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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 Michigan is 2,742 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 Michigan, approximately 79.3 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	22.5	17.7	20.8	21.8
Agriculture, forestry, fishing, or hunting	1.4	3.0	4.4	4.8	3 to 4 years old	18.4	18.4	18.0	19.4
Mining	V	.1	.2	.3	Over 4 years old	59.1	63.8	61.2	58.8
Construction	6.1	8.0	8.8	9.1	VEHICLE ACQUISITION				
Manufacturing .....	.9	1.4	2.3	2.6	New	44.9	37.3	48.5	52.7
Wholesale and retail trade	1.4	3.3	3.9	4.5	Used	49.5	51.7	46.6	45.8
For-hire transportation or warehousing	1.0	1.1	1.0	2.3	Not reported ⁴	5.6	11.0	4.9	1.5
Utilities and all services	3.6	5.4	4.8	4.3	TRUCK TYPE				
Personal transportation	82.6	76.3	72.8	71.8	Single-unit trucks ⁵	97.2	97.2	97.0	95.7
Other, not reported, and not applicable	2.8	1.4	1.8	.2	2 axles	96.6	96.6	96.3	94.9
BODY TYPE					3 axles or more .....	.5	.7	.7	.8
Pickup, minivan, other light vans, and sport utility	95.4	94.3	93.3	90.4	Trailer/axles not specified	V	N	N	N
Flatbed, stake, platform, and low boy	1.1	1.7	1.8	3.3	Combinations	2.8	2.8	3.0	4.3
Van ²	1.3	1.3	1.7	1.7	3 axles .....	.7	.6	.4	1.0
Service, utility .....	.2	.2	.2	.3	4 axles	1.0	.8	.9	1.5
Van, step, walk-in, or multistop .....	.5	.6	.6	1.4	5 axles or more	1.0	1.4	1.6	1.8
Dump .....	.9	.8	.9	1.1	Trailer/axles not specified .....	.2	V	V	V
Tank for liquids, gases, or dry bulk .....	.2	.3	.3	.4	RANGE OF OPERATION				
Other and not applicable .....	.6	.9	1.2	1.5	50 miles or less	69.6	76.6	76.9	76.3
VEHICLE SIZE					51 to 200 miles	12.3	15.6	15.0	15.0
Light	96.1	94.9	94.9	93.8	201 miles or more	4.1	4.3	4.8	4.7
Medium .....	.8	1.7	1.0	1.5	Off-the-road, not reported, and not applicable	14.0	3.4	3.4	4.0
Light-heavy .....	.8	.7	1.1	1.2	FUEL TYPE				
Heavy-heavy	2.2	2.7	3.0	3.5	Gasoline	93.3	93.7	94.2	94.6
ANNUAL MILES					All other fuels	5.4	6.2	5.8	5.3
Less than 5,000 ³	13.4	14.6	17.7	22.3	Other, not reported, and not applicable	1.3	.1	V	V
5,000 to 9,999	15.7	16.9	19.2	21.2					
10,000 to 19,999	48.2	42.3	41.0	37.3					
20,000 to 29,999	14.0	17.6	14.4	12.6					
30,000 or more	8.6	8.5	7.6	6.6					

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	7.3	10.3
Agriculture, forestry, fishing, or hunting	13.9	13.0	3 to 4 years old	17.8	16.5
Mining .....	.8	1.2	Over 4 years old	74.9	73.2
Construction	21.5	24.5	VEHICLE ACQUISITION		
Manufacturing	5.8	7.5	New	48.9	42.0
Wholesale and retail trade	13.4	17.6	Used	46.3	47.0
For-hire transportation or warehousing	13.9	13.8	Not reported ⁴	4.8	11.0
Utilities and all services	14.2	14.2	TRUCK TYPE		
Personal transportation	3.7	3.3	Single-unit trucks ⁵	68.9	65.8
Other, not reported, and not applicable	12.6	4.9	2 axles	57.2	54.3
BODY TYPE			3 axles or more	11.7	11.5
Flatbed, stake, platform, and low boy	23.2	30.0	Trailer/axles not specified .....	.1	N
Van ²	28.5	23.6	Combinations	31.1	34.2
Service, utility	3.9	2.7	3 axles	2.2	2.1
Van, step, walk-in, or multistop	9.7	9.7	4 axles	5.1	7.4
Dump	19.1	13.5	5 axles or more	20.5	24.7
Tank for liquids, gases, or dry bulk	3.6	4.6	Trailer/axles not specified	3.3	V
Other and not applicable	11.9	15.4	RANGE OF OPERATION		
VEHICLE SIZE			50 miles or less	57.2	58.3
Light	16.3	22.7	51 to 200 miles	19.9	23.6
Medium	17.8	17.5	201 miles or more	7.1	11.7
Light-heavy	17.6	12.7	Off-the-road, not reported, and not applicable	15.7	6.5
Heavy-heavy	48.4	47.1	FUEL TYPE		
ANNUAL MILES			Gasoline	31.6	39.2
Less than 5,000 ³	27.5	23.7	All other fuels	65.5	59.7
5,000 to 9,999	14.1	15.0	Other, not reported, and not applicable	2.9	1.1
10,000 to 19,999	21.7	22.1			
20,000 to 29,999	14.6	10.9			
30,000 or more	22.1	28.4			

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

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

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

³Includes vehicles not in use.

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

⁵Excludes truck-tractors not in use.

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

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
Total	3 581.3	2 734.5	31.0	51 806.9	40 438.8	28.1	14.5	14.8	-2.2
BUSINESS¹									
For-hire transportation or warehousing	37.5	30.5	22.8	1 545.1	1 909.2	-19.1	41.2	62.6	-34.1
Vehicle leasing or rental	31.8	9.5	233.6	677.4	375.5	80.4	21.3	39.4	-45.9
Agriculture, forestry, fishing, or hunting	51.3	82.5	-37.8	635.1	918.4	-30.8	12.4	11.1	11.2
Mining	1.4	1.9	-27.1	33.6	34.7	-3.2	24.3	18.3	32.8
Utilities	27.5	11.1	148.2	S	86.1	S	S	7.8	S
Construction	220.1	217.5	1.2	4 111.1	4 177.5	-1.6	18.7	19.2	-2.8
Manufacturing	30.9	37.2	-16.9	788.8	804.5	-2.0	25.5	21.6	18.0
Wholesale trade	16.5	31.9	-48.1	480.6	869.8	-44.7	29.1	27.3	6.5
Retail trade	34.3	58.8	-41.6	634.0	1 471.1	-56.9	18.5	25.0	-26.2
Information services	1.0	N	N	13.5	N	N	14.2	N	N
Waste management, landscaping, or administrative/support services	24.3	N	N	267.1	N	N	11.0	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	1.5	N	N	44.9	N	N	30.8	N	N
Other services	68.1	N	N	1 698.7	N	N	25.0	N	N
Personal transportation	2 959.8	2 087.2	41.8	39 913.7	27 630.2	44.5	13.5	13.2	1.9
Not reported	S	V	S	170.3	V	N	S	V	S
Not applicable ²	47.5	29.5	60.9	V	S	S	V	S	S
BODY TYPE									
Single-unit trucks	3 540.6	2 692.6	31.5	49 853.6	38 185.8	30.6	14.1	14.2	-7
Pickup	1 445.2	1 176.0	22.9	19 104.6	14 334.2	33.3	13.2	12.2	8.5
Minivan	624.6	513.1	21.7	9 402.3	8 396.3	12.0	15.1	16.4	-8.0
Other light vans	238.8	243.6	-1.9	3 092.3	4 164.6	-25.7	12.9	17.1	-24.3
Sport utility	1 106.7	645.5	71.5	16 500.1	9 535.4	73.0	14.9	14.8	.9
Armored	S	N	N	V	N	N	S	N	N
Beverage	1.1	S	S	13.6	S	S	12.6	S	S
Concrete mixer	3.6	2.1	73.2	53.2	26.9	98.1	15.0	13.1	14.4
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	S	1.9	S	S	38.3	S	S	19.8	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	23.8	16.4	45.0	178.9	143.5	24.7	7.5	8.8	-14.0
Flatbed, stake, or platform	30.6	36.1	-15.2	268.7	382.1	-29.7	8.8	10.6	-17.1
Low boy	S	.3	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe	1.1	.2	369.9	37.5	S	S	35.2	S	S
Service, utility	6.4	4.2	53.9	95.1	41.7	128.0	14.9	10.0	48.1
Service, other	2.1	4.0	-47.9	22.7	51.8	-56.2	10.8	12.9	-16.0
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	S	S	S	S	S	S	S	S	S
Tank, liquids or gases	2.7	4.6	-41.1	41.6	71.6	-42.0	15.3	15.5	-1.4
Tow/Wrecker	3.7	3.9	-5.0	51.1	85.2	-40.0	13.9	22.0	-36.9
Trash, garbage, or recycling	2.6	3.5	-26.0	61.8	61.6	4	23.6	17.4	35.6
Vacuum .....	.5	N	N	11.6	N	N	23.2	N	N
Van, basic enclosed	19.6	15.1	30.1	450.3	468.5	-3.9	22.9	31.0	-26.1
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	2.1	1.1	91.8	76.6	35.5	115.9	36.6	32.5	12.6
Van, open top	1.6	3.2	-51.3	3.6	8.8	-59.2	2.3	2.7	-16.3
Van, step, walk-in, or multistop	16.2	15.1	6.7	272.4	295.4	-7.8	16.9	19.5	-13.6
Van, other	5.3	N	N	84.3	N	N	15.8	N	N
Other	V	N	N	V	N	N	V	N	N
Truck-tractors	40.7	42.0	-3.0	1 953.3	2 253.0	-13.3	48.0	53.7	-10.6
Automobile carrier .....	.7	.7	-6.7	52.9	51.1	3.5	76.7	69.1	11.0
Beverage	1.8	1.0	72.4	44.8	15.1	196.5	25.4	14.7	71.9
Curtainside .....	.3	N	N	14.2	N	N	44.9	N	N
Dump	7.9	4.8	65.2	235.7	168.6	39.7	29.7	35.2	-15.4
Flatbed, stake, or platform	5.8	7.1	-17.3	206.8	345.8	-40.2	35.4	49.0	-27.7
Livestock .....	.3	.3	-7.6	6.7	S	S	21.2	S	S
Low boy	1.9	2.7	-27.2	36.3	68.5	-47.0	18.6	25.6	-27.2
Mobile home toter	V	N	N	V	N	N	V	N	N
Open top .....	.9	1.1	-17.3	27.4	13.8	99.1	29.1	12.1	140.7
Pole, logging, pulpwood, or pipe .....	.4	.3	9.9	S	20.1	S	S	58.7	S
Tank, dry bulk .....	.8	.7	13.3	49.2	33.4	47.2	60.1	46.2	30.0
Tank, liquids or gases	2.1	1.7	25.3	108.4	98.0	10.7	52.4	59.3	-11.7
Van, basic enclosed	13.4	15.0	-10.6	880.4	1 029.6	-14.5	65.6	68.6	-4.3
Van, drop-frame .....	.6	1.0	-34.8	25.4	44.8	-43.3	40.2	46.3	-13.1
Van, insulated nonrefrigerated .....	.4	.2	92.9	22.9	S	S	52.2	S	S
Van, insulated refrigerated	2.6	3.7	-28.5	229.9	265.2	-13.3	86.8	71.7	21.1
Other	V	N	N	V	N	N	V	N	N
Not applicable ³ .....	.6	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	432.3	375.7	15.1	919.1	729.7	25.9	2.1	1.9	9.4
5,000 to 9,999	563.6	462.1	22.0	3 989.8	3 239.5	23.2	7.1	7.0	1.0
10,000 to 19,999	1 728.0	1 157.8	49.2	23 286.4	15 913.6	46.3	13.5	13.7	-2.0
20,000 to 29,999	502.4	481.9	4.3	10 831.6	10 745.9	.8	21.6	22.3	-3.3
30,000 to 49,999	229.9	187.5	22.6	7 660.0	6 537.8	17.2	33.3	34.9	-4.4
50,000 to 74,999	64.7	31.6	104.6	3 772.5	1 821.0	107.2	58.3	57.6	1.2
75,000 or more	13.0	13.7	-5.5	1 347.5	1 451.3	-7.2	103.8	105.6	-1.7
Not applicable ²	47.5	24.2	96.3	V	V	N	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	S	70.0	S	S	628.6	S	S	9.0	S
50 miles or less	2 492.2	2 095.2	18.9	34 098.3	28 150.2	21.1	13.7	13.4	1.8
51 to 100 miles	329.9	335.3	-1.6	6 265.3	6 195.4	1.1	19.0	18.5	2.8
101 to 200 miles	108.8	92.5	17.7	1 819.1	2 111.1	-13.8	16.7	22.8	-26.8
201 to 500 miles	55.5	64.4	-13.8	1 384.4	2 076.5	-33.3	25.0	32.3	-22.6
501 miles or more	92.3	53.0	74.0	1 785.6	1 277.0	39.8	19.4	24.1	-19.7
Not reported	438.1	24.2	1 711.3	6 103.0	V	N	13.9	V	N
Not applicable ²	47.5	N	N	V	N	N	V	N	N
PRIMARY JURISDICTION									
Operated in Canada	V	N	N	V	N	N	V	N	N
Operated in Mexico	V	N	N	V	N	N	V	N	N
Operated within the home base state	3 069.0	N	N	45 273.6	N	N	14.8	N	N
Operated in states other than the home base state	174.0	N	N	2 501.1	N	N	14.4	N	N
Not reported	290.8	N	N	4 032.1	N	N	13.9	N	N
Not applicable ²	47.5	N	N	V	N	N	V	N	N
MONTHS OPERATED									
12	2 517.3	N	N	39 590.5	N	N	15.7	N	N
7 to 11	506.7	N	N	7 407.1	N	N	14.6	N	N
2 to 6	473.3	N	N	4 629.1	N	N	9.8	N	N
1 or less	36.6	N	N	S	N	N	S	N	N
Vehicle not used	47.5	N	N	V	N	N	V	N	N
VEHICLE SIZE									
Light	3 442.4	2 595.5	32.6	48 440.1	36 506.4	32.7	14.1	14.1	V
Medium	29.5	45.6	-35.4	425.9	832.5	-48.8	14.5	18.2	-20.8
Light-heavy	29.2	19.8	47.1	413.2	344.7	19.9	14.2	17.4	-18.5
Heavy-heavy	80.3	73.6	9.1	2 527.7	2 755.2	-8.3	31.5	37.4	-15.9
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2 746.0	2 427.0	13.1	37 385.9	33 533.7	11.5	13.6	13.8	-1.5
6,001 to 8,500	621.6	N	N	9 828.1	N	N	15.8	N	N
8,501 to 10,000	74.8	N	N	1 226.0	N	N	16.4	N	N
10,001 to 14,000	18.5	28.7	-35.7	237.9	383.9	-38.0	12.9	13.4	-3.6
14,001 to 16,000	6.0	7.1	-15.6	99.4	81.1	22.6	16.7	11.5	45.3
16,001 to 19,500	5.1	9.9	-48.7	88.5	S	S	17.5	S	S
19,501 to 26,000	29.2	19.8	47.1	413.2	344.7	19.9	14.2	17.4	-18.5
26,001 to 33,000	14.0	11.6	20.6	235.1	195.2	20.4	16.8	16.8	-1
33,001 to 40,000	6.7	10.0	-32.5	98.6	197.4	-50.0	14.6	19.8	-25.9
40,001 to 50,000	12.1	12.3	-1.9	201.0	405.7	-50.4	16.7	33.0	-49.5
50,001 to 60,000	10.7	8.9	20.3	252.5	325.6	-22.4	23.7	36.7	-35.5
60,001 to 80,000	23.0	20.0	14.8	1 202.6	1 155.6	4.1	52.3	57.7	-9.3
80,001 to 100,000	5.1	3.5	45.1	112.4	108.1	4.0	22.1	30.8	-28.3
100,001 to 130,000	3.6	2.7	37.0	144.5	125.1	15.6	39.8	47.1	-15.6
130,001 or more	5.2	4.7	10.9	280.8	242.6	15.8	54.5	52.2	4.4
TOTAL LENGTH (FEET)									
Less than 20.0	2 966.9	2 597.9	14.2	41 052.7	36 696.3	11.9	13.8	14.1	-2.0
20.0 to 27.9	408.9	44.3	822.9	6 090.5	700.0	770.1	14.9	15.8	-5.7
28.0 to 35.9	122.4	35.9	240.9	2 146.4	592.8	262.1	17.5	16.5	6.2
36.0 to 40.9	39.3	6.7	482.4	615.4	103.5	494.8	15.7	15.3	2.1
41.0 to 44.9	4.5	S	S	79.3	S	S	17.7	S	S
45.0 to 49.9	6.5	3.5	86.6	146.9	59.5	146.7	22.6	17.1	32.2
50.0 to 54.9	3.8	3.3	16.0	70.9	99.2	-28.6	18.5	30.0	-38.4
55.0 to 59.9	7.7	10.7	-28.1	265.6	543.3	-51.1	34.6	50.9	-32.0
60.0 to 64.9	8.2	10.8	-24.6	380.4	665.4	-42.8	46.5	61.4	-24.2
65.0 to 69.9	7.5	7.5	-6	492.8	503.1	-2.0	65.9	66.8	-1.4
70.0 to 74.9	4.7	3.7	27.6	375.8	269.2	39.6	79.5	72.7	9.4
75.0 to 79.9	1.0	N	N	90.4	N	N	89.4	N	N
80.0 or more	V	N	N	V	N	N	V	N	N
MILES PER GALLON									
Less than 5	19.5	20.8	-5.9	542.9	579.3	-6.3	27.8	27.9	-4
5 to 6.9	36.4	42.5	-14.3	1 224.0	1 673.3	-26.9	33.6	39.4	-14.6
7 to 8.9	21.4	26.9	-20.5	457.5	606.0	-24.5	21.4	22.5	-5.0
9 to 10.9	176.0	219.7	-19.9	2 479.2	2 890.7	-14.2	14.1	13.2	7.0
11 to 12.9	246.8	270.6	-8.8	3 074.9	3 770.6	-18.5	12.5	13.9	-10.6
13 to 14.9	309.6	344.2	-10.0	4 762.8	4 745.5	4	15.4	13.8	11.6
15 or more	2 249.4	1 783.2	26.1	32 224.0	25 790.6	24.9	14.3	14.5	-1.0
15 to 20.9	1 762.6	1 392.2	26.6	24 428.9	20 619.8	18.5	13.9	14.8	-6.4
21 to 24.9	308.0	319.4	-3.6	5 320.1	4 351.7	22.3	17.3	13.6	26.8
25 or more	178.8	71.6	149.7	2 475.0	819.2	202.1	13.8	11.4	21.0
Not reported	474.8	26.7	1 675.3	7 041.7	382.7	1 739.8	14.8	14.3	3.6
Not applicable ²	47.5	N	N	V	N	N	V	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	1.1	N	N	35.5	N	N	33.1	N	N
2002	354.2	N	N	5 633.5	N	N	15.9	N	N
2001	449.3	N	N	7 228.5	N	N	16.1	N	N
2000	345.3	N	N	5 258.2	N	N	15.2	N	N
1999	313.7	N	N	6 270.2	N	N	20.0	N	N
1998	233.1	S	S	3 799.1	S	S	16.3	S	S
1997	219.1	219.1	4.9	4 154.9	3 506.7	18.5	18.1	16.0	12.9
1996	137.6	255.6	-46.2	2 177.0	4 877.0	-55.4	15.8	19.1	-17.1
1995	246.2	239.7	2.7	4 283.7	4 524.9	-5.3	17.4	18.9	-7.8
1994	216.7	264.5	-18.1	3 101.7	4 303.5	-27.9	14.3	16.3	-12.0
1993	156.4	197.5	-20.8	1 934.9	3 697.7	-47.7	12.4	18.7	-33.9
Pre-1993	898.0	1 548.1	-42.0	7 929.8	19 425.9	-59.2	8.8	12.5	-29.6
VEHICLE ACQUISITION									
New	1 609.5	1 020.6	57.7	24 959.1	16 559.7	50.7	15.5	16.2	-4.4
Used	1 771.0	1 412.8	25.4	24 237.6	18 455.8	31.3	13.7	13.1	4.8
Not reported	200.8	301.1	-33.3	2 610.1	5 423.3	-51.9	13.0	18.0	-27.8
LEASE CHARACTERISTICS									
Leased	422.4	N	N	6 904.5	N	N	16.3	N	N
Lessee	352.4	N	N	5 511.0	N	N	15.6	N	N
Vehicle only	9.1	N	N	278.0	N	N	30.4	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
Not applicable ⁴	343.1	N	N	5 228.3	N	N	15.2	N	N
Lessor	19.4	N	N	599.5	N	N	30.9	N	N
Vehicle only	11.2	N	N	483.4	N	N	43.0	N	N
Vehicle with driver	1.1	N	N	73.9	N	N	65.2	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ⁴	S	N	N	S	N	N	S	N	N
Not reported	50.6	N	N	794.0	N	N	15.7	N	N
Not leased	1 739.3	N	N	26 119.2	N	N	15.0	N	N
Not reported	1 419.6	N	N	18 783.2	N	N	13.2	N	N
Length of leasing agreement:									
Leased	422.4	N	N	6 904.5	N	N	16.3	N	N
1 to 11 months	9	N	N	51.8	N	N	54.7	N	N
12 months or more	21.0	N	N	800.5	N	N	38.2	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁴	400.4	N	N	6 040.1	N	N	15.1	N	N
Provisions of lease ⁵ :									
Financing only	13.8	N	N	468.5	N	N	34.1	N	N
Full maintenance	8.0	N	N	336.1	N	N	41.9	N	N
Payment of taxes	10.0	N	N	406.8	N	N	40.7	N	N
Obtaining licenses and permits	10.2	N	N	440.2	N	N	43.0	N	N
Recordkeeping	3.8	N	N	151.0	N	N	39.7	N	N
Fuel contract	1.3	N	N	49.7	N	N	37.4	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	501.1	N	N	9 325.9	N	N	18.6	N	N
Motor carrier	31.6	N	N	1 426.8	N	N	45.1	N	N
Owner operator	9.2	N	N	456.7	N	N	49.6	N	N
Rental	32.1	N	N	683.7	N	N	21.3	N	N
Personal transportation	2 959.8	N	N	39 913.7	N	N	13.5	N	N
Not applicable ²	47.5	N	N	V	N	N	V	N	N
For-hire characteristics:									
Type of carrier:									
Contract	14.9	N	N	886.5	N	N	59.5	N	N
Common	13.6	N	N	497.0	N	N	36.5	N	N
Not reported	5.2	N	N	141.1	N	N	27.3	N	N
Not applicable ⁶	3 547.7	N	N	50 282.3	N	N	14.2	N	N
Type of service:									
Truckload	20.2	13.4	51.0	1 169.3	929.8	25.7	57.9	69.5	-16.7
Less-than truckload	8.6	4.3	100.6	229.1	241.7	-5.2	26.6	56.4	-52.7
Not reported	4.9	N	N	126.2	N	N	26.0	N	N
Not applicable ⁶	3 547.7	N	N	50 282.3	N	N	14.2	N	N
Source of hauls:									
Shippers or receivers	22.7	N	N	1 097.0	N	N	48.4	N	N
Brokers	3.0	N	N	200.0	N	N	67.5	N	N
Centralized markets or exchanges	1.0	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	7.0	N	N	208.7	N	N	29.6	N	N
Not applicable ⁶	3 547.7	N	N	50 282.3	N	N	14.2	N	N
HAZARDOUS MATERIALS CARRIED⁷									
Carrying hazardous materials	6.3	7.3	-13.4	275.6	312.6	-11.9	43.7	42.9	1.8
Not carrying hazardous materials	122.3	144.8	-15.5	2 630.4	3 583.4	-26.6	21.5	24.8	-13.2
Not reported	15.6	18.7	-16.4	332.4	322.6	3.0	21.3	17.3	23.3
Not applicable ⁸	3 437.1	N	N	48 568.5	N	N	14.1	N	N
EQUIPMENT TYPE^{5 9}									
Aerial work platform/bucket	3.9	N	N	42.9	N	N	11.1	N	N
Air bag(s) (safety device only)	2 327.6	863.5	169.5	37 694.5	14 572.0	158.7	16.2	16.9	-4.0
Air compressor (except air brakes)	9.0	N	N	341.8	N	N	38.0	N	N
Air-conditioning	2 944.3	1 883.7	56.3	45 325.8	30 022.8	51.0	15.4	15.9	-3.4
Air springs	22.3	N	N	1 026.7	N	N	46.1	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	1997 trucks	Percent change	2002 truck	1997 truck	Percent change	2002 average	1997 average	Percent change
	(thousands)	(thousands)		miles (millions)	miles (millions)		miles per truck (thousands)	miles per truck (thousands)	
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE^{5 9}—Con.									
Antilock brake system	2 406.0	1 271.1	89.3	38 288.9	21 417.5	78.8	15.9	16.8	-5.6
