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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 Minnesota is 2,739 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 Minnesota, approximately 81.2 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	15.3	15.2	11.8	13.7
Agriculture, forestry, fishing, or hunting	4.7	8.3	11.4	15.5	3 to 4 years old	17.3	16.7	15.3	14.9
Mining .....	.1	S	.1	.1	Over 4 years old	67.5	68.1	72.9	71.4
Construction	8.1	8.7	8.7	9.7	VEHICLE ACQUISITION				
Manufacturing .....	.7	1.3	1.3	.8	New	40.9	37.5	40.7	43.3
Wholesale and retail trade	1.7	6.9	4.8	5.3	Used	54.4	55.2	55.9	54.8
For-hire transportation or warehousing	1.4	1.5	2.2	2.0	Not reported ⁴	4.7	7.3	3.4	1.9
Utilities and all services	4.0	4.3	6.2	3.9	TRUCK TYPE				
Personal transportation	75.9	66.2	64.0	61.4	Single-unit trucks ⁵	94.5	95.5	96.1	96.5
Other, not reported, and not applicable	3.5	2.4	1.2	1.4	2 axles	93.1	93.8	94.2	94.4
BODY TYPE					3 axles or more	1.3	1.7	1.9	2.1
Pickup, minivan, other light vans, and sport utility	92.4	90.5	89.6	87.2	Trailer/axles not specified	V	N	N	N
Flatbed, stake, platform, and low boy	1.5	2.8	3.0	4.6	Combinations	5.5	4.5	3.9	3.5
Van ²	2.5	1.8	1.9	2.1	3 axles	2.0	1.0	.7	.5
Service, utility .....	.1	.2	.2	.3	4 axles	1.6	1.3	1.3	1.2
Van, step, walk-in, or multistop .....	.4	.7	.5	.6	5 axles or more	1.9	2.1	1.8	1.8
Dump	1.5	.9	1.2	1.3	Trailer/axles not specified .....	.1	V	V	V
Tank for liquids, gases, or dry bulk .....	.6	.7	.6	.8	RANGE OF OPERATION				
Other and not applicable	1.1	2.5	3.1	3.0	50 miles or less	74.6	74.9	74.2	77.5
VEHICLE SIZE					51 to 200 miles	11.6	15.2	14.8	13.8
Light	92.5	91.5	91.0	88.9	201 miles or more	4.3	5.5	4.8	3.5
Medium	2.1	2.3	2.4	2.9	Off-the-road, not reported, and not applicable	9.5	4.4	6.1	5.2
Light-heavy	1.3	1.5	2.0	2.6	FUEL TYPE				
Heavy-heavy	4.0	4.7	4.6	5.6	Gasoline	87.7	91.3	92.3	93.6
ANNUAL MILES					All other fuels	10.0	8.2	7.7	6.3
Less than 5,000 ³	15.8	17.2	25.1	27.0	Other, not reported, and not applicable	2.3	.5	V	.1
5,000 to 9,999	21.9	18.8	20.8	21.7					
10,000 to 19,999	43.4	41.5	37.1	36.2					
20,000 to 29,999	12.2	14.7	10.9	9.9					
30,000 or more	6.7	7.7	6.2	5.1					

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

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

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

³Includes vehicles not in use.

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

⁵Excludes truck-tractors not in use.

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

Table 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	5.8	9.0
Agriculture, forestry, fishing, or hunting	24.8	31.1	3 to 4 years old	14.6	11.1
Mining	1.0	.4	Over 4 years old	79.6	79.9
Construction	20.2	18.1	VEHICLE ACQUISITION		
Manufacturing	4.8	3.5	New	37.0	31.2
Wholesale and retail trade	10.5	13.3	Used	60.1	59.8
For-hire transportation or warehousing	15.3	13.0	Not reported ⁴	3.0	9.0
Utilities and all services	12.8	10.3	TRUCK TYPE		
Personal transportation	1.9	2.9	Single-unit trucks ⁵	68.8	69.8
Other, not reported, and not applicable	8.7	7.5	2 axles	50.9	52.0
BODY TYPE			3 axles or more	17.7	17.8
Flatbed, stake, platform, and low boy	19.9	29.5	Trailer/axles not specified .....	.2	N
Van ²	32.2	18.7	Combinations	31.2	30.2
Service, utility	1.7	1.6	3 axles	1.4	1.5
Van, step, walk-in, or multistop	5.5	7.1	4 axles	4.4	6.2
Dump	19.5	9.5	5 axles or more	24.5	22.6
Tank for liquids, gases, or dry bulk	7.3	7.4	Trailer/axles not specified .....	.9	V
Other and not applicable	13.8	26.0	RANGE OF OPERATION		
VEHICLE SIZE			50 miles or less	63.1	58.7
Light	9.1	13.8	51 to 200 miles	15.3	19.0
Medium	20.3	20.9	201 miles or more	10.3	13.6
Light-heavy	17.7	15.9	Off-the-road, not reported, and not applicable	11.4	8.6
Heavy-heavy	52.9	49.4	FUEL TYPE		
ANNUAL MILES			Gasoline	31.6	41.5
Less than 5,000 ³	35.9	33.6	All other fuels	65.2	55.1
5,000 to 9,999	11.8	13.0	Other, not reported, and not applicable	3.2	3.3
10,000 to 19,999	17.4	17.6			
20,000 to 29,999	11.0	9.7			
30,000 or more	23.9	26.2			

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

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

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	1 698.4	1 461.9	16.2	23 058.7	21 167.6	8.9	13.6	14.5	-6.2
BUSINESS¹									
For-hire transportation or warehousing	23.0	22.3	3.1	1 638.2	1 692.1	-3.2	71.3	75.9	-6.1
Vehicle leasing or rental	9.6	7.0	37.4	199.6	249.4	-20.0	20.8	35.7	-41.8
Agriculture, forestry, fishing, or hunting	79.7	120.6	-34.0	681.0	1 265.5	-46.2	8.5	10.5	-18.5
Mining	1.3	S	S	27.5	S	S	20.9	S	S
Utilities	3.3	6.6	-49.5	43.2	88.3	-51.1	13.0	13.4	-3.0
Construction	136.9	126.9	7.9	2 212.6	2 178.6	1.6	16.2	17.2	-5.9
Manufacturing	12.6	19.7	-36.1	273.2	328.8	-16.9	21.7	16.7	30.0
Wholesale trade	8.5	34.0	-74.9	275.9	875.5	-68.5	32.4	25.8	25.7
Retail trade	20.9	67.2	-69.0	415.0	1 226.0	-66.1	19.9	18.2	9.1
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	11.6	N	N	S	N	N	S	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	S	N	N	S	N	N	S	N	N
Other services	34.0	N	N	445.4	N	N	13.1	N	N
Personal transportation	1 289.4	968.2	33.2	15 909.6	12 211.4	30.3	12.3	12.6	-2.2
Not reported	13.3	V	N	258.2	V	N	19.4	V	N
Not applicable ²	36.0	27.7	30.0	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks	1 664.3	1 428.8	16.5	20 945.4	18 976.9	10.4	12.6	13.3	-5.2
Pickup	732.6	688.8	6.4	8 618.3	8 016.5	7.5	11.8	11.6	1.1
Minivan	260.5	260.0	.2	3 755.2	4 215.5	-10.9	14.4	16.2	-11.1
Other light vans	82.4	98.0	-15.9	1 134.6	1 366.8	-17.0	13.8	13.9	-1.3
Sport utility	493.6	276.1	78.8	6 393.7	4 062.6	57.4	13.0	14.7	-12.0
Armored	S	N	N	S	N	N	S	N	N
Beverage .....	.9	.7	27.0	15.9	S	S	18.2	S	S
Concrete mixer	1.6	1.6	.8	23.7	23.5	.7	14.6	14.6	-1
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane .....	.2	1.3	-81.5	S	19.2	S	S	15.3	S
Curtainside	V	N	N	V	N	N	V	N	N
Dump	20.7	11.2	84.9	158.7	138.4	14.6	7.7	12.4	-38.0
Flatbed, stake, or platform	19.0	33.6	-43.5	175.9	312.0	-43.6	9.3	9.3	-2
Low boy	S	.9	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe	S	.4	S	S	S	S	S	S	S
Service, utility	2.2	2.2	.5	27.8	27.0	2.8	12.5	12.2	2.3
Service, other	3.8	2.9	32.7	70.2	37.5	87.2	18.3	12.9	41.1
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	2.5	1.6	62.9	10.7	26.3	-59.2	4.2	16.9	-74.9
