	S	S	S	173.5	46.2
Cubic inch displacement ¹¹ :						
Gasoline fuel	81 310.3	80 019.9	1 041.1	180.7	68.6	3.7
Less than 200	14 637.0	14 637.0	V	V	V	11.6
200 to 299	32 030.7	31 941.9	60.1	S	S	8.7
300 to 349	14 328.7	14 316.3	S	V	V	13.1
350 to 399	17 786.6	17 493.1	S	S	12.8	12.2
400 or more	1 752.4	S	S	28.6	42.1	42.0
Not available	S	S	13.3	S	S	S
Diesel fuel	14 722.1	4 918.0	1 545.9	725.3	7 532.9	9.2
Less than 400	2 133.4	1 528.8	375.5	140.6	88.4	28.7
400 to 599	5 931.2	3 389.2	1 163.9	558.6	819.5	20.5
600 to 799	3 397.5	V	S	S	3 381.8	5.4
800 or more	2 192.3	V	S	S	2 187.4	7.2
Not available	1 067.6	V	S	S	1 055.8	11.5
Other fuel	64.9	S	S	29.9	S	29.4
Less than 400	35.5	S	S	S	S	36.1
400 or more	29.0	V	V	S	S	49.3
Not available	S	S	V	S	V	S
Not reported	V	V	V	V	V	N
Not applicable ²	S	S	V	S	V	S
REFUELING LOCATION						
Gas station	84 030.1	81 117.3	1 671.7	357.1	884.1	3.7
Truck stop	3 879.5	S	S	175.7	2 727.3	12.8
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	5 019.8	1 142.6	S	260.3	3 007.1	12.5
Other company's/contractor's facility not open to the public	537.4	S	V	73.5	440.9	16.6
Other	V	V	V	V	V	N
Not reported	2 630.4	1 917.5	86.7	69.4	556.8	24.1
Not applicable ²	S	S	V	S	V	S
MAINTENANCE⁵						
General maintenance performed by:						
None performed	1 864.7	1 835.9	S	S	S	40.5
Company-owned maintenance facility	14 937.5	8 291.1	1 384.6	350.1	4 911.7	12.0
General repair business or private mechanic	46 705.6	43 633.9	777.6	334.8	1 959.4	6.5
Dealership service department	26 529.5	24 947.5	200.6	113.8	1 267.6	9.1
Leasing company	357.0	V	S	38.3	311.2	18.0
Individual not employed/paid by any maintenance type facility	31 324.9	29 843.7	S	166.9	607.7	8.8
Other	V	V	V	V	V	N
Not reported	3 071.2	2 354.4	88.0	69.4	559.4	25.2
Not applicable ²	S	S	V	S	V	S
Extensive repairs performed by:						
None performed	76 105.1	68 984.2	2 121.4	628.5	4 371.0	4.2
Company-owned maintenance facility	2 534.5	1 668.3	64.3	31.5	770.5	26.8
General repair business or private mechanic	6 517.8	5 502.1	S	55.4	820.9	22.6
Dealership service department	5 195.9	4 164.0	S	S	860.6	20.2
Leasing company	S	S	S	S	S	S
Component distributorship (engine, transmission, body, etc.)	80.9	S	S	S	S	44.3
Individual not employed/paid by any repair type facility	3 364.7	3 185.2	23.4	S	149.8	26.1
Other	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ²	S	S	V	S	V	S
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	87 405.3	83 553.4	1 763.6	823.5	1 264.7	3.5
2 axles	86 691.8	83 553.4	1 751.7	813.4	573.3	3.5
3 axles	693.8	V	S	S	674.6	7.8
4 axles	19.4	V	S	V	16.5	42.2
5 axles or more	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Combinations	8 770.6	S	838.2	S	6 351.4	9.9
Single-unit trucks with trailer	2 619.8	S	838.2	S	206.6	32.1
3 axles	25.6	V	S	S	S	46.0
4 axles	2 424.0	S	825.8	S	S	34.6
5 axles or more	142.4	V	S	S	136.6	25.8
Not reported	S	V	V	V	S	S
Truck-tractors with single trailer	5 977.1	V	V	S	5 971.2	3.6
3 axles	133.2	V	V	S	131.0	27.1
4 axles	436.9	V	V	S	436.8	14.7
5 axles or more	4 735.8	V	V	S	4 735.1	4.4
Not reported	671.1	V	V	S	668.2	14.5
Truck-tractors with double trailers	169.5	V	V	V	169.5	35.3
5 axles	81.4	V	V	V	81.4	47.7
6 axles	S	V	V	V	S	S
7 axles	V	V	V	V	V	N
8 axles or more	S	V	V	V	S	S
Not reported	S	V	V	V	S	S

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	S	V	V	V	S	S
7 axles	V	V	V	V	V	N
8 axles	V	V	V	V	V	N
9 axles	V	V	V	V	V	N
10 axles or more	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Driving axles:						
1	78 426.7	73 891.4	2 255.7	919.1	1 360.6	4.0
2	17 700.2	11 126.4	S	20.9	6 206.7	10.2
3 or more	S	V	V	V	S	S