Collision warning system	1.5	N	N	50.3	N	N	34.5	N	N
Computerized drive train control unit	461.5	N	N	7 597.7	N	N	16.5	N	N
Crane	3.1	N	N	62.9	N	N	20.0	N	N
Electronic vehicle identification device	1.3	2.5	-46.3	116.7	179.8	-35.1	88.6	73.2	21.0
Engine retarder/brake	21.9	15.8	38.8	1 230.4	925.2	33.0	56.2	58.7	-4.2
Front-wheel drive	1 625.5	575.0	182.7	24 795.1	8 901.7	178.5	15.3	15.5	-1.5
Hoist	18.6	N	N	179.9	N	N	9.7	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	4.2	N	N	234.4	N	N	56.3	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	10.1	N	N	215.9	N	N	21.3	N	N
Mounting bar for snowplow	138.0	N	N	1 870.8	N	N	13.6	N	N
Navigational system .....	.8	1.0	-14.9	S	83.3	S	S	86.1	S
Power take-off	43.9	N	N	888.7	N	N	20.3	N	N
Radial tires	2 335.6	2 196.4	6.3	34 632.3	32 963.4	5.1	14.8	15.0	-1.2
Reflective material in addition to those required by law	26.6	34.5	-22.9	698.7	1 279.4	-45.4	26.3	37.1	-29.2
Road speed governor	36.5	44.8	-18.5	1 309.2	1 727.6	-24.2	35.9	38.6	-7.0
Toolbox	259.2	N	N	4 188.5	N	N	16.2	N	N
Trip recorder or on-board computer with communication capabilities	191.2	N	N	3 376.3	N	N	17.7	N	N
Trip recorder or on-board computer without communication capabilities	718.1	N	N	10 418.2	N	N	14.5	N	N
Vehicle control aids for handicapped drivers	V	S	S	V	S	S	V	S	S
Wheelchair lift	V	S	S	V	S	S	V	S	S
Winch	21.1	N	N	S	N	N	S	N	N
Transmission type:									
Automatic	3 082.3	N	N	44 499.9	N	N	14.4	N	N
Manual	410.5	N	N	5 925.5	N	N	14.4	N	N
Semiautomated manual	S	N	N	38.9	N	N	S	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	80.2	N	N	1 314.6	N	N	16.4	N	N
Braking system:									
Hydraulic (standard)	49.8	33.5	48.6	670.5	429.6	56.1	13.5	12.8	5.0
Hydraulic with power assist	32.8	44.7	-26.7	483.4	700.6	-31.0	14.8	15.7	-5.8
Air	71.9	69.6	3.4	2 292.1	2 696.9	-15.0	31.9	38.8	-17.8
Other	V	2.3	N	V	28.3	N	V	12.5	N
Not reported	11.5	N	N	261.6	N	N	22.7	N	N
Not applicable ¹⁰	3 415.4	N	N	48 099.4	N	N	14.1	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	3 340.1	2 563.6	30.3	47 292.8	36 071.1	31.1	14.2	14.1	.6
Diesel	185.9	163.6	13.7	4 387.9	4 236.0	3.6	23.6	25.9	-8.9
Natural gas	V	N	N	V	N	N	V	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	V	N	N	V	N	N	V	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ²	47.5	N	N	V	N	N	V	N	N
Cylinders ¹¹ :									
4 cylinders	280.5	223.8	25.3	3 188.5	2 896.9	10.1	11.4	12.9	-12.2
6 cylinders	1 823.7	1 438.9	26.7	28 280.2	23 209.2	21.8	15.5	16.1	-3.9
8 cylinders	1 462.8	1 039.2	40.8	20 213.0	13 959.9	44.8	13.8	13.4	2.9
Other	14.4	32.6	-55.9	125.2	372.8	-66.4	8.7	11.4	-23.9
Cubic inch displacement ¹¹ :									
Gasoline fuel:									
Less than 200	3 340.1	2 563.6	30.3	47 292.8	36 071.1	31.1	14.2	14.1	.6
200 to 299	621.1	572.0	8.6	7 726.9	7 538.5	2.5	12.4	13.2	-5.6
300 to 349	1 483.4	872.5	70.0	22 748.9	13 968.8	62.9	15.3	16.0	-4.2
350 to 399	592.8	536.4	10.5	8 107.3	6 851.5	18.3	13.7	12.8	7.1
400 or more	595.4	497.8	19.6	8 498.0	6 618.0	28.4	14.3	13.3	7.3
Not available	39.2	38.7	1.4	172.7	593.4	-70.9	4.4	15.3	-71.3
Diesel fuel:									
Less than 400	8.2	46.2	-82.3	39.0	S	S	4.8	S	S
400 to 599	185.9	163.6	13.7	4 387.9	4 236.0	3.6	23.6	25.9	-8.9
600 to 799	27.7	47.0	-41.1	400.1	743.1	-46.2	14.5	15.8	-8.6
800 or more	102.7	62.1	65.5	1 802.2	1 023.5	76.1	17.6	16.5	6.4
Not available	21.4	16.8	27.0	862.4	762.7	13.1	40.4	45.4	-11.0
Other fuel:									
Less than 400	23.0	26.1	-11.9	941.0	1 341.7	-29.9	40.9	51.4	-20.4
400 or more	11.2	11.6	-3.5	382.3	365.0	4.7	34.1	31.4	8.5
Not available	S	S	S	S	S	S	S	S	S
Not reported	S	S	S	S	S	S	S	S	S
Not applicable ²	47.5	N	N	V	N	N	V	N	N
REFUELING LOCATION									
Gas station	3 278.1	N	N	46 700.5	N	N	14.2	N	N
Truck stop	46.6	N	N	1 442.7	N	N	31.0	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	70.4	N	N	1 242.1	N	N	17.6	N	N
Other company's/contractor's facility not open to the public	26.8	N	N	787.3	N	N	29.4	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	111.9	N	N	1 634.3	N	N	14.6	N	N
Not applicable ²	47.5	N	N	V	N	N	V	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁵									
General maintenance performed by:									
None performed	45.8	41.1	11.4	S	616.2	S	S	15.0	S
Company-owned maintenance facility	287.2	150.1	91.4	5 982.3	3 515.1	70.2	20.8	23.4	-11.1
General repair business or private mechanic	1 650.4	966.5	70.8	25 117.9	14 811.0	69.6	15.2	15.3	-7
Dealership service department	992.5	700.0	41.8	15 131.6	10 868.9	39.2	15.2	15.5	-1.8
Leasing company	S	24.8	S	249.9	557.1	-55.1	S	22.4	S
Individual not employed/paid by any maintenance type facility									
Other	1 256.3	1 258.4	-2	17 180.5	16 422.3	4.6	13.7	13.0	4.8
Not reported	V	27.7	N	V	538.9	N	V	19.4	N
Not applicable ²	126.3	90.8	39.2	1 770.8	1 401.3	26.4	14.0	15.4	-9.2
Not applicable ²	47.5	N	N	V	N	N	V	N	N
Extensive repairs performed by:									
None performed	2 884.6	120.5	2 294.1	41 946.6	1 824.3	2 199.3	14.5	15.1	-4.0
Company-owned maintenance facility	25.7	74.3	-65.4	S	1 792.9	S	S	24.1	S
General repair business or private mechanic	235.4	474.8	-50.4	3 858.1	7 606.1	-49.3	16.4	16.0	2.3
Dealership service department	158.8	520.3	-69.5	2 449.0	9 278.2	-73.6	15.4	17.8	-13.5
Leasing company	V	1.2	N	V	64.9	N	V	55.1	N
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	S	73.8	S	S	1 675.2	S	S	22.7	S
Other	169.0	178.1	-5.1	2 375.7	1 724.9	37.7	14.1	9.7	45.1
Not reported	V	S	S	V	S	S	V	S	S
Not applicable ²	S	1 406.0	S	S	18 736.3	S	S	13.3	S
Not applicable ²	47.5	N	N	V	N	N	V	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	3 480.8	2 658.7	30.9	49 152.4	37 772.5	30.1	14.1	14.2	-6
3 axles	3 461.0	2 640.7	31.1	48 858.9	37 506.7	30.3	14.1	14.2	-6
4 axles	11.8	12.0	-1.3	155.5	160.8	-3.3	13.2	13.4	-2.0
5 axles or more	3.8	6.1	-37.3	70.6	105.0	-32.8	18.5	17.3	7.1
Not reported	4.0	N	N	66.5	N	N	16.7	N	N
Not reported	S	V	S	S	V	N	S	V	S
Combinations									
Single-unit trucks with trailer	100.6	75.8	32.8	2 654.5	2 666.3	-4	26.4	35.2	-25.0
3 axles	60.5	33.8	78.8	701.2	413.3	69.7	11.6	12.2	-5.1
4 axles	S	S	S	55.5	68.6	-19.1	S	S	S
5 axles or more	33.3	15.6	113.9	576.0	S	S	17.3	S	S
Not reported	3.5	3.3	4.7	66.3	65.7	.9	18.9	19.6	-3.6
Not reported	S	N	N	S	N	N	S	N	N
Truck-tractors with single trailer	36.3	37.7	-3.6	1 746.5	2 052.2	-14.9	48.1	54.5	-11.7
3 axles	1.7	1.7	3.3	42.9	27.7	54.7	25.1	16.8	49.7
4 axles	3.4	5.1	-32.7	77.4	198.2	-61.0	22.7	39.1	-42.0
5 axles or more	27.0	31.0	-12.9	1 401.9	1 826.2	-23.2	52.0	59.0	-11.9
Not reported	4.2	N	N	224.3	N	N	53.2	N	N
Truck-tractors with double trailers	3.8	4.2	-9.3	206.7	199.1	3.8	53.9	47.1	14.5
5 axles	S	V	S	S	V	S	S	V	S
6 axles	S	.2	S	S	S	S	S	S	S
7 axles	V	.7	N	V	27.2	N	V	37.9	N
8 axles or more	3.5	3.3	5.4	184.9	163.7	13.0	53.5	49.9	7.2
Not reported .....	.2	N	N	S	N	N	S	N	N
Truck-tractors with triple trailers	V	S	S	V	S	S	V	S	S
7 axles	V	V	N	V	V	N	V	V	N
8 axles	V	S	S	V	S	S	V	S	S
9 axles	V	V	N	V	V	N	V	V	N
10 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	V	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Driving axles:									
1	1 893.6	1 575.2	20.2	24 813.6	22 666.5	9.5	13.1	14.4	-8.9
2	1 685.4	1 155.4	45.9	26 951.9	17 560.2	53.5	16.0	15.2	5.2
3 or more	2.2	4.0	-43.3	35.8	212.1	-83.1	16.0	53.6	-70.2
Not reported	S	V	S	S	V	S	S	V	S
Total liftable axles and locations ¹² :									
None	154.8	57.9	167.3	3 471.5	1 454.3	138.7	22.4	25.1	-10.7
1	6.0	6.3	-4.1	121.3	121.3	.1	20.2	19.4	4.4
Forward of the drive axle	4.2	N	N	90.1	N	N	21.6	N	N
Below the chassis .....	.9	N	N	16.6	N	N	18.9	N	N
Beyond the chassis	V	N	N	V	N	N	V	N	N
Not reported .....	.9	N	N	14.6	N	N	15.6	N	N
2 or more	4.6	3.4	36.9	101.2	86.9	16.5	21.9	25.8	-14.9
Forward of the drive axle	4.2	N	N	87.2	N	N	20.9	N	N
Below the chassis	3.9	N	N	85.2	N	N	21.7	N	N
Beyond the chassis .....	.2	N	N	S	N	N	S	N	N
Not reported .....	.2	N	N	S	N	N	S	N	N
Not reported .....	.5	N	N	S	N	N	S	N	N
Not applicable ¹⁰	3 415.4	N	N	48 099.4	N	N	14.1	N	N
Total liftable axles and number of braking axles:									
None	154.8	57.9	167.3	3 471.5	1 454.3	138.7	22.4	25.1	-10.7
1	6.0	6.3	-4.1	121.3	121.3	.1	20.2	19.4	4.4
0 braking .....	.6	N	N	13.4	N	N	21.6	N	N
1 braking	4.7	N	N	77.2	N	N	16.5	N	N
Not reported .....	.7	N	N	S	N	N	S	N	N
2 or more	4.6	3.4	36.9	101.2	86.9	16.5	21.9	25.8	-14.9
0 braking	S	N	N	S	N	N	S	N	N
1 braking	S	N	N	S	N	N	S	N	N
2 or more braking	4.3	N	N	93.3	N	N	21.7	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported .....	.5	N	N	S	N	N	S	N	N
Not applicable ¹⁰	3 415.4	N	N	48 099.4	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	148.3	122.5	21.1	3 377.6	3 346.3	.9	22.8	27.3	-16.6
With sleeper	13.6	N	N	997.3	N	N	73.3	N	N
Without sleeper	133.1	N	N	2 296.3	N	N	17.2	N	N
Not reported	1.6	N	N	84.0	N	N	53.6	N	N
Cab over engine	16.0	18.7	-14.4	304.4	396.7	-23.3	19.0	21.2	-10.3
With sleeper	2.7	N	N	79.3	N	N	29.4	N	N
Without sleeper	13.1	N	N	221.9	N	N	16.9	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	1.6	5.0	-69.1	25.3	98.8	-74.4	16.3	19.6	-17.1
Cab beside engine	V	S	S	V	S	S	V	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹⁰	3 415.4	N	N	48 099.4	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 .....	.8	.8	1.5	3.1	2.6	5.1	2.9	2.5	3.8
BUSINESS									
For-hire transportation or warehousing	27.4	21.2	42.5	23.8	19.0	24.6	19.0	4.5	12.9
Vehicle leasing or rental	39.0	48.3	207.1	24.3	49.8	100.0	16.3	7.2	9.6
Agriculture, forestry, fishing, or hunting	27.4	19.8	21.1	39.4	23.2	31.6	23.6	11.4	29.2
Mining	26.4	29.2	28.7	38.5	34.9	50.3	27.4	25.1	49.3
Utilities	44.3	41.4	150.4	S	25.2	S	S	22.7	S
Construction	16.0	12.6	20.6	20.1	15.4	24.9	11.3	7.5	13.2
Manufacturing	39.8	28.3	40.6	45.4	21.2	49.2	19.6	14.3	28.6
Wholesale trade	43.9	28.5	27.2	28.9	30.3	23.1	17.9	14.2	24.3
Retail trade	36.2	24.1	25.4	40.0	27.1	20.8	19.0	13.2	17.1
Information services	41.5	N	N	46.9	N	N	24.8	N	N
Waste management, landscaping, or administrative/support services	41.2	N	N	41.5	N	N	30.4	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	33.2	N	N	34.6	N	N	30.1	N	N
Other services	31.2	N	N	36.7	N	N	17.5	N	N
Personal transportation	2.0	2.2	4.2	3.8	3.5	7.5	3.2	2.8	4.4
Not reported	S	N	S	36.9	N	N	S	N	S
Not applicable ¹	36.4	37.1	83.7	N	S	S	N	S	S
BODY TYPE									
Single-unit trucks .....	.8	.8	1.5	3.2	2.7	5.5	3.1	2.6	4.0
Pickup	1.3	1.6	2.6	5.6	4.8	9.8	5.4	4.6	7.7
Minivan	9.0	7.5	14.2	11.6	8.9	16.4	7.4	4.7	8.1
Other light vans	16.3	12.4	20.0	20.7	15.7	19.3	12.8	9.5	12.1
Sport utility	5.5	6.3	14.3	7.2	8.1	18.8	4.7	5.1	7.0
Armored	S	N	N	N	N	N	S	N	N
Beverage	40.1	S	S	43.6	S	S	15.9	S	S
Concrete mixer	13.3	16.5	36.8	15.7	19.0	48.9	7.5	8.3	12.8
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	S	24.5	S	S	27.0	S	S	22.4	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	7.1	9.4	17.1	11.1	11.4	19.8	9.0	8.7	10.7
Flatbed, stake, or platform	6.6	6.4	7.8	9.9	9.2	9.5	7.5	7.1	8.5
Low boy	S	40.3	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe	28.0	49.5	267.3	31.7	S	S	24.3	S	S
Service, utility	16.5	22.2	42.5	23.1	25.9	79.2	16.1	15.2	32.8
Service, other	29.0	24.4	19.7	39.2	31.7	22.1	25.9	20.4	27.7
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	S	S	S	S	S	S	S	S	S
Tank, liquids or gases	23.4	18.6	17.6	43.3	35.8	32.6	34.7	30.0	45.2
Tow/Wrecker	22.2	23.1	30.4	27.7	33.5	26.1	16.9	27.0	18.5
Trash, garbage, or recycling	16.0	19.3	18.6	18.3	17.8	25.6	11.4	12.7	23.1
Vacuum	34.9	N	N	43.8	N	N	26.5	N	N
Van, basic enclosed	8.7	11.6	18.8	12.1	16.0	19.3	8.4	9.8	9.5
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	29.0	39.1	93.2	37.9	42.2	122.4	23.7	20.5	35.3
Van, open top	27.9	24.2	18.0	32.5	27.4	17.3	20.4	14.6	21.0
Van, step, walk-in, or multistop	9.9	11.8	16.4	12.0	17.8	19.8	7.1	12.5	12.4
Van, other	18.2	N	N	23.6	N	N	15.1	N	N
Other	N	N	N	N	N	N	N	N	N
Truck-tractors	2.6	2.0	3.2	3.8	3.5	4.5	3.6	2.8	4.1
Automobile carrier	29.8	27.3	37.7	32.5	31.8	47.1	13.1	16.3	23.2
Beverage	24.0	23.1	57.5	33.1	26.5	125.7	26.9	12.9	51.2
Curtainside	44.2	N	N	45.0	N	N	8.6	N	N
Dump	8.7	10.9	23.1	12.0	14.3	26.1	9.2	8.9	10.8
Flatbed, stake, or platform	10.2	8.2	10.8	14.0	10.9	10.6	10.2	7.1	9.0
Livestock	44.2	40.3	55.3	49.2	S	S	21.6	S	S
Low boy	19.3	14.1	17.4	32.6	20.5	20.4	28.4	14.9	23.3
Mobile home toter	N	N	N	N	N	N	N	N	N
Open top	25.4	21.9	27.8	35.4	45.1	114.3	24.7	39.5	112.0
Pole, logging, pulpwood, or pipe	40.4	40.3	62.8	S	43.2	S	S	15.5	S
Tank, dry bulk	27.3	42.6	57.3	29.5	42.5	76.2	11.2	10.5	20.0
Tank, liquids or gases	17.0	18.1	31.1	22.6	21.2	34.3	14.8	11.1	16.3
Van, basic enclosed	6.2	5.2	7.2	7.2	6.3	8.2	4.8	3.7	5.8
Van, drop-frame	39.8	23.8	30.3	46.6	28.3	30.9	34.4	15.3	32.7
Van, insulated nonrefrigerated	37.4	49.5	119.7	41.5	S	S	17.9	S	S
Van, insulated refrigerated	14.8	11.8	13.5	17.6	14.6	19.8	9.6	8.6	15.6
Other	N	N	N	N	N	N	N	N	N
Not applicable ²	43.0	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	11.5	9.7	17.3	13.9	12.5	23.6	7.5	8.2	12.2
5,000 to 9,999	10.1	8.7	16.2	10.3	8.9	16.8	2.2	2.0	3.0
10,000 to 19,999	4.6	4.6	9.7	4.7	4.8	9.8	1.2	1.2	1.6
20,000 to 29,999	10.8	8.5	14.3	10.8	8.6	13.9	1.2	1.1	1.6
30,000 to 49,999	16.5	14.2	26.7	16.5	14.3	25.5	2.0	2.1	2.8
50,000 to 74,999	30.9	28.7	86.3	31.3	27.8	86.7	4.9	3.0	5.8
75,000 or more	6.8	6.7	9.0	6.8	6.6	8.8	1.9	1.7	2.6
Not applicable ¹	36.4	41.3	108.0	N	N	N	N	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	S	23.4	S	S	30.6	S	S	21.0	S
50 miles or less	3.0	2.3	4.5	4.6	3.6	7.1	3.5	2.9	4.6
51 to 100 miles	13.6	10.5	16.8	16.3	11.8	20.3	9.7	6.2	11.8
101 to 200 miles	24.1	20.3	37.1	24.2	19.7	26.8	14.2	10.3	12.8
201 to 500 miles	33.9	24.0	35.8	41.6	22.9	31.6	29.9	12.9	25.2
501 miles or more	26.5	26.6	65.4	26.5	17.4	44.4	16.2	15.0	17.7
Not reported	11.7	41.3	776.7	12.4	N	N	5.0	N	N
Not applicable ¹	36.4	N	N	N	N	N	N	N	N
PRIMARY JURISDICTION									
Operated in Canada	N	N	N	N	N	N	N	N	N
Operated in Mexico	N	N	N	N	N	N	N	N	N
Operated within the home base state	2.0	N	N	3.7	N	N	3.2	N	N
Operated in states other than the home base state	19.2	N	N	19.3	N	N	12.6	N	N
Not reported	14.7	N	N	15.4	N	N	6.3	N	N
Not applicable ¹	36.4	N	N	N	N	N	N	N	N
MONTHS OPERATED									
12	2.9	N	N	4.3	N	N	3.2	N	N
7 to 11	10.6	N	N	12.8	N	N	7.8	N	N
2 to 6	11.1	N	N	15.1	N	N	10.1	N	N
1 or less	38.9	N	N	S	N	N	S	N	N
Vehicle not used	36.4	N	N	N	N	N	N	N	N
VEHICLE SIZE									
Light .....	.9	.9	1.6	3.3	2.8	5.7	3.1	2.7	4.1
Medium	6.8	20.2	13.8	9.8	35.0	18.6	7.1	26.5	21.7
Light-heavy	6.9	9.7	17.6	11.9	18.5	26.3	9.7	14.8	14.4
Heavy-heavy	2.3	2.6	3.8	3.3	3.2	4.2	3.3	3.1	3.8
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2.4	1.3	3.1	4.3	3.1	5.9	3.5	2.8	4.4
6,001 to 8,500	9.6	N	N	12.2	N	N	7.4	N	N
8,501 to 10,000	28.1	N	N	32.5	N	N	15.0	N	N
10,001 to 14,000	9.2	27.8	18.9	13.1	24.0	16.9	9.4	19.6	20.9
14,001 to 16,000	16.6	16.8	20.0	20.0	19.4	34.2	11.2	10.5	22.3
16,001 to 19,500	17.9	46.2	25.4	26.0	S	S	18.8	S	S
19,501 to 26,000	6.9	9.7	17.6	11.9	18.5	26.3	9.7	14.8	14.4
26,001 to 33,000	10.4	12.0	19.1	16.6	19.0	30.4	13.2	14.7	19.8
33,001 to 40,000	13.5	11.1	11.8	18.5	14.1	11.6	12.6	12.2	13.0
40,001 to 50,000	8.6	7.9	11.4	12.6	11.9	8.6	10.6	8.8	7.0
50,001 to 60,000	7.9	8.1	13.6	12.0	10.8	12.5	9.5	7.8	7.9
60,001 to 80,000	4.1	4.4	6.9	6.0	5.8	8.7	4.5	4.0	5.5
80,001 to 100,000	10.6	12.7	23.9	17.1	16.7	24.8	13.5	10.5	12.2
100,001 to 130,000	12.7	14.9	26.8	16.9	17.6	28.2	11.1	10.2	12.7
130,001 or more	10.4	11.7	17.4	11.8	13.1	20.4	5.6	6.2	8.7
TOTAL LENGTH (FEET)									
Less than 20.0	2.0	.9	2.5	3.9	2.8	5.4	3.4	2.7	4.3
20.0 to 27.9	11.7	5.7	120.0	14.4	11.0	157.5	8.2	8.8	11.3
28.0 to 35.9	20.9	24.9	110.9	24.9	26.8	132.5	13.5	22.9	28.3
36.0 to 40.9	36.0	14.6	226.3	33.1	17.3	222.0	18.3	11.0	21.8
41.0 to 44.9	15.9	S	S	21.8	S	S	20.2	S	S
45.0 to 49.9	12.6	14.8	36.3	16.5	19.5	63.1	13.4	16.5	28.1
50.0 to 54.9	15.4	15.4	25.2	24.0	18.5	21.7	21.2	14.4	15.8
55.0 to 59.9	9.9	7.0	8.7	13.3	8.4	7.7	10.3	5.3	7.9
60.0 to 64.9	8.3	7.6	8.5	9.9	8.9	7.6	6.1	4.7	5.8
65.0 to 69.9	8.5	8.3	11.8	10.1	9.7	13.7	5.7	5.4	7.7
70.0 to 74.9	11.4	11.8	20.9	12.9	14.4	27.0	7.4	8.3	12.1
75.0 to 79.9	24.4	N	N	29.1	N	N	15.9	N	N
80.0 or more	N	N	N	N	N	N	N	N	N
MILES PER GALLON									
Less than 5	6.1	6.7	8.6	8.8	8.4	11.5	7.3	7.2	10.2
5 to 6.9	4.7	4.5	5.6	6.2	5.1	5.9	5.4	4.6	6.1
7 to 8.9	7.8	7.7	8.7	10.6	11.4	11.7	8.6	8.8	11.7
9 to 10.9	18.0	12.8	17.7	24.0	17.3	25.4	15.9	12.0	21.3
11 to 12.9	15.8	11.9	18.1	19.4	15.8	20.4	11.4	10.4	13.8
13 to 14.9	14.3	10.6	16.0	18.1	13.7	22.8	11.1	8.7	15.8
15 or more	3.3	2.9	5.6	5.1	4.0	8.1	3.9	2.9	4.8
15 to 20.9	4.5	3.9	7.6	6.2	5.0	9.4	4.2	3.2	4.9
21 to 24.9	14.4	11.1	17.5	18.1	13.6	27.6	11.0	7.8	17.1
25 or more	19.4	24.6	78.2	23.9	27.7	110.7	14.0	13.0	23.1
Not reported	11.1	24.5	476.9	12.0	14.5	347.0	5.6	26.5	28.1
Not applicable ¹	36.4	N	N	N	N	N	N	N	N