Tank, liquids or gases	4.4	7.0	-37.2	56.6	113.1	-49.9	12.9	16.2	-20.3
Tow/Wrecker	3.0	2.5	19.3	38.4	20.8	84.7	12.7	8.2	54.8
Trash, garbage, or recycling	3.6	2.7	33.9	80.2	64.0	25.3	22.5	24.0	-6.4
Vacuum .....	.5	N	N	2.7	N	N	5.5	N	N
Van, basic enclosed	10.7	8.0	33.8	187.9	220.2	-14.7	17.6	27.6	-36.2
Van, insulated nonrefrigerated .....	.5	.2	166.1	S	S	S	S	S	S
Van, insulated refrigerated	1.9	1.4	34.7	42.1	31.4	33.9	22.1	22.2	-6
Van, open top	9.8	16.7	-41.2	22.2	60.4	-63.2	2.3	3.6	-37.4
Van, step, walk-in, or multistop	7.1	9.8	-27.7	85.6	161.7	-47.0	12.0	16.4	-26.8
Van, other	1.5	N	N	22.1	N	N	14.3	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	34.2	33.1	3.3	2 113.3	2 190.7	-3.5	61.8	66.2	-6.6
Automobile carrier .....	.3	S	S	S	S	S	S	S	S
Beverage .....	.4	.4	4.4	5.7	15.8	-64.0	13.3	38.6	-65.6
Curtainside .....	.2	N	N	S	N	N	S	N	N
Dump	4.6	2.0	123.8	150.2	107.0	40.4	32.7	52.2	-37.3
Flatbed, stake, or platform	5.1	3.1	64.0	320.5	170.1	88.4	62.8	54.6	14.9
Livestock .....	.5	.7	-33.0	42.1	49.7	-15.3	88.2	69.8	26.4
Low boy	1.4	2.5	-43.4	43.7	71.7	-39.2	30.8	28.6	7.6
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	2.7	4.9	-44.5	108.7	188.8	-42.4	39.8	38.4	3.7
Pole, logging, pulpwood, or pipe .....	.7	.9	-23.8	31.3	41.3	-24.1	47.2	47.4	-5
Tank, dry bulk .....	.8	S	S	37.0	S	S	47.7	S	S
Tank, liquids or gases	1.8	1.7	5.6	110.2	113.8	-3.2	61.8	67.5	-8.4
Van, basic enclosed	9.8	10.2	-4.4	796.2	863.7	-7.8	81.4	84.4	-3.6
Van, drop-frame .....	.4	.7	-37.1	25.3	57.9	-56.3	60.4	87.1	-30.6
Van, insulated nonrefrigerated .....	.5	.2	131.8	43.8	S	S	92.4	S	S
Van, insulated refrigerated	3.7	4.7	-20.7	338.2	417.8	-19.0	90.8	88.9	2.1
Other	S	N	N	S	N	N	S	N	N
Not applicable ³	1.0	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	232.8	235.1	-1.0	560.8	493.6	13.6	2.4	2.1	14.7
5,000 to 9,999	371.9	275.4	35.1	2 559.3	1 941.6	31.8	6.9	7.1	-2.4
10,000 to 19,999	737.9	607.0	21.6	9 897.6	8 337.5	18.7	13.4	13.7	-2.4
20,000 to 29,999	206.7	214.9	-3.8	4 591.5	4 839.9	-5.1	22.2	22.5	-1.3
30,000 to 49,999	76.3	79.0	-3.4	2 524.2	2 748.3	-8.2	33.1	34.8	-4.9
50,000 to 74,999	22.1	17.8	24.0	1 266.1	1 051.2	20.4	57.3	58.9	-2.8
75,000 or more	14.8	16.1	-8.2	1 622.0	1 755.6	-7.6	110.0	109.2	.7
Not applicable ²	36.0	16.6	116.7	S	V	S	S	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	19.3	47.5	-59.4	300.1	447.8	-33.0	15.6	9.4	65.2
50 miles or less	1 267.8	1 095.4	15.7	15 786.3	13 591.3	16.1	12.5	12.4	.4
51 to 100 miles	162.8	157.9	3.1	2 667.0	3 201.3	-16.7	16.4	20.3	-19.2
101 to 200 miles	33.8	64.1	-47.2	984.7	1 443.8	-31.8	29.1	22.5	29.3
201 to 500 miles	26.5	40.7	-35.0	605.3	1 077.5	-43.8	22.9	26.5	-13.6
501 miles or more	46.9	39.6	18.4	1 336.3	1 405.8	-4.9	28.5	35.5	-19.7
Not reported	105.3	16.6	533.8	1 341.7	V	N	12.7	V	N
Not applicable ²	36.0	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	V	N	N	V	N	N	V	N	N
Operated in Mexico	V	N	N	V	N	N	V	N	N
Operated within the home base state	1 532.5	N	N	20 453.5	N	N	13.3	N	N
Operated in states other than the home base state	31.3	N	N	1 326.5	N	N	42.4	N	N
Not reported	98.6	N	N	1 241.5	N	N	12.6	N	N
Not applicable ²	36.0	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	1 158.9	N	N	17 170.3	N	N	14.8	N	N
7 to 11	310.0	N	N	4 623.0	N	N	14.9	N	N
2 to 6	162.8	N	N	1 181.4	N	N	7.3	N	N
1 or less	30.8	N	N	46.7	N	N	1.5	N	N
Vehicle not used	36.0	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	1 571.4	1 337.8	17.5	19 905.5	17 844.5	11.5	12.7	13.3	-5.0
Medium	35.8	33.3	7.5	428.8	386.1	11.1	12.0	11.6	3.3
Light-heavy	22.9	22.2	3.3	188.2	313.5	-40.0	8.2	14.1	-41.9
Heavy-heavy	68.4	68.7	-3	2 536.2	2 623.5	-3.3	37.1	38.2	-3.0
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	1 147.3	1 227.6	-6.5	14 096.0	16 435.0	-14.2	12.3	13.4	-8.2
6,001 to 8,500	347.8	N	N	4 829.7	N	N	13.9	N	N
8,501 to 10,000	76.3	N	N	979.8	N	N	12.8	N	N
10,001 to 14,000	22.8	17.1	33.7	282.5	158.9	77.8	12.4	9.3	33.0
14,001 to 16,000	7.1	6.7	6.3	82.3	97.5	-15.6	11.6	14.6	-20.6
16,001 to 19,500	5.8	9.5	-38.6	64.0	129.8	-50.7	10.9	13.6	-19.7
19,501 to 26,000	22.9	22.2	3.3	188.2	313.5	-40.0	8.2	14.1	-41.9
26,001 to 33,000	11.0	10.6	3.0	159.3	130.2	22.4	14.5	12.2	18.8
33,001 to 40,000	7.1	7.0	.7	162.6	96.9	67.8	23.0	13.8	66.6
40,001 to 50,000	11.2	16.9	-33.8	228.6	323.6	-29.4	20.4	19.1	6.7
50,001 to 60,000	10.9	8.4	29.2	252.0	295.3	-14.7	23.2	35.1	-33.9
60,001 to 80,000	27.0	25.0	8.1	1 689.7	1 746.3	-3.2	62.6	69.9	-10.4
80,001 to 100,000	1.3	.6	132.0	40.8	25.6	59.3	31.2	45.4	-31.3
100,001 to 130,000	V	S	S	V	S	S	V	S	S
130,001 or more	S	V	S	S	V	S	S	V	S
TOTAL LENGTH (FEET)									
Less than 20.0	1 359.9	1 332.5	2.1	17 281.5	17 658.6	-2.1	12.7	13.3	-4.1
20.0 to 27.9	238.7	50.4	373.4	2 868.8	555.8	416.2	12.0	11.0	9.0
28.0 to 35.9	41.3	32.3	28.0	478.2	511.4	-6.5	11.6	15.8	-26.9
36.0 to 40.9	22.7	5.9	284.5	328.1	117.3	179.7	14.4	19.8	-27.3
41.0 to 44.9	2.2	6.2	-63.9	44.7	S	S	19.9	S	S
45.0 to 49.9	2.4	2.1	13.2	63.5	52.2	21.5	26.5	24.7	7.3
50.0 to 54.9	3.7	4.1	-10.1	114.2	126.0	-9.3	30.9	30.6	.8
55.0 to 59.9	5.2	7.5	-31.0	218.4	358.5	-39.1	42.0	47.5	-11.7
60.0 to 64.9	8.5	8.3	2.7	469.1	561.6	-16.5	55.2	67.9	-18.7
65.0 to 69.9	7.2	7.1	1.7	574.6	637.4	-9.9	80.0	90.3	-11.3
70.0 to 74.9	5.4	4.3	26.3	528.1	412.8	27.9	98.1	96.8	1.3
75.0 to 79.9 .....	.9	N	N	73.8	N	N	82.9	N	N
80.0 or more	S	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	15.1	14.8	1.9	289.1	365.5	-20.9	19.1	24.7	-22.4
5 to 6.9	47.1	51.0	-7.6	1 925.7	2 005.3	-4.0	40.9	39.3	3.9
7 to 8.9	31.2	28.1	10.9	423.5	408.1	3.8	13.6	14.5	-6.4
9 to 10.9	106.1	95.2	11.5	1 490.9	905.8	64.6	14.1	9.5	47.7
11 to 12.9	149.6	191.8	-22.0	1 794.0	2 265.0	-20.8	12.0	11.8	1.6
13 to 14.9	235.6	192.6	22.3	3 174.2	2 569.5	23.5	13.5	13.3	1.0
15 or more	910.9	869.3	4.8	12 342.8	12 376.3	-3	13.5	14.2	-4.8
15 to 20.9	760.1	685.8	10.8	10 330.2	9 680.1	6.7	13.6	14.1	-3.7
21 to 24.9	97.4	143.0	-31.9	1 400.7	2 204.8	-36.5	14.4	15.4	-6.7
25 or more	53.5	40.5	32.2	611.9	491.4	24.5	11.4	12.1	-5.8
Not reported	166.9	19.1	773.9	1 581.1	272.1	481.1	9.5	14.2	-33.5
Not applicable ²	36.0	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	S	N	N	S	N	N	S	N	N
2002	112.7	N	N	1 858.9	N	N	16.5	N	N
2001	146.3	N	N	2 202.4	N	N	15.1	N	N
2000	158.9	N	N	2 863.3	N	N	18.0	N	N
1999	134.6	N	N	2 169.7	N	N	16.1	N	N
1998	119.3	S	S	1 974.8	S	S	16.6	S	S
1997	129.4	103.0	25.7	2 114.9	1 771.5	19.4	16.3	17.2	-5.0