Not reported	S	V	V	V	S	S
Total liftable axles and locations ¹² :						
None	9 977.3	520.0	1 175.1	876.4	7 405.8	4.1
1	45.8	V	V	S	43.6	33.7
Forward of the drive axle	24.2	V	V	S	21.9	44.9
Below the chassis	S	V	V	V	S	S
Beyond the chassis	S	V	V	V	S	S
Not reported	S	V	V	V	S	S
2 or more	S	V	V	V	S	S
Forward of the drive axle	S	V	V	V	S	S
Below the chassis	V	V	V	V	V	N
Beyond the chassis	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Not reported	166.5	V	V	V	166.5	19.5
Not applicable ¹⁰	85 985.9	84 497.8	1 426.7	S	V	3.5
Total liftable axles and number of braking axles:						
None	9 977.3	520.0	1 175.1	876.4	7 405.8	4.1
1	45.8	V	V	S	43.6	33.7
0 braking	S	V	V	V	S	S
1 braking	31.6	V	V	S	29.4	36.1
Not reported	V	V	V	V	V	N
2 or more	S	V	V	V	S	S
0 braking	V	V	V	V	V	N
1 braking	V	V	V	V	V	N
2 or more braking	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Not reported	166.5	V	V	V	166.5	19.5
Not applicable ¹⁰	85 985.9	84 497.8	1 426.7	S	V	3.5
CAB TYPE						
Conventional cab	9 427.9	444.8	984.4	834.1	7 164.7	4.3
With sleeper	3 039.4	V	V	V	3 039.4	6.6
Without sleeper	5 759.7	444.8	984.4	834.1	3 498.5	6.6
Not reported	628.8	V	V	V	628.8	12.7
Cab over engine	731.5	67.9	190.7	44.6	428.3	10.9
With sleeper	170.2	V	V	S	169.4	28.5
Without sleeper	508.6	67.9	190.7	43.8	206.2	11.9
Not reported	52.6	V	V	V	52.6	44.4
Cab forward of engine	S	S	V	V	S	S
Cab beside engine	S	S	V	V	V	S
Not reported	S	V	V	V	S	S
Not applicable ¹⁰	85 985.9	84 497.8	1 426.7	S	V	3.5

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.

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	96 175.8	87 405.3	8 770.6	2 619.8	5 977.1	169.5	S	X
Coefficient of variation (percent)	3.1	3.5	9.9	32.1	3.6	35.3	S	X
BUSINESS¹								
For-hire transportation or warehousing	3 861.5	1 228.7	2 632.8	S	2 428.9	156.5	S	15.1
Vehicle leasing or rental	1 122.9	371.7	751.2	V	751.2	V	V	10.6
Agriculture, forestry, fishing, or hunting	1 958.6	1 627.2	331.4	60.9	270.2	S	V	36.6
Mining	456.6	120.7	335.9	S	326.4	V	V	14.1
Utilities	658.3	271.1	S	S	53.3	V	V	49.4
Construction	5 107.9	4 064.9	S	S	358.9	S	V	23.4
Manufacturing	1 245.1	S	392.2	S	372.6	S	V	34.9
Wholesale trade	2 122.7	1 722.9	399.8	S	362.9	S	V	40.2
Retail trade	1 984.0	1 501.3	S	S	161.2	V	V	31.9
Information services	S	S	S	V	S	V	V	S
Waste management, landscaping, or administrative/support services	S	246.2	S	S	S	V	V	S
Arts, entertainment, or recreation services	S	S	V	V	V	V	V	S
Accommodation or food services	846.4	S	174.4	V	174.4	V	V	45.4
Other services	4 611.1	4 557.9	S	V	S	V	V	28.8
Personal transportation	69 205.6	68 489.3	716.3	716.3	V	V	V	4.2
Not reported	S	S	642.6	S	629.9	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
BODY TYPE								
Single-unit trucks	90 025.1	87 405.3	2 619.8	2 619.8	N	N	N	3.4
Pickup	43 031.0	40 766.4	2 264.6	2 264.6	N	N	N	5.4
Minivan	11 239.8	11 239.8	V	V	N	N	N	16.4
Other light vans	5 704.9	5 704.9	V	V	N	N	N	23.7
Sport utility	26 010.1	26 010.1	V	V	N	N	N	7.2
Armored	S	S	V	V	N	N	N	S
Beverage	23.4	23.4	V	V	N	N	N	44.9
Concrete mixer	210.6	195.9	S	S	N	N	N	13.7
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	308.2	219.3	88.8	88.8	N	N	N	14.7
Flatbed, stake, or platform	1 060.2	908.8	151.4	151.4	N	N	N	10.8
Low boy	S	V	S	S	N	N	N	S
Pole, logging, pulpwood, or pipe	S	S	S	S	N	N	N	S
Service, utility	179.2	168.0	S	S	N	N	N	18.2
Service, other	174.4	141.6	S	S	N	N	N	21.7
Street sweeper	V	V	V	V	N	N	N	N
Tank, dry bulk	S	S	V	V	N	N	N	S
Tank, liquids or gases	177.9	157.0	S	S	N	N	N	17.8
Tow/Wrecker	192.1	192.1	V	V	N	N	N	26.0
Trash, garbage, or recycling	168.1	168.1	V	V	N	N	N	20.6