See footnotes at end of table.

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

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

Vehicle and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	31.5	N	N	31.8	N	N	14.4	N	N
2002	13.4	N	N	15.6	N	N	8.2	N	N
2001	11.7	N	N	13.2	N	N	6.6	N	N
2000	13.4	N	N	14.3	N	N	7.1	N	N
1999	14.1	N	N	15.9	N	N	8.3	N	N
1998	16.5	S	S	20.7	S	S	13.5	S	S
1997	16.7	13.5	22.5	17.9	13.7	26.7	7.2	5.1	10.0
1996	21.6	12.4	13.4	23.0	13.4	11.9	10.2	6.4	10.0
1995	16.1	12.6	21.0	19.1	12.8	21.7	11.0	5.1	11.2
1994	17.1	12.1	17.1	20.0	13.4	17.4	11.1	7.5	11.8
1993	20.4	14.2	19.7	21.5	15.9	14.0	9.1	8.4	8.2
Pre-1993	7.3	3.5	4.7	11.1	5.2	5.0	8.5	3.9	6.6
VEHICLE ACQUISITION									
New	4.9	5.1	11.2	6.0	6.2	13.0	3.8	3.9	5.2
Used	4.5	3.8	7.4	6.6	5.5	11.3	4.9	4.0	6.6
Not reported	18.0	11.1	14.1	18.8	11.3	10.5	7.3	4.3	6.1
LEASE CHARACTERISTICS									
Leased	11.9	N	N	11.8	N	N	4.5	N	N
Lessee	13.3	N	N	14.0	N	N	5.3	N	N
Vehicle only	11.7	N	N	13.9	N	N	10.2	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	13.6	N	N	14.7	N	N	5.5	N	N
Lessor	36.8	N	N	11.6	N	N	29.9	N	N
Vehicle only	10.1	N	N	10.9	N	N	8.0	N	N
Vehicle with driver	23.1	N	N	25.9	N	N	11.8	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ³	S	N	N	S	N	N	S	N	N
Not reported	37.1	N	N	37.2	N	N	7.6	N	N
Not leased	4.6	N	N	6.3	N	N	4.5	N	N
Not reported	5.4	N	N	7.3	N	N	4.9	N	N
Length of leasing agreement:									
Leased	11.9	N	N	11.8	N	N	4.5	N	N
1 to 11 months	30.3	N	N	31.6	N	N	20.3	N	N
12 months or more	7.2	N	N	8.1	N	N	6.1	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ³	12.5	N	N	13.5	N	N	5.0	N	N
Provisions of lease:									
Financing only	9.3	N	N	10.5	N	N	7.5	N	N
Full maintenance	12.1	N	N	13.3	N	N	9.5	N	N
Payment of taxes	11.1	N	N	11.8	N	N	8.5	N	N
Obtaining licenses and permits	10.9	N	N	11.7	N	N	8.6	N	N
Recordkeeping	19.7	N	N	21.7	N	N	14.7	N	N
Fuel contract	33.8	N	N	32.9	N	N	19.7	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	9.9	N	N	12.7	N	N	7.4	N	N
Motor carrier	23.2	N	N	25.7	N	N	4.9	N	N
Owner operator	10.0	N	N	10.7	N	N	8.3	N	N
Rental	38.6	N	N	24.0	N	N	16.1	N	N
Personal transportation	2.0	N	N	3.8	N	N	3.2	N	N
Not applicable ¹	36.4	N	N	N	N	N	N	N	N
For-hire characteristics:									
Type of carrier:									
Contract	7.8	N	N	8.0	N	N	5.7	N	N
Common	8.8	N	N	9.8	N	N	7.7	N	N
Not reported	15.5	N	N	19.9	N	N	16.3	N	N
Not applicable ⁴ .....	.8	N	N	3.2	N	N	3.0	N	N
Type of service:									
Truckload	6.0	7.8	14.8	6.6	7.8	12.9	5.0	4.6	5.7
Less-than truckload	13.0	15.3	40.2	14.3	14.8	19.5	8.3	11.8	6.8
Not reported	16.3	N	N	21.2	N	N	17.1	N	N
Not applicable ⁴ .....	.8	N	N	3.2	N	N	3.0	N	N
Source of hauls:									
Shippers or receivers	6.6	N	N	7.1	N	N	5.5	N	N
Brokers	15.9	N	N	17.1	N	N	9.5	N	N
Centralized markets or exchanges	36.4	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	12.1	N	N	14.2	N	N	11.4	N	N
Not applicable ⁴ .....	.8	N	N	3.2	N	N	3.0	N	N
HAZARDOUS MATERIALS CARRIED⁵									
Carrying hazardous materials	13.1	13.6	16.3	14.8	16.0	19.2	11.1	12.4	17.0
Not carrying hazardous materials	1.9	1.7	2.2	3.6	3.2	3.5	3.3	2.9	3.8
Not reported	9.2	10.3	11.5	11.9	14.2	19.0	9.7	8.9	16.3
Not applicable ⁶ .....	.9	N	N	3.3	N	N	3.1	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	20.6	N	N	24.2	N	N	15.2	N	N
Air bag(s) (safety device only)	3.1	5.7	17.5	4.6	6.4	20.3	3.4	3.4	4.6
Air compressor (except air brakes)	10.2	N	N	12.2	N	N	9.3	N	N
Air-conditioning	2.1	2.5	5.1	3.6	3.4	7.5	3.0	2.6	3.8
Air springs	5.3	N	N	6.5	N	N	4.8	N	N
Antilock brake system	3.1	4.3	10.0	4.3	5.1	11.9	3.1	3.0	4.0
Collision warning system	33.2	N	N	34.6	N	N	19.2	N	N
Computerized drive train control unit	11.6	N	N	13.9	N	N	7.9	N	N
Crane	19.6	N	N	24.8	N	N	14.6	N	N
Electronic vehicle identification device	21.4	18.8	15.3	24.4	18.1	19.7	11.5	14.8	22.7
Engine retarder/brake	4.7	6.6	11.2	5.9	7.1	12.3	4.4	5.4	6.7
Front-wheel drive	4.9	7.6	25.4	6.4	8.9	30.5	4.1	4.8	6.2
Hoist	8.1	N	N	12.8	N	N	10.3	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	15.0	N	N	16.6	N	N	10.8	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	12.5	N	N	16.8	N	N	10.9	N	N
Mounting bar for snowplow	21.6	N	N	29.9	N	N	20.4	N	N
Navigational system	42.7	23.8	41.6	S	27.3	S	S	13.3	S
Power take-off	4.5	N	N	6.1	N	N	5.3	N	N
Radial tires	3.3	2.1	4.1	4.9	3.3	6.2	3.8	2.6	4.5
Reflective material in addition to those required by law	6.3	5.7	6.6	7.8	6.6	5.6	6.4	5.5	6.0
Road speed governor	5.1	4.5	5.5	5.8	4.8	5.7	4.8	4.3	6.0
Toolbox	14.7	N	N	16.1	N	N	8.3	N	N
Trip recorder or on-board computer with communication capabilities	18.5	N	N	23.8	N	N	15.7	N	N
Trip recorder or on-board computer without communication capabilities	8.9	N	N	10.5	N	N	5.7	N	N
Vehicle control aids for handicapped drivers	N	S	S	N	S	S	N	S	S
Wheelchair lift	N	S	S	N	S	S	N	S	S
Winch	48.4	N	N	S	N	N	S	N	N
Transmission type:									
Automatic	1.8	N	N	3.8	N	N	3.3	N	N
Manual	10.8	N	N	10.0	N	N	6.7	N	N
Semiautomated manual	S	N	N	45.8	N	N	S	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	27.9	N	N	26.5	N	N	5.5	N	N
Braking system:									
Hydraulic (standard)	4.6	6.9	12.3	7.8	11.3	21.4	6.3	9.1	11.6
Hydraulic with power assist	6.4	5.8	6.3	10.5	10.2	10.1	8.5	8.3	11.2
Air	2.5	2.6	3.7	3.6	3.3	4.1	3.5	3.1	3.8
Other	N	30.8	N	N	37.2	N	N	24.1	N
Not reported	11.0	N	N	12.5	N	N	8.9	N	N
Not applicable ⁹ .....	.9	N	N	3.3	N	N	3.2	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	1.2	1.1	2.1	3.4	2.9	5.8	3.2	2.7	4.2
Diesel	12.5	10.8	18.8	9.6	8.3	13.1	6.3	8.3	9.5
Natural gas	N	N	N	N	N	N	N	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	N	N	N	N	N	N	N	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ¹	36.4	N	N	N	N	N	N	N	N
Cylinders ⁹ :									
4 cylinders	15.2	13.3	25.3	18.1	16.1	26.6	9.9	9.3	11.9
6 cylinders	4.0	3.6	6.9	5.5	4.5	8.6	4.1	3.1	4.9
8 cylinders	4.9	4.9	9.8	6.9	6.8	14.1	4.7	4.6	6.8
Other	8.6	24.1	11.3	14.8	46.7	16.4	13.2	38.2	30.8
Cubic inch displacement ⁹ :									
Gasoline fuel:									
Less than 200	9.7	7.9	13.6	13.5	9.9	17.2	9.4	6.0	10.5
200 to 299	5.0	5.5	12.7	6.4	6.7	15.0	4.0	3.9	5.4
300 to 349	9.8	8.0	14.0	12.5	10.1	19.0	7.8	6.0	10.5
350 to 399	9.4	8.2	15.0	12.3	10.8	21.0	7.6	6.7	10.9
400 or more	36.1	28.4	46.6	24.5	39.8	13.6	23.2	23.9	9.6
Not available	13.6	25.7	5.1	49.4	S	S	47.0	S	S
Diesel fuel:									
Less than 400	12.5	10.8	18.8	9.6	8.3	13.1	6.3	8.3	9.5
400 to 599	36.3	26.9	26.6	30.0	40.0	26.9	9.5	31.5	30.0
600 to 799	20.5	20.4	47.9	22.2	16.9	49.2	10.6	11.3	16.5
800 or more	5.3	5.9	10.1	6.7	7.7	11.6	5.2	5.6	6.8
Not available	4.3	3.6	4.9	6.5	5.0	5.7	5.2	3.8	5.1
Not applicable ⁹	7.3	7.1	9.8	11.7	11.0	16.8	9.7	9.1	14.5
Other fuel:									
Less than 400	S	S	S	S	S	S	S	S	S
400 or more	S	S	S	S	S	S	S	S	S
Not available	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ¹	36.4	N	N	N	N	N	N	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
REFUELING LOCATION									
Gas station	1.4	N	N	3.5	N	N	3.2	N	N
Truck stop	26.5	N	N	12.0	N	N	16.3	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	20.1	N	N	13.6	N	N	8.5	N	N
Other company's/contractor's facility not open to the public	45.9	N	N	47.7	N	N	14.7	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	24.3	N	N	25.2	N	N	7.9	N	N
Not applicable ¹	36.4	N	N	N	N	N	N	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	37.9	32.6	55.7	S	45.3	S	S	31.6	S
Company-owned maintenance facility	13.2	13.1	35.6	14.8	13.3	33.8	9.5	8.4	11.2
General repair business or private mechanic ..	4.8	5.4	12.3	6.3	6.5	15.4	4.2	4.0	5.7
Dealership service department	7.1	6.8	13.9	8.4	7.7	15.8	4.6	4.0	6.0
Leasing company	S	40.2	S	46.3	40.8	27.7	S	22.0	S
Individual not employed/paid by any maintenance type facility									
Other	5.9	4.3	7.3	8.1	6.0	10.5	5.4	4.2	7.2
Not reported	N	39.5	N	N	44.1	N	N	20.2	N
Not applicable ¹	22.9	20.2	42.5	23.9	19.7	39.1	7.5	13.5	14.0
Extensive repairs performed by:									
None performed	2.3	18.5	447.2	4.0	21.6	505.5	3.3	11.3	11.3
Company-owned maintenance facility	39.7	18.7	15.2	S	17.9	S	S	9.3	S
General repair business or private mechanic ..	16.4	8.5	9.1	19.6	10.0	11.2	11.6	5.7	13.3
Dealership service department	20.2	8.2	6.6	22.1	8.7	6.3	11.2	4.2	10.3
Leasing company	N	29.3	N	N	32.1	N	N	12.6	N
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	S	22.5	S	S	26.5	S	S	18.3	S
Other	19.8	14.9	23.5	24.2	21.9	45.0	14.1	16.4	31.4
Not reported	N	S	S	N	S	S	N	S	S
Not applicable ¹	S	3.9	S	S	5.2	S	S	3.6	S
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	1.0	.8	1.7	3.2	2.8	5.5	3.1	2.6	4.0
3 axles	1.0	.9	1.7	3.3	2.8	5.6	3.1	2.7	4.1
4 axles	7.1	8.3	10.7	15.0	14.8	20.4	12.2	12.7	17.3
5 axles or more	12.1	9.3	9.6	17.4	12.2	14.3	12.5	9.1	16.6
Not reported	11.8	N	N	14.0	N	N	7.7	N	N
Combinations									
Single-unit trucks with trailer	18.6	13.2	30.2	10.9	6.7	12.8	13.0	10.5	12.5
3 axles	30.8	29.4	76.2	40.1	38.9	94.8	26.7	29.2	37.6
4 axles	S	S	S	44.6	49.4	53.8	S	S	S
5 axles or more	42.4	40.9	126.0	48.6	S	S	17.3	S	S
Not reported	15.0	18.8	25.2	20.5	19.5	28.5	15.5	15.8	21.3
Truck-tractors with single trailer									
3 axles	3.0	2.4	3.7	4.3	3.9	4.9	3.9	3.0	4.4
4 axles	24.6	18.1	31.6	30.2	24.3	60.0	22.8	16.2	41.9
5 axles or more	18.5	10.0	14.1	21.1	13.2	9.7	15.3	8.7	10.2
Not reported	3.5	3.1	4.1	5.3	4.4	5.3	4.3	3.1	4.7
Truck-tractors with double trailers									
5 axles	11.6	N	N	14.5	N	N	8.9	N	N
6 axles	12.3	11.7	15.4	13.5	13.6	19.9	5.8	7.0	10.3
7 axles	S	N	S	S	N	S	S	N	S
8 axles or more	S	49.5	S	S	S	S	S	S	S
Not reported	N	N	N	N	N	N	N	20.8	N
Truck-tractors with triple trailers									
7 axles	49.5	N	19.5	14.4	14.9	23.3	6.3	7.7	10.6
8 axles	N	S	S	S	N	N	S	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	N	N	N	N	N	N	N	N	N
Driving axles:									
1	4.2	3.4	6.5	6.2	4.9	8.6	4.5	3.5	5.2
2	4.7	4.6	9.6	5.9	5.5	12.4	3.8	3.6	5.5
3 or more	16.1	15.5	12.6	18.6	18.8	4.5	9.4	8.9	3.8
Not reported	S	N	S	S	N	S	S	N	S
Total liftable axles and locations:									
None	1.1	4.3	11.9	2.8	5.7	15.2	2.7	5.1	5.1
1	10.5	11.5	15.0	18.8	13.6	23.2	14.0	10.9	18.5
Forward of the drive axle	12.1	N	N	23.1	N	N	17.3	N	N
Below the chassis	31.8	N	N	46.8	N	N	25.2	N	N
Beyond the chassis	N	N	N	N	N	N	N	N	N
Not reported	30.4	N	N	38.5	N	N	31.0	N	N
2 or more	10.9	15.3	25.7	14.6	18.1	27.1	9.7	12.6	13.5
Forward of the drive axle	11.5	N	N	15.4	N	N	10.3	N	N
Below the chassis	11.9	N	N	15.6	N	N	10.1	N	N
Beyond the chassis	49.5	N	N	S	N	N	S	N	N
Not reported	49.5	N	N	S	N	N	S	N	N
Not reported	46.7	N	N	S	N	N	S	N	N
Not applicable ⁸ .....	.9	N	N	3.3	N	N	3.2	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	1.1	4.3	11.9	2.8	5.7	15.2	2.7	5.1	5.1
1	10.5	11.5	15.0	18.8	13.6	23.2	14.0	10.9	18.5
0 braking	31.1	N	N	42.3	N	N	28.7	N	N
1 braking	11.4	N	N	17.0	N	N	13.3	N	N
Not reported	43.5	N	N	S	N	N	S	N	N
2 or more	10.9	15.3	25.7	14.6	18.1	27.1	9.7	12.6	13.5
0 braking	S	N	N	S	N	N	S	N	N
1 braking	S	N	N	S	N	N	S	N	N
2 or more braking	11.3	N	N	15.3	N	N	10.3	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	46.7	N	N	S	N	N	S	N	N
Not applicable ⁸ .....	.9	N	N	3.3	N	N	3.2	N	N
CAB TYPE									
Conventional cab	1.3	2.3	3.1	2.9	3.6	4.7	2.8	3.2	3.5
With sleeper	5.8	N	N	7.0	N	N	4.7	N	N
Without sleeper	1.5	N	N	3.7	N	N	3.4	N	N
Not reported	19.6	N	N	22.1	N	N	10.1	N	N
Cab over engine	7.7	8.6	9.9	11.3	9.6	11.4	8.3	6.8	9.7
With sleeper	14.8	N	N	24.7	N	N	19.7	N	N
Without sleeper	9.0	N	N	12.8	N	N	8.8	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	19.5	17.1	8.0	20.9	23.9	8.1	7.5	17.3	15.6
Cab beside engine	N	S	S	N	S	S	N	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁹ .....	.9	N	N	3.3	N	N	3.2	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	166.0	156.4	6.1	3 707.5	4 008.3	-7.5	22.3	25.6	-12.8
BUSINESS¹									
For-hire transportation or warehousing	23.1	21.6	7.2	1 170.3	1 414.9	-17.3	50.6	65.6	-22.8
Vehicle leasing or rental	10.4	5.1	103.8	403.8	198.0	104.0	39.0	38.9	.1
Agriculture, forestry, fishing, or hunting	23.1	20.3	14.0	227.2	214.5	5.9	9.8	10.6	-7.1
Mining	1.4	1.9	-27.1	33.6	34.7	-3.2	24.3	18.3	32.8
Utilities	6.4	6.7	-3.9	88.7	69.2	28.1	13.9	10.4	33.4
Construction	35.7	38.3	-6.8	530.7	495.8	7.0	14.9	12.9	14.8
Manufacturing	9.6	11.7	-17.4	229.7	458.7	-49.9	23.8	39.3	-39.4
Wholesale trade	9.4	13.8	-32.3	351.7	404.9	-13.1	37.6	29.3	28.4
Retail trade	12.9	13.7	-5.8	250.8	362.4	-30.8	19.4	26.5	-26.6
Information services	1.0	N	N	13.5	N	N	14.2	N	N
Waste management, landscaping, or administrative/support services	10.2	N	N	153.7	N	N	15.1	N	N
Arts, entertainment, or recreation services .....	.8	N	N	10.2	N	N	12.4	N	N
Accommodation or food services	1.5	N	N	44.9	N	N	30.8	N	N
Other services	3.7	N	N	41.3	N	N	11.1	N	N
Personal transportation	6.2	5.2	19.3	59.0	34.5	71.2	9.5	6.6	43.5
Not reported	5.8	V	N	98.3	V	N	16.9	V	N
Not applicable ²	4.7	2.7	78.8	V	S	S	V	S	S
BODY TYPE									
Single-unit trucks	125.2	114.4	9.4	1 754.2	1 755.3	-.1	14.0	15.3	-8.7
Armored	S	N	N	V	N	N	S	N	N
Beverage	1.1	S	S	13.6	S	S	12.6	S	S
Concrete mixer	3.6	2.1	73.2	53.2	26.9	98.1	15.0	13.1	14.4
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	S	1.9	S	S	38.3	S	S	19.8	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	23.8	16.4	45.0	178.9	143.5	24.7	7.5	8.8	-14.0
Flatbed, stake, or platform	30.6	36.1	-15.2	268.7	382.1	-29.7	8.8	10.6	-17.1
Low boy	S	.3	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe	1.1	.2	369.9	37.5	S	S	35.2	S	S
Service, utility	6.4	4.2	53.9	95.1	41.7	128.0	14.9	10.0	48.1
Service, other	2.1	4.0	-47.9	22.7	51.8	-56.2	10.8	12.9	-16.0
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	S	S	S	S	S	S	S	S	S
Tank, liquids or gases	2.7	4.6	-41.1	41.6	71.6	-42.0	15.3	15.5	-1.4
Tow/Wrecker	3.7	3.9	-5.0	51.1	85.2	-40.0	13.9	22.0	-36.9
Trash, garbage, or recycling	2.6	3.5	-26.0	61.8	61.6	.4	23.6	17.4	35.6
Vacuum .....	.5	N	N	11.6	N	N	23.2	N	N
Van, basic enclosed	19.6	15.1	30.1	450.3	468.5	-3.9	22.9	31.0	-26.1
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	2.1	1.1	91.8	76.6	35.5	115.9	36.6	32.5	12.6
Van, open top	1.6	3.2	-51.3	3.6	8.8	-59.2	2.3	2.7	-16.3
Van, step, walk-in, or multistop	16.2	15.1	6.7	272.4	295.4	-7.8	16.9	19.5	-13.6
Van, other	5.3	N	N	84.3	N	N	15.8	N	N
Other	V	N	N	V	N	N	V	N	N
Truck-tractors	40.7	42.0	-3.0	1 953.3	2 253.0	-13.3	48.0	53.7	-10.6
Automobile carrier .....	.7	.7	-6.7	52.9	51.1	3.5	76.7	69.1	11.0
Beverage	1.8	1.0	72.4	44.8	15.1	196.5	25.4	14.7	71.9
Curtainside .....	.3	N	N	14.2	N	N	44.9	N	N
Dump	7.9	4.8	65.2	235.7	168.6	39.7	29.7	35.2	-15.4
Flatbed, stake, or platform	5.8	7.1	-17.3	206.8	345.8	-40.2	35.4	49.0	-27.7
Livestock .....	.3	.3	-7.6	6.7	S	S	21.2	S	S
Low boy	1.9	2.7	-27.2	36.3	68.5	-47.0	18.6	25.6	-27.2
Mobile home toter	V	N	N	V	N	N	V	N	N
Open top .....	.9	1.1	-17.3	27.4	13.8	99.1	29.1	12.1	140.7
Pole, logging, pulpwood, or pipe .....	.4	.3	9.9	S	20.1	S	S	58.7	S
Tank, dry bulk .....	.8	.7	13.3	49.2	33.4	47.2	60.1	46.2	30.0
Tank, liquids or gases	2.1	1.7	25.3	108.4	98.0	10.7	52.4	59.3	-11.7
Van, basic enclosed	13.4	15.0	-10.6	880.4	1 029.6	-14.5	65.6	68.6	-4.3
Van, drop-frame .....	.6	1.0	-34.8	25.4	44.8	-43.3	40.2	46.3	-13.1
Van, insulated nonrefrigerated .....	.4	.2	92.9	22.9	S	S	52.2	S	S
Van, insulated refrigerated	2.6	3.7	-28.5	229.9	265.2	-13.3	86.8	71.7	21.1
Other	V	N	N	V	N	N	V	N	N
Not applicable ³ .....	.6	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	40.9	35.2	16.0	74.2	79.6	-6.8	1.8	2.3	-19.7
5,000 to 9,999	23.5	23.5	-.1	164.2	163.3	.5	7.0	7.0	.6
10,000 to 19,999	36.0	34.5	4.2	494.5	461.3	7.2	13.8	13.4	2.8
20,000 to 29,999	24.2	17.0	42.4	570.0	391.7	45.5	23.5	23.0	2.2
30,000 to 49,999	16.0	17.0	-6.0	597.9	637.4	-6.2	37.5	37.5	-.2
50,000 to 74,999	7.8	13.6	-42.8	459.2	823.6	-44.2	58.8	60.4	-2.6
75,000 or more	13.0	13.7	-5.5	1 347.5	1 451.3	-7.2	103.8	105.6	-1.7
Not applicable ²	4.7	1.8	156.6	V	V	N	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	2.8	8.3	-66.7	15.4	104.9	-85.4	5.6	12.7	-56.1
50 miles or less	95.0	91.2	4.2	1 400.1	1 267.5	10.5	14.7	13.9	6.0
51 to 100 miles	23.7	24.8	-4.6	649.1	712.2	-8.9	27.4	28.7	-4.4
101 to 200 miles	9.4	12.0	-21.9	454.1	575.5	-21.1	48.3	47.8	1.1
201 to 500 miles	5.3	10.4	-48.8	310.3	669.3	-53.6	58.6	64.6	-9.4
501 miles or more	6.5	7.9	-17.3	437.9	678.9	-35.5	67.3	86.3	-22.0
Not reported	18.6	1.8	906.1	440.6	V	N	23.7	V	N
Not applicable ²	4.7	N	N	V	N	N	V	N	N
PRIMARY JURISDICTION									
Operated in Canada	V	N	N	V	N	N	V	N	N
Operated in Mexico	V	N	N	V	N	N	V	N	N
Operated within the home base state	138.0	N	N	2 715.2	N	N	19.7	N	N
Operated in states other than the home base state	9.7	N	N	650.2	N	N	66.9	N	N
Not reported	13.5	N	N	342.1	N	N	25.4	N	N
Not applicable ²	4.7	N	N	V	N	N	V	N	N
MONTHS OPERATED									
12	85.6	N	N	2 666.0	N	N	31.1	N	N
7 to 11	35.4	N	N	765.4	N	N	21.6	N	N
2 to 6	32.1	N	N	254.9	N	N	8.0	N	N
1 or less	8.1	N	N	21.2	N	N	2.6	N	N
Vehicle not used	4.7	N	N	V	N	N	V	N	N
VEHICLE SIZE									
Light	27.0	35.6	-24.1	340.7	460.2	-26.0	12.6	12.9	-2.5
Medium	29.5	27.4	7.5	425.9	448.2	-5.0	14.5	16.4	-11.6
Light-heavy	29.2	19.8	47.1	413.2	344.7	19.9	14.2	17.4	-18.5
Heavy-heavy	80.3	73.6	9.1	2 527.7	2 755.2	-8.3	31.5	37.4	-15.9
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	5.6	6.9	-19.0	71.7	62.9	14.0	12.8	9.1	40.8
6,001 to 8,500	10.3	N	N	117.4	N	N	11.4	N	N
8,501 to 10,000	11.2	N	N	151.6	N	N	13.6	N	N
10,001 to 14,000	18.5	15.2	21.8	237.9	279.4	-14.8	12.9	18.4	-30.1
14,001 to 16,000	6.0	6.8	-12.7	99.4	76.5	30.1	16.7	11.2	49.1
16,001 to 19,500	5.1	5.4	-6.8	88.5	92.4	-4.2	17.5	17.0	2.8
19,501 to 26,000	29.2	19.8	47.1	413.2	344.7	19.9	14.2	17.4	-18.5
26,001 to 33,000	14.0	11.6	20.6	235.1	195.2	20.4	16.8	16.8	-1
33,001 to 40,000	6.7	10.0	-32.5	98.6	197.4	-50.0	14.6	19.8	-25.9
40,001 to 50,000	12.1	12.3	-1.9	201.0	405.7	-50.4	16.7	33.0	-49.5
50,001 to 60,000	10.7	8.9	20.3	252.5	325.6	-22.4	23.7	36.7	-35.5
60,001 to 80,000	23.0	20.0	14.8	1 202.6	1 155.6	4.1	52.3	57.7	-9.3
80,001 to 100,000	5.1	3.5	45.1	112.4	108.1	4.0	22.1	30.8	-28.3
100,001 to 130,000	3.6	2.7	37.0	144.5	125.1	15.6	39.8	47.1	-15.6
130,001 or more	5.2	4.7	10.9	280.8	242.6	15.8	54.5	52.2	4.4
TOTAL LENGTH (FEET)									
Less than 20.0	40.5	42.5	-4.7	452.1	511.2	-11.6	11.2	12.0	-7.2
20.0 to 27.9	46.9	43.8	6.9	667.8	694.5	-3.8	14.3	15.8	-10.0
28.0 to 35.9	23.8	18.3	30.0	420.4	410.8	2.3	17.7	22.5	-21.3
36.0 to 40.9	11.0	6.7	62.6	265.3	103.5	156.4	24.2	15.3	57.7
41.0 to 44.9	4.5	3.9	15.9	79.3	35.9	120.9	17.7	9.3	90.5
45.0 to 49.9	6.5	3.5	86.6	146.9	59.5	146.7	22.6	17.1	32.2
50.0 to 54.9	3.8	3.1	24.7	70.9	94.6	-25.1	18.5	30.7	-39.9
55.0 to 59.9	7.7	10.7	-28.1	265.6	543.3	-51.1	34.6	50.9	-32.0
60.0 to 64.9	8.2	10.8	-24.6	380.4	665.4	-42.8	46.5	61.4	-24.2
65.0 to 69.9	7.5	7.5	-6	492.8	503.1	-2.0	65.9	66.8	-1.4
70.0 to 74.9	4.7	3.7	27.6	375.8	269.2	39.6	79.5	72.7	9.4
75.0 to 79.9	1.0	N	N	90.4	N	N	89.4	N	N
80.0 or more	V	N	N	V	N	N	V	N	N
MILES PER GALLON									
Less than 5	19.5	20.5	-4.9	542.9	578.1	-6.1	27.8	28.2	-1.3
5 to 6.9	36.4	42.3	-13.9	1 224.0	1 671.2	-26.8	33.6	39.6	-15.0
7 to 8.9	21.4	26.2	-18.4	457.5	593.2	-22.9	21.4	22.7	-5.5
9 to 10.9	26.7	27.4	-2.5	392.1	432.7	-9.4	14.7	15.8	-7.1
11 to 12.9	12.7	10.6	20.6	181.7	168.2	8.0	14.3	15.9	-10.4
13 to 14.9	3.8	3.7	2.1	51.5	67.5	-23.8	13.5	18.1	-25.3
15 or more	7.7	8.9	-13.9	84.2	117.9	-28.6	11.0	13.2	-17.1
15 to 20.9	7.7	8.7	-11.6	84.2	114.2	-26.2	11.0	13.2	-16.6
21 to 24.9	V	V	S	V	S	S	V	S	S
25 or more	V	V	N	V	V	N	V	V	N
Not reported	33.0	16.8	96.2	773.7	379.4	103.9	23.5	22.6	3.9
Not applicable ²	4.7	N	N	V	N	N	V	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	1.1	N	N	35.5	N	N	33.1	N	N
2002	4.2	N	N	137.9	N	N	32.6	N	N
2001	6.8	N	N	295.6	N	N	43.4	N	N
2000	16.4	N	N	596.1	N	N	36.3	N	N
1999	13.1	N	N	488.1	N	N	37.3	N	N
1998	11.5	S	S	361.8	S	S	31.5	S	S
1997	8.3	6.8	22.4	243.5	290.4	-16.2	29.2	42.7	-31.5
1996	8.8	8.3	6.7	238.5	395.0	-39.6	27.0	47.7	-43.4
1995	10.4	13.2	-21.2	304.8	553.8	-45.0	29.3	41.9	-30.1
1994	10.9	12.6	-13.7	245.8	531.7	-53.8	22.6	42.2	-46.4
1993	7.1	8.1	-12.0	173.7	323.2	-46.3	24.3	39.8	-38.9
Pre-1993	67.2	106.4	-36.8	586.2	1 887.6	-68.9	8.7	17.7	-50.9
VEHICLE ACQUISITION									
New	81.2	65.7	23.5	2 309.8	2 035.2	13.5	28.4	31.0	-8.1
Used	76.8	73.5	4.5	1 199.0	1 393.0	-13.9	15.6	19.0	-17.6
Not reported	7.9	17.2	-53.8	198.7	580.2	-65.8	25.0	33.8	-26.0
LEASE CHARACTERISTICS									
Leased	22.0	N	N	864.4	N	N	39.2	N	N
Lessee	9.2	N	N	282.8	N	N	30.7	N	N
Vehicle only	9.1	N	N	278.0	N	N	30.4	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	12.4	N	N	557.3	N	N	45.0	N	N
Vehicle only	11.2	N	N	483.4	N	N	43.0	N	N
Vehicle with driver	1.1	N	N	73.9	N	N	65.2	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not leased	4	N	N	24.4	N	N	55.7	N	N
Not leased	91.7	N	N	1 995.9	N	N	21.8	N	N
Not reported	52.3	N	N	847.1	N	N	16.2	N	N
Length of leasing agreement:									
Leased	22.0	N	N	864.4	N	N	39.2	N	N
1 to 11 months	9	N	N	51.8	N	N	54.7	N	N
12 months or more	21.0	N	N	800.5	N	N	38.2	N	N
Not reported	S	N	N	S	N	N	S	N	N
Provisions of lease ⁴ :									
Financing only	13.8	N	N	468.5	N	N	34.1	N	N
Full maintenance	8.0	N	N	336.1	N	N	41.9	N	N
Payment of taxes	10.0	N	N	406.8	N	N	40.7	N	N
Obtaining licenses and permits	10.2	N	N	440.2	N	N	43.0	N	N
Recordkeeping	3.8	N	N	151.0	N	N	39.7	N	N
Fuel contract	1.3	N	N	49.7	N	N	37.4	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	110.6	N	N	1 713.8	N	N	15.5	N	N
Motor carrier	24.5	N	N	1 067.8	N	N	43.7	N	N
Owner operator	9.2	N	N	456.7	N	N	49.6	N	N
Rental	10.7	N	N	410.1	N	N	38.2	N	N
Personal transportation	6.2	N	N	59.0	N	N	9.5	N	N
Not applicable ²	4.7	N	N	V	N	N	V	N	N
For-hire characteristics:									
Type of carrier:									
Contract	14.9	N	N	886.5	N	N	59.5	N	N
Common	13.6	N	N	497.0	N	N	36.5	N	N
Not reported	5.2	N	N	141.1	N	N	27.3	N	N
Not applicable ⁵	132.3	N	N	2 183.0	N	N	16.5	N	N
Type of service:									
Truckload	20.2	13.4	51.0	1 169.3	929.8	25.7	57.9	69.5	-16.7
Less-than-truckload	8.6	4.3	100.6	229.1	241.7	-5.2	26.6	56.4	-52.7
Not reported	4.9	N	N	126.2	N	N	26.0	N	N
Not applicable ⁵	132.3	N	N	2 183.0	N	N	16.5	N	N
Source of hauls:									
Shippers or receivers	22.7	N	N	1 097.0	N	N	48.4	N	N
Brokers	3.0	N	N	200.0	N	N	67.5	N	N
Centralized markets or exchanges	1.0	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	7.0	N	N	208.7	N	N	29.6	N	N
Not applicable ⁵	132.3	N	N	2 183.0	N	N	16.5	N	N
HAZARDOUS MATERIALS CARRIED⁶									
Carrying hazardous materials	6.3	7.3	-13.4	275.6	312.6	-11.9	43.7	42.9	1.8
Not carrying hazardous materials	122.3	144.8	-15.5	2 630.4	3 583.4	-26.6	21.5	24.8	-13.2
Not reported	15.6	4.4	257.5	332.4	112.3	196.0	21.3	25.7	-17.2
Not applicable ⁷	21.7	N	N	469.2	N	N	21.6	N	N
EQUIPMENT TYPE⁴									
Aerial work platform/bucket	3.9	N	N	42.9	N	N	11.1	N	N
Air bag(s) (safety device only)	26.8	12.9	108.1	813.4	623.1	30.5	30.4	48.4	-37.3
Air compressor (except air brakes)	9.0	N	N	341.8	N	N	38.0	N	N
Air-conditioning	81.7	56.8	43.9	2 790.5	2 592.0	7.7	34.1	45.6	-25.2
Air springs	22.3	N	N	1 026.7	N	N	46.1	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE⁴—Con.									
Antilock brake system	51.4	21.3	142.0	1 853.0	816.6	126.9	36.0	38.4	-6.2
Collision warning system	1.5	N	N	50.3	N	N	34.5	N	N
Computerized drive train control unit	4.8	N	N	178.1	N	N	37.2	N	N
Crane	3.1	N	N	62.9	N	N	20.0	N	N
Electronic vehicle identification device	1.3	2.5	-46.3	116.7	179.8	-35.1	88.6	73.2	21.0
Engine retarder/brake	21.9	15.8	38.8	1 230.4	925.2	33.0	56.2	58.7	-4.2
Front-wheel drive	V	V	N	V	V	N	V	V	N
Hoist	18.6	N	N	179.9	N	N	9.7	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	4.2	N	N	234.4	N	N	56.3	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	10.1	N	N	215.9	N	N	21.3	N	N
Mounting bar for snowplow	3.7	N	N	36.9	N	N	9.9	N	N
Navigational system .....	.8	1.0	-14.9	S	83.3	S	S	86.1	S
Power take-off	43.9	N	N	888.7	N	N	20.3	N	N
Radial tires	96.7	117.8	-17.9	2 519.4	3 443.6	-26.8	26.0	29.2	-10.9
Reflective material in addition to those required by law	26.6	34.5	-22.9	698.7	1 279.4	-45.4	26.3	37.1	-29.2
Road speed governor	36.5	44.8	-18.5	1 309.2	1 727.6	-24.2	35.9	38.6	-7.0
Toolbox	32.6	N	N	740.8	N	N	22.7	N	N
Trip recorder or on-board computer with communication capabilities	5.8	N	N	223.4	N	N	38.4	N	N
Trip recorder or on-board computer without communication capabilities	4.7	N	N	177.3	N	N	37.5	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	6.7	N	N	94.8	N	N	14.2	N	N
Transmission type:									
Automatic	57.2	N	N	810.2	N	N	14.2	N	N
Manual	98.5	N	N	2 616.1	N	N	26.6	N	N
Semiautomated manual .....	.9	N	N	24.8	N	N	28.0	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	8.9	N	N	228.5	N	N	25.7	N	N
Braking system:									
Hydraulic (standard)	49.8	33.5	48.6	670.5	429.6	56.1	13.5	12.8	5.0
Hydraulic with power assist	32.8	44.7	-26.7	483.4	700.6	-31.0	14.8	15.7	-5.8
Air	71.9	69.6	3.4	2 292.1	2 696.9	-15.0	31.9	38.8	-17.8
Other	V	2.3	N	V	28.3	N	V	12.5	N
Not reported	11.5	N	N	261.6	N	N	22.7	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	52.5	61.3	-14.4	528.7	629.7	-16.0	10.1	10.3	-1.9
Diesel	108.0	92.2	17.1	3 158.3	3 326.9	-5.1	29.3	36.1	-18.9
Natural gas	V	N	N	V	N	N	V	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	V	N	N	V	N	N	V	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ²	4.7	N	N	V	N	N	V	N	N
Cylinders ⁸ :									
4 cylinders	3.0	2.2	37.9	53.2	46.7	13.8	17.8	21.5	-17.5
6 cylinders	86.4	68.4	26.2	2 857.7	2 844.2	.5	33.1	41.6	-20.4
8 cylinders	62.2	67.3	-7.6	671.4	922.3	-27.2	10.8	13.7	-21.2
Other	14.4	18.5	-22.2	125.2	195.1	-35.8	8.7	10.6	-17.5
Cubic inch displacement ⁸ :									
Gasoline fuel	52.5	61.3	-14.4	528.7	629.7	-16.0	10.1	10.3	-1.9
Less than 200	S	S	S	S	S	S	S	S	S
200 to 299	3.2	3.3	-2.0	54.4	50.3	8.1	16.8	15.2	10.3
300 to 349	3.7	S	S	63.7	S	S	17.3	S	S
350 to 399	26.1	31.2	-16.2	255.0	395.7	-35.6	9.8	12.7	-23.1
400 or more	10.9	11.6	-6.2	109.3	120.2	-9.1	10.0	10.3	-3.1
Not available	8.2	14.2	-42.6	39.0	54.9	-28.9	4.8	3.9	23.8
Diesel fuel	108.0	92.2	17.1	3 158.3	3 326.9	-5.1	29.3	36.1	-18.9
Less than 400	13.6	11.2	21.1	237.2	221.8	7.0	17.5	19.8	-11.7
400 to 599	38.8	26.5	46.5	735.5	635.9	15.7	19.0	24.0	-21.1
600 to 799	21.4	16.8	27.0	862.4	762.7	13.1	40.4	45.4	-11.0
800 or more	23.0	26.1	-11.9	941.0	1 341.7	-29.9	40.9	51.4	-20.4
Not available	11.2	11.6	-3.5	382.3	365.0	4.7	34.1	31.4	8.5
Other fuel .....	.8	1.2	-34.3	S	S	S	S	S	S
Less than 400	S	S	S	S	S	S	S	S	S
400 or more	S	S	S	S	S	S	S	S	S
Not available	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ²	4.7	N	N	V	N	N	V	N	N
REFUELING LOCATION									
Gas station	82.8	N	N	1 328.2	N	N	16.0	N	N
Truck stop	25.3	N	N	1 176.8	N	N	46.4	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	42.3	N	N	927.4	N	N	21.9	N	N
Other company's/contractor's facility not open to the public	5.5	N	N	169.6	N	N	30.9	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	5.3	N	N	105.6	N	N	19.9	N	N
Not applicable ²	4.7	N	N	V	N	N	V	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁴									
General maintenance performed by:									
None performed	3.1	.2	1 272.6	23.6	S	S	7.6	S	S
Company-owned maintenance facility	72.6	61.5	18.0	2 091.1	1 851.1	13.0	28.8	30.1	-4.3
General repair business or private mechanic	51.8	43.6	18.9	1 195.3	1 067.7	11.9	23.1	24.5	-5.8
Dealership service department	20.5	19.0	7.8	617.3	584.4	5.6	30.1	30.8	-2.1
Leasing company	1.9	2.5	-23.8	92.0	126.9	-27.5	48.4	50.9	-4.8
Individual not employed/paid by any maintenance type facility:									
Other	32.8	50.8	-35.5	486.4	909.5	-46.5	14.8	17.9	-17.1
Not reported	V	S	S	V	S	S	V	S	S
Not applicable ²	5.3	12.4	-57.3	95.9	501.1	-80.9	18.1	40.4	-55.2
	4.7	N	N	V	N	N	V	N	N
Extensive repairs performed by:									
None performed	118.4	3.7	3 072.0	2 608.8	62.8	4 054.6	22.0	16.8	31.0
Company-owned maintenance facility	11.3	30.5	-62.8	281.2	925.0	-69.6	24.8	30.3	-18.3
General repair business or private mechanic	14.5	38.8	-62.8	364.1	836.4	-56.5	25.2	21.5	16.9
Dealership service department	8.4	27.2	-69.1	262.0	988.0	-73.5	31.2	36.4	-14.2
Leasing company	V	1.2	N	V	64.9	N	V	55.1	N
Component distributorship (engine, transmission, body, etc.):									
Individual not employed/paid by any repair type facility	2.3	10.8	-78.5	86.8	448.8	-80.7	37.3	41.4	-10.1
Other	5.1	8.4	-39.6	75.9	130.3	-41.7	15.0	15.6	-3.4
Not reported	V	S	S	V	S	S	V	S	S
Not applicable ²	S	52.3	S	S	1 083.1	S	S	20.7	S
	4.7	N	N	V	N	N	V	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	114.9	102.9	11.7	1 614.0	1 581.9	2.0	14.0	15.4	-8.6
3 axles	95.2	84.9	12.2	1 320.5	1 316.1	.3	13.9	15.5	-10.6
4 axles	11.8	12.0	-1.3	155.5	160.8	-3.3	13.2	13.4	-2.0
5 axles or more	3.8	6.1	-37.3	70.6	105.0	-32.8	18.5	17.3	7.1
Not reported	4.0	N	N	66.5	N	N	16.7	N	N
	S	V	S	S	V	S	S	V	S
Combinations:									
Single-unit trucks with trailer:	51.0	53.5	-4.6	2 093.6	2 426.4	-13.7	41.0	45.4	-9.5
3 axles	10.9	11.5	-5.7	140.3	173.4	-19.1	12.9	15.1	-14.2
4 axles	1.9	1.7	12.5	22.3	S	S	11.7	S	S
5 axles or more	5.0	6.5	-22.6	48.3	74.7	-35.4	9.6	11.5	-16.5
Not reported	3.5	3.3	4.7	66.3	65.7	.9	18.9	19.6	-3.6
	S	N	N	S	N	N	S	N	N
Truck-tractors with single trailer:	36.3	37.7	-3.6	1 746.5	2 052.2	-14.9	48.1	54.5	-11.7
3 axles	1.7	1.7	3.3	42.9	27.7	54.7	25.1	16.8	49.7
4 axles	3.4	5.1	-32.7	77.4	198.2	-61.0	22.7	39.1	-42.0
5 axles or more	27.0	31.0	-12.9	1 401.9	1 826.2	-23.2	52.0	59.0	-11.9
Not reported	4.2	N	N	224.3	N	N	53.2	N	N
	S	V	S	S	V	S	S	V	S
Truck-tractors with double trailers:	3.8	4.2	-9.3	206.7	199.1	3.8	53.9	47.1	14.5
5 axles	S	V	S	S	V	S	S	V	S
6 axles	S	.2	S	S	S	S	S	S	S
7 axles	V	.7	N	V	27.2	N	V	37.9	N
8 axles or more	3.5	3.3	5.4	184.9	163.7	13.0	53.5	49.9	7.2
Not reported	.2	N	N	S	N	N	S	N	N
	V	S	S	V	S	S	V	S	S
Truck-tractors with triple trailers:	V	S	S	V	S	S	V	S	S
7 axles	V	N	N	V	V	N	V	V	N
8 axles	V	S	S	V	S	S	V	S	S
9 axles	V	V	N	V	V	N	V	V	N
10 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	V	N	V	N	N
	S	V	S	S	V	S	S	V	S
Driving axles:									
1	103.7	101.1	2.5	1 509.3	1 644.7	-8.2	14.6	16.3	-10.5
2	59.8	51.3	16.6	2 156.8	2 151.5	.2	36.0	41.9	-14.0
3 or more	2.2	4.0	-43.3	35.8	212.1	-83.1	16.0	53.6	-70.2
Not reported	S	V	S	S	V	S	S	V	S
Total liftable axles and locations ⁹ :									
None	154.8	55.3	180.2	3 471.5	1 405.4	147.0	22.4	25.4	-11.8
1	6.0	6.3	-4.1	121.3	121.3	.1	20.2	19.4	4.4
Forward of the drive axle	4.2	N	N	90.1	N	N	21.6	N	N
Below the chassis	.9	N	N	16.6	N	N	18.9	N	N
Beyond the chassis	V	N	N	V	N	N	V	N	N
Not reported	.9	N	N	14.6	N	N	15.6	N	N
2 or more	4.6	3.4	36.9	101.2	86.9	16.5	21.9	25.8	-14.9
Forward of the drive axle	4.2	N	N	87.2	N	N	20.9	N	N
Below the chassis	3.9	N	N	85.2	N	N	21.7	N	N
Beyond the chassis	.2	N	N	S	N	N	S	N	N
Not reported	.2	N	N	S	N	N	S	N	N
Not reported	.5	N	N	S	N	N	S	N	N
Total liftable axles and number of braking axles:									
None	154.8	55.3	180.2	3 471.5	1 405.4	147.0	22.4	25.4	-11.8
1	6.0	6.3	-4.1	121.3	121.3	.1	20.2	19.4	4.4
0 braking	.6	N	N	13.4	N	N	21.6	N	N
1 braking	4.7	N	N	77.2	N	N	16.5	N	N
Not reported	.7	N	N	S	N	N	S	N	N
2 or more	4.6	3.4	36.9	101.2	86.9	16.5	21.9	25.8	-14.9
0 braking	S	N	N	S	N	N	S	N	N
1 braking	S	N	N	S	N	N	S	N	N
2 or more braking	4.3	N	N	93.3	N	N	21.7	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	.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
CAB TYPE									
Conventional cab	148.3	122.5	21.1	3 377.6	3 346.3	.9	22.8	27.3	-16.6
With sleeper	13.6	N	N	997.3	N	N	73.3	N	N
Without sleeper	133.1	N	N	2 296.3	N	N	17.2	N	N
Not reported	1.6	N	N	84.0	N	N	53.6	N	N
Cab over engine	16.0	18.7	-14.4	304.4	396.7	-23.3	19.0	21.2	-10.3
With sleeper	2.7	N	N	79.3	N	N	29.4	N	N
Without sleeper	13.1	N	N	221.9	N	N	16.9	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	1.6	5.0	-69.1	25.3	98.8	-74.4	16.3	19.6	-17.1
Cab beside engine	V	S	S	V	S	S	V	S	S
Not reported	S	N	N	S	N	N	S	N	N