1996	97.1	112.5	-13.7	1 321.3	2 330.0	-43.3	13.6	20.7	-34.3
1995	108.6	124.1	-12.5	1 729.3	2 255.4	-23.3	15.9	18.2	-12.4
1994	97.3	120.1	-19.0	1 185.7	2 228.3	-46.8	12.2	18.6	-34.3
1993	103.5	95.4	8.5	1 440.5	1 815.2	-20.6	13.9	19.0	-26.9
Pre-1993	490.4	900.7	-45.5	4 183.1	10 617.4	-60.6	8.5	11.8	-27.6
VEHICLE ACQUISITION									
New	694.4	548.6	26.6	10 696.3	8 861.2	20.7	15.4	16.2	-4.6
Used	924.6	806.4	14.7	11 183.2	10 252.0	9.1	12.1	12.7	-4.9
Not reported	79.5	106.9	-25.7	1 179.2	2 054.4	-42.6	14.8	19.2	-22.7
LEASE CHARACTERISTICS									
Leased	79.4	N	N	1 756.0	N	N	22.1	N	N
Lessee	64.3	N	N	1 160.7	N	N	18.1	N	N
Vehicle only	7.3	N	N	343.6	N	N	47.1	N	N
Vehicle with driver	V	N	N	V	N	N	V	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁴	56.7	N	N	802.4	N	N	14.1	N	N
Lessor	11.7	N	N	543.0	N	N	46.3	N	N
Vehicle only	4.4	N	N	216.8	N	N	49.2	N	N
Vehicle with driver	1.0	N	N	93.6	N	N	97.6	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁴	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	1 029.0	N	N	14 313.0	N	N	13.9	N	N
Not reported	590.0	N	N	6 989.7	N	N	11.8	N	N
Length of leasing agreement:									
Leased	79.4	N	N	1 756.0	N	N	22.1	N	N
1 to 11 months	1.0	N	N	36.0	N	N	34.7	N	N
12 months or more	11.7	N	N	637.1	N	N	54.6	N	N
Not reported .....	.6	N	N	S	N	N	S	N	N
Not applicable ⁴	66.2	N	N	1 070.3	N	N	16.2	N	N
Provisions of lease ⁵ :									
Financing only	7.9	N	N	419.7	N	N	53.2	N	N
Full maintenance	3.9	N	N	174.8	N	N	44.3	N	N
Payment of taxes	3.6	N	N	170.4	N	N	46.9	N	N
Obtaining licenses and permits	4.2	N	N	230.7	N	N	55.1	N	N
Recordkeeping	2.6	N	N	125.2	N	N	47.8	N	N
Fuel contract	1.4	N	N	90.5	N	N	64.5	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	322.8	N	N	4 698.5	N	N	14.6	N	N
Motor carrier	22.1	N	N	1 200.1	N	N	54.2	N	N
Owner operator	18.1	N	N	1 001.9	N	N	55.3	N	N
Rental	9.8	N	N	210.8	N	N	21.4	N	N
Personal transportation	1 289.5	N	N	15 910.2	N	N	12.3	N	N
Not applicable ²	36.0	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	11.0	N	N	844.4	N	N	77.1	N	N
Common	13.7	N	N	822.9	N	N	59.9	N	N
Not reported	3.0	N	N	78.2	N	N	26.1	N	N
Not applicable ⁶	1 670.8	N	N	21 313.2	N	N	12.8	N	N
Type of service:									
Truckload	19.0	13.4	41.5	1 406.2	1 158.2	21.4	74.1	86.3	-14.2
Less-than truckload	5.7	4.3	32.5	259.9	312.4	-16.8	45.6	72.6	-37.2
Not reported	3.0	N	N	79.4	N	N	26.6	N	N
Not applicable ⁶	1 670.8	N	N	21 313.2	N	N	12.8	N	N
Source of hauls:									
Shippers or receivers	18.2	N	N	1 277.2	N	N	70.3	N	N
Brokers	2.6	N	N	219.5	N	N	83.0	N	N
Centralized markets or exchanges .....	.7	N	N	31.9	N	N	44.7	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	6.1	N	N	216.9	N	N	35.3	N	N
Not applicable ⁶	1 670.8	N	N	21 313.2	N	N	12.8	N	N
HAZARDOUS MATERIALS CARRIED⁷									
Carrying hazardous materials	6.5	8.5	-23.2	308.4	481.1	-35.9	47.2	56.6	-16.5
Not carrying hazardous materials	102.7	107.5	-4.4	2 422.5	2 697.5	-10.2	23.6	25.1	-6.0
Not reported	10.0	21.4	-53.2	251.0	297.1	-15.5	25.1	13.9	80.6
Not applicable ⁸	1 579.2	N	N	20 076.8	N	N	12.7	N	N
EQUIPMENT TYPE^{5 9}									
Aerial work platform/bucket	2.1	N	N	23.8	N	N	11.4	N	N
Air bag(s) (safety device only)	993.1	394.6	151.7	14 493.0	6 943.8	108.7	14.6	17.6	-17.1
Air compressor (except air brakes)	8.1	N	N	353.5	N	N	43.4	N	N
Air-conditioning	1 353.0	990.7	36.6	19 951.0	16 407.8	21.6	14.7	16.6	-11.0
Air springs	20.7	N	N	1 281.1	N	N	61.8	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE^{5 9}—Con.									
Antilock brake system	1 042.6	615.7	69.4	15 668.7	10 591.7	47.9	15.0	17.2	-12.6
Collision warning system	S	N	N	S	N	N	S	N	N
Computerized drive train control unit	264.3	N	N	3 945.0	N	N	14.9	N	N
Crane	2.6	N	N	42.6	N	N	16.4	N	N
Electronic vehicle identification device	1.2	1.5	-19.2	109.4	143.4	-23.7	91.2	96.7	-5.6
Engine retarder/brake	24.9	20.3	22.7	1 621.9	1 559.8	4.0	65.1	76.9	-15.3
Front-wheel drive	984.8	381.3	158.3	12 657.6	5 423.8	133.4	12.9	14.2	-9.6
Hoist	34.6	N	N	228.3	N	N	6.6	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	3.4	N	N	208.5	N	N	61.0	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	6.9	N	N	112.0	N	N	16.2	N	N
Mounting bar for snowplow	34.0	N	N	S	N	N	S	N	N
Navigational system .....	.3	2.1	-85.8	27.6	211.8	-87.0	93.7	101.9	-8.1
Power take-off	46.8	N	N	713.3	N	N	15.3	N	N
Radial tires	1 168.4	1 187.2	-1.6	16 711.1	17 871.2	-6.5	14.3	15.1	-5.0
Reflective material in addition to those required by law	18.7	28.8	-35.2	615.9	1 143.8	-46.2	33.0	39.7	-16.8
Road speed governor	29.5	32.9	-10.3	1 386.8	1 504.9	-7.8	47.1	45.8	2.8
Toolbox	129.1	N	N	2 223.9	N	N	17.2	N	N
Trip recorder or on-board computer with communication capabilities	75.8	N	N	1 280.3	N	N	16.9	N	N
Trip recorder or on-board computer without communication capabilities	361.3	N	N	5 315.3	N	N	14.7	N	N
Vehicle control aids for handicapped drivers	S	S	S	S	S	S	S	S	S
Wheelchair lift	S	S	S	S	S	S	S	S	S
Winch	5.3	N	N	62.9	N	N	11.8	N	N
Transmission type:									
Automatic	1 386.0	N	N	17 969.7	N	N	13.0	N	N
Manual	274.6	N	N	4 438.8	N	N	16.2	N	N
Semiautomated manual	S	N	N	S	N	N	S	N	N
Automated manual .....	.7	N	N	66.1	N	N	100.8	N	N
Not reported	33.6	N	N	535.1	N	N	15.9	N	N
Braking system:									
Hydraulic (standard)	34.8	32.4	7.5	332.7	350.1	-5.0	9.6	10.8	-11.6
Hydraulic with power assist	25.5	26.6	-4.3	240.7	276.5	-12.9	9.4	10.4	-9.1
Air	63.8	61.2	4.2	2 412.7	2 630.1	-8.3	37.8	42.9	-12.0
Other	V	1.6	N	V	23.5	N	V	14.9	N
Not reported	5.3	N	N	170.9	N	N	32.2	N	N
Not applicable ¹⁰	1 569.0	N	N	19 901.8	N	N	12.7	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	1 489.0	1 334.9	11.5	18 868.4	17 398.4	8.4	12.7	13.0	-2.8
Diesel	143.7	115.8	24.1	3 864.6	3 711.2	4.1	26.9	32.1	-16.1
Natural gas	S	N	N	S	N	N	S	N	N
Propane .....	.6	N	N	S	N	N	S	N	N
Alcohol fuels	19.3	N	N	210.3	N	N	10.9	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	S	N	N	S	N	N	S	N	N
Not applicable ²	36.0	N	N	S	N	N	S	N	N
Cylinders¹¹:									
4 cylinders	134.0	128.7	4.1	1 548.3	1 556.3	-5	11.6	12.1	-4.5
6 cylinders	779.2	704.5	10.6	11 891.8	12 206.8	-2.6	15.3	17.3	-11.9
8 cylinders	754.7	577.3	30.7	9 438.4	6 992.9	35.0	12.5	12.1	3.2
Other	30.6	51.3	-40.4	180.3	411.6	-56.2	5.9	8.0	-26.6
Cubic inch displacement¹¹:									
Gasoline fuel	1 489.0	1 334.9	11.5	18 868.4	17 398.4	8.4	12.7	13.0	-2.8
Less than 200	283.2	327.1	-13.4	3 712.7	4 417.2	-15.9	13.1	13.5	-2.9