Vacuum	17.1	14.9	S	S	N	N	N	42.5
Van, basic enclosed	599.4	599.4	V	V	N	N	N	11.8
Van, insulated nonrefrigerated	V	V	V	V	N	N	N	N
Van, insulated refrigerated	161.2	161.2	V	V	N	N	N	21.8
Van, open top	S	S	V	V	N	N	N	S
Van, step, walk-in, or multistop	S	S	S	S	N	N	N	S
Van, other	31.3	31.3	V	V	N	N	N	39.8
Other	S	S	V	V	N	N	N	S
Truck-tractors	6 150.8	V	6 150.8	N	5 977.1	169.5	S	3.5
Automobile carrier	136.2	N	136.2	N	136.2	V	V	38.9
Beverage	22.2	N	22.2	N	22.2	V	V	43.6
Curtainside	S	N	S	N	S	V	V	S
Dump	593.8	N	593.8	N	593.5	S	V	14.1
Flatbed, stake, or platform	766.5	N	766.5	N	766.5	V	V	12.8
Livestock	S	N	S	N	S	V	V	S
Low boy	161.9	N	161.9	N	157.7	V	S	23.6
Mobile home toter	S	N	S	N	S	V	V	S
Open top	218.9	N	218.9	N	218.9	V	V	28.1
Pole, logging, pulpwood, or pipe	69.4	N	69.4	N	68.5	S	V	37.2
Tank, dry bulk	146.9	N	146.9	N	146.9	V	V	35.3
Tank, liquids or gases	552.6	N	552.6	N	552.6	V	V	14.4
Van, basic enclosed	2 254.9	N	2 254.9	N	2 133.1	121.8	V	7.1
Van, drop-frame	S	N	S	N	S	S	V	S
Van, insulated nonrefrigerated	S	N	S	N	S	S	V	S
Van, insulated refrigerated	1 113.3	N	1 113.3	N	1 110.4	S	V	11.7
Other	S	N	S	N	S	V	V	S
Not applicable ³	V	V	V	N	V	V	V	N
ANNUAL MILES								
Less than 5,000	1 394.7	1 299.8	S	S	11.5	S	V	16.1
5,000 to 9,999	5 998.9	5 798.3	S	S	35.9	S	V	12.3
10,000 to 19,999	43 539.8	42 553.0	986.8	S	140.5	S	V	5.0
20,000 to 29,999	22 532.1	21 501.4	1 030.6	S	276.1	V	S	10.9
30,000 to 49,999	12 380.0	11 176.2	1 203.8	S	590.3	S	V	18.7
50,000 to 74,999	5 863.9	4 713.0	1 150.9	73.2	1 060.1	S	V	32.7
75,000 or more	4 387.9	285.0	4 102.9	103.7	3 862.7	136.5	V	5.8
Not applicable ²	S	S	V	V	V	V	V	S

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
PRIMARY RANGE OF OPERATION								
Off-the-road	589.5	S	S	S	151.8	V	V	41.0
50 miles or less	59 511.8	57 668.8	1 843.0	S	927.0	S	V	4.9
51 to 100 miles	12 198.5	11 241.8	956.8	53.5	894.4	S	V	14.8
101 to 200 miles	5 081.1	4 015.5	1 065.6	S	550.2	S	V	29.0
201 to 500 miles	2 926.4	S	1 005.6	S	737.1	93.8	V	34.1
501 miles or more	2 465.6	S	1 706.2	S	1 479.7	S	S	18.6
Not reported	13 324.4	11 496.4	1 828.0	S	1 236.9	S	V	12.4
Not applicable ²	S	S	V	V	V	V	V	S
PRIMARY JURISDICTION								
Operated in Canada	V	V	V	V	V	V	V	N
Operated in Mexico	S	S	S	V	S	V	V	S
Operated within the home base state	85 061.6	79 187.7	5 873.9	2 369.6	3 393.2	111.1	V	3.7
Operated in states other than the home base state	2 283.9	S	1 749.6	S	1 486.9	S	V	17.9
Not reported	8 409.0	7 264.6	1 144.4	S	1 094.3	S	S	14.8
Not applicable ²	S	S	V	V	V	V	V	S
MONTHS OPERATED								
12	81 719.1	74 330.6	7 388.5	2 538.6	4 709.1	136.7	S	4.0
7 to 11	8 955.1	8 002.9	952.2	55.1	871.3	S	V	14.8
2 to 6	4 949.6	4 573.6	376.0	S	345.3	S	V	20.1
1 or less	S	S	53.8	S	51.5	V	V	S
Vehicle not used	S	S	V	V	V	V	V	S
VEHICLE SIZE								
Light	85 017.8	83 553.4	S	S	V	V	V	3.6
Medium	2 601.8	1 763.6	838.2	838.2	V	V	V	26.5
Light-heavy	940.0	823.5	S	S	S	V	V	11.2
Heavy-heavy	7 616.1	1 264.7	6 351.4	206.6	5 971.2	169.5	S	3.0
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	63 821.6	63 433.5	S	S	V	V	V	4.7
6,001 to 8,500	17 581.4	16 826.7	S	S	V	V	V	12.4
8,501 to 10,000	3 614.8	3 293.2	S	S	V	V	V	32.6
10,001 to 14,000	1 418.6	1 002.5	S	S	V	V	V	39.6
14,001 to 16,000	411.3	248.4	S	S	V	V	V	39.2
16,001 to 19,500	771.9	S	S	S	V	V	V	48.0
19,501 to 26,000	940.0	823.5	S	S	S	V	V	11.2
26,001 to 33,000	488.1	401.4	86.7	S	79.9	V	V	13.9
33,001 to 40,000	345.8	206.1	139.7	S	106.5	V	V	25.3
40,001 to 50,000	578.6	255.9	322.7	58.6	264.1	V	V	10.5
50,001 to 60,000	556.3	165.9	390.4	V	325.0	S	V	15.5
60,001 to 80,000	5 371.1	235.4	5 135.7	107.9	4 996.6	S	V	4.0