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

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

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

³Truck-tractors not in use.

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

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

⁶Distributed miles data are available in Table 8.

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

⁸Data were derived from administrative records.

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

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

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

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
Total .....	.9	1.5	1.8	2.7	3.1	3.8	2.6	2.8	3.3
BUSINESS									
For-hire transportation or warehousing	6.6	6.1	9.6	6.8	6.1	7.6	5.4	4.1	5.2
Vehicle leasing or rental	10.7	23.6	52.7	10.8	29.8	64.7	7.3	13.7	15.5
Agriculture, forestry, fishing, or hunting	7.0	8.5	12.5	11.7	12.8	18.3	10.7	11.1	14.3
Mining	26.4	29.2	28.7	38.5	34.9	50.3	27.4	25.1	49.3
Utilities	16.0	17.8	23.0	24.0	19.8	39.9	18.2	12.2	29.3
Construction	5.6	5.9	7.6	7.6	7.4	11.4	5.8	5.4	9.1
Manufacturing	10.6	10.1	12.1	13.1	11.6	8.8	10.6	8.4	8.2
Wholesale trade	12.2	10.1	10.7	14.6	10.8	15.8	9.1	7.1	14.8
Retail trade	10.7	10.7	14.3	13.0	13.8	13.1	8.9	10.3	10.0
Information services	41.5	N	N	46.9	N	N	24.8	N	N
Waste management, landscaping, or administrative/support services	10.8	N	N	12.0	N	N	9.8	N	N
Arts, entertainment, or recreation services	46.6	N	N	48.9	N	N	9.2	N	N
Accommodation or food services	33.2	N	N	34.6	N	N	30.1	N	N
Other services	20.4	N	N	26.3	N	N	18.3	N	N
Personal transportation	16.9	20.4	31.6	21.9	29.9	63.3	13.7	21.5	36.7
Not reported	16.4	N	N	20.6	N	N	15.6	N	N
Not applicable ¹	17.8	25.7	55.9	N	S	S	N	S	S
BODY TYPE									
Single-unit trucks	1.4	2.1	2.7	4.1	5.6	6.9	3.9	4.9	5.7
Armored	S	N	N	N	N	N	S	N	N
Beverage	40.1	S	S	43.6	S	S	15.9	S	S
Concrete mixer	13.3	16.5	36.8	15.7	19.0	48.9	7.5	8.3	12.8
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	S	24.5	S	S	27.0	S	S	22.4	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	7.1	9.4	17.1	11.1	11.4	19.8	9.0	8.7	10.7
Flatbed, stake, or platform	6.6	6.4	7.8	9.9	9.2	9.5	7.5	7.1	8.5
Low boy	S	40.3	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe	28.0	49.5	267.3	31.7	S	S	24.3	S	S
Service, utility	16.5	22.2	42.5	23.1	25.9	79.2	16.1	15.2	32.8
Service, other	29.0	24.4	19.7	39.2	31.7	22.1	25.9	20.4	27.7
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	S	S	S	S	S	S	S	S	S
Tank, liquids or gases	23.4	18.6	17.6	43.3	35.8	32.6	34.7	30.0	45.2
Tow/Wrecker	22.2	23.1	30.4	27.7	33.5	26.1	16.9	24.0	18.5
Trash, garbage, or recycling	16.0	19.3	18.6	18.3	17.8	25.6	11.4	12.7	23.1
Vacuum	34.9	N	N	43.8	N	N	26.5	N	N
Van, basic enclosed	8.7	11.6	18.8	12.1	16.0	19.3	8.4	9.8	9.5
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	29.0	39.1	93.2	37.9	42.2	122.4	23.7	20.5	35.3
Van, open top	27.9	24.2	18.0	32.5	27.4	17.3	20.4	14.6	21.0
Van, step, walk-in, or multistop	9.9	11.8	16.4	12.0	17.8	19.8	7.1	12.5	12.4
Van, other	18.2	N	N	23.6	N	N	15.1	N	N
Other	N	N	N	N	N	N	N	N	N
Truck-tractors	2.6	2.0	3.2	3.8	3.5	4.5	3.6	2.8	4.1
Automobile carrier	29.8	27.3	37.7	32.5	31.8	47.1	13.1	16.3	23.2
Beverage	24.0	23.1	57.5	33.1	26.5	125.7	26.9	12.9	51.2
Curtainside	44.2	N	N	45.0	N	N	8.6	N	N
Dump	8.7	10.9	23.1	12.0	14.3	26.1	9.2	8.9	10.8
Flatbed, stake, or platform	10.2	8.2	10.8	14.0	10.9	10.6	10.2	7.1	9.0
Livestock	44.2	40.3	55.3	49.2	S	S	21.6	S	S
Low boy	19.3	14.1	17.4	32.6	20.5	20.4	28.4	14.9	23.3
Mobile home toter	N	N	N	N	N	N	N	N	N
Open top	25.4	21.9	27.8	35.4	45.1	114.3	24.7	39.5	112.0
Pole, logging, pulpwood, or pipe	40.4	40.3	62.8	S	43.2	S	S	15.5	S
Tank, dry bulk	27.3	42.6	57.3	29.5	42.5	76.2	11.2	10.5	20.0
Tank, liquids or gases	17.0	18.1	31.1	22.6	21.2	34.3	14.8	11.1	16.3
Van, basic enclosed	6.2	5.2	7.2	7.2	6.3	8.2	4.8	3.7	5.8
Van, drop-frame	39.8	23.8	30.3	46.6	28.3	30.9	34.4	15.3	32.7
Van, insulated nonrefrigerated	37.4	49.5	119.7	41.5	S	S	17.9	S	S
Van, insulated refrigerated	14.8	11.8	13.5	17.6	14.6	19.8	9.6	8.6	15.6
Other	N	N	N	N	N	N	N	N	N
Not applicable ²	43.0	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	5.2	6.4	9.6	6.8	7.8	9.6	4.5	4.4	5.1
5,000 to 9,999	7.5	8.1	11.0	7.7	8.4	11.4	1.6	1.9	2.5
10,000 to 19,999	5.7	6.4	9.0	5.9	6.5	9.4	1.4	1.5	2.1
20,000 to 29,999	7.3	9.2	16.8	7.4	9.2	17.2	.8	1.1	1.4
30,000 to 49,999	8.2	8.5	11.1	8.2	8.5	11.1	1.4	1.5	2.1
50,000 to 74,999	10.4	10.0	8.3	10.4	10.3	8.1	1.5	1.5	2.1
75,000 or more	6.8	6.7	9.0	6.8	6.6	8.8	1.9	1.7	2.6
Not applicable ¹	17.8	31.7	93.3	N	N	N	N	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	18.5	14.1	7.8	26.9	25.0	5.4	25.0	20.4	14.2
50 miles or less	2.6	2.9	4.1	4.5	5.3	7.6	3.8	4.5	6.3
51 to 100 miles	7.0	7.4	9.7	8.8	8.4	11.0	6.7	6.0	8.6
101 to 200 miles	10.6	10.4	11.5	11.8	10.1	12.2	7.5	6.6	10.1
201 to 500 miles	13.4	11.3	8.9	13.8	11.8	8.4	9.6	5.0	9.8
501 miles or more	12.7	9.0	12.9	12.7	9.0	10.1	10.4	5.2	9.1
Not reported	8.3	31.7	329.9	9.8	N	N	7.9	N	N
Not applicable	17.8	N	N	N	N	N	N	N	N
PRIMARY JURISDICTION									
Operated in Canada	N	N	N	N	N	N	N	N	N
Operated in Mexico	N	N	N	N	N	N	N	N	N
Operated within the home base state	1.5	N	N	3.3	N	N	3.1	N	N
Operated in states other than the home base state	9.4	N	N	9.7	N	N	7.5	N	N
Not reported	9.9	N	N	11.1	N	N	8.9	N	N
Not applicable ¹	17.8	N	N	N	N	N	N	N	N
MONTHS OPERATED									
12	2.9	N	N	3.8	N	N	3.1	N	N
7 to 11	5.3	N	N	6.8	N	N	5.5	N	N
2 to 6	6.0	N	N	11.0	N	N	9.7	N	N
1 or less	13.2	N	N	29.1	N	N	26.3	N	N
Vehicle not used	17.8	N	N	N	N	N	N	N	N
VEHICLE SIZE									
Light	7.3	6.7	7.5	10.9	11.2	11.6	8.1	8.9	11.7
Medium	6.8	8.1	11.3	9.8	12.9	15.4	7.1	9.5	10.5
Light-heavy	6.9	9.7	17.6	11.9	18.5	26.3	9.7	14.8	14.4
Heavy-heavy	2.3	2.6	3.8	3.3	3.2	4.2	3.3	3.1	3.8
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	17.9	17.6	20.3	31.2	26.8	46.9	25.5	20.1	45.7
6,001 to 8,500	12.9	N	N	16.2	N	N	9.7	N	N
8,501 to 10,000	12.2	N	N	16.7	N	N	11.3	N	N
10,001 to 14,000	9.2	11.7	18.1	13.1	18.3	19.1	9.4	13.0	11.2
14,001 to 16,000	16.6	17.1	20.8	20.0	19.8	36.6	11.2	10.8	23.2
16,001 to 19,500	17.9	19.3	24.5	26.0	27.0	35.9	18.8	20.7	28.8
19,501 to 26,000	6.9	9.7	17.6	11.9	18.5	26.3	9.7	14.8	14.4
26,001 to 33,000	10.4	12.0	19.1	16.6	19.0	30.4	13.2	14.7	19.8
33,001 to 40,000	13.5	11.1	11.8	18.5	14.1	11.6	12.6	12.2	13.0
40,001 to 50,000	8.6	7.9	11.4	12.6	11.9	8.6	10.6	8.8	7.0
50,001 to 60,000	7.9	8.1	13.6	12.0	10.8	12.5	9.5	7.8	7.9
60,001 to 80,000	4.1	4.4	6.9	6.0	5.8	8.7	4.5	4.0	5.5
80,001 to 100,000	10.6	12.7	23.9	17.1	16.7	24.8	13.5	10.5	12.2
100,001 to 130,000	12.7	14.9	26.8	16.9	17.6	26.2	11.1	10.2	12.7
130,001 or more	10.4	11.7	17.4	11.8	13.1	20.4	5.6	6.2	8.7
TOTAL LENGTH (FEET)									
Less than 20.0	5.5	5.9	7.7	9.3	9.5	11.7	7.5	7.2	9.7
20.0 to 27.9	4.9	5.7	8.0	8.0	11.1	13.1	6.3	8.8	9.7
28.0 to 35.9	7.2	8.7	14.7	10.8	14.0	18.1	7.7	10.2	10.1
36.0 to 40.9	9.9	14.6	28.7	13.0	17.3	55.4	10.3	11.0	23.7
41.0 to 44.9	15.9	20.8	30.4	21.8	24.5	72.4	20.2	22.8	58.1
45.0 to 49.9	12.6	14.8	36.3	16.5	19.5	63.1	13.4	16.5	28.1
50.0 to 54.9	15.4	14.7	26.6	24.0	18.8	22.9	21.2	15.0	15.6
55.0 to 59.9	9.9	7.0	8.7	13.3	8.4	7.7	10.3	5.3	7.9
60.0 to 64.9	8.3	7.6	8.5	9.9	8.9	7.6	6.1	4.7	5.8
65.0 to 69.9	8.5	8.3	11.8	10.1	9.7	13.7	5.7	5.4	7.7
70.0 to 74.9	11.4	11.8	20.9	12.9	14.4	27.0	7.4	8.3	12.1
75.0 to 79.9	24.4	N	N	29.1	N	N	15.9	N	N
80.0 or more	N	N	N	N	N	N	N	N	N
MILES PER GALLON									
Less than 5	6.1	6.7	8.6	8.8	8.5	11.5	7.3	7.1	10.1
5 to 6.9	4.7	4.5	5.6	6.2	5.1	5.9	5.4	4.6	6.0
7 to 8.9	7.8	7.8	9.0	10.6	11.6	12.1	8.6	9.0	11.8
9 to 10.9	7.2	8.0	10.5	11.2	11.2	14.3	8.5	8.2	11.0
11 to 12.9	11.2	13.4	21.0	15.3	18.9	26.3	10.6	14.2	15.9
13 to 14.9	21.3	23.5	32.4	24.3	28.1	28.3	12.4	16.0	15.1
15 or more	14.9	15.0	18.2	19.5	18.8	19.3	12.4	11.3	13.9
15 to 20.9	14.9	15.2	18.8	19.5	19.1	20.1	12.4	11.7	14.2
21 to 24.9	N	S	S	N	S	S	N	S	S
25 or more	N	N	N	N	N	N	N	N	N
Not reported	5.9	9.6	22.1	7.2	14.7	33.3	5.6	11.7	13.5
Not applicable ¹	17.8	N	N	N	N	N	N	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	31.5	N	N	31.8	N	N	14.4	N	N
2002	18.1	N	N	21.9	N	N	17.1	N	N
2001	13.4	N	N	14.3	N	N	11.1	N	N
2000	8.8	N	N	9.5	N	N	7.4	N	N
1999	10.2	N	N	11.2	N	N	8.1	N	N
1998	10.7	S	S	11.6	S	S	8.1	S	S
1997	12.7	13.8	22.9	14.7	14.4	17.2	11.0	10.6	10.5
1996	11.8	12.1	18.0	13.5	12.3	11.0	10.1	9.8	8.0
1995	10.5	11.3	12.1	11.7	11.9	9.2	9.0	7.7	8.3
1994	11.3	11.5	14.0	14.6	13.0	9.0	11.2	7.7	7.3
1993	13.6	13.0	16.5	18.0	13.0	11.9	13.9	10.3	10.6
Pre-1993	3.6	2.6	2.8	6.5	4.4	2.4	5.7	4.0	3.4
VEHICLE ACQUISITION									
New	3.1	4.1	6.3	4.1	4.9	7.3	3.3	4.0	4.7
Used	3.2	3.7	5.1	5.5	6.3	7.3	5.1	5.4	6.1
Not reported	12.6	9.1	7.2	16.8	9.4	6.6	14.4	8.1	12.3
LEASE CHARACTERISTICS									
Leased	7.0	N	N	7.7	N	N	5.8	N	N
Lessee	11.6	N	N	13.7	N	N	10.1	N	N
Vehicle only	11.7	N	N	13.9	N	N	10.2	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	9.3	N	N	9.9	N	N	7.2	N	N
Vehicle only	10.1	N	N	10.9	N	N	8.0	N	N
Vehicle with driver	23.1	N	N	25.9	N	N	11.8	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	37.4	N	N	45.6	N	N	26.2	N	N
Not leased	2.8	N	N	4.3	N	N	3.8	N	N
Not reported	4.4	N	N	7.0	N	N	6.0	N	N
Length of leasing agreement:									
Leased	7.0	N	N	7.7	N	N	5.8	N	N
1 to 11 months	30.3	N	N	31.6	N	N	20.3	N	N
12 months or more	7.2	N	N	8.1	N	N	6.1	N	N
Not reported	S	N	N	S	N	N	S	N	N
Provisions of lease:									
Financing only	9.3	N	N	10.5	N	N	7.5	N	N
Full maintenance	12.1	N	N	13.3	N	N	9.5	N	N
Payment of taxes	11.1	N	N	11.8	N	N	8.5	N	N
Obtaining licenses and permits	10.9	N	N	11.7	N	N	8.6	N	N
Recordkeeping	19.7	N	N	21.7	N	N	14.7	N	N
Fuel contract	33.8	N	N	32.9	N	N	19.7	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	2.2	N	N	4.3	N	N	3.8	N	N
Motor carrier	6.4	N	N	7.1	N	N	5.6	N	N
Owner operator	10.0	N	N	10.7	N	N	8.3	N	N
Rental	10.5	N	N	10.7	N	N	7.2	N	N
Personal transportation	16.9	N	N	21.9	N	N	13.7	N	N
Not applicable ¹	17.8	N	N	N	N	N	N	N	N
For-hire characteristics:									
Type of carrier:									
Contract	7.8	N	N	8.0	N	N	5.7	N	N
Common	8.8	N	N	9.8	N	N	7.7	N	N
Not reported	15.5	N	N	19.9	N	N	16.3	N	N
Not applicable ³	1.6	N	N	3.7	N	N	3.4	N	N
Type of service:									
Truckload	6.0	7.8	14.8	6.6	7.8	12.9	5.0	4.6	5.7
Less-than truckload	13.0	15.3	40.2	14.3	14.8	19.5	8.3	11.8	6.8
Not reported	16.3	N	N	21.2	N	N	17.1	N	N
Not applicable ³	1.6	N	N	3.7	N	N	3.4	N	N
Source of hauls:									
Shippers or receivers	6.6	N	N	7.1	N	N	5.5	N	N
Brokers	15.9	N	N	17.1	N	N	9.5	N	N
Centralized markets or exchanges	36.4	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	12.1	N	N	14.2	N	N	11.4	N	N
Not applicable ³	1.6	N	N	3.7	N	N	3.4	N	N
HAZARDOUS MATERIALS CARRIED⁴									
Carrying hazardous materials	13.1	13.6	16.3	14.8	16.0	19.2	11.1	12.4	17.0
Not carrying hazardous materials	1.9	1.7	2.2	3.6	3.2	3.5	3.3	2.9	3.8
Not reported	9.2	22.6	87.1	11.9	31.7	100.1	9.7	19.0	17.7
Not applicable ⁵	7.7	N	N	9.7	N	N	8.0	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	20.6	N	N	24.2	N	N	15.2	N	N
Air bag(s) (safety device only)	6.9	9.3	24.2	7.8	9.2	15.7	5.8	7.6	6.0
Air compressor (except air brakes)	10.2	N	N	12.2	N	N	9.3	N	N
Air-conditioning	3.0	3.9	7.0	3.5	4.0	5.7	3.1	3.3	3.4
Air springs	5.3	N	N	6.5	N	N	4.8	N	N
Antilock brake system	4.4	8.2	22.4	4.8	8.5	22.2	3.9	7.2	7.7
Collision warning system	33.2	N	N	34.6	N	N	19.2	N	N
Computerized drive train control unit	15.5	N	N	16.6	N	N	12.1	N	N
Crane	19.6	N	N	24.8	N	N	14.6	N	N
Electronic vehicle identification device	21.4	18.8	15.3	24.4	18.1	19.7	11.5	14.8	22.7
Engine retarder/brake	4.7	6.6	11.2	5.9	7.1	12.3	4.4	5.4	6.7
Front-wheel drive	N	N	N	N	N	N	N	N	N
Hoist	8.1	N	N	12.8	N	N	10.3	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	15.0	N	N	16.6	N	N	10.8	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	12.5	N	N	16.8	N	N	10.9	N	N
Mounting bar for snowplow	21.6	N	N	36.5	N	N	28.9	N	N
Navigational system	42.7	23.8	41.6	S	27.3	S	S	13.3	S
Power take-off	4.5	N	N	6.1	N	N	5.3	N	N
Radial tires	2.6	2.3	2.9	3.7	3.2	3.6	3.2	2.9	3.9
Reflective material in addition to those required by law	6.3	5.7	6.6	7.8	6.6	5.6	6.4	5.5	6.0
Road speed governor	5.1	4.5	5.5	5.8	4.8	5.7	4.8	4.3	6.0
Toolbox	6.0	N	N	7.7	N	N	6.2	N	N
Trip recorder or on-board computer with communication capabilities	15.8	N	N	16.2	N	N	11.4	N	N
Trip recorder or on-board computer without communication capabilities	16.0	N	N	17.2	N	N	13.0	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	14.9	N	N	18.1	N	N	12.0	N	N
Transmission type:									
Automatic	4.2	N	N	6.6	N	N	5.2	N	N
Manual	2.5	N	N	3.5	N	N	3.4	N	N
Semiautomated manual	40.3	N	N	43.9	N	N	38.2	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	12.4	N	N	13.7	N	N	9.6	N	N
Braking system:									
Hydraulic (standard)	4.6	6.9	12.3	7.8	11.3	21.4	6.3	9.1	11.6
Hydraulic with power assist	6.4	5.8	6.3	10.5	10.2	10.1	8.5	8.3	11.2
Air	2.5	2.6	3.7	3.6	3.3	4.1	3.5	3.1	3.8
Other	N	30.8	N	N	37.2	N	N	24.1	N
Not reported	11.0	N	N	12.5	N	N	8.9	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	4.4	4.3	5.3	8.4	8.4	10.0	7.0	7.2	9.9
Diesel	2.2	2.7	4.0	3.0	3.5	4.4	2.8	2.9	3.3
Natural gas	N	N	N	N	N	N	N	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	N	N	N	N	N	N	N	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ¹	17.8	N	N	N	N	N	N	N	N
Cylinders ⁶ :									
4 cylinders	14.8	18.6	32.7	18.2	19.6	30.5	10.3	15.1	15.1
6 cylinders	2.6	3.2	5.2	3.4	3.6	4.9	3.1	3.0	3.4
8 cylinders	3.8	4.1	5.1	7.0	8.7	8.2	5.9	7.3	7.4
Other	8.6	8.1	9.2	14.8	11.7	12.1	13.2	10.9	14.1
Cubic inch displacement ⁶ :									
Gasoline fuel									
Less than 200	S	S	S	S	S	S	S	S	S
200 to 299	23.9	25.9	34.5	27.1	32.5	45.8	12.8	20.4	26.6
300 to 349	22.2	S	S	34.2	S	S	25.7	S	S
350 to 399	7.4	7.5	8.8	11.0	12.1	10.5	8.2	9.5	9.6
400 or more	12.5	13.0	16.9	18.0	19.5	24.1	13.0	14.4	18.8
Not available	13.6	11.3	10.2	49.4	17.9	37.4	47.0	13.9	60.7
Diesel fuel									
Less than 400	2.2	2.7	4.0	3.0	3.5	4.4	2.8	2.9	3.3
400 to 599	10.3	12.3	19.5	13.0	15.5	21.6	7.9	10.3	11.4
600 to 799	5.6	8.1	14.4	8.2	12.7	17.5	6.0	8.4	8.1
800 or more	5.3	5.9	10.1	6.7	7.7	11.6	5.2	5.6	6.8
Not available	4.3	3.6	4.9	6.5	5.0	5.7	5.2	3.8	5.1
Other fuel	7.3	7.1	9.8	11.7	11.0	16.8	9.7	9.1	14.5
Less than 400	49.7	44.4	43.8	S	S	S	S	S	S
400 or more	S	S	S	S	S	S	S	S	S
Not available	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ¹	17.8	N	N	N	N	N	N	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
REFUELING LOCATION									
Gas station	3.0	N	N	5.2	N	N	4.4	N	N
Truck stop	5.7	N	N	6.5	N	N	5.2	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	4.7	N	N	6.2	N	N	5.2	N	N
Other company's/contractor's facility not open to the public	15.3	N	N	20.5	N	N	15.0	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	16.2	N	N	19.3	N	N	13.7	N	N
Not applicable ¹	17.8	N	N	N	N	N	N	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	22.7	49.4	747.0	34.5	S	S	28.9	S	S
Company-owned maintenance facility	3.3	4.0	6.1	4.1	4.8	7.2	3.6	4.1	5.2
General repair business or private mechanic	4.5	5.6	8.5	6.0	7.0	10.3	4.8	5.8	7.1
Dealership service department	7.9	8.8	12.8	9.0	9.6	13.9	6.9	7.4	9.9
Leasing company	28.1	20.9	26.7	31.9	22.1	28.2	18.6	11.4	20.8
Individual not employed/paid by any maintenance type facility:									
Other	5.9	4.8	4.9	9.8	7.0	6.4	8.9	6.3	9.0
Not reported	16.5	11.7	8.6	19.7	14.4	4.7	13.7	8.8	7.3
Not applicable ¹	17.8	N	N	N	N	N	N	N	N
Extensive repairs performed by:									
None performed	2.0	20.1	640.8	3.7	26.5	1 112.6	3.4	23.4	31.0
Company-owned maintenance facility	10.2	6.4	4.5	11.7	7.6	4.3	9.0	6.2	8.9
General repair business or private mechanic	9.4	6.0	4.1	11.6	7.6	6.0	8.8	6.4	12.7
Dealership service department	12.5	6.6	4.4	13.3	7.0	4.0	10.4	5.5	10.1
Leasing company	N	29.3	N	N	32.1	N	N	12.6	N
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	21.0	9.6	5.0	25.7	9.7	5.3	22.0	7.4	20.9
Other	16.6	14.0	13.1	22.7	22.5	18.6	21.5	18.5	27.4
Not reported	N	S	S	N	S	S	N	S	S
Not applicable ¹	17.8	5.0	S	S	8.0	S	S	6.4	S
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	1.7	2.5	3.4	4.5	6.0	7.7	4.1	5.2	6.0
3 axles	2.0	3.0	4.1	5.1	7.1	8.8	4.7	6.0	6.8
4 axles	7.1	8.3	10.7	15.0	14.8	20.4	12.2	12.7	17.3
5 axles or more	12.1	9.3	9.6	17.4	12.2	14.3	12.5	9.1	16.6
Not reported	11.8	N	N	14.0	N	N	7.7	N	N
Combinations:									
Single-unit trucks with trailer:	3.0	3.0	4.1	3.6	3.5	4.3	3.7	3.5	4.6
3 axles	11.4	12.5	16.0	14.5	18.5	19.0	10.5	15.3	15.9
4 axles	31.3	39.5	56.7	40.6	S	S	25.8	S	S
5 axles or more	18.7	17.6	19.9	25.3	24.2	22.6	16.7	16.9	19.9
Not reported	15.0	18.8	25.2	20.5	19.5	28.5	15.5	15.8	21.3
Truck-tractors with single trailer:	S	N	N	S	N	N	S	N	N
3 axles	3.0	2.4	3.7	4.3	3.9	4.9	3.9	3.0	4.4
4 axles	24.6	18.1	31.6	30.2	24.3	60.0	22.8	16.2	41.9
5 axles or more	18.5	10.0	14.1	21.1	13.2	9.7	15.3	8.7	10.2
Not reported	3.5	3.1	4.1	5.3	4.4	5.3	4.3	3.1	4.7
Truck-tractors with double trailers:	11.6	N	N	14.5	N	N	8.9	N	N
5 axles	12.3	11.7	15.4	13.5	13.6	19.9	5.8	7.0	10.3
6 axles	S	N	S	S	N	S	S	N	S
7 axles	S	49.5	S	S	S	S	S	S	S
8 axles or more	N	32.2	N	N	42.2	N	N	20.8	N
Not reported	12.9	13.1	19.5	14.4	14.9	23.3	6.3	7.7	10.6
Truck-tractors with triple trailers:	49.5	N	N	S	N	N	S	N	N
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	N	N	N	N	N	N	N	N	N
Driving axles:									
1	1.8	2.5	3.2	4.7	5.9	7.0	4.4	5.1	6.0
2	2.3	2.8	4.2	3.6	3.8	5.3	3.5	3.4	4.2
3 or more	16.1	15.5	12.6	18.6	18.8	4.5	9.4	8.9	3.8
Not reported	S	N	S	S	N	S	S	N	S
Total liftable axles and locations:									
None	1.1	4.4	12.7	2.8	5.8	16.0	2.7	5.2	5.2
1	10.5	11.5	15.0	18.8	13.6	23.2	14.0	10.9	18.5
Forward of the drive axle	12.1	N	N	23.1	N	N	17.3	N	N
Below the chassis	31.8	N	N	46.8	N	N	25.2	N	N
Beyond the chassis	N	N	N	N	N	N	N	N	N
Not reported	30.4	N	N	38.5	N	N	31.0	N	N
2 or more	10.9	15.3	25.7	14.6	18.1	27.1	9.7	12.6	13.5
Forward of the drive axle	11.5	N	N	15.4	N	N	10.3	N	N
Below the chassis	11.9	N	N	15.6	N	N	10.1	N	N
Beyond the chassis	49.5	N	N	N	N	N	S	N	N
Not reported	49.5	N	N	S	N	N	S	N	N
Not reported	46.7	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]