200 to 299	572.8	372.7	53.7	7 552.9	6 008.9	25.7	13.2	16.1	-18.2
300 to 349	314.0	284.7	10.3	4 026.6	3 182.2	26.5	12.8	11.2	14.7
350 to 399	265.7	261.9	1.5	3 326.6	3 349.2	-7	12.5	12.8	-2.1
400 or more	30.4	34.2	-11.2	209.6	258.3	-18.8	6.9	7.5	-8.6
Not available	22.8	54.2	-57.9	40.0	182.6	-78.1	1.8	3.4	-48.0
Diesel fuel	143.7	115.8	24.1	3 864.6	3 711.2	4.1	26.9	32.1	-16.1
Less than 400	33.8	36.7	-8.1	425.5	714.2	-40.4	12.6	19.4	-35.2
400 to 599	58.9	29.8	97.8	1 097.5	553.5	98.3	18.6	18.6	.2
600 to 799	23.6	16.2	45.7	1 137.3	815.4	39.5	48.1	50.3	-4.3
800 or more	16.3	18.2	-10.4	870.7	1 252.0	-30.5	53.3	68.7	-22.4
Not available	11.0	14.8	-25.6	333.6	376.1	-11.3	30.2	25.3	19.2
Other fuel	26.6	S	S	250.8	33.5	647.7	9.4	S	S
Less than 400	25.5	S	S	241.4	28.4	751.1	9.5	S	S
400 or more .....	.6	S	S	S	S	S	S	S	S
Not available .....	.4	.6	-32.9	S	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ²	36.0	N	N	S	N	N	S	N	N
REFUELING LOCATION									
Gas station	1 522.0	N	N	19 751.6	N	N	13.0	N	N
Truck stop	37.7	N	N	1 610.3	N	N	42.8	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	67.3	N	N	1 178.1	N	N	17.5	N	N
Other company's/contractor's facility not open to the public	S	N	N	110.8	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	30.4	N	N	370.6	N	N	12.2	N	N
Not applicable ²	36.0	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁵									
General maintenance performed by:									
None performed	30.6	9.4	225.5	192.9	S	S	6.3	S	S
Company-owned maintenance facility	132.9	108.5	22.4	2 699.5	2 552.8	5.7	20.3	23.5	-13.6
General repair business or private mechanic	652.1	526.6	23.8	9 466.9	8 411.6	12.5	14.5	16.0	-9.1
Dealership service department	485.5	365.7	32.7	6 963.9	6 214.1	12.1	14.3	17.0	-15.6
Leasing company	S	S	S	144.6	196.3	-26.3	S	S	S
Individual not employed/paid by any maintenance type facility	695.2	747.2	-7.0	9 025.6	9 463.1	-4.6	13.0	12.7	2.5
Other	V	S	S	V	88.6	N	V	S	S
Not reported	27.1	50.8	-46.6	337.0	624.3	-46.0	12.4	12.3	1.2
Not applicable ²	36.0	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	1 355.0	67.7	1 902.9	17 852.1	801.4	2 127.6	13.2	11.8	11.2
Company-owned maintenance facility	16.3	42.4	-61.5	404.6	978.4	-58.6	24.8	23.1	7.3
General repair business or private mechanic	97.1	238.6	-59.3	1 742.6	3 508.3	-50.3	18.0	14.7	22.1
Dealership service department	100.8	241.1	-58.2	1 688.7	4 578.2	-63.1	16.7	19.0	-11.8
Leasing company	S	9.7	S	S	S	S	S	S	S
Component distributorship (engine, transmission, body, etc.)	S	37.8	S	S	719.0	S	S	19.0	S
Individual not employed/paid by any repair type facility	76.2	125.7	-39.4	1 207.8	1 272.4	-5.1	15.9	10.1	56.6
Other	V	S	S	V	S	S	V	S	S
Not reported	S	765.2	S	S	10 351.2	S	S	13.5	S
Not applicable ²	36.0	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer	1 605.4	1 396.3	15.0	20 244.5	18 509.3	9.4	12.6	13.3	-4.9
2 axles	1 581.6	1 371.6	15.3	19 970.1	18 208.1	9.7	12.6	13.3	-4.9
3 axles	17.4	19.9	-12.5	162.3	193.4	-16.1	9.3	9.7	-4.1
4 axles	4.4	4.8	-7.7	77.4	107.8	-28.3	17.4	22.4	-22.3
5 axles or more	1.5	N	N	34.4	N	N	22.7	N	N
Not reported .....	.4	V	N	S	V	S	S	V	S
Combinations	93.1	65.5	42.0	2 814.3	2 658.3	5.9	30.2	40.6	-25.5
Single-unit trucks with trailer	59.9	32.5	84.7	701.0	467.6	49.9	11.7	14.4	-18.8
3 axles	32.6	13.5	141.8	313.0	S	S	9.6	S	S
4 axles	25.4	16.4	54.3	338.9	259.8	30.4	13.4	15.8	-15.4
5 axles or more	2.0	2.5	-21.1	49.0	60.7	-19.2	24.5	23.9	2.3
Not reported	V	N	N	V	N	N	V	N	N
Truck-tractors with single trailer	32.8	32.8	.1	2 084.6	2 178.9	-4.3	63.5	66.4	-4.4
3 axles .....	.8	1.3	-41.2	11.7	32.8	-64.3	14.9	24.5	-39.3
4 axles	2.5	2.9	-14.1	68.6	133.5	-48.6	27.8	46.5	-40.1
5 axles or more	29.5	28.6	3.0	2 002.7	2 012.5	-5	68.0	70.4	-3.4
Not reported	S	N	N	S	N	N	S	N	N
Truck-tractors with double trailers .....	.3	S	S	S	S	S	S	S	S
5 axles	S	S	S	S	S	S	S	S	S
6 axles	S	V	S	S	V	S	S	V	S
7 axles	V	N	N	V	V	N	V	V	N
8 axles or more	V	S	S	V	S	S	V	S	S
Not reported	V	N	N	V	N	N	V	N	N
Truck-tractors with triple trailers	V	V	N	V	V	N	V	V	N
7 axles	V	V	N	V	V	N	V	V	N
8 axles	V	V	N	V	V	N	V	V	N
9 axles	V	V	N	V	V	N	V	V	N
10 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	V	N	V	N	N
Driving axles:									
1	656.1	797.7	-17.8	8 030.5	10 441.7	-23.1	12.2	13.1	-6.5
2	1 041.0	662.8	57.1	15 014.4	10 664.0	40.8	14.4	16.1	-10.4
3 or more .....	.9	1.3	-33.7	12.0	61.9	-80.6	13.8	47.2	-70.8
Not reported .....	.5	V	N	S	V	S	S	V	S
Total liftable axles and locations ¹² :									
None	118.7	51.3	131.6	2 974.9	1 406.4	111.5	25.1	27.4	-8.7
1	8.2	6.1	34.5	140.2	122.3	14.6	17.2	20.2	-14.8
Forward of the drive axle	4.5	N	N	73.0	N	N	16.2	N	N
Below the chassis	2.3	N	N	35.2	N	N	15.1	N	N
Beyond the chassis .....	.4	N	N	S	N	N	S	N	N
Not reported	1.0	N	N	23.4	N	N	24.6	N	N
2 or more	1.6	.9	76.3	36.6	24.1	52.0	23.3	27.0	-13.8
Forward of the drive axle	1.6	N	N	36.6	N	N	23.3	N	N
Below the chassis .....	.5	N	N	15.4	N	N	33.1	N	N
Beyond the chassis .....	.9	N	N	14.4	N	N	16.6	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	1.0	N	N	5.3	N	N	5.3	N	N
Not applicable ¹⁰	1 569.0	N	N	19 901.8	N	N	12.7	N	N
Total liftable axles and number of braking axles:									
None	118.7	51.3	131.6	2 974.9	1 406.4	111.5	25.1	27.4	-8.7
1	8.2	6.1	34.5	140.2	122.3	14.6	17.2	20.2	-14.8
0 braking	1.1	N	N	10.8	N	N	9.5	N	N
1 braking	6.7	N	N	126.0	N	N	18.9	N	N
Not reported .....	.4	N	N	S	N	N	S	N	N
2 or more	1.6	.9	76.3	36.6	24.1	52.0	23.3	27.0	-13.8
0 braking	V	N	N	V	N	N	V	N	N
1 braking	S	N	N	S	N	N	S	N	N
2 or more braking	1.5	N	N	36.4	N	N	24.1	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	1.0	N	N	5.3	N	N	5.3	N	N
Not applicable ¹⁰	1 569.0	N	N	19 901.8	N	N	12.7	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	117.0	105.2	11.3	2 923.3	2 911.8	.4	25.0	27.7	-9.8
With sleeper	16.5	N	N	1 452.5	N	N	88.2	N	N
Without sleeper	99.4	N	N	1 390.5	N	N	14.0	N	N
Not reported	1.2	N	N	80.3	N	N	69.8	N	N
Cab over engine	10.6	14.1	-24.6	206.7	343.2	-39.8	19.5	24.4	-20.1
With sleeper	1.9	N	N	79.3	N	N	41.8	N	N
Without sleeper	8.5	N	N	109.3	N	N	12.9	N	N
Not reported .....	.2	N	N	S	N	N	S	N	N
Cab forward of engine	1.2	1.9	-40.4	20.7	24.7	-16.2	18.0	12.8	40.5
Cab beside engine .....	.5	1.0	-52.6	S	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹⁰	1 569.0	N	N	19 901.8	N	N	12.7	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	1.3	2.8	2.4	4.0	2.7	2.3	3.3