80,001 to 100,000	190.3	V	190.3	V	190.3	V	V	26.3
100,001 to 130,000	81.8	V	81.8	S	S	S	V	47.8
130,001 or more	S	V	S	V	V	V	S	S
TOTAL LENGTH (FEET)								
Less than 20.0	69 542.5	69 542.5	V	V	V	V	V	4.4
20.0 to 27.9	8 327.7	7 909.9	S	S	V	V	V	16.8
28.0 to 35.9	7 554.4	7 474.1	80.3	51.3	S	V	V	19.4
36.0 to 40.9	3 339.7	2 364.2	S	S	77.7	V	V	34.3
41.0 to 44.9	654.3	72.2	S	S	81.9	V	V	50.0
45.0 to 49.9	738.4	32.9	705.5	S	268.2	V	V	35.5
50.0 to 54.9	1 102.1	S	1 092.7	S	893.2	V	V	16.5
55.0 to 59.9	914.2	V	914.2	S	892.2	V	V	11.5
60.0 to 64.9	1 499.7	V	1 499.7	S	1 472.5	V	V	9.4
65.0 to 69.9	1 027.1	V	1 027.1	S	986.0	V	V	11.5
70.0 to 74.9	785.0	V	785.0	S	665.9	95.6	V	14.3
75.0 to 79.9	622.8	V	622.8	V	601.4	S	V	15.8
80.0 or more	S	V	S	S	S	S	S	S
MILES PER GALLON								
Less than 5	837.7	247.7	590.1	S	576.5	V	S	10.6
5 to 6.9	4 623.7	926.3	3 697.4	141.3	3 409.8	146.3	V	8.4
7 to 8.9	977.6	488.5	489.1	36.7	429.2	S	V	9.5
9 to 10.9	2 629.2	2 558.5	70.7	S	27.4	V	V	30.5
11 to 12.9	7 273.5	6 854.2	S	S	S	V	V	21.5
13 to 14.9	8 677.8	8 217.4	S	S	V	V	V	17.1
15 or more	56 599.8	55 185.4	S	S	V	V	V	5.4
15 to 20.9	46 358.7	44 944.4	S	S	V	V	V	6.3
21 to 24.9	6 700.3	6 700.3	V	V	V	V	V	21.4
25 or more	3 540.7	3 540.7	V	V	V	V	V	25.9
Not reported	14 477.9	12 848.7	1 629.2	S	1 505.5	V	V	12.7
Not applicable ²	S	S	V	V	V	V	V	S

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					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
MODEL YEAR								
2003	160.1	V	160.1	V	160.1	V	26.9	
2002	1 009.8	S	331.6	V	327.4	V	37.1	
2001	9 997.2	8 781.5	1 215.6	S	804.5	S	15.6	
2000	17 859.2	16 326.4	1 532.8	45.5	1 441.3	S	11.4	
1999	12 810.1	11 636.0	1 174.1	S	870.1	S	13.7	
1998	9 366.1	8 143.6	1 222.4	S	598.6	S	17.6	
1997	9 255.6	8 075.8	S	S	318.6	V	18.6	
1996	7 267.5	6 925.7	341.7	S	268.7	V	20.8	
1995	5 661.6	5 442.7	218.9	32.1	186.8	V	20.2	
1994	4 259.5	4 079.4	180.1	V	180.1	V	22.4	
1993	2 798.2	2 671.1	127.1	17.0	110.1	V	24.6	
Pre-1993	15 730.9	14 644.7	1 086.2	354.2	710.8	S	11.7	
VEHICLE ACQUISITION								
New	72 218.7	65 689.8	6 528.8	2 273.8	4 100.3	150.6	S	4.7
Used	17 665.5	16 236.4	1 429.1	S	1 087.1	S	V	10.1
Not reported	6 291.6	5 479.0	812.6	S	789.7	S	V	17.4
LEASE CHARACTERISTICS								
Leased	9 704.9	7 370.6	2 334.3	70.2	2 187.0	S	S	15.5
Lessee	6 603.4	5 854.8	748.7	S	724.9	V	S	21.5
Vehicle only	1 001.6	258.8	742.8	S	719.0	V	S	11.6
Vehicle with driver	S	S	S	V	S	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	5 594.2	5 594.2	V	V	V	V	V	25.3
Lessor	2 683.1	1 168.2	1 515.0	50.6	1 391.5	S	V	18.3
Vehicle only	1 653.4	363.1	1 290.4	S	1 200.4	S	V	8.6
Vehicle with driver	213.1	S	208.3	S	174.8	V	V	24.7
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	70.6	V	70.6	V	V	S
Not leased	48 281.9	44 336.7	3 945.2	1 443.8	2 408.0	93.4	V	6.0
Not reported	38 189.0	35 697.9	2 491.1	1 105.9	1 382.0	S	V	7.4
Length of leasing agreement:								
Leased	9 704.9	7 370.6	2 334.3	70.2	2 187.0	S	S	15.5
1 to 11 months	255.4	S	223.8	V	223.8	V	V	22.5
12 months or more	2 656.1	601.5	2 054.6	70.2	1 907.4	S	S	6.7
Not reported	S	V	S	V	S	V	V	S
Not applicable ⁴	6 737.6	6 737.6	V	V	V	V	V	22.2
Provisions of lease ⁵ :								
Financing only	1 666.5	436.7	1 229.9	S	1 193.3	V	S	8.7
Full maintenance	1 430.1	282.6	1 147.5	S	1 067.8	S	V	9.4
Payment of taxes	1 426.6	304.9	1 121.7	S	1 037.7	S	V	9.4
Obtaining licenses and permits	1 429.8	285.0	1 144.8	S	1 052.2	S	V	9.4
Recordkeeping	965.1	179.8	785.3	S	686.6	S	V	11.6
Fuel contract	335.8	108.9	226.9	S	211.4	V	V	18.6
PRIMARY OPERATOR CLASSIFICATION								
Private	20 577.9	16 761.4	3 816.5	1 798.6	2 013.8	S	V	11.5