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	1.1	4.4	12.7	2.8	5.8	16.0	2.7	5.2	5.2
1	10.5	11.5	15.0	18.8	13.6	23.2	14.0	10.9	18.5
0 braking	31.1	N	N	42.3	N	N	28.7	N	N
1 braking	11.4	N	N	17.0	N	N	13.3	N	N
Not reported	43.5	N	N	S	N	N	S	N	N
2 or more	10.9	15.3	25.7	14.6	18.1	27.1	9.7	12.6	13.5
0 braking	S	N	N	S	N	N	S	N	N
1 braking	S	N	N	S	N	N	S	N	N
2 or more braking	11.3	N	N	15.3	N	N	10.3	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	46.7	N	N	S	N	N	S	N	N
CAB TYPE									
Conventional cab	1.3	2.3	3.1	2.9	3.6	4.7	2.8	3.2	3.5
With sleeper	5.8	N	N	7.0	N	N	4.7	N	N
Without sleeper	1.5	N	N	3.7	N	N	3.4	N	N
Not reported	19.6	N	N	22.1	N	N	10.1	N	N
Cab over engine	7.7	8.6	9.9	11.3	9.6	11.4	8.3	6.8	9.7
With sleeper	14.8	N	N	24.7	N	N	19.7	N	N
Without sleeper	9.0	N	N	12.8	N	N	8.8	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	19.5	17.1	8.0	20.9	23.9	8.1	7.5	17.3	15.6
Cab beside engine	N	S	S	N	S	S	N	S	S
Not reported	S	N	N	S	N	N	S	N	N

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

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

Table 4. Trucks by Vehicle Size: 2002

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
Total	3 581.3	3 442.4	29.5	29.2	80.3	X
Coefficient of variation (percent) .....	.8	.9	6.8	6.9	2.3	X
BUSINESS¹						
For-hire transportation or warehousing	37.5	S	5.1	2.9	13.9	27.4
Vehicle leasing or rental	31.8	S	.6	2.7	6.7	39.0
Agriculture, forestry, fishing, or hunting	51.3	30.2	3.2	5.1	12.9	27.4
Mining	1.4	V	S	V	1.2	26.4
Utilities	27.5	S	2.3	.8	2.1	44.3
Construction	220.1	191.4	4.9	5.6	18.3	16.0
Manufacturing	30.9	S	1.4	1.2	5.7	39.8
Wholesale trade	16.5	S	1.7	2.0	4.1	43.9
Retail trade	34.3	S	2.4	2.2	5.4	36.2
Information services	1.0	S	S	V	S	41.5
Waste management, landscaping, or administrative/support services	24.3	S	1.7	2.2	5.8	41.2
Arts, entertainment, or recreation services	S	S	S	S	V	S
Accommodation or food services	1.5	S	S	S	.3	33.2
Other services	68.1	65.5	1.3	.8	.6	31.2
Personal transportation	2 959.8	2 957.8	1.3	S	S	2.0
Not reported	S	S	1.0	1.8	1.4	S
Not applicable ²	47.5	43.3	1.2	1.3	1.6	36.4
BODY TYPE						
Single-unit trucks	3 540.6	3 442.4	29.5	28.5	40.3	.8
Pickup	1 445.2	1 445.2	V	V	V	1.3
Minivan	624.6	624.6	V	V	V	9.0
Other light vans	238.8	238.8	V	V	V	16.3
Sport utility	1 106.7	1 106.7	V	V	V	5.5
Armored	S	V	V	V	S	S
Beverage	1.1	S	S	S	S	40.1
Concrete mixer	3.6	V	V	V	3.6	13.3
Concrete pumper	S	V	V	V	S	S
Crane	S	V	V	V	S	S
Curtainside	S	V	V	V	S	S
Dump	23.8	1.4	4.1	5.8	12.5	7.1
Flatbed, stake, or platform	30.6	6.4	8.9	8.0	7.3	6.6
Low boy	S	V	V	V	S	S
Pole, logging, pulpwood, or pipe	1.1	V	V	S	.9	28.0
Service, utility	6.4	1.7	1.5	2.2	1.0	16.5
Service, other	2.1	1.1	S	S	S	29.0
Street sweeper	S	V	S	V	V	S
Tank, dry bulk	S	V	V	V	S	S
Tank, liquids or gases	2.7	V	S	S	2.6	23.4
Tow/Wrecker	3.7	1.1	1.8	.8	V	22.2
Trash, garbage, or recycling	2.6	V	V	V	2.6	16.0
Vacuum .....	.5	V	V	V	.5	34.9
Van, basic enclosed	19.6	2.0	4.9	7.2	5.5	8.7
Van, insulated nonrefrigerated	S	S	S	S	V	S
Van, insulated refrigerated	2.1	S	S	S	.8	29.0
Van, open top	1.6	V	S	S	.9	27.9
Van, step, walk-in, or multistop	16.2	8.4	6.0	1.8	S	9.9
Van, other	5.3	4.1	.8	S	S	18.2
Other	V	V	V	V	V	N
Truck-tractors	40.7	V	V	.7	40.0	2.6
Automobile carrier .....	.7	V	V	V	.7	29.8
Beverage	1.8	V	V	S	1.7	24.0
Curtainside .....	.3	V	V	V	.3	44.2
Dump	7.9	V	V	S	7.7	8.7
Flatbed, stake, or platform	5.8	V	V	V	5.8	10.2
Livestock .....	.3	V	V	V	.3	44.2
Low boy	1.9	V	V	V	1.9	19.3
Mobile home toter	V	V	V	V	V	N
Open top .....	.9	V	V	V	.9	25.4
Pole, logging, pulpwood, or pipe .....	.4	V	V	V	.4	40.4
Tank, dry bulk .....	.8	V	V	V	.8	27.3
Tank, liquids or gases	2.1	V	V	S	2.0	17.0
Van, basic enclosed	13.4	V	V	S	13.4	6.2
Van, drop-frame .....	.6	V	V	V	.6	39.8
Van, insulated nonrefrigerated .....	.4	V	V	V	.4	37.4
Van, insulated refrigerated	2.6	V	V	V	2.6	14.8
Other	V	V	V	V	V	N
Not applicable ³ .....	.6	V	V	S	.3	43.0
ANNUAL MILES						
Less than 5,000	432.3	398.5	6.4	9.8	17.6	11.5
5,000 to 9,999	563.6	544.9	4.2	4.1	10.3	10.1
10,000 to 19,999	1 728.0	1 700.2	8.6	5.8	13.4	4.6
20,000 to 29,999	502.4	481.9	6.1	5.1	9.2	10.8
30,000 to 49,999	229.9	216.1	2.1	1.7	10.0	16.5
50,000 to 74,999	64.7	57.3	S	.7	6.1	30.9
75,000 or more	13.0	S	S	S	12.0	6.8
Not applicable ²	47.5	43.3	1.2	1.3	1.6	36.4
PRIMARY RANGE OF OPERATION						
Off-the-road	S	S	S	S	1.8	S
50 miles or less	2 492.2	2 415.9	19.5	16.0	40.7	3.0
51 to 100 miles	329.9	309.2	4.1	3.6	13.0	13.6
101 to 200 miles	108.8	99.9	1.7	1.1	6.1	24.1
201 to 500 miles	55.5	50.2	S	S	4.5	33.9
501 miles or more	92.3	86.1	.8	.8	4.6	26.5
Not reported	438.1	423.2	1.5	5.3	8.0	11.7
Not applicable ²	47.5	43.3	1.2	1.3	1.6	36.4

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.....	V	V	V	V	V	N
Operated within the home base state.....	3 069.0	2 954.9	25.7	23.3	65.1	2.0
Operated in states other than the home base state.....	174.0	165.3	1.0	S	7.7	19.2
Not reported.....	290.8	278.9	1.6	4.4	5.9	14.7
Not applicable ²	47.5	43.3	1.2	1.3	1.6	36.4
MONTHS OPERATED						
12.....	2 517.3	2 447.5	17.5	13.4	38.8	2.9
7 to 11.....	506.7	475.9	3.9	4.5	22.4	10.6
2 to 6.....	473.3	445.7	4.8	7.9	14.9	11.1
1 or less.....	36.6	30.0	2.1	2.0	2.5	38.9
Vehicle not used.....	47.5	43.3	1.2	1.3	1.6	36.4
AVERAGE WEIGHT (POUNDS)						
Less than 6,001.....	2 746.0	2 746.0	N	N	N	2.4
6,001 to 8,500.....	621.6	621.6	N	N	N	9.6
8,501 to 10,000.....	74.8	74.8	N	N	N	28.1
10,001 to 14,000.....	18.5	N	18.5	N	N	9.2
14,001 to 16,000.....	6.0	N	6.0	N	N	16.6
16,001 to 19,500.....	5.1	N	5.1	N	N	17.9
19,501 to 26,000.....	29.2	N	N	29.2	N	6.9
26,001 to 33,000.....	14.0	N	N	N	14.0	10.4
33,001 to 40,000.....	6.7	N	N	N	6.7	13.5
40,001 to 50,000.....	12.1	N	N	N	12.1	8.6
50,001 to 60,000.....	10.7	N	N	N	10.7	7.9
60,001 to 80,000.....	23.0	N	N	N	23.0	4.1
80,001 to 100,000.....	5.1	N	N	N	5.1	10.6
100,001 to 130,000.....	3.6	N	N	N	3.6	12.7
130,001 or more.....	5.2	N	N	N	5.2	10.4
TOTAL LENGTH (FEET)						
Less than 20.0.....	2 966.9	2 943.8	10.9	6.8	5.4	2.0
20.0 to 27.9.....	408.9	369.6	13.0	13.2	13.1	11.7
28.0 to 35.9.....	122.4	100.7	2.5	5.1	14.0	20.9
36.0 to 40.9.....	39.3	28.3	1.9	2.1	7.0	36.0
41.0 to 44.9.....	4.5	V	S	1.0	3.0	15.9
45.0 to 49.9.....	6.5	V	S	S	5.7	12.6
50.0 to 54.9.....	3.8	V	S	S	3.3	15.4
55.0 to 59.9.....	7.7	V	V	S	7.5	9.9
60.0 to 64.9.....	8.2	V	V	V	8.2	8.3
65.0 to 69.9.....	7.5	V	V	V	7.5	8.5
70.0 to 74.9.....	4.7	V	V	S	4.7	11.4
75.0 to 79.9.....	1.0	V	V	V	1.0	24.4
80.0 or more.....	V	V	V	V	V	N
MILES PER GALLON						
Less than 5.....	19.5	1.0	S	1.3	17.0	6.1
5 to 6.9.....	36.4	1.4	2.7	3.2	29.0	4.7
7 to 8.9.....	21.4	3.2	4.4	3.3	10.4	7.8
9 to 10.9.....	176.0	155.3	9.0	7.0	4.7	18.0
11 to 12.9.....	246.8	238.2	4.4	2.6	1.6	15.8
13 to 14.9.....	309.6	308.2	.9	S	S	14.3
15 or more.....	2 249.4	2 245.7	2.1	1.0	.6	3.3
15 to 20.9.....	1 762.6	1 758.9	2.1	1.0	.6	4.5
21 to 24.9.....	308.0	308.0	V	V	V	14.4
25 or more.....	178.8	178.8	V	V	V	19.4
Not reported.....	474.8	446.2	4.4	9.2	15.0	11.1
Not applicable ²	47.5	43.3	1.2	1.3	1.6	36.4
MODEL YEAR						
2003.....	1.1	V	S	V	.8	31.5
2002.....	354.2	350.7	S	1.1	1.8	13.4
2001.....	449.3	443.9	1.8	S	3.4	11.7
2000.....	345.3	332.4	1.8	2.1	8.9	13.4
1999.....	313.7	302.6	3.4	2.6	5.2	14.1
1998.....	233.1	222.8	2.5	2.5	5.3	16.5
1997.....	229.9	223.7	1.6	.8	3.7	16.7
1996.....	137.6	130.0	1.5	1.6	4.5	21.6
1995.....	246.2	237.1	1.7	.8	6.5	16.1
1994.....	216.7	208.0	1.6	2.7	4.4	17.1
1993.....	156.4	150.3	1.1	.8	4.2	20.4
Pre-1993.....	898.0	840.9	11.7	13.8	31.6	7.3
VEHICLE ACQUISITION						
New.....	1 609.5	1 543.0	17.3	12.2	37.1	4.9
Used.....	1 771.0	1 705.8	11.3	14.3	39.6	4.5
Not reported.....	200.8	193.7	.8	2.7	3.6	18.0
LEASE CHARACTERISTICS						
Leased.....	422.4	401.5	2.0	4.4	14.4	11.9
Lessee.....	352.4	343.9	1.5	1.5	5.5	13.3
Vehicle only.....	9.1	.8	1.5	1.5	5.4	11.7
Vehicle with driver.....	S	V	V	V	S	S
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	343.1	343.1	V	V	V	13.6
Lessor.....	19.4	S	S	2.9	8.6	36.8
Vehicle only.....	11.2	S	S	2.9	7.4	10.1
Vehicle with driver.....	1.1	V	V	V	1.1	23.1
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	S	S	V	V	S	S
Not reported.....	50.6	50.2	S	V	.4	37.1
Not leased.....	1 739.3	1 662.7	18.5	14.1	44.0	4.6
Not reported.....	1 419.6	1 378.2	8.9	10.6	21.9	5.4

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	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
LEASE CHARACTERISTICS—Con.						
Length of leasing agreement:						
Leased	422.4	401.5	2.0	4.4	14.4	11.9
1 to 11 months	.9	V	V	S	.8	30.3
12 months or more	21.0	1.1	2.0	4.2	13.5	7.2
Not reported	S	V	V	V	S	S
Not applicable ⁴	400.4	400.4	V	V	V	12.5
Provisions of lease ⁵ :						
Financing only	13.8	1.0	1.7	3.0	8.0	9.3
Full maintenance	8.0	S	S	1.8	5.5	12.1
Payment of taxes	10.0	S	.8	2.7	6.3	11.1
Obtaining licenses and permits	10.2	S	.8	2.7	6.5	10.9
Recordkeeping	3.8	V	S	1.8	1.8	19.7
Fuel contract	1.3	V	S	.8	.5	33.8
PRIMARY OPERATOR CLASSIFICATION						
Private	501.1	410.3	20.4	21.1	49.3	9.9
Motor carrier	31.6	S	5.0	2.9	15.4	23.2
Owner operator	9.2	S	S	.9	6.9	10.0
Rental	32.1	S	.9	2.7	6.8	38.6
Personal transportation	2 959.8	2 957.8	1.3	S	S	2.0
Not applicable ²	47.5	43.3	1.2	1.3	1.6	36.4
For-hire characteristics:						
Type of carrier:						
Contract	14.9	1.0	1.6	2.0	10.2	7.8
Common	13.6	S	2.9	1.1	9.4	8.8
Not reported	5.2	.8	1.1	S	2.8	15.5
Not applicable ⁶	3 547.7	3 440.5	23.8	25.4	58.0	.8
Type of service:						
Truckload	20.2	1.0	1.3	1.3	16.7	6.0
Less-than truckload	8.6	S	3.0	1.9	3.2	13.0
Not reported	4.9	S	1.3	S	2.4	16.3
Not applicable ⁶	3 547.7	3 440.5	23.8	25.4	58.0	.8
Source of hauls:						
Shippers or receivers	22.7	.8	4.6	3.0	14.2	6.6
Brokers	3.0	S	S	S	2.5	15.9
Centralized markets or exchanges	1.0	V	V	S	.8	36.4
Other	V	V	V	V	V	N
Not reported	7.0	1.0	.9	S	4.8	12.1
Not applicable ⁶	3 547.7	3 440.5	23.8	25.4	58.0	.8
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	6.3	S	V	S	5.5	13.1
Not carrying hazardous materials	122.3	18.0	23.2	20.4	60.8	1.9
Not reported	15.6	3.6	2.9	3.9	5.3	9.2
Not applicable ⁸	3 437.1	3 420.6	3.4	4.4	8.7	.9
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	3.9	S	.8	1.1	1.4	20.6
Air bag(s) (safety device only)	2 327.6	2 309.6	5.6	3.2	9.3	3.1
Air compressor (except air brakes)	9.0	S	S	1.1	7.1	10.2
Air-conditioning	2 944.3	2 875.4	11.9	11.9	45.1	2.1
Air springs	22.3	S	S	.9	20.4	5.3
Antilock brake system	2 406.0	2 365.1	7.6	7.4	25.9	3.1
Collision warning system	1.5	S	.8	S	.3	33.2
Computerized drive train control unit	461.5	457.4	S	.8	2.8	11.6
Crane	3.1	S	S	.8	2.0	19.6
Electronic vehicle identification device	1.3	V	S	V	1.3	21.4
Engine retarder/brake	21.9	S	.6	.8	20.4	4.7
Front-wheel drive	1 625.5	1 625.5	V	V	V	4.9
Hoist	18.6	1.3	2.9	3.8	10.5	8.1
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	4.2	V	S	S	3.2	15.0
Internet access	S	V	V	V	S	S
Lift gate	10.1	1.6	2.4	4.0	2.1	12.5
Mounting bar for snowplow	138.0	134.9	1.1	.9	1.1	21.6
Navigational system	.8	V	V	V	.8	42.7
Power take-off	43.9	1.3	4.8	7.1	30.6	4.5
Radial tires	2 335.6	2 254.0	17.4	13.2	51.0	3.3
Reflective material in addition to those required by law	26.6	1.9	4.1	4.3	16.3	6.3
Road speed governor	36.5	1.3	5.2	5.8	24.3	5.1
Toolbox	259.2	230.9	7.5	5.8	15.0	14.7
Trip recorder or on-board computer with communication capabilities	191.2	185.6	2.3	1.0	2.3	18.5
Trip recorder or on-board computer without communication capabilities	718.1	714.5	S	V	3.1	8.9
Vehicle control aids for handicapped drivers	V	V	V	V	V	N
Wheelchair lift	V	V	V	V	V	N
Winch	21.1	S	1.8	1.2	2.6	48.4
Transmission type:						
Automatic	3 082.3	3 045.6	14.3	9.4	13.1	1.8
Manual	410.5	317.5	14.1	16.7	62.2	10.8
Semiautomated manual	S	S	V	V	.9	S
Automated manual	S	V	V	S	.2	S
Not reported	80.2	72.3	1.0	2.9	3.9	27.9
Braking system:						
Hydraulic (standard)	49.8	15.5	14.9	11.9	7.5	4.6
Hydraulic with power assist	32.8	9.5	10.6	9.1	3.7	6.4
Air	71.9	S	1.6	4.9	65.0	2.5
Other	V	V	V	V	V	N
Not reported	11.5	1.6	2.4	3.3	4.1	11.0
Not applicable ¹⁰	3 415.4	3 415.4	V	V	V	.9

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	3 340.1	3 309.1	13.4	11.2	6.4	1.2
Diesel	185.9	82.8	14.8	16.6	71.7	12.5
Natural gas	V	V	V	V	V	N
Propane	V	V	V	V	V	S
Alcohol fuels	V	V	V	V	V	N
Electricity	V	V	V	V	V	N
Combination	S	S	V	V	V	S
Other	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not applicable ²	47.5	43.3	1.2	1.3	1.6	36.4
Cylinders ¹¹ :						
4 cylinders	280.5	278.0	1.8	.3	.3	15.2
6 cylinders	1 823.7	1 740.2	7.7	12.4	63.5	4.0
8 cylinders	1 462.8	1 422.4	18.5	13.9	8.0	4.9
Other	14.4	1.8	1.5	2.6	8.6	8.6
Cubic inch displacement ¹¹ :						
Gasoline fuel	3 340.1	3 309.1	13.4	11.2	6.4	1.2
Less than 200	621.1	621.1	V	V	V	9.7
200 to 299	1 483.4	1 481.3	1.3	.8	V	5.0
300 to 349	592.8	591.8	S	S	S	9.8
350 to 399	595.4	581.4	7.6	4.9	1.5	9.4
400 or more	39.2	31.9	3.2	2.5	1.6	36.1
Not available	8.2	1.5	1.1	2.9	2.6	13.6
Diesel fuel	185.9	82.8	14.8	16.6	71.7	12.5
Less than 400	27.7	S	6.0	3.8	2.3	36.3
400 to 599	102.7	66.9	8.7	11.9	15.2	20.5
600 to 799	21.4	V	S	.6	20.6	5.3
800 or more	23.0	V	V	S	22.9	4.3
Not available	11.2	S	V	S	10.8	7.3
Other fuel	S	S	V	V	S	S
Less than 400	S	S	V	V	V	S
400 or more	S	V	V	V	V	S
Not available	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not applicable ²	47.5	43.3	1.2	1.3	1.6	36.4
REFUELING LOCATION						
Gas station	3 278.1	3 217.1	20.9	15.8	24.3	1.4
Truck stop	46.6	S	2.0	2.5	20.4	26.5
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	70.4	30.9	4.1	7.0	28.4	20.1
Other company's/contractor's facility not open to the public	26.8	S	S	.7	3.7	45.9
Other	V	V	V	V	V	N
Not reported	111.9	107.8	S	1.7	1.8	24.3
Not applicable ²	47.5	43.3	1.2	1.3	1.6	36.4
MAINTENANCE⁵						
General maintenance performed by:						
None performed	45.8	43.6	S	S	.9	37.9
Company-owned maintenance facility	287.2	220.3	11.6	11.3	44.1	13.2
General repair business or private mechanic	1 650.4	1 609.9	9.9	7.5	23.2	4.8
Dealership service department	992.5	976.7	5.3	3.0	7.5	7.1
Leasing company	S	S	S	S	.9	S
Individual not employed/paid by any maintenance type facility	1 256.3	1 229.5	4.9	6.5	15.3	5.9
Other	V	V	V	V	V	N
Not reported	126.3	122.3	S	1.6	1.8	22.9
Not applicable ²	47.5	43.3	1.2	1.3	1.6	36.4
Extensive repairs performed by:						
None performed	2 884.6	2 786.2	21.6	19.2	57.7	2.3
Company-owned maintenance facility	25.7	S	2.7	.8	6.7	39.7
General repair business or private mechanic	235.4	223.0	2.9	1.6	7.8	16.4
Dealership service department	158.8	151.9	1.5	1.6	3.8	20.2
Leasing company	V	V	V	V	V	N
Component distributorship (engine, transmission, body, etc.)	S	S	V	S	1.8	S
Individual not employed/paid by any repair type facility	169.0	164.9	S	1.5	2.2	19.8
Other	V	V	V	V	V	N
Not reported	S	S	V	V	S	S
Not applicable ²	47.5	43.3	1.2	1.3	1.6	36.4
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	3 480.8	3 391.9	27.9	26.1	34.9	1.0
2 axles	3 461.0	3 391.9	27.8	25.5	15.9	1.0
3 axles	11.8	V	S	.5	11.2	7.1
4 axles	3.8	V	V	V	3.8	12.1
5 axles or more	4.0	V	V	S	3.9	11.8
Not reported	S	V	V	V	S	S
Combinations	100.6	50.5	1.6	3.1	45.4	18.6
Single-unit trucks with trailer	60.5	50.5	1.6	2.7	5.6	30.8
3 axles	S	S	S	S	S	S
4 axles	33.3	28.5	1.0	1.4	2.5	42.4
5 axles or more	3.5	V	V	S	2.9	15.0
Not reported	S	V	S	S	V	S
Truck-tractors with single trailer	36.3	V	V	S	35.9	3.0
3 axles	1.7	V	V	S	1.6	24.6
4 axles	3.4	V	V	S	3.3	18.5
5 axles or more	27.0	V	V	S	26.8	3.5
Not reported	4.2	V	V	V	4.2	11.6
Truck-tractors with double trailers	3.8	V	V	V	3.8	12.3
5 axles	S	V	V	V	S	S
6 axles	S	V	V	V	S	S
7 axles	V	V	V	V	V	N
8 axles or more	3.5	V	V	V	3.5	12.9
Not reported	.2	V	V	V	.2	49.5
Truck-tractors with triple trailers	V	V	V	V	V	N
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	V	V	V	V	V	N
Not reported	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
TRUCK TYPE AND AXLE ARRANGEMENT—Con.						
Driving axles:						
1	1 893.6	1 815.3	26.3	27.3	24.6	4.2
2	1 685.4	1 627.1	3.2	1.8	53.2	4.7
3 or more	2.2	V	V	V	2.2	16.1
Not reported	S	V	V	V	S	S
Total liftable axles and locations ¹² :						
None	154.8	27.0	29.5	28.9	69.4	1.1
1	6.0	V	V	S	5.8	10.5
Forward of the drive axle	4.2	V	V	V	4.2	12.1
Below the chassis .....	.9	V	V	S	.7	31.8
Beyond the chassis	V	V	V	V	V	N
Not reported .....	.9	V	V	V	.9	30.4
2 or more	4.6	V	V	S	4.6	10.9
Forward of the drive axle	4.2	V	V	S	4.1	11.5
Below the chassis	3.9	V	V	V	3.9	11.9
Beyond the chassis .....	.2	V	V	V	.2	49.5
Not reported .....	.2	V	V	V	.2	49.5
Not reported .....	.5	V	V	V	.5	46.7
Not applicable ¹⁰	3 415.4	3 415.4	V	V	V	.9
Total liftable axles and number of braking axles:						
None	154.8	27.0	29.5	28.9	69.4	1.1
1	6.0	V	V	S	5.8	10.5
0 braking .....	.6	V	V	V	.6	31.1
1 braking	4.7	V	V	V	4.7	11.4
Not reported .....	.7	V	V	S	.5	43.5
2 or more	4.6	V	V	S	4.6	10.9
0 braking	S	V	V	V	S	S
1 braking	S	V	V	V	S	S
2 or more braking	4.3	V	V	S	4.2	11.3
Not reported	S	V	V	V	S	S
Not reported .....	.5	V	V	V	.5	46.7
Not applicable ¹⁰	3 415.4	3 415.4	V	V	V	.9
CAB TYPE						
Conventional cab	148.3	25.8	23.9	27.7	71.0	1.3
With sleeper	13.6	V	V	S	13.2	5.8
Without sleeper	133.1	25.8	23.9	27.3	56.2	1.5
Not reported	1.6	V	V	V	1.6	19.6
Cab over engine	16.0	1.3	5.5	1.5	7.7	7.7
With sleeper	2.7	V	V	V	2.7	14.8
Without sleeper	13.1	1.3	5.5	1.5	4.8	9.0
Not reported	S	V	V	V	S	S
Cab forward of engine	1.6	V	V	V	1.6	19.5
Cab beside engine	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ¹⁰	3 415.4	3 415.4	V	V	V	.9