BUSINESS									
For-hire transportation or warehousing	14.6	14.2	21.0	13.6	10.1	16.4	3.9	6.0	6.7
Vehicle leasing or rental	46.8	35.0	80.3	23.6	30.9	31.1	28.0	13.0	18.0
Agriculture, forestry, fishing, or hunting	15.2	10.5	12.2	17.8	13.0	11.9	10.7	6.8	10.4
Mining	24.0	S	S	34.4	S	S	29.1	S	S
Utilities	17.8	46.3	25.0	23.7	43.4	24.2	16.2	17.4	23.1
Construction	13.1	11.5	18.9	16.7	14.2	22.2	9.4	8.3	11.8
Manufacturing	35.9	28.7	29.4	28.0	23.8	30.6	13.7	20.0	31.5
Wholesale trade	38.0	22.3	11.1	43.6	21.1	15.3	9.5	10.0	17.3
Retail trade	30.4	15.8	10.7	34.7	19.4	13.4	16.7	11.8	22.3
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	28.3	N	N	S	N	N	S	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	S	N	N	S	N	N	S	N	N
Other services	29.1	N	N	33.2	N	N	16.2	N	N
Personal transportation	2.2	2.6	4.5	3.7	3.8	6.9	3.0	2.9	4.1
Not reported	41.1	N	N	42.0	N	N	27.2	N	N
Not applicable ¹	27.5	25.4	48.6	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks .....	.8	.8	1.3	3.0	2.7	4.4	2.9	2.6	3.7
Pickup	1.5	1.3	2.2	5.3	4.5	7.5	5.1	4.3	6.7
Minivan	9.2	7.0	11.6	11.9	8.7	13.2	7.6	5.2	8.2
Other light vans	18.5	13.9	19.5	23.6	18.6	25.0	14.7	12.4	19.0
Sport utility	5.3	6.7	15.3	6.7	8.1	16.6	4.1	4.6	5.5
Armored	S	N	N	S	N	N	S	N	N
Beverage	37.5	46.5	75.9	44.1	S	S	23.2	S	S
Concrete mixer	18.3	21.2	28.3	20.5	26.5	33.8	9.2	13.4	16.3
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	49.4	28.8	10.6	S	39.1	S	S	29.1	S
Curtainside	N	N	N	N	N	N	N	N	N
Dump	6.1	9.0	20.2	9.9	13.3	19.0	8.4	11.3	8.7
Flatbed, stake, or platform	6.9	13.4	8.5	10.6	19.2	12.4	8.4	11.9	14.5
Low boy	S	37.6	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe	S	46.8	S	S	S	S	S	S	S
Service, utility	22.6	25.7	34.4	29.5	31.4	44.3	18.6	19.7	27.7
Service, other	17.3	22.4	37.5	20.0	26.2	61.6	9.8	13.1	23.1
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	19.0	24.4	50.4	33.6	32.3	19.0	29.6	27.0	10.1
Tank, liquids or gases	15.0	13.1	12.5	20.5	18.1	13.7	15.4	14.3	16.8
Tow/Wrecker	19.0	24.1	36.5	26.3	36.6	83.3	17.7	28.2	51.6
Trash, garbage, or recycling	14.9	20.5	33.9	17.7	22.2	35.5	10.8	13.4	16.1
Vacuum	39.5	N	N	44.7	N	N	29.8	N	N
Van, basic enclosed	9.7	15.4	24.3	13.4	21.7	21.8	9.4	12.9	10.2
Van, insulated nonrefrigerated	43.2	49.5	174.7	S	S	S	S	S	S
Van, insulated refrigerated	24.1	30.6	52.5	26.7	34.1	58.0	13.1	16.9	21.2
Van, open top	9.4	7.9	7.2	15.6	17.1	8.5	13.1	15.3	12.6
Van, step, walk-in, or multistop	12.4	14.1	13.6	16.2	16.6	12.3	10.1	8.4	9.6
Van, other	27.2	N	N	32.0	N	N	15.2	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	2.6	3.5	4.5	4.0	4.8	6.0	3.3	3.2	4.3
Automobile carrier	44.3	S	S	S	S	S	S	S	S
Beverage	42.7	34.8	57.5	44.0	44.8	22.6	27.6	28.2	13.6
Curtainside	49.4	N	N	S	N	N	S	N	N
Dump	10.9	15.3	42.1	16.0	16.7	32.4	11.7	6.6	8.4
Flatbed, stake, or platform	10.5	13.5	28.0	12.7	17.7	41.0	7.9	10.0	14.6
Livestock	35.0	31.4	31.5	40.8	32.6	44.2	21.0	25.6	41.9
Low boy	20.0	17.2	14.9	30.6	29.6	25.9	23.1	22.4	34.6
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	14.3	10.3	9.8	21.1	14.5	14.7	15.5	11.4	19.9
Pole, logging, pulpwood, or pipe	29.6	23.8	29.0	33.4	26.8	32.4	15.3	12.3	19.5
Tank, dry bulk	27.3	S	S	35.5	S	S	22.7	S	S
Tank, liquids or gases	17.9	16.8	25.9	21.3	18.9	27.6	11.6	8.8	13.4
Van, basic enclosed	7.0	8.4	10.4	8.2	10.0	12.0	4.6	4.9	6.5
Van, drop-frame	37.4	27.3	29.1	41.3	30.9	22.5	17.6	14.6	15.8
Van, insulated nonrefrigerated	35.0	49.4	140.3	39.9	S	S	18.9	S	S
Van, insulated refrigerated	12.6	12.4	14.0	13.6	12.9	15.2	6.8	6.4	9.5
Other	S	N	N	S	N	N	S	N	N
Not applicable ²	26.8	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	9.8	7.9	12.5	12.1	10.0	17.9	6.2	5.8	9.7
5,000 to 9,999	8.0	7.6	14.9	8.2	7.8	15.0	2.1	1.6	2.6
10,000 to 19,999	4.8	4.5	8.0	4.9	4.7	8.0	1.2	1.2	1.7
20,000 to 29,999	11.2	8.8	13.7	11.3	8.9	13.6	1.3	1.1	1.7
30,000 to 49,999	18.6	14.6	22.9	18.5	14.7	21.7	2.2	2.3	3.0
50,000 to 74,999	31.9	26.8	51.6	31.5	26.8	49.9	3.6	3.6	4.9
75,000 or more	5.3	6.3	7.5	5.5	6.4	7.8	1.7	1.6	2.3
Not applicable ¹	27.5	31.5	90.5	S	N	S	S	N	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	36.6	19.3	16.8	47.9	29.6	37.8	25.4	21.0	54.4
50 miles or less	2.5	2.2	3.9	3.8	3.6	6.1	2.9	2.8	4.0
51 to 100 miles	12.7	10.4	16.9	15.5	11.5	16.1	10.4	6.2	9.8
101 to 200 miles	27.8	16.9	17.1	30.5	17.2	23.9	19.2	9.1	27.5
201 to 500 miles	31.3	20.2	24.2	23.9	15.2	15.9	17.8	12.3	18.7
501 miles or more	23.1	19.9	36.1	10.9	11.0	14.7	15.6	14.2	16.9
Not reported	16.2	31.5	224.2	15.9	N	N	7.1	N	N
Not applicable ¹	27.5	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	N	N	N	N	N	N	N	N	N
Operated in Mexico	N	N	N	N	N	N	N	N	N
Operated within the home base state	1.5	N	N	3.2	N	N	2.9	N	N
Operated in states other than the home base state	24.6	N	N	8.9	N	N	19.1	N	N
Not reported	16.8	N	N	17.4	N	N	10.4	N	N
Not applicable ¹	27.5	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	2.9	N	N	3.8	N	N	2.8	N	N
7 to 11	8.7	N	N	10.8	N	N	7.0	N	N
2 to 6	11.9	N	N	14.3	N	N	9.1	N	N
1 or less	27.1	N	N	44.1	N	N	37.4	N	N
Vehicle not used	27.5	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light .....	.9	.9	1.5	3.2	2.8	4.7	3.0	2.7	3.9
Medium	15.8	13.8	22.6	23.1	16.9	31.8	17.1	11.2	21.1
Light-heavy	6.1	7.7	10.2	11.0	15.8	11.6	9.1	12.3	8.9
Heavy-heavy	2.0	4.0	4.4	3.4	4.1	5.1	3.4	4.3	5.3
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2.8	1.4	2.9	4.5	3.1	4.7	3.6	2.8	4.2
6,001 to 8,500	8.4	N	N	10.1	N	N	5.5	N	N
8,501 to 10,000	18.8	N	N	27.9	N	N	20.4	N	N
10,001 to 14,000	24.4	19.5	41.7	34.6	17.2	68.6	25.5	16.1	40.2
14,001 to 16,000	12.2	14.9	20.5	16.4	28.1	27.5	10.8	23.3	20.4
16,001 to 19,500	13.5	32.4	21.6	19.8	41.1	22.5	14.5	12.2	15.2
19,501 to 26,000	6.1	7.7	10.2	11.0	15.8	11.6	9.1	12.3	8.9
26,001 to 33,000	9.3	10.9	14.8	16.7	15.2	27.6	14.5	12.1	22.5
33,001 to 40,000	10.7	11.4	15.8	16.1	17.2	39.6	13.7	13.8	32.4
40,001 to 50,000	7.4	13.7	10.3	14.7	12.8	13.7	13.0	11.6	18.6
50,001 to 60,000	7.1	8.6	14.4	11.4	13.0	14.8	9.2	10.4	9.2
60,001 to 80,000	3.4	4.1	5.8	4.9	5.7	7.2	3.6	3.4	4.4
80,001 to 100,000	20.9	29.7	84.4	27.7	38.6	75.7	18.1	24.7	21.0
100,001 to 130,000	N	S	S	N	S	S	N	S	S
130,001 or more	S	N	S	S	N	S	S	N	S
TOTAL LENGTH (FEET)									
Less than 20.0	2.0	1.0	2.3	3.9	2.9	4.7	3.3	2.7	4.1
20.0 to 27.9	9.7	7.2	57.2	11.8	11.1	83.6	5.9	8.5	11.3
28.0 to 35.9	20.3	16.7	33.6	24.0	20.0	29.2	15.7	13.3	15.0
36.0 to 40.9	31.1	37.0	185.9	31.8	37.4	137.3	24.2	9.6	18.9