Motor carrier	4 053.2	1 491.9	2 561.3	S	2 401.5	144.0	S	18.6
Owner operator	1 096.1	182.1	914.0	81.9	810.6	S	V	10.8
Rental	1 164.6	402.0	762.6	S	751.2	V	V	10.3
Personal transportation	69 205.6	68 489.3	716.3	716.3	V	V	V	4.2
Not applicable ²	S	S	V	V	V	V	V	S
For-hire characteristics:								
Type of carrier:								
Contract	2 541.3	S	1 964.7	44.7	1 848.6	S	S	14.5
Common	1 427.5	311.6	1 115.9	S	968.8	98.1	V	10.9
Not reported	529.1	134.4	394.7	V	394.7	V	V	14.1
Not applicable ⁶	91 677.9	86 382.6	5 295.3	2 526.2	2 765.0	S	V	3.3
Type of service:								
Truckload	2 906.5	329.7	2 576.8	64.9	2 498.8	S	S	6.8
Less-than truckload	1 055.0	S	487.2	S	316.8	141.7	V	32.4
Not reported	536.4	125.2	411.3	V	396.5	S	V	14.0
Not applicable ⁶	91 677.9	86 382.6	5 295.3	2 526.2	2 765.0	S	V	3.3
Source of hauls:								
Shippers or receivers	3 119.1	726.5	2 392.7	S	2 189.6	144.0	S	12.1
Brokers	418.4	V	418.4	V	418.4	V	V	20.4
Centralized markets or exchanges	141.1	S	108.5	S	104.1	V	V	32.3
Other	V	V	V	V	V	V	V	N
Not reported	819.3	263.6	555.7	S	500.0	S	V	13.6
Not applicable ⁶	91 677.9	86 382.6	5 295.3	2 526.2	2 765.0	S	V	3.3
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	1 100.9	197.4	903.5	S	812.0	S	V	10.5
Not carrying hazardous materials	6 540.0	2 628.4	3 911.5	246.5	3 568.3	92.5	S	6.2
Not reported	1 373.9	445.5	928.4	68.1	845.5	S	V	8.1
Not applicable ⁸	87 161.1	84 133.9	3 027.2	2 275.9	751.2	V	V	3.5
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	105.7	103.7	S	S	V	V	V	22.1
Air bag(s) (safety device only)	62 709.8	60 229.5	2 480.2	1 343.5	1 090.2	V	V	5.2
Air compressor (except air brakes)	1 195.2	333.8	861.4	70.0	747.8	S	V	10.0
Air-conditioning	87 811.2	79 802.2	8 009.0	2 516.2	5 322.6	166.0	S	3.6
Air springs	2 138.7	95.1	2 043.6	S	2 017.6	S	V	8.1

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	67 529.0	61 152.6	6 376.4	2 323.1	3 906.9	142.4	S	4.8
Collision warning system	82.4	S	50.8	S	47.1	V	V	34.3
Computerized drive train control unit	13 950.7	13 385.4	565.3	S	449.1	S	S	16.4
Crane	68.9	66.5	S	V	S	V	V	29.1
Electronic vehicle identification device	678.5	46.1	632.4	S	613.8	V	V	14.8
Engine retarder/brake	2 411.4	145.5	2 265.8	S	2 165.4	S	S	7.4
Front-wheel drive	11 425.5	11 119.1	S	S	V	V	V	15.7
Hoist	173.5	156.7	S	S	V	V	V	20.4
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	401.9	69.8	332.1	S	314.6	V	V	18.7
Internet access	85.4	V	85.4	V	85.4	V	V	44.1
Lift gate	426.1	389.2	S	S	V	V	V	14.7
Mounting bar for snowplow	S	S	V	V	V	V	V	S
Navigational system	S	S	S	S	S	V	V	S
Power take-off	2 349.1	877.1	1 472.0	76.6	1 395.4	V	V	7.1
Radial tires	66 008.8	60 046.0	5 962.8	1 841.3	3 963.5	153.8	S	4.8
Reflective material in addition to those required by law	1 522.8	520.2	1 002.6	63.8	932.1	S	V	8.6
Road speed governor	5 264.0	1 360.2	3 903.8	156.8	3 601.1	141.7	S	7.5
Toolbox	14 712.1	12 473.3	2 238.8	1 033.4	1 200.4	S	S	13.4
Trip recorder or on-board computer with communication capabilities	4 660.9	3 603.4	1 057.4	S	1 037.6	V	V	20.6
Trip recorder or on-board computer without communication capabilities	16 689.2	15 936.4	752.9	S	463.4	S	S	12.2
Vehicle control aids for handicapped drivers	S	S	V	V	V	V	V	S
Wheelchair lift	S	S	V	V	V	V	V	S
Winch	856.6	357.3	S	S	144.0	V	V	36.8
Transmission type:								
Automatic	71 132.2	69 789.7	1 342.5	1 154.2	185.4	S	V	4.4
Manual	21 226.2	14 896.7	6 329.5	1 439.1	4 719.7	166.6	S	8.7
Semiautomated manual	88.2	S	78.4	V	78.4	V	V	30.7
Automated manual	119.6	S	117.4	V	117.4	V	V	40.0
Not reported	3 609.6	2 706.9	902.7	26.5	876.1	V	V	19.4
Braking system:								