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	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
Total	3 581.3	3 480.8	100.6	60.5	36.3	3.8	V	X
Coefficient of variation (percent) .....	.8	1.0	18.6	30.8	3.0	12.3	N	X
BUSINESS¹								
For-hire transportation or warehousing	37.5	24.1	13.4	S	12.0	1.1	V	27.4
Vehicle leasing or rental	31.8	27.4	4.4	V	4.4	V	V	39.0
Agriculture, forestry, fishing, or hunting	51.3	28.5	22.8	S	6.1	.4	V	27.4
Mining	1.4	.8	.6	S	.3	S	V	26.4
Utilities	27.5	26.2	1.3	1.1	S	V	V	44.3
Construction	220.1	209.4	10.8	5.1	4.0	1.7	V	16.0
Manufacturing	30.9	28.0	3.0	S	2.6	S	V	39.8
Wholesale trade	16.5	S	2.7	S	2.5	S	V	43.9
Retail trade	34.3	32.3	2.0	S	1.8	V	V	36.2
Information services	1.0	.8	S	V	S	V	V	41.5
Waste management, landscaping, or administrative/support services	24.3	15.1	S	S	.9	S	V	41.2
Arts, entertainment, or recreation services	S	S	V	V	V	V	V	S
Accommodation or food services	1.5	1.1	.3	S	.3	V	V	33.2
Other services	68.1	67.5	.6	S	.3	V	V	31.2
Personal transportation	2 959.8	2 931.3	28.5	28.5	S	V	V	2.0
Not reported	S	S	.9	S	.6	V	V	S
Not applicable ²	47.5	47.5	V	V	V	V	V	36.4
BODY TYPE								
Single-unit trucks	3 540.6	3 480.2	60.5	60.5	N	N	N	.8
Pickup	1 445.2	1 410.0	35.2	35.2	N	N	N	1.3
Minivan	624.6	624.6	V	V	N	N	N	9.0
Other light vans	238.8	238.8	V	V	N	N	N	16.3
Sport utility	1 106.7	1 092.4	S	S	N	N	N	5.5
Armored	S	S	V	V	N	N	N	S
Beverage	1.1	.9	S	S	N	N	N	40.1
Concrete mixer	3.6	3.4	S	S	N	N	N	13.3
Concrete pumper	S	S	V	V	N	N	N	S
Crane	S	S	V	V	N	N	N	S
Curtainside	S	S	V	V	N	N	N	S
Dump	23.8	19.2	4.5	4.5	N	N	N	7.1
Flatbed, stake, or platform	30.6	27.6	3.0	3.0	N	N	N	6.6
Low boy	S	V	S	S	N	N	N	S
Pole, logging, pulpwood, or pipe	1.1	S	.9	.9	N	N	N	28.0
Service, utility	6.4	5.6	.8	.8	N	N	N	16.5
Service, other	2.1	2.1	V	V	N	N	N	29.0
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk	S	S	V	V	N	N	N	S
Tank, liquids or gases	2.7	2.7	V	V	N	N	N	23.4
Tow/Wrecker	3.7	3.7	V	V	N	N	N	22.2
Trash, garbage, or recycling	2.6	2.6	V	V	N	N	N	16.0
Vacuum .....	.5	.5	V	V	N	N	N	34.9
Van, basic enclosed	19.6	19.2	S	S	N	N	N	8.7
Van, insulated nonrefrigerated	S	S	V	V	N	N	N	S
Van, insulated refrigerated	2.1	2.1	V	V	N	N	N	29.0
Van, open top	1.6	1.5	S	S	N	N	N	27.9
Van, step, walk-in, or multistop	16.2	15.7	S	S	N	N	N	9.9
Van, other	5.3	5.1	S	S	N	N	N	18.2
Other	V	V	V	V	N	N	N	N
Truck-tractors	40.7	.6	40.1	N	36.3	3.8	V	2.6
Automobile carrier .....	.7	N	.7	N	.7	V	V	29.8
Beverage	1.8	N	1.8	N	1.8	V	V	24.0
Curtainside .....	.3	N	.3	N	.3	V	V	44.2
Dump	7.9	N	7.9	N	5.0	2.9	V	8.7
Flatbed, stake, or platform	5.8	N	5.8	N	5.7	S	V	10.2
Livestock .....	.3	N	.3	N	.3	V	V	44.2
Low boy	1.9	N	1.9	N	1.9	V	V	19.3
Mobile home toter	V	N	V	N	V	V	V	N
Open top .....	.9	N	.9	N	.9	V	V	25.4
Pole, logging, pulpwood, or pipe .....	.4	N	.4	N	.4	S	V	40.4
Tank, dry bulk .....	.8	N	.8	N	.3	.6	V	27.3
Tank, liquids or gases	2.1	N	2.1	N	2.1	V	V	17.0
Van, basic enclosed	13.4	N	13.4	N	13.4	S	V	6.2
Van, drop-frame .....	.6	N	.6	N	.6	V	V	39.8
Van, insulated nonrefrigerated .....	.4	N	.4	N	.4	V	V	37.4
Van, insulated refrigerated	2.6	N	2.6	N	2.6	S	V	14.8
Other	V	N	V	N	V	V	V	N
Not applicable ³ .....	.6	.6	V	N	V	V	V	43.0
ANNUAL MILES								
Less than 5,000	432.3	402.1	30.3	S	5.6	S	V	11.5
5,000 to 9,999	563.6	557.6	5.9	2.7	3.3	V	V	10.1
10,000 to 19,999	1 728.0	1 699.7	28.3	S	4.0	.3	V	4.6
20,000 to 29,999	502.4	497.6	4.9	1.3	3.6	V	V	10.8
30,000 to 49,999	229.9	215.3	14.6	S	5.7	1.3	V	16.5
50,000 to 74,999	64.7	59.5	5.2	.4	3.8	1.1	V	30.9
75,000 or more	13.0	1.5	11.5	S	10.3	1.0	V	6.8
Not applicable ²	47.5	47.5	V	V	V	V	V	36.4

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	S	S	.8	S	.7	V	V	S
50 miles or less	2 492.2	2 456.4	35.8	21.2	13.2	1.3	V	3.0
51 to 100 miles	329.9	319.3	10.6	2.3	7.2	1.1	V	13.6
101 to 200 miles	108.8	103.6	5.2	S	4.2	.7	V	24.1
201 to 500 miles	55.5	44.5	S	S	3.4	S	V	33.9
501 miles or more	92.3	88.3	4.0	S	3.8	V	V	26.5
Not reported	438.1	404.8	33.3	28.8	38.1	.6	V	11.7
Not applicable ²	47.5	47.5	V	V	V	V	V	36.4
PRIMARY JURISDICTION								
Operated in Canada	V	V	V	V	V	V	V	N
Operated in Mexico	V	V	V	V	V	V	V	N
Operated within the home base state	3 069.0	3 007.6	61.5	31.5	26.7	3.2	V	2.0
Operated in states other than the home base state	174.0	167.3	6.7	S	6.4	S	V	19.2
Not reported	290.8	258.4	32.5	28.7	3.2	.6	V	14.7
Not applicable ²	47.5	47.5	V	V	V	V	V	36.4
MONTHS OPERATED								
12	2 517.3	2 441.1	76.2	53.8	21.2	1.3	V	2.9
7 to 11	506.7	493.8	12.8	3.7	7.1	2.1	V	10.6
2 to 6	473.3	463.0	10.3	2.8	7.0	.5	V	11.1
1 or less	36.6	35.3	1.3	.3	1.1	V	V	38.9
Vehicle not used	47.5	47.5	V	V	V	V	V	36.4
VEHICLE SIZE								
Light	3 442.4	3 391.9	50.5	50.5	V	V	V	.9
Medium	29.5	27.9	1.6	1.6	V	V	V	6.8
Light-heavy	29.2	26.1	3.1	2.7	S	V	V	6.9
Heavy-heavy	80.3	34.9	45.4	5.6	35.9	3.8	V	2.3
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	2 746.0	2 731.8	S	S	V	V	V	2.4
6,001 to 8,500	621.6	614.5	S	S	V	V	V	9.6
8,501 to 10,000	74.8	45.6	29.3	29.3	V	V	V	28.1
10,001 to 14,000	18.5	17.9	S	S	V	V	V	9.2
14,001 to 16,000	6.0	5.1	.8	.8	V	V	V	16.6
16,001 to 19,500	5.1	4.9	S	S	V	V	V	17.9
19,501 to 26,000	29.2	26.1	3.1	2.7	S	V	V	6.9
26,001 to 33,000	14.0	11.8	2.2	1.5	.6	V	V	10.4
33,001 to 40,000	6.7	4.7	2.0	1.0	1.0	V	V	13.5
40,001 to 50,000	12.1	7.8	4.3	.6	3.7	V	V	8.6
50,001 to 60,000	10.7	5.5	5.2	.9	4.3	V	V	7.9
60,001 to 80,000	23.0	4.2	18.8	.5	18.2	S	V	4.1
80,001 to 100,000	5.1	.4	4.7	S	4.5	V	V	10.6
100,001 to 130,000	3.6	.6	3.1	.4	1.9	.7	V	12.7
130,001 or more	5.2	V	5.2	.5	1.6	3.0	V	10.4
TOTAL LENGTH (FEET)								
Less than 20.0	2 966.9	2 966.9	V	V	V	V	V	2.0
20.0 to 27.9	408.9	386.6	S	S	V	V	V	11.7
28.0 to 35.9	122.4	112.8	S	S	S	V	V	20.9
36.0 to 40.9	39.3	S	27.3	S	3.8	V	V	36.0
41.0 to 44.9	4.5	1.5	3.0	1.1	1.9	V	V	15.9
45.0 to 49.9	6.5	.7	5.8	1.5	4.2	S	V	12.6
50.0 to 54.9	3.8	S	3.6	1.3	2.1	S	V	15.4
55.0 to 59.9	7.7	V	7.7	1.1	6.2	.4	V	9.9
60.0 to 64.9	8.2	V	8.2	S	7.0	1.0	V	8.3
65.0 to 69.9	7.5	V	7.5	.3	5.8	1.4	V	8.5
70.0 to 74.9	4.7	V	4.7	S	4.1	.6	V	11.4
75.0 to 79.9	1.0	V	1.0	V	.8	.3	V	24.4
80.0 or more	V	V	V	V	V	V	V	N
MILES PER GALLON								
Less than 5	19.5	9.4	10.1	1.5	5.8	2.8	V	6.1
5 to 6.9	36.4	16.2	20.2	2.6	17.2	.4	V	4.7
7 to 8.9	21.4	15.5	5.9	1.5	4.3	S	V	7.8
9 to 10.9	176.0	159.2	S	S	.6	V	V	18.0
11 to 12.9	246.8	239.0	S	S	S	V	V	15.8
13 to 14.9	309.6	309.3	S	S	S	V	V	14.3
15 or more	2 249.4	2 234.5	S	S	V	V	V	3.3
15 to 20.9	1 762.6	1 747.7	S	S	V	V	V	4.5
21 to 24.9	308.0	308.0	V	V	V	V	V	14.4
25 or more	178.8	178.8	V	V	V	V	V	19.4
Not reported	474.8	450.1	24.6	S	8.2	.5	V	11.1
Not applicable ²	47.5	47.5	V	V	V	V	V	36.4

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
MODEL YEAR								
2003	1.1	S	.6	V	.4	S	V	31.5
2002	354.2	353.4	.8	S	.6	S	V	13.4
2001	449.3	447.1	2.1	S	2.1	V	V	11.7
2000	345.3	340.0	5.3	S	4.4	.3	V	13.4
1999	313.7	309.9	3.8	S	2.6	.6	V	14.1
1998	233.1	229.0	4.1	1.1	2.8	S	V	16.5
1997	229.9	220.3	S	S	1.3	.5	V	16.7
1996	137.6	127.3	S	S	2.0	.6	V	21.6
1995	246.2	242.0	4.2	S	3.3	.4	V	16.1
1994	216.7	199.6	S	S	2.5	S	V	17.1
1993	156.4	146.6	S	S	2.0	.3	V	20.4
Pre-1993	898.0	865.1	32.9	S	12.3	.6	V	7.3
VEHICLE ACQUISITION								
New	1 609.5	1 565.2	44.3	25.8	16.6	2.0	V	4.9
Used	1 771.0	1 717.3	53.8	34.5	18.0	1.3	V	4.5
Not reported	200.8	198.3	2.5	S	1.7	.6	V	18.0
LEASE CHARACTERISTICS								
Leased	422.4	412.9	9.5	1.0	7.9	.6	V	11.9
Lessee	352.4	349.1	3.2	.6	2.3	.3	V	13.3
Vehicle only	9.1	6.0	3.1	.6	2.2	.3	V	11.7
Vehicle with driver	S	V	S	V	S	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	343.1	343.1	V	V	V	V	V	13.6
Lessor	19.4	S	6.0	S	5.4	.3	V	36.8
Vehicle only	11.2	6.3	4.9	S	4.4	S	V	10.1
Vehicle with driver	1.1	S	1.1	V	1.0	S	V	23.1
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	S	S	V	V	V	V	V	S
Not reported	50.6	50.3	.3	V	.3	V	V	37.1
Not leased	1 739.3	1 705.5	33.8	S	19.1	2.1	V	4.6
Not reported	1 419.6	1 362.3	57.3	46.8	9.3	1.2	V	5.4
Length of leasing agreement:								
Leased	422.4	412.9	9.5	1.0	7.9	.6	V	11.9
1 to 11 months	.9	S	.7	V	.6	S	V	30.3
12 months or more	21.0	12.3	8.7	1.0	7.2	.5	V	7.2
Not reported	S	V	S	V	S	V	V	S
Not applicable ⁴	400.4	400.4	V	V	V	V	V	12.5
Provisions of lease ⁵ :								
Financing only	13.8	9.0	4.7	.8	3.5	.4	V	9.3
Full maintenance	8.0	4.5	3.5	V	3.5	V	V	12.1
Payment of taxes	10.0	6.1	3.9	S	3.7	V	V	11.1
Obtaining licenses and permits	10.2	5.9	4.4	S	4.1	S	V	10.9
Recordkeeping	3.8	2.7	1.1	S	.8	S	V	19.7
Fuel contract	1.3	1.0	.3	V	.3	V	V	33.8
PRIMARY OPERATOR CLASSIFICATION								
Private	501.1	451.4	49.7	31.0	17.0	1.7	V	9.9
Motor carrier	31.6	19.9	11.8	S	9.8	1.7	V	23.2
Owner operator	9.2	3.2	6.0	.6	5.0	.4	V	10.0
Rental	32.1	27.5	4.7	S	4.5	V	V	38.6
Personal transportation	2 959.8	2 931.3	28.5	28.5	S	V	V	2.0
Not applicable ²	47.5	47.5	V	V	V	V	V	36.4
For-hire characteristics:								
Type of carrier:								
Contract	14.9	5.5	9.4	S	8.1	1.1	V	7.8
Common	13.6	7.0	6.6	S	5.3	.9	V	8.8
Not reported	5.2	3.4	1.8	S	1.4	S	V	15.5
Not applicable ⁶	3 547.7	3 464.8	82.8	59.6	21.5	1.7	V	.8
Type of service:								
Truckload	20.2	6.1	14.1	.6	11.5	1.9	V	6.0
Less-than truckload	8.6	6.5	2.1	V	2.1	V	V	13.0
Not reported	4.9	3.4	1.5	S	1.1	S	V	16.3
Not applicable ⁶	3 547.7	3 464.8	82.8	59.6	21.5	1.7	V	.8
Source of hauls:								
Shippers or receivers	22.7	10.2	12.5	S	10.6	1.4	V	6.6
Brokers	3.0	.7	2.3	V	2.1	S	V	15.9
Centralized markets or exchanges	1.0	.9	.1	V	S	V	V	36.4
Other	V	V	V	V	V	V	V	N
Not reported	7.0	4.2	2.9	S	2.0	.5	V	12.1
Not applicable ⁶	3 547.7	3 464.8	82.8	59.6	21.5	1.7	V	.8
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	6.3	2.9	3.4	S	3.3	S	V	13.1
Not carrying hazardous materials	122.3	83.7	38.7	9.7	25.7	3.3	V	1.9
Not reported	15.6	11.4	4.2	.9	2.8	.5	V	9.2
Not applicable ⁸	3 437.1	3 382.8	54.3	49.8	4.5	V	V	.9
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	3.9	3.2	S	S	V	V	V	20.6
Air bag(s) (safety device only)	2 327.6	2 292.3	35.3	29.3	5.9	S	V	3.1
Air compressor (except air brakes)	9.0	4.1	4.9	.6	4.0	.3	V	10.2
Air-conditioning	2 944.3	2 880.3	64.0	33.6	27.4	3.0	V	2.1
Air springs	22.3	6.8	15.4	.6	12.9	1.9	V	5.3

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
EQUIPMENT TYPE^{5 9}—Con.								
Antilock brake system	2 406.0	2 352.1	54.0	37.3	15.2	1.4	V	3.1
Collision warning system	1.5	1.2	.3	V	.3	V	V	33.2
Computerized drive train control unit	461.5	459.5	2.0	S	1.8	V	V	11.6
Crane	3.1	2.6	.5	.2	.3	V	V	19.6
Electronic vehicle identification device	1.3	S	1.3	V	1.1	S	V	21.4
Engine retarder/brake	21.9	4.3	17.6	1.2	14.0	2.3	V	4.7
Front-wheel drive	1 625.5	1 590.0	35.5	35.5	V	V	V	4.9
Hoist	18.6	16.1	2.5	2.5	V	V	V	8.1
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	4.2	1.3	2.8	S	2.3	.4	V	15.0
Internet access	S	S	V	V	V	V	V	S
Lift gate	10.1	9.7	S	S	V	V	V	12.5
Mounting bar for snowplow	138.0	116.4	S	S	V	V	V	21.6
Navigational system	.8	S	S	V	S	S	V	42.7
Power take-off	43.9	27.4	16.5	4.3	9.4	2.8	V	4.5
Radial tires	2 335.6	2 266.2	69.4	41.7	24.6	3.1	V	3.3
Reflective material in addition to those required by law	26.6	17.5	9.1	2.1	6.2	.8	V	6.3
Road speed governor	36.5	19.0	17.5	2.1	13.9	1.5	V	5.1
Toolbox	259.2	235.5	23.7	S	5.3	.9	V	14.7
Trip recorder or on-board computer with communication capabilities	191.2	189.4	1.8	V	1.6	S	V	18.5
Trip recorder or on-board computer without communication capabilities	718.1	716.0	2.1	V	1.9	S	V	8.9
Vehicle control aids for handicapped drivers	V	V	V	V	V	V	V	N
Wheelchair lift	V	V	V	V	V	V	V	N
Winch	21.1	20.7	S	S	S	V	V	48.4
Transmission type:								
Automatic	3 082.3	3 028.4	53.9	52.6	1.3	V	V	1.8
Manual	410.5	367.0	43.5	7.4	32.6	3.5	V	10.8
Semiautomated manual	S	S	S	V	S	V	V	S
Automated manual	S	S	S	V	V	V	V	S
Not reported	80.2	77.6	2.6	S	1.8	.4	V	27.9
Braking system:								
Hydraulic (standard)	49.8	46.6	3.2	2.7	.5	V	V	4.6
Hydraulic with power assist	32.8	29.3	3.4	2.7	.7	V	V	6.4
Air	71.9	30.3	41.6	4.8	33.4	3.4	V	2.5
Other	V	V	V	V	V	V	V	N
Not reported	11.5	8.7	2.8	.7	1.7	.4	V	11.0
Not applicable ¹⁰	3 415.4	3 365.8	49.6	49.6	V	V	V	.9
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	3 340.1	3 286.0	54.1	53.7	S	V	V	1.2
Diesel	185.9	139.4	46.5	6.8	35.9	3.8	V	12.5
Natural gas	V	V	V	V	V	V	V	N
Propane	S	S	V	V	V	V	V	S
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	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	47.5	47.5	V	V	V	V	V	36.4
Cylinders¹¹:								
4 cylinders	280.5	280.3	S	S	V	V	V	15.2
6 cylinders	1 823.7	1 767.5	56.1	S	33.4	3.5	V	4.0
8 cylinders	1 462.8	1 421.9	40.9	40.2	.7	S	V	4.9
Other	14.4	11.0	3.4	.9	2.2	.3	V	8.6
Cubic inch displacement¹¹:								
Gasoline fuel	3 340.1	3 286.0	54.1	53.7	S	V	V	1.2
Less than 200	621.1	613.9	S	S	V	V	V	9.7
200 to 299	1 483.4	1 483.4	V	V	V	V	V	5.0
300 to 349	592.8	578.5	S	S	V	V	V	9.8
350 to 399	595.4	564.5	31.0	31.0	V	V	V	9.4
400 or more	39.2	38.1	1.1	1.0	S	V	V	36.1
Not available	8.2	7.6	S	S	S	V	V	13.6
Diesel fuel	185.9	139.4	46.5	6.8	35.9	3.8	V	12.5
Less than 400	27.7	26.9	.8	.7	S	V	V	36.3
400 to 599	102.7	97.3	5.4	3.3	2.1	V	V	20.5
600 to 799	21.4	8.1	13.2	.6	12.3	.3	V	5.3
800 or more	23.0	2.6	20.4	1.7	15.8	2.9	V	4.3
Not available	11.2	4.5	6.7	.5	5.5	.7	V	7.3
Other fuel	S	S	V	V	V	V	V	S
Less than 400	S	S	V	V	V	V	V	S
400 or more	S	S	V	V	V	V	V	S
Not available	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	47.5	47.5	V	V	V	V	V	36.4
REFUELING LOCATION								
Gas station	3 278.1	3 220.0	58.1	48.7	9.2	.3	V	1.4
Truck stop	46.6	29.9	16.7	1.5	14.0	1.2	V	26.5
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	70.4	55.4	15.0	2.8	10.6	1.7	V	20.1
Other company's/contractor's facility not open to the public	26.8	S	2.3	S	1.8	S	V	45.9
Other	V	V	V	V	V	V	V	N
Not reported	111.9	103.4	S	S	.8	.5	V	24.3
Not applicable ²	47.5	47.5	V	V	V	V	V	36.4

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
MAINTENANCE⁵								
General maintenance performed by:								
None performed	45.8	44.9	.9	S	.4	S	V	37.9
Company-owned maintenance facility	287.2	260.0	27.2	4.5	20.0	2.6	V	13.2
General repair business or private mechanic	1 650.4	1 614.3	36.1	24.8	11.0	.3	V	4.8
Dealership service department	992.5	987.3	5.3	.6	4.3	.3	V	7.1
Leasing company	S	S	.7	S	.4	S	V	S
Individual not employed/paid by any maintenance type facility								
Other	1 256.3	1 224.2	32.0	S	7.6	.4	V	5.9
Not reported	126.3	117.9	S	S	.6	.5	V	22.9
Not applicable ²	47.5	47.5	V	V	V	V	V	36.4
Extensive repairs performed by:								
None performed	2 884.6	2 827.0	57.6	28.6	27.4	1.6	V	2.3
Company-owned maintenance facility	25.7	21.4	4.3	1.3	2.2	.8	V	39.7
General repair business or private mechanic	235.4	223.1	S	S	3.0	.4	V	16.4
Dealership service department	158.8	148.7	S	S	2.0	.6	V	20.2
Leasing company	V	V	V	V	V	V	V	N
Component distributorship (engine, transmission, body, etc.)								
Individual not employed/paid by any repair type facility	169.0	160.0	.9	S	.5	.3	V	S
Other	V	V	V	V	V	V	V	N
Not reported	S	S	S	V	S	V	V	S
Not applicable ²	47.5	47.5	V	V	V	V	V	36.4
AXLE ARRANGEMENT								
Driving axles:								
1	1 893.6	1 865.6	28.0	21.6	6.3	S	V	4.2
2	1 685.4	1 612.8	72.5	38.8	29.9	3.8	V	4.7
3 or more	2.2	2.2	S	V	S	V	V	16.1
Not reported	S	S	S	V	S	V	V	S
Total liftable axles and locations ¹² :								
None	154.8	105.6	49.2	9.4	35.9	3.8	V	1.1
1	6.0	5.1	.9	.6	.3	V	V	10.5
Forward of the drive axle	4.2	3.4	.7	.5	.3	V	V	12.1
Below the chassis	.9	.8	S	V	S	V	V	31.8
Beyond the chassis	V	V	V	V	V	V	V	N
Not reported	.9	.8	S	S	V	V	V	30.4
2 or more	4.6	3.8	.8	.8	.8	V	V	10.9
Forward of the drive axle	4.2	3.5	.7	.7	.7	V	V	11.5
Below the chassis	3.9	3.3	.6	.6	.6	V	V	11.9
Beyond the chassis	.2	S	S	S	V	V	V	49.5
Not reported	.2	S	S	S	V	V	V	49.5
Not reported	.5	S	S	V	S	V	V	46.7
Not applicable ¹⁰	3 415.4	3 365.8	49.6	49.6	V	V	V	.9
Total liftable axles and number of braking axles:								
None	154.8	105.6	49.2	9.4	35.9	3.8	V	1.1
1	6.0	5.1	.9	.6	.3	V	V	10.5
0 braking	.6	.5	S	S	S	V	V	31.1
1 braking	4.7	3.9	.7	.5	.3	V	V	11.4
Not reported	.7	.6	S	S	V	V	V	43.5
2 or more	4.6	3.8	.8	.8	.8	V	V	10.9
0 braking	S	V	S	S	V	V	V	S
1 braking	S	V	S	S	V	V	V	S
2 or more braking	4.3	3.7	.6	.6	.6	V	V	11.3
Not reported	S	S	V	V	V	V	V	S
Not reported	.5	S	S	V	S	V	V	46.7
Not applicable ¹⁰	3 415.4	3 365.8	49.6	49.6	V	V	V	.9
CAB TYPE								
Conventional cab								
With sleeper	148.3	101.7	46.6	10.5	32.4	3.8	V	1.3
Without sleeper	13.6	S	13.4	V	12.9	.5	V	5.8
Not reported	133.1	101.4	31.7	10.5	18.3	2.9	V	1.5
Not applicable ¹⁰	1.6	V	1.6	V	1.2	.4	V	19.6
Cab over engine								
With sleeper	16.0	11.6	4.4	.4	4.0	S	V	7.7
Without sleeper	2.7	S	2.6	V	2.6	S	V	14.8
Not reported	13.1	11.6	1.6	.4	1.2	V	V	9.0
Not applicable ¹⁰	S	V	S	V	S	V	V	S
Cab forward of engine								
Cab beside engine	1.6	1.6	V	V	V	V	V	19.5
Not reported	V	V	V	V	V	V	V	N
Not applicable ¹⁰	S	S	V	V	V	V	V	S
Not applicable ¹⁰	3 415.4	3 365.8	49.6	49.6	V	V	V	.9