41.0 to 44.9	20.0	48.7	19.0	27.9	S	S	23.1	S	S
45.0 to 49.9	17.1	20.4	30.2	22.3	28.4	43.9	15.7	21.1	28.2
50.0 to 54.9	13.2	12.8	16.5	18.7	16.9	22.9	14.3	13.7	20.0
55.0 to 59.9	10.4	8.5	9.3	13.9	10.7	10.7	9.5	6.9	10.3
60.0 to 64.9	7.8	8.0	11.5	9.8	9.9	11.6	6.2	5.5	6.7
65.0 to 69.9	8.4	9.5	12.9	10.3	10.7	13.4	6.0	4.5	6.7
70.0 to 74.9	9.9	14.2	21.8	10.9	15.9	24.7	4.7	7.0	8.5
75.0 to 79.9	25.4	N	N	27.7	N	N	10.6	N	N
80.0 or more	S	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	6.9	7.5	10.3	11.2	12.0	13.0	9.8	9.9	10.8
5 to 6.9	3.2	3.8	4.5	4.4	5.0	6.4	4.1	4.3	6.2
7 to 8.9	18.0	12.1	24.1	21.7	12.7	26.1	10.4	9.2	13.0
9 to 10.9	15.3	13.2	22.5	21.6	16.2	44.4	15.3	11.5	28.3
11 to 12.9	13.4	9.6	12.8	16.4	12.5	16.3	9.7	8.0	12.8
13 to 14.9	10.7	9.8	17.7	13.6	12.1	22.5	8.4	7.1	11.2
15 or more	3.8	3.0	5.0	5.1	4.3	6.6	3.5	3.2	4.5
15 to 20.9	4.7	3.9	6.8	6.0	5.2	8.4	3.8	3.4	4.9
21 to 24.9	17.1	11.5	14.1	19.5	14.3	15.4	9.4	8.6	11.9
25 or more	23.8	22.5	43.4	28.5	28.8	50.5	15.7	18.0	22.5
Not reported	12.6	13.3	160.0	13.1	19.5	136.3	6.5	20.3	14.2
Not applicable ¹	27.5	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicle and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	S	N	N	S	N	N	S	N	N
2002	15.9	N	N	19.0	N	N	11.2	N	N
2001	13.8	N	N	14.0	N	N	6.0	N	N
2000	13.0	N	N	12.5	N	N	6.2	N	N
1999	14.3	N	N	14.2	N	N	7.1	N	N
1998	15.3	S	S	16.2	S	S	8.1	S	S
1997	14.6	13.7	25.2	15.2	14.5	25.1	6.4	7.6	9.5
1996	17.0	12.7	18.3	16.2	13.2	11.9	7.8	8.2	7.4
1995	15.9	12.6	17.8	16.8	12.8	16.2	8.3	6.6	9.3
1994	17.0	12.5	17.1	19.3	12.6	12.3	10.9	5.3	8.0
1993	16.5	13.9	23.4	23.1	14.8	21.8	17.0	8.4	13.9
Pre-1993	6.4	2.9	3.8	9.6	4.4	4.1	7.0	3.3	5.6
VEHICLE ACQUISITION									
New	5.1	4.8	8.8	5.7	5.3	9.4	3.5	3.2	4.5
Used	3.9	3.3	5.8	5.5	5.0	8.1	4.0	3.8	5.3
Not reported	19.0	13.3	17.2	23.9	12.4	15.5	15.8	5.9	13.0
LEASE CHARACTERISTICS									
Leased	17.9	N	N	15.0	N	N	8.5	N	N
Lessee	20.5	N	N	17.2	N	N	7.4	N	N
Vehicle only	10.5	N	N	12.1	N	N	9.0	N	N
Vehicle with driver	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ³	23.2	N	N	24.4	N	N	7.4	N	N
Lessor	38.3	N	N	30.9	N	N	13.3	N	N
Vehicle only	12.9	N	N	14.5	N	N	9.5	N	N
Vehicle with driver	24.6	N	N	26.2	N	N	9.1	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ³	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	3.4	N	N	4.9	N	N	3.7	N	N
Not reported	5.8	N	N	6.8	N	N	3.9	N	N
Length of leasing agreement:									
Leased	17.9	N	N	15.0	N	N	8.5	N	N
1 to 11 months	28.0	N	N	32.5	N	N	23.8	N	N
12 months or more	7.9	N	N	8.8	N	N	6.3	N	N
Not reported	43.0	N	N	S	N	N	S	N	N
Not applicable ³	21.4	N	N	24.0	N	N	10.8	N	N
Provisions of lease:									
Financing only	9.8	N	N	11.0	N	N	7.7	N	N
Full maintenance	14.5	N	N	16.1	N	N	11.4	N	N
Payment of taxes	14.9	N	N	16.6	N	N	11.5	N	N
Obtaining licenses and permits	13.7	N	N	15.5	N	N	11.2	N	N
Recordkeeping	18.3	N	N	20.0	N	N	15.0	N	N
Fuel contract	24.0	N	N	25.3	N	N	18.2	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	7.7	N	N	10.1	N	N	6.2	N	N
Motor carrier	20.6	N	N	12.5	N	N	11.2	N	N
Owner operator	25.1	N	N	22.7	N	N	11.2	N	N
Rental	45.6	N	N	22.6	N	N	27.8	N	N
Personal transportation	2.2	N	N	3.7	N	N	3.0	N	N
Not applicable ¹	27.5	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	7.4	N	N	8.0	N	N	4.9	N	N
Common	7.0	N	N	8.0	N	N	5.9	N	N
Not reported	18.0	N	N	26.8	N	N	21.7	N	N
Not applicable ⁴ .....	.8	N	N	3.0	N	N	2.9	N	N
Type of service:									
Truckload	5.3	6.8	12.1	5.7	7.5	11.5	4.0	3.5	4.6
Less-than truckload	12.2	14.6	25.2	14.5	17.0	18.6	10.5	8.6	8.5
Not reported	18.0	N	N	26.6	N	N	21.5	N	N
Not applicable ⁴ .....	.8	N	N	3.0	N	N	2.9	N	N
Source of hauls:									
Shippers or receivers	5.7	N	N	6.2	N	N	4.3	N	N
Brokers	15.4	N	N	16.4	N	N	9.0	N	N
Centralized markets or exchanges	31.1	N	N	38.3	N	N	27.2	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	12.0	N	N	16.1	N	N	12.9	N	N
Not applicable ⁴ .....	.8	N	N	3.0	N	N	2.9	N	N
HAZARDOUS MATERIALS CARRIED⁵									
Carrying hazardous materials	11.3	10.5	11.8	12.8	13.1	11.7	9.7	9.1	11.1
Not carrying hazardous materials	1.6	1.9	2.4	3.5	4.0	4.8	3.4	3.5	4.5
Not reported	9.5	7.9	5.8	13.5	14.8	16.9	11.5	11.9	29.8
Not applicable ⁶ .....	.8	N	N	3.1	N	N	3.0	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	22.9	N	N	29.8	N	N	21.1	N	N
Air bag(s) (safety device only)	3.5	6.2	17.8	4.6	6.8	17.1	3.0	3.9	4.1
Air compressor (except air brakes)	9.6	N	N	12.4	N	N	9.8	N	N
Air-conditioning	2.1	2.5	4.5	3.4	3.4	5.8	2.8	2.6	3.4
Air springs	4.4	N	N	6.0	N	N	4.3	N	N
Antilock brake system	3.3	4.4	9.4	4.3	5.3	10.1	3.0	3.2	3.9
Collision warning system	S	N	N	S	N	N	S	N	N
Computerized drive train control unit	9.8	N	N	11.1	N	N	5.6	N	N
Crane	19.2	N	N	22.9	N	N	15.1	N	N
Electronic vehicle identification device	23.2	21.7	25.7	25.7	21.9	25.8	15.4	8.8	16.8
Engine retarder/brake	3.7	5.4	8.1	5.1	6.5	8.6	3.8	3.5	4.4
Front-wheel drive	3.5	6.1	18.3	5.1	7.6	21.3	3.6	4.5	5.2
Hoist	4.5	N	N	8.7	N	N	7.7	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	14.1	N	N	16.9	N	N	11.5	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	12.1	N	N	15.7	N	N	10.2	N	N
Mounting bar for snowplow	29.1	N	N	S	N	N	S	N	N
Navigational system	44.3	21.1	7.0	49.4	22.7	7.1	20.9	7.3	20.4
Power take-off	3.6	N	N	6.2	N	N	5.5	N	N
Radial tires	2.9	1.8	3.4	4.1	3.0	4.7	3.1	2.6	3.8
Reflective material in addition to those required by law	6.4	5.6	5.5	8.5	7.2	6.0	7.0	5.8	7.6
Road speed governor	4.5	5.2	6.1	5.6	6.1	7.7	4.7	4.7	6.9
Toolbox	13.1	N	N	15.7	N	N	11.5	N	N
Trip recorder or on-board computer with communication capabilities	19.5	N	N	18.1	N	N	7.4	N	N
Trip recorder or on-board computer without communication capabilities	8.2	N	N	9.5	N	N	5.5	N	N
Vehicle control aids for handicapped drivers	S	S	S	S	S	S	S	S	S
Wheelchair lift	S	S	S	S	S	S	S	S	S
Winch	13.7	N	N	19.2	N	N	14.5	N	N
Transmission type:									
Automatic	1.9	N	N	3.5	N	N	3.0	N	N
Manual	8.0	N	N	8.4	N	N	6.9	N	N
Semiautomated manual	S	N	N	S	N	N	S	N	N
Automated manual	29.8	N	N	34.6	N	N	17.7	N	N
Not reported	27.9	N	N	24.8	N	N	11.5	N	N
Braking system:									
Hydraulic (standard)	4.5	5.9	8.0	8.0	12.4	14.0	6.6	10.2	10.7
Hydraulic with power assist	5.7	6.3	8.1	9.3	10.7	12.3	7.3	8.2	10.0
Air	2.1	2.7	3.6	3.6	4.2	5.1	3.5	3.4	4.3
Other	N	28.1	N	N	43.4	N	N	33.4	N
Not reported	12.9	N	N	16.0	N	N	12.4	N	N
Not applicable ⁹	.8	N	N	3.2	N	N	3.1	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	1.5	1.1	2.1	3.3	2.9	4.8	3.0	2.7	3.9