Hydraulic (standard)	1 091.0	976.9	114.1	49.9	60.4	S	V	10.5
Hydraulic with power assist	1 218.2	1 030.7	187.6	116.3	71.3	V	V	27.7
Air	6 404.6	1 089.5	5 315.0	160.2	4 985.0	165.7	S	3.6
Other	V	V	V	V	V	V	V	N
Not reported	1 476.1	586.9	889.3	28.8	860.5	V	V	7.5
Not applicable ¹⁰	85 985.9	83 721.3	2 264.6	2 264.6	V	V	V	3.5
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	81 310.3	80 133.3	S	S	S	V	V	3.7
Diesel	14 722.1	7 129.3	7 592.8	1 442.8	5 976.4	169.5	S	9.2
Natural gas	V	V	V	V	V	V	V	N
Propane	52.0	51.2	S	S	V	V	V	30.9
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	S	S	V	V	V	V	V	S
Other	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	S	S	V	V	V	V	V	S
Cylinders¹¹:								
4 cylinders	7 632.7	7 623.0	S	S	S	V	V	16.3
6 cylinders	45 562.1	38 471.4	7 090.7	1 073.8	5 844.4	168.3	S	6.1
8 cylinders	42 134.9	40 600.8	1 534.1	1 521.3	12.8	V	V	7.0
Other	846.2	S	136.1	S	117.0	S	V	46.2
Cubic inch displacement¹¹:								
Gasoline fuel								
Less than 200	81 310.3	80 133.3	S	S	S	V	V	3.7
200 to 299	14 637.0	14 637.0	V	V	V	V	V	11.6
300 to 349	32 030.7	31 647.0	S	S	V	V	V	8.7
350 to 399	14 328.7	14 328.7	V	V	V	V	V	13.1
400 or more	17 786.6	17 626.4	S	S	V	V	V	12.2
Not available	1 752.4	1 122.9	S	S	V	V	V	42.0
Diesel fuel								
Less than 400	14 722.1	7 129.3	7 592.8	1 442.8	5 976.4	169.5	S	9.2
400 to 599	2 133.4	1 590.1	S	S	S	V	V	28.7
600 to 799	5 931.2	4 929.0	1 002.2	S	242.9	S	V	20.5
800 or more	3 397.5	433.6	2 963.9	102.6	2 756.6	104.7	V	5.4
Not available	2 192.3	108.7	2 083.6	S	2 018.2	S	S	7.2
Other fuel	1 067.6	67.8	999.8	S	946.7	S	V	11.5
Less than 400	64.9	64.1	S	S	V	V	V	29.4
400 or more	35.5	34.7	S	S	V	V	V	36.1
Not available	29.0	29.0	V	V	V	V	V	49.3
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
REFUELING LOCATION								
Gas station	84 030.1	81 395.3	2 634.8	2 053.1	580.5	S	V	3.7
Truck stop	3 879.5	948.3	2 931.3	S	2 431.8	S	V	12.8
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	5 019.8	2 637.9	2 381.9	69.4	2 154.8	153.5	S	12.5
Other company's/contractor's facility not open to the public	537.4	137.5	399.9	V	399.9	V	V	16.6
Other	V	V	V	V	V	V	V	N
Not reported	2 630.4	2 207.7	422.7	S	410.0	V	V	24.1
Not applicable ²	S	S	V	V	V	V	V	S

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
MAINTENANCE⁵								
General maintenance performed by:								
None performed	1 864.7	1 842.3	S	V	S	V	V	40.5
Company-owned maintenance facility	14 937.5	9 725.3	5 212.2	S	3 944.8	107.6	S	12.0
General repair business or private mechanic	46 705.6	44 243.9	2 461.7	S	1 407.2	157.4	V	6.5
Dealership service department	26 529.5	25 037.5	1 492.0	S	1 013.4	S	V	9.1
Leasing company	357.0	78.9	278.1	V	278.1	V	V	18.0
Individual not employed/paid by any maintenance type facility	31 324.9	29 994.4	1 330.5	S	467.9	S	V	8.8
Other	V	V	V	V	V	V	V	N
Not reported	3 071.2	2 633.9	437.3	S	424.6	V	V	25.2
Not applicable ²	S	S	V	V	V	V	V	S
Extensive repairs performed by:								
None performed	76 105.1	70 237.3	5 867.8	2 270.0	3 424.1	169.5	S	4.2
Company-owned maintenance facility	2 534.5	1 932.7	601.8	26.8	575.0	V	V	26.8
General repair business or private mechanic	6 517.8	5 759.1	758.7	S	604.1	V	V	22.6
Dealership service department	5 195.9	4 367.0	828.8	S	717.2	V	V	20.2
Leasing company	S	S	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)	80.9	S	S	V	S	V	V	44.3
Individual not employed/paid by any repair type facility	3 364.7	3 224.2	140.5	S	97.7	V	V	26.1
Other	V	V	V	V	V	V	V	N
Not reported	S	S	S	V	S	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
AXLE ARRANGEMENT								
Driving axles:								