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	51 806.9	48 440.1	425.9	413.2	2 527.7	X
Coefficient of variation (percent)	3.1	3.3	9.8	11.9	3.3	X
BUSINESS¹						
For-hire transportation or warehousing	1 545.1	S	114.5	78.3	953.4	23.8
Vehicle leasing or rental	677.4	S	14.3	56.2	327.9	24.3
Agriculture, forestry, fishing, or hunting	635.1	S	14.4	19.3	179.4	39.4
Mining	33.6	V	S	V	24.1	38.5
Utilities	S	S	29.2	8.2	40.7	S
Construction	4 111.1	3 672.7	65.9	59.3	313.2	20.1
Manufacturing	788.8	S	21.0	S	179.4	45.4
Wholesale trade	480.6	S	46.9	78.6	186.3	28.9
Retail trade	634.0	S	45.0	38.9	118.0	40.0
Information services	13.5	S	S	V	S	46.9
Waste management, landscaping, or administrative/support services	267.1	S	16.2	15.0	120.4	41.5
Arts, entertainment, or recreation services	S	S	S	S	V	S
Accommodation or food services	44.9	S	S	S	30.8	34.6
Other services	1 698.7	1 671.9	13.9	S	6.8	36.7
Personal transportation	39 913.7	39 900.4	S	S	S	3.8
Not reported	170.3	S	S	35.4	41.9	36.9
Not applicable ²	V	V	V	V	V	N
BODY TYPE						
Single-unit trucks	49 853.6	48 440.1	425.9	403.3	584.4	3.2
Pickup	19 104.6	19 104.6	V	V	V	5.6
Minivan	9 402.3	9 402.3	V	V	V	11.6
Other light vans	3 092.3	3 092.3	V	V	V	20.7
Sport utility	16 500.1	16 500.1	V	V	V	7.2
Armored	V	V	V	V	V	N
Beverage	13.6	S	S	S	S	43.6
Concrete mixer	53.2	V	V	V	53.2	15.7
Concrete pumper	S	V	V	V	S	S
Crane	S	V	V	V	S	S
Curtainside	S	V	V	V	S	S
Dump	178.9	20.8	26.2	26.3	105.6	11.1
Flatbed, stake, or platform	268.7	54.9	72.3	68.4	73.1	9.9
Low boy	S	V	V	V	S	S
Pole, logging, pulpwood, or pipe	37.5	V	V	V	36.5	31.7
Service, utility	95.1	19.7	44.2	23.3	7.9	23.1
Service, other	22.7	9.7	S	S	S	39.2
Street sweeper	S	V	S	V	V	S
Tank, dry bulk	S	V	V	V	S	S
Tank, liquids or gases	41.6	V	S	S	40.7	43.3
Tow/Wrecker	51.1	S	26.8	S	V	27.7
Trash, garbage, or recycling	61.8	V	V	V	61.8	18.3
Vacuum	11.6	V	V	V	11.6	43.8
Van, basic enclosed	450.3	S	95.4	176.5	141.4	12.1
Van, insulated nonrefrigerated	S	S	S	S	V	S
Van, insulated refrigerated	76.6	S	S	S	S	37.9
Van, open top	3.6	V	S	S	1.7	32.5
Van, step, walk-in, or multistop	272.4	114.7	125.6	31.1	S	12.0
Van, other	84.3	57.6	S	S	S	23.6
Other	V	V	V	V	V	N
Truck-tractors	1 953.3	V	V	S	1 943.3	3.8
Automobile carrier	52.9	V	V	V	52.9	32.5
Beverage	44.8	V	V	S	44.0	33.1
Curtainside	14.2	V	V	V	14.2	45.0
Dump	235.7	V	V	S	235.6	12.0
Flatbed, stake, or platform	206.8	V	V	V	206.8	14.0
Livestock	6.7	V	V	V	6.7	49.2
Low boy	36.3	V	V	V	36.3	32.6
Mobile home toter	V	V	V	V	V	N
Open top	27.4	V	V	V	27.4	35.4
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Tank, dry bulk	49.2	V	V	V	49.2	29.5
Tank, liquids or gases	108.4	V	V	S	103.3	22.6
Van, basic enclosed	880.4	V	V	S	876.5	7.2
Van, drop-frame	25.4	V	V	V	25.4	46.6
Van, insulated nonrefrigerated	22.9	V	V	V	22.9	41.5
Van, insulated refrigerated	229.9	V	V	V	229.9	17.6
Other	V	V	V	V	V	N
Not applicable ³	V	V	V	V	V	N
ANNUAL MILES						
Less than 5,000	919.1	857.4	10.2	15.0	36.5	13.9
5,000 to 9,999	3 989.8	3 860.2	27.7	30.5	71.5	10.3
10,000 to 19,999	23 286.4	22 900.3	119.3	79.4	187.4	4.7
20,000 to 29,999	10 831.6	10 344.7	143.7	123.9	219.3	10.8
30,000 to 49,999	7 660.0	7 127.0	73.0	66.0	394.0	16.5
50,000 to 74,999	3 772.5	3 332.5	S	39.0	364.8	31.3
75,000 or more	1 347.5	S	S	S	1 254.2	6.8
Not applicable ²	V	V	V	V	V	N
PRIMARY RANGE OF OPERATION						
Off-the-road	S	S	S	S	13.2	S
50 miles or less	34 098.3	32 916.4	262.4	163.3	756.2	4.6
51 to 100 miles	6 265.3	5 676.1	62.9	102.8	423.4	16.3
101 to 200 miles	1 819.1	1 375.5	56.0	S	334.7	24.2
201 to 500 miles	1 384.4	S	S	S	302.3	41.6
501 miles or more	1 785.6	1 352.2	S	S	405.1	26.5
Not reported	6 103.0	5 709.8	16.7	83.7	292.8	12.4
Not applicable ²	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	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	V	V	V	V	V	N
Operated within the home base state	45 273.6	42 868.9	393.7	350.8	1 660.2	3.7
Operated in states other than the home base state	2 501.1	1 861.8	14.2	S	624.3	19.3
Not reported	4 032.1	3 709.4	17.9	61.5	243.3	15.4
Not applicable ²	V	V	V	V	V	N
MONTHS OPERATED						
12	39 590.5	37 181.8	335.5	290.1	1 783.0	4.3
7 to 11	7 407.1	6 692.7	39.0	82.1	593.3	12.8
2 to 6	4 629.1	4 403.5	44.3	37.4	143.9	15.1
1 or less	S	S	S	S	7.4	S
Vehicle not used	V	V	V	V	V	N
AVERAGE WEIGHT (POUNDS)						
Less than 6,001	37 385.9	37 385.9	N	N	N	4.3
6,001 to 8,500	9 828.1	9 828.1	N	N	N	12.2
8,501 to 10,000	1 226.0	1 226.0	N	N	N	32.5
10,001 to 14,000	237.9	N	237.9	N	N	13.1
14,001 to 16,000	99.4	N	99.4	N	N	20.0
16,001 to 19,500	88.5	N	88.5	N	N	26.0
19,501 to 26,000	413.2	N	N	413.2	N	11.9
26,001 to 33,000	235.1	N	N	N	235.1	16.6
33,001 to 40,000	98.6	N	N	N	98.6	18.5
40,001 to 50,000	201.0	N	N	N	201.0	12.6
50,001 to 60,000	252.5	N	N	N	252.5	12.0
60,001 to 80,000	1 202.6	N	N	N	1 202.6	6.0
80,001 to 100,000	112.4	N	N	N	112.4	17.1
100,001 to 130,000	144.5	N	N	N	144.5	16.9
130,001 or more	280.8	N	N	N	280.8	11.8
TOTAL LENGTH (FEET)						
Less than 20.0	41 052.7	40 807.4	127.4	52.4	65.5	3.9
20.0 to 27.9	6 090.5	5 525.4	229.2	190.2	145.8	14.4
28.0 to 35.9	2 146.4	1 757.1	41.2	115.8	232.2	24.9
36.0 to 40.9	615.4	S	21.8	35.6	207.8	33.1
41.0 to 44.9	79.3	V	S	S	72.7	21.8
45.0 to 49.9	146.9	V	S	S	139.9	16.5
50.0 to 54.9	70.9	V	S	S	64.6	24.0
55.0 to 59.9	265.6	V	V	S	263.9	13.3
60.0 to 64.9	380.4	V	V	V	380.4	9.9
65.0 to 69.9	492.8	V	V	V	492.8	10.1
70.0 to 74.9	375.8	V	V	S	371.8	12.9
75.0 to 79.9	90.4	V	V	V	90.4	29.1
80.0 or more	V	V	V	V	V	N
MILES PER GALLON						
Less than 5	542.9	S	S	7.0	512.3	8.8
5 to 6.9	1 224.0	S	47.7	56.7	1 104.3	6.2
7 to 8.9	457.5	44.4	59.3	51.2	302.5	10.6
9 to 10.9	2 479.2	2 150.7	139.4	134.6	54.5	24.0
11 to 12.9	3 074.9	2 961.2	57.8	25.7	30.2	19.4
13 to 14.9	4 762.8	4 742.2	16.5	S	S	18.1
15 or more	32 224.0	32 185.2	25.3	S	S	5.1
15 to 20.9	24 428.9	24 390.2	25.3	S	S	6.2
21 to 24.9	5 320.1	5 320.1	V	V	V	18.1
25 or more	2 475.0	2 475.0	V	V	V	23.9
Not reported	7 041.7	6 319.7	77.5	128.2	516.2	12.0
Not applicable ²	V	V	V	V	V	N
MODEL YEAR						
2003	35.5	V	S	V	27.6	31.8
2002	5 633.5	5 508.3	S	S	81.2	15.6
2001	7 228.5	6 955.9	43.5	S	226.6	13.2
2000	5 258.2	4 720.2	29.2	48.2	460.7	14.3
1999	6 270.2	5 818.4	71.5	88.9	291.4	15.9
1998	3 799.1	3 458.1	51.6	52.7	236.7	20.7
1997	4 154.9	3 945.4	45.2	S	154.9	17.9
1996	2 177.0	1 964.4	23.8	17.2	171.6	23.0
1995	4 283.7	3 989.0	31.8	S	239.5	19.1
1994	3 101.7	2 880.1	27.8	40.3	153.5	20.0
1993	1 934.9	1 793.0	9.5	S	125.0	21.5
Pre-1993	7 929.8	7 407.2	76.0	87.5	359.1	11.1
VEHICLE ACQUISITION						
New	24 959.1	22 864.2	330.8	250.1	1 514.0	6.0
Used	24 237.6	23 163.0	86.2	120.1	868.4	6.6
Not reported	2 610.1	2 413.0	S	43.0	145.3	18.8
LEASE CHARACTERISTICS						
Leased	6 904.5	6 059.7	44.8	101.4	698.7	11.8
Lessee	5 511.0	5 240.8	33.5	21.2	215.4	14.0
Vehicle only	278.0	S	33.5	21.2	210.7	13.9
Vehicle with driver	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Not applicable ⁴	5 228.3	5 228.3	V	V	V	14.7
Lessor	599.5	S	S	80.2	459.5	11.6
Vehicle only	483.4	S	S	80.2	385.6	10.9
Vehicle with driver	73.9	V	V	V	73.9	25.9
Not reported	V	V	V	V	V	N
Not applicable ⁴	S	S	V	V	V	S
Not reported	794.0	769.6	S	V	23.8	37.2
Not leased	26 119.2	24 334.1	285.9	172.4	1 328.8	6.3
Not reported	18 783.2	18 046.3	95.2	139.4	502.3	7.3

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	6 904.5	6 059.7	44.8	101.4	698.7	11.8
1 to 11 months	51.8	V	V	S	47.8	31.6
12 months or more	800.5	19.5	44.8	97.4	638.8	8.1
Not reported	S	V	V	V	S	S
Not applicable ⁴	6 040.1	6 040.1	V	V	V	13.5
Provisions of lease ⁵ :						
Financing only	468.5	18.3	38.0	59.2	353.0	10.5
Full maintenance	336.1	S	S	55.9	268.8	13.3
Payment of taxes	406.8	S	16.3	76.1	313.1	11.8
Obtaining licenses and permits	440.2	S	21.2	76.1	341.6	11.7
Recordkeeping	151.0	V	S	62.1	83.4	21.7
Fuel contract	49.7	V	S	S	28.4	32.9
PRIMARY OPERATOR CLASSIFICATION						
Private	9 325.9	7 867.5	272.6	269.9	915.9	12.7
Motor carrier	1 426.8	S	117.7	62.9	867.4	25.7
Owner operator	456.7	S	S	S	411.9	10.7
Rental	683.7	S	17.9	56.2	330.6	24.0
Personal transportation	39 913.7	39 900.4	S	S	S	3.8
Not applicable ²	V	V	V	V	V	N
For-hire characteristics:						
Type of carrier:						
Contract	886.5	S	33.8	74.3	754.0	8.0
Common	497.0	S	60.0	8.9	426.6	9.8
Not reported	141.1	S	S	S	98.7	19.9
Not applicable ⁶	50 282.3	48 405.9	301.6	326.3	1 248.5	3.2
Type of service:						
Truckload	1 169.3	S	24.4	S	1 079.5	6.6
Less-than truckload	229.1	S	64.9	37.7	117.7	14.3
Not reported	126.2	S	S	S	82.2	21.2
Not applicable ⁶	50 282.3	48 405.9	301.6	326.3	1 248.5	3.2
Source of hauls:						
Shippers or receivers	1 097.0	S	101.9	79.3	899.5	7.1
Brokers	200.0	S	S	S	185.0	17.1
Centralized markets or exchanges	S	V	V	S	S	S
Other	V	V	V	V	V	N
Not reported	208.7	S	17.6	S	176.3	14.2
Not applicable ⁶	50 282.3	48 405.9	301.6	326.3	1 248.5	3.2
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	275.6	S	V	S	253.5	14.8
Not carrying hazardous materials	2 630.4	259.3	339.2	296.0	1 735.9	3.6
Not reported	332.4	27.9	57.7	41.0	205.8	11.9
Not applicable ⁸	48 568.5	48 150.5	29.0	56.4	332.6	3.3
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	42.9	S	S	12.5	16.7	24.2
Air bag(s) (safety device only)	37 694.5	37 030.6	101.9	68.7	493.3	4.6
Air compressor (except air brakes)	341.8	S	S	18.5	307.3	12.2
Air-conditioning	45 325.8	42 743.3	234.1	262.0	2 086.5	3.6
Air springs	1 026.7	S	S	39.5	974.3	6.5
Antilock brake system	38 288.9	36 617.7	154.4	181.1	1 335.6	4.3
Collision warning system	50.3	S	S	S	S	34.6
Computerized drive train control unit	7 597.7	7 428.9	S	S	138.0	13.9
Crane	62.9	S	S	S	41.0	24.8
Electronic vehicle identification device	116.7	V	S	V	115.1	24.4
Engine retarder/brake	1 230.4	S	13.6	S	1 205.9	5.9
Front-wheel drive	24 795.1	24 795.1	V	V	V	6.4
Hoist	179.9	S	31.6	34.1	98.0	12.8
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	234.4	V	S	S	203.2	16.6
Internet access	S	V	V	V	S	S
Lift gate	215.9	27.3	39.5	109.0	40.2	16.8
Mounting bar for snowplow	1 870.8	1 841.3	S	S	9.8	29.9
Navigational system	S	V	V	V	S	S
Power take-off	888.7	S	55.0	66.7	751.0	6.1
Radial tires	34 632.3	32 326.7	317.4	262.9	1 725.3	4.9
Reflective material in addition to those required by law	698.7	22.4	65.7	53.7	556.9	7.8
Road speed governor	1 309.2	26.7	89.5	104.3	1 088.7	5.8
Toolbox	4 188.5	3 504.2	134.0	68.0	482.3	16.1
Trip recorder or on-board computer with communication capabilities	3 376.3	3 160.5	44.9	S	142.8	23.8
Trip recorder or on-board computer without communication capabilities	10 418.2	10 256.8	S	V	156.6	10.5
Vehicle control aids for handicapped drivers	V	V	V	V	V	N
Wheelchair lift	V	V	V	V	V	N
Winch	S	S	30.8	S	39.5	S
Transmission type:						
Automatic	44 499.9	43 978.0	224.1	114.6	183.1	3.8
Manual	5 925.5	3 348.8	193.3	247.4	2 136.1	10.0
Semiautomated manual	38.9	S	V	V	24.8	45.8
Automated manual	S	V	V	S	S	S
Not reported	1 314.6	1 099.1	S	50.1	157.0	26.5
Braking system:						
Hydraulic (standard)	670.5	206.5	211.1	126.0	126.9	7.8
Hydraulic with power assist	483.4	114.2	159.1	160.8	49.2	10.5
Air	2 292.1	S	21.6	71.5	2 198.7	3.6
Other	V	V	V	V	V	N
Not reported	261.6	19.6	34.1	54.8	153.0	12.5
Not applicable ¹⁰	48 099.4	48 099.4	V	V	V	3.3

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.....	47 292.8	47 040.3	138.6	68.5	45.4	3.4
Diesel.....	4 387.9	1 291.8	287.2	344.7	2 464.1	9.6
Natural gas.....	V	V	V	V	V	N
Propane.....	S	V	V	V	S	S
Alcohol fuels.....	V	V	V	V	V	N
Electricity.....	V	V	V	V	V	N
Combination.....	S	S	V	V	V	S
Other.....	V	V	V	V	V	N
Not reported.....	V	V	V	V	V	N
Not applicable ²	V	V	V	V	V	N
Cylinders ¹¹ :						
4 cylinders.....	3 188.5	3 144.5	36.4	S	S	18.1
6 cylinders.....	28 280.2	25 472.8	166.5	283.7	2 357.2	5.5
8 cylinders.....	20 213.0	19 807.9	210.9	117.2	77.0	6.9
Other.....	125.2	S	S	S	90.1	14.8
Cubic inch displacement ¹¹ :						
Gasoline fuel.....	47 292.8	47 040.3	138.6	68.5	45.4	3.4
Less than 200.....	7 726.9	7 726.9	V	V	V	13.5
200 to 299.....	22 748.9	22 713.9	25.1	S	V	6.4
300 to 349.....	8 107.3	8 079.8	S	S	S	12.5
350 to 399.....	8 498.0	8 378.8	81.2	29.7	8.3	12.3
400 or more.....	172.7	114.9	29.1	20.1	8.7	24.5
Not available.....	39.0	S	S	S	4.0	49.4
Diesel fuel.....	4 387.9	1 291.8	287.2	344.7	2 464.1	9.6
Less than 400.....	400.1	S	125.8	68.3	26.3	30.0
400 to 599.....	1 802.2	1 112.0	161.3	261.9	267.0	22.2
600 to 799.....	862.4	V	S	S	853.4	6.7
800 or more.....	941.0	V	V	S	935.8	6.5
Not available.....	382.3	S	V	S	381.6	11.7
Other fuel.....	S	S	V	V	S	S
Less than 400.....	S	S	V	V	V	S
400 or more.....	S	V	V	V	S	S
Not available.....	V	V	V	V	V	N
Not reported.....	V	V	V	V	V	N
Not applicable ²	V	V	V	V	V	N
REFUELING LOCATION						
Gas station.....	46 700.5	45 666.3	279.9	207.0	547.4	3.5
Truck stop.....	1 442.7	S	58.7	64.1	1 047.5	12.0
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.).....	1 242.1	337.3	70.3	75.7	758.8	13.6
Other company's/contractor's facility not open to the public.....	787.3	S	S	S	115.2	47.7
Other.....	V	V	V	V	V	N
Not reported.....	1 634.3	1 544.2	S	22.0	58.9	25.2
Not applicable ²	V	V	V	V	V	N
MAINTENANCE⁵						
General maintenance performed by:						
None performed.....	S	S	S	S	S	S
Company-owned maintenance facility.....	5 982.3	3 955.3	207.6	184.3	1 635.2	14.8
General repair business or private mechanic.....	25 117.9	24 095.4	165.6	124.6	732.3	6.3
Dealership service department.....	15 131.6	14 578.1	103.9	68.8	380.8	8.4
Leasing company.....	249.9	S	S	S	46.5	46.3
Individual not employed/paid by any maintenance type facility.....	17 180.5	16 766.5	21.5	53.2	339.3	8.1
Other.....	V	V	V	V	V	N
Not reported.....	1 770.8	1 690.5	S	22.0	49.1	23.9
Not applicable ²	V	V	V	V	V	N
Extensive repairs performed by:						
None performed.....	41 946.6	39 591.1	317.2	294.0	1 744.3	4.0
Company-owned maintenance facility.....	S	S	44.2	S	220.7	S
General repair business or private mechanic.....	3 858.1	3 531.0	46.8	22.4	257.8	19.6
Dealership service department.....	2 449.0	2 205.4	25.0	24.4	194.2	22.1
Leasing company.....	V	V	V	V	V	N
Component distributorship (engine, transmission, body, etc.).....	S	S	V	S	79.6	S
Individual not employed/paid by any repair type facility.....	2 375.7	2 305.7	S	S	60.6	24.2
Other.....	V	V	V	V	V	N
Not reported.....	S	S	V	V	S	S
Not applicable ²	V	V	V	V	V	N
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer.....	49 152.4	47 868.1	408.1	373.7	502.5	3.2
2 axles.....	48 858.9	47 868.1	408.1	365.5	217.2	3.3
3 axles.....	155.5	V	S	S	147.6	15.0
4 axles.....	70.6	V	V	V	70.6	17.4
5 axles or more.....	66.5	V	V	S	66.3	14.0
Not reported.....	S	V	V	V	S	S
Combinations.....	2 654.5	572.0	17.7	39.6	2 025.2	10.9
Single-unit trucks with trailer.....	701.2	572.0	17.7	29.6	81.9	40.1
3 axles.....	55.5	S	S	S	S	44.6
4 axles.....	576.0	S	S	S	21.6	48.6
5 axles or more.....	66.3	V	V	S	59.6	20.5
Not reported.....	S	V	S	S	V	S
Truck-tractors with single trailer.....	1 746.5	V	V	S	1 736.6	4.3
3 axles.....	42.9	V	V	S	42.1	30.2
4 axles.....	77.4	V	V	S	73.5	21.1
5 axles or more.....	1 401.9	V	V	S	1 401.9	5.3
Not reported.....	224.3	V	V	V	219.1	14.5
Truck-tractors with double trailers.....	206.7	V	V	V	206.7	13.5
5 axles.....	S	V	V	V	S	S
6 axles.....	S	V	V	V	S	S
7 axles.....	V	V	V	V	V	N
8 axles or more.....	184.9	V	V	V	184.9	14.4
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	V	V	V	V	V	N
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	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Driving axles:						
1	24 813.6	23 619.6	390.8	391.5	411.6	6.2
2	26 951.9	24 820.4	35.0	21.8	2 074.7	5.9
3 or more	35.8	V	V	V	35.8	18.6
Not reported	S	V	V	V	S	S
Total liftable axles and locations ¹² :						
None	3 471.5	340.7	425.9	406.4	2 298.6	2.8
1	121.3	V	V	S	114.7	18.8
Forward of the drive axle	90.1	V	V	V	90.1	23.1
Below the chassis	16.6	V	V	S	9.9	46.8
Beyond the chassis	V	V	V	V	V	N
Not reported	14.6	V	V	V	14.6	38.5
2 or more	101.2	V	V	S	101.0	14.6
Forward of the drive axle	87.2	V	V	S	87.0	15.4
Below the chassis	85.2	V	V	V	85.2	15.6
Beyond the chassis	S	V	V	V	S	S
Not reported	S	V	V	V	S	S
Not reported	S	V	V	V	S	S
Not applicable ¹⁰	48 099.4	48 099.4	V	V	V	3.3
Total liftable axles and number of braking axles:						
None	3 471.5	340.7	425.9	406.4	2 298.6	2.8
1	121.3	V	V	S	114.7	18.8
0 braking	13.4	V	V	V	13.4	42.3
1 braking	77.2	V	V	V	77.2	17.0
Not reported	S	V	V	S	S	S
2 or more	101.2	V	V	S	101.0	14.6
0 braking	S	V	V	V	S	S
1 braking	S	V	V	V	S	S
2 or more braking	93.3	V	V	S	93.1	15.3
Not reported	S	V	V	V	S	S
Not reported	S	V	V	V	S	S
Not applicable ¹⁰	48 099.4	48 099.4	V	V	V	3.3
CAB TYPE						
Conventional cab	3 377.6	321.4	308.7	394.2	2 353.3	2.9
With sleeper	997.3	V	V	S	997.3	7.0
Without sleeper	2 296.3	321.4	308.7	394.2	1 272.0	3.7
Not reported	84.0	V	V	V	84.0	22.1
Cab over engine	304.4	19.3	117.2	19.0	149.0	11.3
With sleeper	79.3	V	V	V	79.3	24.7
Without sleeper	221.9	19.3	117.2	19.0	66.5	12.8
Not reported	S	V	V	V	S	S
Cab forward of engine	25.3	V	V	V	25.3	20.9
Cab beside engine	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ¹⁰	48 099.4	48 099.4	V	V	V	3.3