Diesel	9.3	8.2	15.5	7.7	6.0	10.2	6.5	5.3	7.1
Natural gas	S	N	N	S	N	N	S	N	N
Propane	44.4	N	N	S	N	N	S	N	N
Alcohol fuels	39.9	N	N	48.1	N	N	26.0	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	S	N	N	S	N	N	S	N	N
Not applicable ¹	27.5	N	N	S	N	N	S	N	N
Cylinders ⁹ :									
4 cylinders	14.6	12.1	19.8	16.8	14.2	21.9	8.4	7.5	10.7
6 cylinders	4.3	3.7	6.2	5.0	4.2	6.4	3.6	3.0	4.2
8 cylinders	4.5	4.5	8.3	6.4	6.4	12.2	4.6	4.3	6.5
Other	15.2	10.6	11.1	32.3	28.1	18.8	18.6	24.2	22.4
Cubic inch displacement ⁹ :									
Gasoline fuel	1.5	1.1	2.1	3.3	2.9	4.8	3.0	2.7	3.9
Less than 200	9.5	6.9	10.2	11.9	8.8	12.4	7.2	5.5	8.7
200 to 299	5.6	6.3	12.9	7.1	7.5	13.0	4.4	4.3	5.1
300 to 349	8.8	7.6	12.8	10.8	9.7	18.4	6.2	6.0	9.9
350 to 399	9.6	8.0	12.7	12.5	10.3	16.1	7.7	6.3	9.8
400 or more	27.4	21.6	31.0	30.9	25.8	32.7	18.3	19.9	24.7
Not available	20.2	13.8	10.3	25.8	32.2	9.0	18.4	27.9	17.4
Diesel fuel	9.3	8.2	15.5	7.7	6.0	10.2	6.5	5.3	7.1
Less than 400	26.3	21.5	31.3	26.4	24.9	21.6	11.7	13.6	11.6
400 to 599	17.6	18.0	49.9	24.1	16.2	57.6	15.8	10.0	18.7
600 to 799	4.1	6.2	10.8	6.0	8.2	14.2	4.7	5.7	7.1
800 or more	5.1	5.1	6.4	7.2	6.8	6.9	5.2	4.0	5.1
Not available	7.9	7.1	7.9	13.7	12.9	16.7	12.2	11.0	19.6
Other fuel	33.3	S	S	41.4	42.6	444.3	24.4	S	S
Less than 400	34.6	S	S	43.0	48.4	550.9	25.3	S	S
400 or more	44.4	S	S	S	S	S	S	S	S
Not available	47.6	45.6	44.2	S	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹	27.5	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
REFUELING LOCATION									
Gas station	1.4	N	N	3.3	N	N	3.0	N	N
Truck stop	17.0	N	N	7.0	N	N	13.7	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	14.8	N	N	13.4	N	N	9.3	N	N
Other company's/contractor's facility not open to the public	S	N	N	38.0	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	30.9	N	N	30.7	N	N	5.2	N	N
Not applicable ¹	27.5	N	N	S	N	N	S	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	30.7	45.3	178.1	40.5	S	S	25.6	S	S
Company-owned maintenance facility	12.1	10.6	19.6	9.9	8.9	14.1	6.9	7.0	8.5
General repair business or private mechanic ..	5.3	4.9	8.9	6.4	6.1	10.0	4.1	4.1	5.2
Dealership service department	6.6	6.5	12.4	7.2	7.4	11.6	3.8	4.3	4.9
Leasing company	S	S	S	34.1	45.3	41.8	S	S	S
Individual not employed/paid by any maintenance type facility									
Other	5.0	3.6	5.7	7.0	5.0	8.2	5.0	3.6	6.3
Other	N	S	S	N	47.9	N	N	S	S
Not reported	32.7	18.7	20.1	32.4	23.7	21.7	5.4	14.3	15.5
Not applicable ¹	27.5	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	2.2	16.8	339.3	3.6	20.5	464.7	2.9	13.2	15.0
Company-owned maintenance facility	33.7	17.5	14.6	27.0	21.6	14.3	15.1	15.7	23.4
General repair business or private mechanic ..	16.8	8.2	7.6	18.2	9.6	10.2	9.8	5.7	13.9
Dealership service department	16.7	8.3	7.8	17.1	8.4	7.0	9.4	4.7	9.2
Leasing company	S	44.0	S	S	S	S	S	S	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	S	21.5	S	S	22.1	S	S	13.5	S
Other	19.4	11.9	13.8	23.7	15.6	26.9	14.2	10.8	27.9
Other	N	S	S	N	S	S	N	S	S
Not reported	S	3.6	S	S	4.7	S	S	3.2	S
Not applicable ¹	27.5	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	1.1	1.0	1.7	3.2	2.8	4.6	3.0	2.6	3.7
3 axles	1.1	1.0	1.7	3.2	2.8	4.7	3.0	2.6	3.8
4 axles	5.6	6.1	7.2	10.0	9.2	11.4	8.4	8.0	11.1
5 axles or more	10.9	11.0	14.3	15.8	14.1	15.2	11.5	10.1	11.9
Not reported	19.1	N	N	22.7	N	N	12.1	N	N
Not applicable ¹	47.2	N	N	S	N	N	S	N	S
Combinations									
Single-unit trucks with trailer	13.7	11.3	25.2	7.0	6.2	9.9	9.8	8.5	9.7
3 axles	21.2	22.6	57.2	25.4	27.2	55.8	15.4	16.7	18.5
4 axles	30.3	38.5	118.5	35.8	S	S	20.8	S	S
5 axles or more	32.7	31.8	70.3	41.3	39.2	74.2	23.7	21.1	26.9
Not reported	17.9	18.0	20.0	23.7	21.9	26.1	16.1	16.6	23.6
Truck-tractors with single trailer	N	N	N	N	N	N	N	N	N
3 axles	2.7	3.5	4.4	4.0	4.9	6.0	3.2	3.3	4.4
4 axles	33.5	27.1	25.4	42.0	40.5	20.8	26.9	31.8	25.3
5 axles or more	16.4	16.9	20.2	22.7	23.3	16.7	16.7	16.0	13.8
Not reported	2.9	3.7	4.8	4.2	5.1	6.6	3.2	3.2	4.3
Truck-tractors with double trailers	S	N	N	S	N	N	S	N	N
5 axles	44.2	S	S	S	S	S	S	S	S
6 axles	S	N	N	S	N	N	S	N	S
7 axles	S	N	N	N	N	N	N	N	N
8 axles or more	N	S	S	N	S	S	N	S	S
Not reported	N	N	N	N	N	N	N	N	N
Truck-tractors with triple trailers	N	N	N	N	N	N	N	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	5.2	3.4	5.1	7.2	4.9	6.7	5.0	3.6	5.7
2	3.3	4.1	8.3	4.3	4.7	8.9	3.1	3.1	4.0
3 or more	25.3	26.8	24.4	30.7	43.2	10.3	17.4	29.4	10.0
Not reported	39.5	N	N	S	N	S	S	N	S
Total liftable axles and locations:									
None	1.1	3.8	9.1	3.0	5.9	14.1	2.9	5.1	5.4
1	9.3	11.5	19.9	13.1	13.9	21.9	10.3	10.9	12.8
Forward of the drive axle	12.5	N	N	17.0	N	N	12.7	N	N
Below the chassis	18.6	N	N	26.6	N	N	23.0	N	N
Beyond the chassis	47.4	N	N	S	N	N	S	N	N
Not reported	27.9	N	N	34.8	N	N	24.7	N	N
2 or more	18.8	29.2	61.2	22.1	33.9	61.5	11.6	18.3	18.7
Forward of the drive axle	18.8	N	N	22.1	N	N	11.6	N	N
Below the chassis	34.9	N	N	40.3	N	N	20.2	N	N
Beyond the chassis	25.3	N	N	27.5	N	N	10.9	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	25.5	N	N	41.1	N	N	34.4	N	N
Not applicable ² .....	.8	N	N	3.2	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
TRUCK TYPE AND AXLE ARRANGEMENT—Con.									
Total liftable axles and number of braking axles:									
None	1.1	3.8	9.1	3.0	5.9	14.1	2.9	5.1	5.4
1	9.3	11.5	19.9	13.1	13.9	21.9	10.3	10.9	12.8
0 braking	27.4	N	N	37.8	N	N	31.2	N	N
1 braking	10.4	N	N	14.2	N	N	10.8	N	N
Not reported	40.4	N	N	S	N	N	S	N	N
2 or more	18.8	29.2	61.2	22.1	33.9	61.5	11.6	18.3	18.7
0 braking	N	N	N	N	N	N	N	N	N
1 braking	S	N	N	S	N	N	S	N	N
2 or more braking	19.1	N	N	22.2	N	N	11.3	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	25.5	N	N	41.1	N	N	34.4	N	N
Not applicable ⁸ .....	.8	N	N	3.2	N	N	3.1	N	N
CAB TYPE									
Conventional cab	1.1	2.2	2.7	3.0	4.1	5.1	2.9	3.5	4.1
With sleeper	4.9	N	N	5.7	N	N	3.1	N	N
Without sleeper	1.5	N	N	4.0	N	N	3.6	N	N
Not reported	22.3	N	N	26.2	N	N	13.6	N	N
Cab over engine	8.2	8.0	8.6	13.4	12.2	10.9	11.8	9.9	12.3
With sleeper	17.3	N	N	27.5	N	N	21.3	N	N
Without sleeper	9.5	N	N	13.4	N	N	11.2	N	N
Not reported	49.5	N	N	S	N	N	S	N	N
Cab forward of engine	29.3	24.8	22.9	40.4	33.7	44.0	25.8	21.0	46.8
Cab beside engine	49.7	35.2	28.9	S	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁹ .....	.8	N	N	3.2	N	N	3.1	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.