1	78 426.7	75 520.9	2 905.8	2 154.8	669.6	81.4	V	4.0
2	17 700.2	11 877.3	5 822.8	S	5 266.3	S	S	10.2
3 or more	S	S	S	V	S	V	V	S
Not reported	S	V	S	S	S	V	V	S
Total liftable axles and locations ¹² :								
None	9 977.3	3 550.1	6 427.2	323.0	5 930.5	169.5	S	4.1
1	45.8	31.4	S	S	S	V	V	33.7
Forward of the drive axle	24.2	S	S	S	S	V	V	44.9
Below the chassis	S	V	S	V	S	V	V	S
Beyond the chassis	S	S	V	V	V	V	V	S
Not reported	S	S	V	V	V	V	V	S
2 or more	S	S	V	V	V	V	V	S
Forward of the drive axle	S	S	V	V	V	V	V	S
Below the chassis	V	V	V	V	V	V	V	N
Beyond the chassis	S	S	V	V	V	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not reported	166.5	102.2	64.4	S	S	V	V	19.5
Not applicable ¹⁰	85 985.9	83 721.3	2 264.6	2 264.6	V	V	V	3.5
Total liftable axles and number of braking axles:								
None	9 977.3	3 550.1	6 427.2	323.0	5 930.5	169.5	S	4.1
1	45.8	31.4	S	S	S	V	V	33.7
0 braking	S	S	S	V	S	V	V	S
1 braking	31.6	26.3	S	S	S	V	V	36.1
Not reported	V	V	V	V	V	V	V	N
2 or more	S	S	V	V	V	V	V	S
0 braking	V	V	V	V	V	V	V	N
1 braking	V	V	V	V	V	V	V	N
2 or more braking	S	S	V	V	V	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not reported	166.5	102.2	64.4	S	S	V	V	19.5
Not applicable ¹⁰	85 985.9	83 721.3	2 264.6	2 264.6	V	V	V	3.5
CAB TYPE								
Conventional cab								
With sleeper	9 427.9	3 288.5	6 139.4	342.8	5 623.2	169.2	S	4.3
Without sleeper	3 039.4	V	3 039.4	V	2 981.0	S	V	6.6
Not reported	5 759.7	3 288.5	2 471.2	342.8	2 022.3	102.0	S	6.6
Not reported	628.8	V	628.8	V	620.0	S	V	12.7
Cab over engine								
With sleeper	731.5	380.9	350.6	S	338.6	S	V	10.9
Without sleeper	170.2	V	170.2	V	169.9	S	V	28.5
Not reported	508.6	380.9	127.8	S	116.1	V	V	11.9
Not reported	52.6	V	52.6	V	52.6	V	V	44.4
Cab forward of engine								
Cab beside engine	S	S	S	S	V	V	V	S
Not reported	S	S	V	V	V	V	V	S
Not applicable ¹⁰	85 985.9	83 721.3	2 264.6	2 264.6	V	V	V	3.5

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.
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	96 175.8	10 189.9	3.1	4.0		
TRAILER CONFIGURATION						
No trailer pulled	85 818.7	3 700.1	3.4	9.6		
Single trailer pulled	10 101.7	6 308.7	7.6	3.4		
Double trailers pulled	174.8	174.8	31.6	31.6		
Triple trailers pulled	S	S	S	S		
Not applicable ¹	S	S	S	S		
RANGE OF OPERATION						
Off-the-road	1 398.1	254.4	19.3	15.9		
50 miles or less	52 663.6	2 681.2	4.8	12.7		
51 to 100 miles	14 681.7	1 707.3	10.4	7.0		
101 to 200 miles	6 175.4	943.8	18.5	8.9		
201 to 500 miles	4 880.3	1 105.4	14.7	9.8		
501 miles or more	2 973.9	1 561.9	11.0	9.5		
Not reported	13 324.4	1 931.7	12.4	6.7		
Not applicable ¹	S	S	S	S		
JURISDICTION						
Operated in Canada	S	S	S	S		
Operated in Mexico	S	S	S	S		
Operated within the home base state	83 634.6	6 938.9	3.7	5.6		
Operated in states other than the home base state	3 638.4	1 522.4	12.1	8.5		
Not reported	8 409.0	1 714.3	14.8	7.1		
Not applicable ¹	S	S	S	S		
OPERATOR CLASSIFICATION						
Private	20 563.4	4 516.0	11.0	3.9		
Motor carrier	4 040.2	3 380.7	18.7	11.4		
Owner operator	1 099.4	1 099.4	10.6	10.6		
Rental	1 237.8	1 164.4	11.4	10.3		
Personal transportation	69 156.5	25.3	4.1	37.0		
Not applicable ¹	S	S	S	S		
For-hire characteristics:						
Type of carrier:						
Contract	2 375.7	2 375.7	9.8	9.8		
Common	1 593.2	1 593.2	13.8	13.8		
Not reported	529.1	529.1	14.1	14.1		
Not applicable ^{2 3}	91 677.9	5 691.9	3.3	3.5		
Type of service:						
Truckload	1 101.6	1 101.6	30.9	30.9		
Less-than truckload	2 859.9	2 859.9	6.8	6.8		
Not reported	536.4	536.4	14.0	14.0		
Not applicable ^{2 3}	91 677.9	5 691.9	3.3	3.5		
PRODUCTS CARRIED⁴						
Animals and fish, live	43.7	32.2	37.6	36.5		