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	51 806.9	49 152.4	2 654.5	701.2	1 746.5	206.7	V	X
Coefficient of variation (percent)	3.1	3.2	10.9	40.1	4.3	13.5	N	X
BUSINESS¹								
For-hire transportation or warehousing	1 545.1	S	933.3	S	883.8	47.3	V	23.8
Vehicle leasing or rental	677.4	418.0	259.4	V	259.4	V	V	24.3
Agriculture, forestry, fishing, or hunting	635.1	S	S	S	94.5	24.8	V	39.4
Mining	33.6	S	20.1	S	S	S	V	38.5
Utilities	S	S	23.8	16.9	S	V	V	S
Construction	4 111.1	3 880.3	230.7	51.6	78.8	100.3	V	20.1
Manufacturing	788.8	S	134.2	S	121.7	S	V	45.4
Wholesale trade	480.6	348.2	132.4	S	124.7	S	V	28.9
Retail trade	634.0	561.3	72.7	S	71.2	V	V	40.0
Information services	13.5	S	S	V	S	V	V	46.9
Waste management, landscaping, or administrative/support services	267.1	114.0	S	S	23.1	S	V	41.5
Arts, entertainment, or recreation services	S	S	V	V	V	V	V	S
Accommodation or food services	44.9	14.1	30.8	V	30.8	V	V	34.6
Other services	1 698.7	1 693.4	S	S	S	V	V	36.7
Personal transportation	39 913.7	39 681.5	S	S	S	V	V	3.8
Not reported	170.3	132.0	38.3	S	36.4	V	V	36.9
Not applicable ²	V	V	V	V	V	V	V	N
BODY TYPE								
Single-unit trucks	49 853.6	49 152.4	701.2	701.2	N	N	N	3.2
Pickup	19 104.6	18 630.9	S	S	N	N	N	5.6
Minivan	9 402.3	9 402.3	V	V	N	N	N	11.6
Other light vans	3 092.3	3 092.3	V	V	N	N	N	20.7
Sport utility	16 500.1	16 412.9	S	S	N	N	N	7.2
Armored	V	V	V	V	N	N	N	N
Beverage	13.6	11.9	S	S	N	N	N	43.6
Concrete mixer	53.2	49.4	S	S	N	N	N	15.7
Concrete pumper	S	S	V	V	N	N	N	S
Crane	S	S	V	V	N	N	N	S
Curtainside	S	S	V	V	N	N	N	S
Dump	178.9	135.1	43.8	43.8	N	N	N	11.1
Flatbed, stake, or platform	268.7	236.6	32.1	32.1	N	N	N	9.9
Low boy	S	V	S	S	N	N	N	S
Pole, logging, pulpwood, or pipe	37.5	S	34.7	34.7	N	N	N	31.7
Service, utility	95.1	85.8	S	S	N	N	N	23.1
Service, other	22.7	22.7	V	V	N	N	N	39.2
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk	S	S	V	V	N	N	N	S
Tank, liquids or gases	41.6	41.6	V	V	N	N	N	43.3
Tow/Wrecker	51.1	51.1	V	V	N	N	N	27.7
Trash, garbage, or recycling	61.8	61.8	V	V	N	N	N	18.3
Vacuum	11.6	11.6	V	V	N	N	N	43.8
Van, basic enclosed	450.3	449.1	S	S	N	N	N	12.1
Van, insulated nonrefrigerated	S	S	V	V	N	N	N	S
Van, insulated refrigerated	76.6	76.6	V	V	N	N	N	37.9
Van, open top	3.6	3.6	S	S	N	N	N	32.5
Van, step, walk-in, or multistop	272.4	262.1	S	S	N	N	N	12.0
Van, other	84.3	84.1	S	S	N	N	N	23.6
Other	V	V	V	V	N	N	N	N
Truck-tractors	1 953.3	V	1 953.3	N	1 746.5	206.7	V	3.8
Automobile carrier	52.9	N	52.9	N	52.9	V	V	32.5
Beverage	44.8	N	44.8	N	44.8	V	V	33.1
Curtainside	14.2	N	14.2	N	14.2	V	V	45.0
Dump	235.7	N	235.7	N	76.7	159.0	V	12.0
Flatbed, stake, or platform	206.8	N	206.8	N	198.1	S	V	14.0
Livestock	6.7	N	6.7	N	6.7	V	V	49.2
Low boy	36.3	N	36.3	N	36.3	V	V	32.6
Mobile home toter	V	N	V	N	V	V	V	N
Open top	27.4	N	27.4	N	27.4	V	V	35.4
Pole, logging, pulpwood, or pipe	S	N	S	N	S	S	V	S
Tank, dry bulk	49.2	N	49.2	N	S	26.9	V	29.5
Tank, liquids or gases	108.4	N	108.4	N	108.4	V	V	22.6
Van, basic enclosed	880.4	N	880.4	N	877.6	S	V	7.2
Van, drop-frame	25.4	N	25.4	N	25.4	V	V	46.6
Van, insulated nonrefrigerated	22.9	N	22.9	N	22.9	V	V	41.5
Van, insulated refrigerated	229.9	N	229.9	N	225.6	S	V	17.6
Other	V	N	V	N	V	V	V	N
Not applicable ³	V	V	V	N	V	V	V	N
ANNUAL MILES								
Less than 5,000	919.1	866.7	52.4	S	11.7	S	V	13.9
5,000 to 9,999	3 989.8	3 948.3	41.5	19.9	21.6	V	V	10.3
10,000 to 19,999	23 286.4	22 875.7	410.7	S	54.8	S	V	4.7
20,000 to 29,999	10 831.6	10 718.5	113.1	27.4	85.7	V	V	10.8
30,000 to 49,999	7 660.0	7 147.7	512.2	S	228.4	55.1	V	16.5
50,000 to 74,999	3 772.5	3 458.6	313.9	21.3	230.6	62.0	V	31.3
75,000 or more	1 347.5	136.8	1 210.7	S	1 113.8	85.8	V	6.8
Not applicable ²	V	V	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			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	S	S	2.7	S	2.3	V	V	S
50 miles or less	34 098.3	33 498.3	600.0	S	337.2	66.0	V	4.6
51 to 100 miles	6 265.3	5 875.2	390.1	40.3	291.9	57.9	V	16.3
101 to 200 miles	1 819.1	1 510.6	308.5	S	259.2	42.7	V	24.2
201 to 500 miles	1 384.4	S	284.5	S	253.5	S	V	41.6
501 miles or more	1 785.6	1 397.0	388.6	S	384.8	V	V	26.5
Not reported	6 103.0	5 422.7	680.3	S	217.6	32.3	V	12.4
Not applicable ²	V	V	V	V	V	V	V	N
PRIMARY JURISDICTION								
Operated in Canada	V	V	V	V	V	V	V	N
Operated in Mexico	V	V	V	V	V	V	V	N
Operated within the home base state	45 273.6	43 859.2	1 414.5	263.7	976.5	174.3	V	3.7
Operated in states other than the home base state	2 501.1	1 901.9	599.3	S	586.6	S	V	19.3
Not reported	4 032.1	3 391.3	640.8	S	183.4	27.4	V	15.4
Not applicable ²	V	V	V	V	V	V	V	N
MONTHS OPERATED								
12	39 590.5	37 533.6	2 056.9	631.2	1 338.6	87.1	V	4.3
7 to 11	7 407.1	6 939.1	468.0	57.6	303.3	107.1	V	12.8
2 to 6	4 629.1	4 506.8	122.4	11.5	98.4	S	V	15.1
1 or less	S	S	7.2	S	S	V	V	S
Vehicle not used	V	V	V	V	V	V	V	N
VEHICLE SIZE								
Light	48 440.1	47 868.1	572.0	572.0	V	V	V	3.3
Medium	425.9	408.1	17.7	17.7	V	V	V	9.8
Light-heavy	413.2	373.7	39.6	29.6	S	V	V	11.9
Heavy-heavy	2 527.7	502.5	2 025.2	81.9	1 736.6	206.7	V	3.3
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	37 385.9	37 361.2	S	S	V	V	V	4.3
6,001 to 8,500	9 828.1	9 616.7	S	S	V	V	V	12.2
8,501 to 10,000	1 226.0	890.1	S	S	V	V	V	32.5
10,001 to 14,000	237.9	230.3	S	S	V	V	V	13.1
14,001 to 16,000	99.4	89.5	S	S	V	V	V	20.0
16,001 to 19,500	88.5	88.3	S	S	V	V	V	26.0
19,501 to 26,000	413.2	373.7	39.6	29.6	S	V	V	11.9
26,001 to 33,000	235.1	193.0	42.1	10.0	32.1	V	V	16.6
33,001 to 40,000	98.6	60.1	38.6	14.5	24.1	V	V	18.5
40,001 to 50,000	201.0	80.4	120.7	3.5	117.1	V	V	12.6
50,001 to 60,000	252.5	88.7	163.8	8.5	155.3	V	V	12.0
60,001 to 80,000	1 202.6	60.6	1 142.0	S	1 121.5	S	V	6.0
80,001 to 100,000	112.4	S	105.8	S	103.4	V	V	17.1
100,001 to 130,000	144.5	13.1	131.4	8.2	88.0	35.2	V	16.9
130,001 or more	280.8	V	280.8	21.3	95.1	164.5	V	11.8
TOTAL LENGTH (FEET)								
Less than 20.0	41 052.7	41 052.7	V	V	V	V	V	3.9
20.0 to 27.9	6 090.5	5 944.9	S	S	V	V	V	14.4
28.0 to 35.9	2 146.4	1 903.7	S	S	S	V	V	24.9
36.0 to 40.9	615.4	S	384.6	S	144.6	V	V	33.1
41.0 to 44.9	79.3	7.3	72.0	6.5	65.5	V	V	21.8
45.0 to 49.9	146.9	S	134.4	14.6	113.5	S	V	16.5
50.0 to 54.9	70.9	S	70.2	11.1	52.5	S	V	24.0
55.0 to 59.9	265.6	V	265.6	19.1	228.0	18.6	V	13.3
60.0 to 64.9	380.4	V	380.4	S	329.3	44.9	V	9.9
65.0 to 69.9	492.8	V	492.8	S	397.0	81.7	V	10.1
70.0 to 74.9	375.8	V	375.8	S	341.4	31.2	V	12.9
75.0 to 79.9	90.4	V	90.4	V	72.9	S	V	29.1
80.0 or more	V	V	V	V	V	V	V	N
MILES PER GALLON								
Less than 5	542.9	144.7	398.2	35.1	211.1	152.0	V	8.8
5 to 6.9	1 224.0	235.1	988.9	30.7	938.7	S	V	6.2
7 to 8.9	457.5	236.3	221.2	16.4	194.2	S	V	10.6
9 to 10.9	2 479.2	2 318.0	S	S	S	V	V	24.0
11 to 12.9	3 074.9	2 850.2	S	S	S	V	V	19.4
13 to 14.9	4 762.8	4 756.6	S	S	S	V	V	18.1
15 or more	32 224.0	32 206.8	S	S	V	V	V	5.1
15 to 20.9	24 428.9	24 411.7	S	S	V	V	V	6.2
21 to 24.9	5 320.1	5 320.1	V	V	V	V	V	18.1
25 or more	2 475.0	2 475.0	V	V	V	V	V	23.9
Not reported	7 041.7	6 404.7	637.0	S	387.4	24.6	V	12.0
Not applicable ²	V	V	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	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	35.5	S	23.3	V	16.2	S	V	31.8
2002	5 633.5	5 567.2	66.3	S	54.6	S	V	15.6
2001	7 228.5	7 036.6	191.9	S	190.4	V	V	13.2
2000	5 258.2	4 890.2	368.0	S	342.5	S	V	14.3
1999	6 270.2	6 012.0	258.2	S	207.4	39.1	V	15.9
1998	3 799.1	3 589.8	209.4	19.2	176.1	S	V	20.7
1997	4 154.9	3 894.4	260.5	S	92.2	32.7	V	17.9
1996	2 177.0	1 917.2	259.8	S	113.0	28.9	V	23.0
1995	4 283.7	4 084.0	199.7	S	166.8	24.3	V	19.1
1994	3 101.7	2 767.0	S	S	105.7	S	V	20.0
1993	1 934.9	1 758.7	176.1	S	75.2	S	V	21.5
Pre-1993	7 929.8	7 623.1	306.7	77.8	206.4	22.6	V	11.1
VEHICLE ACQUISITION								
New	24 959.1	23 601.3	1 357.8	S	1 000.4	120.6	V	6.0
Used	24 237.6	23 071.3	1 166.4	S	650.7	52.3	V	6.6
Not reported	2 610.1	2 479.7	130.4	S	95.5	33.8	V	18.8
LEASE CHARACTERISTICS								
Leased	6 904.5	6 333.2	571.3	12.8	517.3	41.2	V	11.8
Lessee	5 511.0	5 352.9	158.1	6.7	130.1	21.3	V	14.0
Vehicle only	278.0	124.7	153.4	6.7	125.4	21.3	V	13.9
Vehicle with driver	S	V	S	V	S	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	5 228.3	5 228.3	V	V	V	V	V	14.7
Lessor	599.5	208.6	391.0	S	364.9	S	V	11.6
Vehicle only	483.4	166.2	317.2	S	296.5	S	V	10.9
Vehicle with driver	73.9	S	73.8	V	68.5	S	V	25.9
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	S	S	V	V	V	V	V	S
Not reported	794.0	771.7	22.2	V	22.2	V	V	37.2
Not leased	26 119.2	25 024.4	1 094.8	88.1	898.8	107.8	V	6.3
Not reported	18 783.2	17 794.8	988.4	600.3	330.4	57.7	V	7.3
Length of leasing agreement:								
Leased	6 904.5	6 333.2	571.3	12.8	517.3	41.2	V	11.8
1 to 11 months	51.8	S	47.7	V	40.9	S	V	31.6
12 months or more	800.5	289.0	511.5	12.8	464.2	34.4	V	8.1
Not reported	S	V	S	V	S	V	V	S
Not applicable ⁴	6 040.1	6 040.1	V	V	V	V	V	13.5
Provisions of lease⁵:								
Financing only	468.5	195.0	273.5	10.6	232.1	30.8	V	10.5
Full maintenance	336.1	124.7	211.4	V	211.4	V	V	13.3
Payment of taxes	406.8	157.2	249.6	S	245.8	V	V	11.8
Obtaining licenses and permits	440.2	156.4	283.8	S	275.0	S	V	11.7
Recordkeeping	151.0	77.6	73.4	S	64.3	S	V	21.7
Fuel contract	49.7	25.5	S	V	S	V	V	32.9
PRIMARY OPERATOR CLASSIFICATION								
Private	9 325.9	8 347.9	978.0	S	429.2	94.2	V	12.7
Motor carrier	1 426.8	S	786.6	S	695.7	87.7	V	25.7
Owner operator	456.7	62.3	394.4	S	359.8	24.8	V	10.7
Rental	683.7	420.4	263.3	S	261.4	V	V	24.0
Personal transportation	39 913.7	39 681.5	S	S	S	V	V	3.8
Not applicable ²	V	V	V	V	V	V	V	N
For-hire characteristics:								
Type of carrier:								
Contract	886.5	164.6	721.8	S	663.2	57.3	V	8.0
Common	497.0	126.6	370.4	S	316.2	44.0	V	9.8
Not reported	141.1	52.3	88.8	S	76.1	S	V	19.9
Not applicable ⁶	50 282.3	48 808.8	1 473.5	688.3	691.0	94.2	V	3.2
Type of service:								
Truckload	1 169.3	151.4	1 017.8	11.5	905.0	101.3	V	6.6
Less-than truckload	229.1	138.7	90.4	V	90.4	V	V	14.3
Not reported	126.2	53.5	72.8	S	60.1	S	V	21.2
Not applicable ⁶	50 282.3	48 808.8	1 473.5	688.3	691.0	94.2	V	3.2
Source of hauls:								
Shippers or receivers	1 097.0	244.1	852.9	S	769.7	73.0	V	7.1
Brokers	200.0	S	180.2	V	167.3	S	V	17.1
Centralized markets or exchanges	S	S	V	V	S	V	V	S
Other	V	V	V	V	V	V	V	N
Not reported	208.7	66.2	142.5	S	113.1	26.6	V	14.2
Not applicable ⁶	50 282.3	48 808.8	1 473.5	688.3	691.0	94.2	V	3.2
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	275.6	64.5	211.1	S	205.8	S	V	14.8
Not carrying hazardous materials	2 630.4	1 204.1	1 426.3	124.5	1 128.3	173.5	V	3.6
Not reported	332.4	139.9	192.5	S	150.7	28.9	V	11.9
Not applicable ⁸	48 568.5	47 743.9	824.6	562.9	261.8	V	V	3.3
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	42.9	35.8	S	S	V	V	V	24.2
Air bag(s) (safety device only)	37 694.5	36 855.7	838.8	S	403.3	S	V	4.6
Air compressor (except air brakes)	341.8	72.3	269.6	14.5	236.6	18.5	V	12.2
Air-conditioning	45 325.8	43 067.4	2 258.5	S	1 595.2	170.4	V	3.6
Air springs	1 026.7	141.4	885.2	16.5	752.6	116.1	V	6.5

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	38 288.9	36 579.7	1 709.2	565.8	1 057.1	86.2	V	4.3
Collision warning system	50.3	31.8	S	V	S	V	V	34.6
Computerized drive train control unit	7 597.7	7 480.4	117.3	S	114.8	V	V	13.9
Crane	62.9	46.1	S	S	16.8	V	V	24.8
Electronic vehicle identification device	116.7	S	115.1	V	104.7	S	V	24.4
Engine retarder/brake	1 230.4	88.5	1 141.9	39.7	971.1	131.1	V	5.9
Front-wheel drive	24 795.1	24 378.8	S	S	V	V	V	6.4
Hoist	179.9	152.6	27.3	27.3	V	V	V	12.8
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	234.4	45.9	188.6	S	162.2	24.7	V	16.6
Internet access	S	S	V	V	V	V	V	S
Lift gate	215.9	210.6	S	S	V	V	V	16.8
Mounting bar for snowplow	1 870.8	1 420.7	S	S	V	V	V	29.9
Navigational system	S	S	S	V	S	S	V	S
Power take-off	888.7	312.9	575.8	75.9	353.7	146.2	V	6.1
Radial tires	34 632.3	32 800.5	1 831.8	448.4	1 219.9	163.5	V	4.9
Reflective material in addition to those required by law	698.7	265.7	433.0	30.6	354.1	48.4	V	7.8
Road speed governor	1 309.2	393.6	969.6	21.6	857.4	90.5	V	5.8
Toolbox	4 188.5	3 456.5	732.0	S	315.0	44.9	V	16.1
Trip recorder or on-board computer with communication capabilities	3 376.3	3 253.4	122.9	V	117.3	S	V	23.8
Trip recorder or on-board computer without communication capabilities	10 418.2	10 300.6	117.7	V	105.8	S	V	10.5
Vehicle control aids for handicapped drivers	V	V	V	V	V	V	V	N
Wheelchair lift	V	V	V	V	V	V	V	N
Winch	S	S	S	S	S	V	V	S
Transmission type:								
Automatic	44 499.9	43 887.0	612.8	588.7	24.1	V	V	3.8
Manual	5 925.5	4 056.2	1 869.3	109.2	1 574.4	185.7	V	10.0
Semiautomated manual	38.9	S	22.0	V	22.0	V	V	45.8
Automated manual	S	S	S	V	S	V	V	S
Not reported	1 314.6	1 189.4	125.2	S	100.9	21.0	V	26.5
Braking system:								
Hydraulic (standard)	670.5	620.5	50.0	28.2	S	V	V	7.8
Hydraulic with power assist	483.4	429.5	53.9	30.4	23.4	V	V	10.5
Air	2 292.1	430.5	1 861.6	75.5	1 602.9	183.2	V	3.6
Other	V	V	V	V	V	V	V	N
Not reported	261.6	133.4	128.1	S	98.4	23.6	V	12.5
Not applicable ¹⁰	48 099.4	47 538.4	561.0	561.0	V	V	V	3.3
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	47 292.8	46 692.7	600.1	599.5	S	V	V	3.4
Diesel	4 387.9	2 333.4	2 054.4	101.7	1 745.9	206.7	V	9.6
Natural gas	V	V	V	V	V	V	V	N
Propane	S	S	V	V	V	V	V	S
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	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	V	V	V	V	V	V	V	N
Cylinders¹¹:								
4 cylinders	3 188.5	3 187.0	S	S	V	V	V	18.1
6 cylinders	28 280.2	26 285.4	1 994.8	95.1	1 707.1	192.6	V	5.5
8 cylinders	20 213.0	19 605.8	607.2	599.3	S	S	V	6.9
Other	125.2	74.1	51.1	S	34.1	11.6	V	14.8
Cubic inch displacement¹¹:								
Gasoline fuel	47 292.8	46 692.7	600.1	599.5	S	V	V	3.4
Less than 200	7 726.9	7 723.3	S	S	V	V	V	13.5
200 to 299	22 748.9	22 748.9	V	V	V	V	V	6.4
300 to 349	8 107.3	8 077.1	S	S	V	V	V	12.5
350 to 399	8 498.0	7 945.0	S	S	V	V	V	12.3
400 or more	172.7	163.2	S	S	S	V	V	24.5
Not available	39.0	S	S	S	S	V	V	49.4
Diesel fuel	4 387.9	2 333.4	2 054.4	101.7	1 745.9	206.7	V	9.6
Less than 400	400.1	393.3	S	S	S	V	V	30.0
400 to 599	1 802.2	1 716.3	85.9	38.7	47.2	V	V	22.2
600 to 799	862.4	150.4	712.0	6.3	693.1	S	V	6.7
800 or more	941.0	23.1	917.9	42.1	718.4	157.4	V	6.5
Not available	382.3	50.4	331.9	S	286.4	36.8	V	11.7
Other fuel	S	S	V	V	V	V	V	S
Less than 400	S	S	V	V	V	V	V	S
400 or more	S	S	V	V	V	V	V	S
Not available	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	V	V	V	V	V	V	V	N
REFUELING LOCATION								
Gas station	46 700.5	45 845.0	855.5	S	336.7	S	V	3.5
Truck stop	1 442.7	464.6	978.2	18.6	899.9	59.6	V	12.0
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	1 242.1	692.2	549.8	44.1	410.9	94.9	V	13.6
Other company's/contractor's facility not open to the public	787.3	S	96.1	S	73.6	S	V	47.7
Other	V	V	V	V	V	V	V	N
Not reported	1 634.3	1 459.3	S	S	25.3	24.3	V	25.2
Not applicable ²	V	V	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type						Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination			Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer			Truck-tractor with double trailers
MAINTENANCE⁵							
General maintenance performed by:							
None performed	S	S	S	S	S	V	S
Company-owned maintenance facility	5 982.3	4 632.4	1 349.9	85.0	1 122.6	142.4	14.8
General repair business or private mechanic	25 117.9	24 343.4	774.5	S	509.2	S	6.3
Dealership service department	15 131.6	14 792.3	339.4	18.1	307.1	14.2	8.4
Leasing company	249.9	S	36.7	S	31.6	S	46.3
Individual not employed/paid by any maintenance type facility	17 180.5	16 636.7	543.7	S	255.2	23.6	8.1
Other	V	V	V	V	V	V	N
Not reported	1 770.8	1 604.9	S	S	16.2	24.3	23.9
Not applicable ²	V	V	V	V	V	V	N
Extensive repairs performed by:							
None performed	41 946.6	40 405.7	1 540.9	191.5	1 259.6	89.8	4.0
Company-owned maintenance facility	S	S	174.4	21.8	113.6	39.1	S
General repair business or private mechanic	3 858.1	3 541.7	316.4	S	155.7	19.2	19.6
Dealership service department	2 449.0	2 264.9	184.2	S	133.6	33.0	22.1
Leasing company	V	V	V	V	V	V	N
Component distributorship (engine, transmission, body, etc.)	S	S	67.0	S	43.1	20.1	S
Individual not employed/paid by any repair type facility	2 375.7	2 105.8	S	S	47.1	S	24.2
Other	V	V	V	V	V	V	N
Not reported	S	S	S	S	S	S	S
Not applicable ²	V	V	V	V	V	V	N
AXLE ARRANGEMENT							
Driving axles:							
1	24 813.6	24 436.3	377.3	S	156.4	S	6.2
2	26 951.9	24 680.6	2 271.3	S	1 584.2	202.4	5.9
3 or more	35.8	34.6	S	V	S	V	18.6
Not reported	S	S	S	V	S	V	S
Total liftable axles and locations ¹² :							
None	3 471.5	1 441.2	2 030.3	94.3	1 729.2	206.7	2.8
1	121.3	99.4	22.0	9.3	S	V	18.8
Forward of the drive axle	90.1	71.6	18.5	5.9	S	V	23.1
Below the chassis	16.6	16.5	S	V	S	V	46.8
Beyond the chassis	V	V	V	V	V	V	N
Not reported	14.6	11.2	S	S	V	V	38.5
2 or more	101.2	64.6	36.7	36.7	V	V	14.6
Forward of the drive axle	87.2	58.0	29.2	29.2	V	V	15.4
Below the chassis	85.2	54.1	31.1	31.1	V	V	15.6
Beyond the chassis	S	S	S	S	V	V	S
Not reported	S	S	S	S	V	V	S
Not reported	S	S	S	V	S	V	S
Not applicable ¹⁰	48 099.4	47 538.4	561.0	561.0	V	V	3.3
Total liftable axles and number of braking axles:							
None	3 471.5	1 441.2	2 030.3	94.3	1 729.2	206.7	2.8
1	121.3	99.4	22.0	9.3	S	V	18.8
0 braking	13.4	8.4	S	S	S	V	42.3
1 braking	77.2	63.4	13.8	4.9	S	V	17.0
Not reported	S	S	S	S	V	V	S
2 or more	101.2	64.6	36.7	36.7	V	V	14.6
0 braking	S	V	S	S	V	V	S
1 braking	S	V	S	S	V	V	S
2 or more braking	93.3	62.1	31.2	31.2	V	V	15.3
Not reported	S	S	V	V	V	V	S
Not reported	S	S	S	V	S	V	S
Not applicable ¹⁰	48 099.4	47 538.4	561.0	561.0	V	V	3.3
CAB TYPE							
Conventional cab	3 377.6	1 389.5	1 988.2	138.4	1 646.2	203.6	2.9
With sleeper	997.3	V	997.3	V	965.9	31.4	7.0
Without sleeper	2 296.3	1 389.5	906.9	138.4	617.4	151.1	3.7
Not reported	84.0	V	84.0	V	62.9	21.0	22.1
Cab over engine	304.4	199.0	105.4	S	100.3	S	11.3
With sleeper	79.3	V	79.3	V	76.1	S	24.7
Without sleeper	221.9	199.0	22.9	S	21.0	V	12.8
Not reported	S	V	S	V	S	V	S
Cab forward of engine	25.3	25.3	V	V	V	V	20.9
Cab beside engine	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	S
Not applicable ¹⁰	48 099.4	47 538.4	561.0	561.0	V	V	3.3

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	51 806.9	3 707.5	3.1	2.7		
TRAILER CONFIGURATION						
No trailer pulled	47 868.8	1 641.8	3.2	4.3		
Single trailer pulled	3 738.6	1 866.2	8.4	4.0		
Double trailers pulled	199.5	199.5	13.1	13.1		
Triple trailers pulled	V	V	N	N		
Not applicable ¹	V	V	N	N		
RANGE OF OPERATION						
Off-the-road	573.4	38.2	31.8	12.0		
50 miles or less	29 418.8	1 236.7	4.5	4.1		
51 to 100 miles	7 843.1	703.6	10.9	6.0		
101 to 200 miles	3 663.2	510.2	12.3	8.1		
201 to 500 miles	2 288.0	375.7	16.8	8.6		
501 miles or more	1 917.3	402.5	16.2	12.3		
Not reported	6 103.0	440.6	12.4	9.8		
Not applicable ¹	V	V	N	N		
JURISDICTION						
Operated in Canada	133.1	6.9	27.8	22.5		
Operated in Mexico	S	S	S	S		
Operated within the home base state	43 933.4	2 709.1	3.8	3.1		
Operated in states other than the home base state	3 708.3	649.4	12.9	8.3		
Not reported	4 032.1	342.1	15.4	11.1		
Not applicable ¹	V	V	N	N		
OPERATOR CLASSIFICATION						
Private	9 451.4	1 698.9	11.6	4.3		
Motor carrier	1 424.9	1 065.9	25.7	7.0		
Owner operator	530.8	464.1	15.6	10.5		
Rental	692.5	411.9	23.8	10.6		
Personal transportation	39 707.3	66.7	3.7	19.9		
Not applicable ¹	V	V	N	N		
For-hire characteristics:						
Type of carrier:						
Contract	851.7	851.7	7.9	7.9		
Common	531.8	531.8	9.1	9.1		
Not reported	141.1	141.1	19.9	19.9		
Not applicable ^{2 3}	50 282.3	2 183.0	3.2	3.7		
Type of service:						
Truckload	259.6	259.6	11.8	11.8		
Less-than truckload	1 138.7	1 138.7	6.5	6.5		
Not reported	126.2	126.2	21.2	21.2		
Not applicable ^{2 3}	50 282.3	2 183.0	3.2	3.7		
PRODUCTS CARRIED⁴						
Animals and fish, live	S	5.5	S	40.6		
Animal feed and products of animal origin	26.4	23.5	32.5	34.5		
Grains, cereal	S	15.8	S	23.8		
All other agricultural products	S	103.2	S	20.4		
Basic chemicals	S	S	S	S		
Fertilizers and fertilizer materials	27.5	14.2	44.6	32.7		
Pharmaceutical products	S	S	S	S		
All other chemical products and preparations	S	33.0	S	35.8		
Alcoholic beverages	26.4	19.9	31.3	34.3		
Bakery and milled grain products	85.3	82.5	20.2	20.6		
Meat, seafood, and their preparations	63.7	60.3	24.1	24.8		
Tobacco products	S	S	S	S		
All other prepared foodstuffs	201.8	160.2	21.0	15.7		
Logs and other wood in the rough	S	46.0	S	24.7		
Paper or paperboard articles	34.9	33.1	28.3	29.3		
Printed products	S	20.8	S	38.5		
Pulp, newsprint, paper, and paperboard	24.0	17.2	40.5	47.2		
Wood products	503.2	118.8	35.8	15.3		
Articles of base metal	1 076.9	84.9	42.7	20.7		
Base metal in primary or semifinished forms	422.9	96.8	47.4	18.7		
Nonmetallic mineral products	S	98.6	S	12.9		
Tools, nonpowered	2 280.9	191.8	26.3	11.4		
Tools, powered	2 200.2	178.0	29.4	12.1		
Electronic and other electrical equipment	54.0	30.1	44.4	33.0		
Furniture, mattresses, lamps, etc.	88.2	81.6	22.2	23.2		
Machinery	S	70.3	S	21.1		
Miscellaneous manufactured products	S	96.3	S	25.7		
Precision instruments and apparatus	S	22.2	S	34.0		
Textile, leather, and related articles	19.7	19.7	43.0	43.0		
Vehicles, including parts	S	175.2	S	15.0		
All other transportation equipment	33.8	20.1	46.4	38.3		
Coal	S	S	S	S		
Crude petroleum	S	S	S	S		
Gravel or crushed stone	S	82.9	S	11.9		
Metallic ores and concentrates	S	S	S	S		
Monumental or building stone	7.3	7.3	29.2	29.2		
Natural sands	60.4	46.7	25.2	14.3		
All other nonmetallic minerals	21.3	21.3	35.3	35.3		
Fuel oils	S	28.7	S	32.3		
Gasoline and aviation turbine fuel	S	34.8	S	29.1		

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck miles distribution for all trucks	Truck miles distribution excluding pickups, minivans, other light vans, and sport utilities	Coefficient of variation (percent)	
	A	B	A	B
PRODUCTS CARRIED⁴—Con.				
Plastics and rubber	S	25.2	S	31.3
All other coal and refined petroleum products	49.3	49.3	40.7	40.7
Hazardous waste (EPA manifest)	S	S	S	S
All other waste and scrap (non-EPA manifest)	59.6	59.0	15.7	15.8
Recyclable products	31.7	24.8	29.1	30.9
Mail and courier parcels	164.7	144.6	20.3	19.8
Empty shipping containers	48.4	48.4	24.9	24.9
Passengers	S	S	S	S
Mixed freight	95.6	95.6	21.6	21.6
Products, equipment, or materials not elsewhere classified	S	S	S	S
Products not specified	219.5	114.9	35.6	24.0
Not applicable ¹	V	V	N	N
HAZARDOUS MATERIALS CARRIED⁴				
Division 1.1, Explosives	V	V	N	N
Division 1.2, Explosives	V	V	N	N
Division 1.3, Explosives	V	V	N	N
Division 1.4, Explosives	S	S	S	S
Division 1.5, Explosives	S	S	S	S
Division 1.6, Explosives	S	S	S	S
Division 2.1, Flammable gas	42.4	42.4	42.6	42.6
Division 2.2, Nonflammable gas	S	S	S	S
Division 2.3, Poison gas	S	S	S	S
Class 3, Flammable	24.9	24.9	33.0	33.0
Combustible liquid	18.8	18.8	33.1	33.1
Oxygen 2, Oxygen	S	S	S	S
Division 4.1, Flammable solid .....	.4	.4	45.2	45.2
Division 4.2, Spontaneously combustible	S	S	S	S
Division 4.3, Dangerous when wet	S	S	S	S
Division 5.1, Oxidizer	6.5	6.5	41.2	41.2
Division 5.2, Organic peroxide	S	S	S	S
Division 6.1, Poison inhalation hazard	S	S	S	S
Division 6.1, Poison	S	S	S	S
Class 7, Radioactive	S	S	S	S
Class 8, Corrosive	17.0	17.0	29.8	29.8
Class 9	3.3	3.3	43.8	43.8
Hazardous materials not specified	15.0	15.0	42.5	42.5
Not applicable ¹	V	V	N	N

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

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

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

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

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

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

Appendix.

Approximating Unpublished Coefficients of Variation

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

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

Tables 4 and 5

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

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

where:

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

C = the number of trucks in the cell

STATE = the number of trucks in the state

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

Tables 6 and 7

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

Example

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

CV (retail light-sized trucks)=

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

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

Columns of predominately “large trucks:”

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

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

Rows of predominately “large-trucks:”

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

Annual Miles—75,000 miles or more

Vehicle Size—Light-heavy and Heavy-heavy

Average Weight—19,501 pounds or more

Total Length—50.0 or more

Miles per Gallon—Less than 5 and 5 to 6.9

Primary Operator Classification— Motor carrier, Owner operator

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

Hazardous Materials Carried—Carrying hazardous materials

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

Equipment Type, Braking system—All rows except Not applicable

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

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

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

Cab Type—All rows except Not applicable