Animal feed and products of animal origin	105.1	100.1	29.5	30.5		
Grains, cereal	49.2	49.2	27.0	27.0		
All other agricultural products	227.1	206.2	23.9	24.3		
Basic chemicals	122.4	109.1	24.7	25.4		
Fertilizers and fertilizer materials	S	17.8	S	30.8		
Pharmaceutical products	S	S	S	S		
All other chemical products and preparations	S	68.5	S	25.7		
Alcoholic beverages	56.6	56.6	23.7	23.7		
Bakery and milled grain products	S	185.7	S	21.5		
Meat, seafood, and their preparations	309.5	227.9	29.4	17.7		
Tobacco products	28.5	28.5	46.2	46.2		
All other prepared foodstuffs	745.4	562.4	19.9	13.5		
Logs and other wood in the rough	S	62.2	S	33.7		
Paper or paperboard articles	142.0	131.8	23.7	24.3		
Printed products	22.1	22.1	41.6	41.6		
Pulp, newsprint, paper, and paperboard	17.9	17.9	41.7	41.7		
Wood products	779.2	166.7	41.9	16.5		
Articles of base metal	717.8	207.8	40.9	17.6		
Base metal in primary or semifinished forms	S	102.8	S	21.7		
Nonmetallic mineral products	388.5	265.0	34.1	18.0		
Tools, nonpowered	5 005.7	406.6	25.4	11.6		
Tools, powered	2 990.2	350.6	30.6	11.7		
Electronic and other electrical equipment	S	76.7	S	24.1		
Furniture, mattresses, lamps, etc.	85.4	52.7	41.3	25.4		
Machinery	253.2	215.4	18.2	17.2		
Miscellaneous manufactured products	396.3	178.9	34.8	23.4		
Precision instruments and apparatus	69.2	38.3	38.1	38.6		
Textile, leather, and related articles	102.9	102.9	28.0	28.0		
Vehicles, including parts	818.8	328.2	34.7	24.8		
All other transportation equipment	S	S	S	S		
Coal	S	S	S	S		
Crude petroleum	62.3	62.3	35.4	35.4		
Gravel or crushed stone	297.2	292.1	14.1	14.2		
Metallic ores and concentrates	S	S	S	S		
Monumental or building stone	21.3	21.3	48.4	48.4		
Natural sands	155.7	143.1	17.6	17.0		
All other nonmetallic minerals	26.9	26.9	31.2	31.2		
Fuel oils	S	99.8	S	25.1		
Gasoline and aviation turbine fuel	101.1	101.1	27.0	27.0		

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	83.8	68.6	30.2	29.5
All other coal and refined petroleum products	95.8	95.8	23.4	23.4
Hazardous waste (EPA manifest)	6.4	6.4	46.6	46.6
All other waste and scrap (non-EPA manifest)	352.1	140.5	43.5	18.0
Recyclable products	59.2	55.0	27.0	28.1
Mail and courier parcels	S	S	S	S
Empty shipping containers	46.6	46.6	29.4	29.4
Passengers	S	S	S	S
Mixed freight	364.2	364.2	18.3	18.3
Products, equipment, or materials not elsewhere classified	44.6	44.6	25.8	25.8
Products not specified	1 412.9	244.6	49.4	17.0
Not applicable ¹	S	S	S	S
HAZARDOUS MATERIALS CARRIED⁴				
Division 1.1, Explosives	S	S	S	S
Division 1.2, Explosives	V	V	N	N
Division 1.3, Explosives	V	V	N	N
Division 1.4, Explosives	S	S	S	S
Division 1.5, Explosives	1.0	1.0	27.3	27.3
Division 1.6, Explosives	1.0	1.0	27.3	27.3
Division 2.1, Flammable gas	58.5	58.5	26.7	26.7
Division 2.2, Nonflammable gas	35.8	35.8	45.5	45.5
Division 2.3, Poison gas	S	S	S	S
Class 3, Flammable	224.8	224.8	16.7	16.7
Combustible liquid	81.8	81.8	30.1	30.1
Oxygen 2, Oxygen	12.9	12.9	35.0	35.0
Division 4.1, Flammable solid	6.2	6.2	30.5	30.5
Division 4.2, Spontaneously combustible	1.9	1.9	35.5	35.5
Division 4.3, Dangerous when wet	2.8	2.8	34.8	34.8
Division 5.1, Oxidizer	18.6	18.6	29.1	29.1
Division 5.2, Organic peroxide	7.3	7.3	23.7	23.7
Division 6.1, Poison inhalation hazard	8.8	8.8	46.2	46.2
Division 6.1, Poison	8.4	8.4	28.4	28.4
Class 7, Radioactive	S	S	S	S
Class 8, Corrosive	51.5	51.5	22.5	22.5
Class 9	13.7	13.7	37.8	37.8
Hazardous materials not specified	10.1	10.1	46.5	46.5
Not applicable ¹	S	S	S	S

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