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	129.4	139.0	-6.9	3 157.0	3 506.3	-10.0	24.4	25.2	-3.3
BUSINESS¹									
For-hire transportation or warehousing	19.8	18.1	9.6	1 432.5	1 497.0	-4.3	72.3	82.8	-12.7
Vehicle leasing or rental	3.3	4.9	-32.5	143.0	188.2	-24.0	43.5	38.6	12.7
Agriculture, forestry, fishing, or hunting	32.1	43.2	-25.7	302.2	422.3	-28.4	9.4	9.8	-3.6
Mining	1.3	.6	112.9	27.5	8.4	227.6	20.9	13.6	53.9
Utilities	3.3	S	S	43.2	68.9	-37.3	13.0	S	S
Construction	26.1	25.1	4.2	349.4	410.1	-14.8	13.4	16.3	-18.2
Manufacturing	6.3	4.8	30.0	173.9	185.7	-6.4	27.8	38.5	-28.0
Wholesale trade	5.4	6.5	-17.4	158.9	278.2	-42.9	29.7	42.9	-30.9
Retail trade	8.2	12.1	-31.9	164.5	246.5	-33.3	20.1	20.5	-2.0
Information services .....	.6	N	N	8.1	N	N	14.6	N	N
Waste management, landscaping, or administrative/support services	8.4	N	N	125.2	N	N	15.0	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	1.6	N	N	63.7	N	N	38.9	N	N
Other services	2.3	N	N	30.4	N	N	13.0	N	N
Personal transportation	2.5	4.1	-38.4	18.1	19.2	-5.8	7.2	4.7	52.9
Not reported	3.8	V	N	111.0	V	N	29.0	V	N
Not applicable ²	4.1	5.5	-25.3	2.8	S	S	.7	S	S
BODY TYPE									
Single-unit trucks	95.2	105.9	-10.1	1 043.6	1 315.6	-20.7	11.0	12.4	-11.8
Armored	S	N	N	S	N	N	S	N	N
Beverage .....	.9	.7	27.0	15.9	S	S	18.2	S	S
Concrete mixer	1.6	1.6	.8	23.7	23.5	.7	14.6	14.6	-.1
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane .....	.2	1.3	-81.5	S	19.2	S	S	15.3	S
Curtainside	V	N	N	V	N	N	V	N	N
Dump	20.7	11.2	84.9	158.7	138.4	14.6	7.7	12.4	-38.0
Flatbed, stake, or platform	19.0	33.6	-43.5	175.9	312.0	-43.6	9.3	9.3	-2
Low boy	S	.9	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe	S	.4	S	S	S	S	S	S	S
Service, utility	2.2	2.2	.5	27.8	27.0	2.8	12.5	12.2	2.3
Service, other	3.8	2.9	32.7	70.2	37.5	87.2	18.3	12.9	41.1
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	2.5	1.6	62.9	10.7	26.3	-59.2	4.2	16.9	-74.9
Tank, liquids or gases	4.4	7.0	-37.2	56.6	113.1	-49.9	12.9	16.2	-20.3
Tow/Wrecker	3.0	2.5	19.3	38.4	20.8	84.7	12.7	8.2	54.8
Trash, garbage, or recycling	3.6	2.7	33.9	80.2	64.0	25.3	22.5	24.0	-6.4
Vacuum .....	.5	N	N	2.7	N	N	5.5	N	N
Van, basic enclosed	10.7	8.0	33.8	187.9	220.2	-14.7	17.6	27.6	-36.2
Van, insulated nonrefrigerated .....	.5	.2	166.1	S	S	S	S	S	S
Van, insulated refrigerated	1.9	1.4	34.7	42.1	31.4	33.9	22.1	22.2	-.6
Van, open top	9.8	16.7	-41.2	22.2	60.4	-63.2	2.3	3.6	-37.4
Van, step, walk-in, or multistop	7.1	9.8	-27.7	85.6	161.7	-47.0	12.0	16.4	-26.8
Van, other	1.5	N	N	22.1	N	N	14.3	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	34.2	33.1	3.3	2 113.3	2 190.7	-3.5	61.8	66.2	-6.6
Automobile carrier .....	.3	S	S	S	S	S	S	S	S
Beverage .....	.4	4	4.4	5.7	15.8	-64.0	13.3	38.6	-65.6
Curtainside .....	.2	N	N	S	N	N	S	N	N
Dump	4.6	2.0	123.8	150.2	107.0	40.4	32.7	52.2	-37.3
Flatbed, stake, or platform	5.1	3.1	64.0	320.5	170.1	88.4	62.8	54.6	14.9
Livestock .....	.5	.7	-33.0	42.1	49.7	-15.3	88.2	69.8	26.4
Low boy	1.4	2.5	-43.4	43.7	71.7	-39.2	30.8	28.6	7.6
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	2.7	4.9	-44.5	108.7	188.8	-42.4	39.8	38.4	3.7
Pole, logging, pulpwood, or pipe .....	.7	.9	-23.8	31.3	41.3	-24.1	47.2	47.4	-.5
Tank, dry bulk .....	.8	S	S	37.0	S	S	47.7	S	S
Tank, liquids or gases	1.8	1.7	5.6	110.2	113.8	-3.2	61.8	67.5	-8.4
Van, basic enclosed	9.8	10.2	-4.4	796.2	863.7	-7.8	81.4	84.4	-3.6
Van, drop-frame .....	.4	.7	-37.1	25.3	57.9	-56.3	60.4	87.1	-30.6
Van, insulated nonrefrigerated .....	.5	.2	131.8	43.8	S	S	92.4	S	S
Van, insulated refrigerated	3.7	4.7	-20.7	338.2	417.8	-19.0	90.8	88.9	2.1
Other	S	N	N	S	N	N	S	N	N
Not applicable ³	1.0	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	42.4	41.6	1.8	71.9	73.5	-2.1	1.7	1.8	-3.9
5,000 to 9,999	15.3	18.0	-15.2	100.4	122.7	-18.2	6.6	6.8	-3.6
10,000 to 19,999	22.5	24.4	-7.8	299.5	344.2	-13.0	13.3	14.1	-5.7
20,000 to 29,999	14.2	13.5	5.3	323.1	304.5	6.1	22.8	22.6	.8
30,000 to 49,999	10.0	13.1	-23.8	363.2	470.9	-22.9	36.4	35.9	1.2
50,000 to 74,999	6.2	7.3	-14.0	374.2	434.8	-14.0	59.9	59.9	V
75,000 or more	14.8	16.1	-8.2	1 622.0	1 755.6	-7.6	110.0	109.2	.7
Not applicable ²	4.1	5.1	-19.2	2.8	V	N	.7	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	3.5	6.9	-49.4	24.6	31.0	-20.5	7.0	4.5	57.0
50 miles or less	81.6	81.6	V	927.9	951.5	-2.5	11.4	11.7	-2.5
51 to 100 miles	14.4	17.9	-19.7	463.9	554.5	-16.3	32.3	31.0	4.2
101 to 200 miles	5.4	8.6	-37.5	275.4	357.1	-22.9	51.4	41.7	23.3
201 to 500 miles	4.3	8.9	-51.7	290.2	593.9	-51.1	67.3	66.5	1.1
501 miles or more	9.0	10.0	-9.9	936.3	1 018.4	-8.1	103.9	101.8	2.1
Not reported	7.1	5.1	40.5	235.9	V	N	33.1	V	N
Not applicable ²	4.1	N	N	2.8	N	N	.7	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	105.8	N	N	1 752.9	N	N	16.6	N	N
Operated in states other than the home base state	12.5	N	N	1 130.8	N	N	90.8	N	N
Not reported	7.1	N	N	270.5	N	N	38.1	N	N
Not applicable ²	4.1	N	N	2.8	N	N	.7	N	N
MONTHS OPERATED									
12	54.8	N	N	2 126.0	N	N	38.8	N	N
7 to 11	29.3	N	N	703.5	N	N	24.0	N	N
2 to 6	32.7	N	N	307.2	N	N	9.4	N	N
1 or less	8.4	N	N	17.6	N	N	2.1	N	N
Vehicle not used	4.1	N	N	2.8	N	N	.7	N	N
VEHICLE SIZE									
Light	11.8	19.2	-38.4	115.4	198.6	-41.9	9.8	10.3	-5.6
Medium	26.3	29.0	-9.4	317.1	370.8	-14.5	12.1	12.8	-5.6
Light-heavy	22.9	22.2	3.3	188.2	313.5	-40.0	8.2	14.1	-41.9
Heavy-heavy	68.4	68.7	-3	2 536.2	2 623.5	-3.3	37.1	38.2	-3.0
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	1.9	5.1	-62.2	17.7	43.8	-59.6	9.2	8.6	6.7
6,001 to 8,500	3.1	N	N	20.9	N	N	6.8	N	N
8,501 to 10,000	6.8	N	N	76.9	N	N	11.3	N	N
10,001 to 14,000	13.3	12.8	4.1	170.9	143.6	19.0	12.8	11.2	14.3
14,001 to 16,000	7.1	6.7	6.3	82.3	97.5	-15.6	11.6	14.6	-20.6
16,001 to 19,500	5.8	9.5	-38.6	64.0	129.8	-50.7	10.9	13.6	-19.7
19,501 to 26,000	22.9	22.2	3.3	188.2	313.5	-40.0	8.2	14.1	-41.9
26,001 to 33,000	11.0	10.6	3.0	159.3	130.2	22.4	14.5	12.2	18.8
33,001 to 40,000	7.1	7.0	.7	162.6	96.9	67.8	23.0	13.8	66.6
40,001 to 50,000	11.2	16.9	-33.8	228.6	323.6	-29.4	20.4	19.1	6.7
50,001 to 60,000	10.9	8.4	29.2	252.0	295.3	-14.7	23.2	35.1	-33.9
60,001 to 80,000	27.0	25.0	8.1	1 689.7	1 746.3	-3.2	62.6	69.9	-10.4
80,001 to 100,000	1.3	.6	132.0	40.8	25.6	59.3	31.2	45.4	-31.3
100,001 to 130,000	V	S	S	V	S	S	V	S	S
130,001 or more	S	V	S	S	V	S	S	V	S
TOTAL LENGTH (FEET)									
Less than 20.0	22.0	31.2	-29.5	214.7	276.3	-22.3	9.8	8.9	10.3
20.0 to 27.9	45.9	46.0	-1	428.7	514.8	-16.7	9.3	11.2	-16.6
28.0 to 35.9	19.2	19.6	-2.1	249.1	335.1	-25.7	13.0	17.1	-24.0
36.0 to 40.9	6.7	5.9	13.4	162.3	117.3	38.3	24.2	19.8	22.0
41.0 to 44.9	2.2	1.8	23.4	44.7	35.5	26.1	19.9	19.5	2.2
45.0 to 49.9	2.4	2.1	13.2	63.5	52.2	21.5	26.5	24.7	7.3
50.0 to 54.9	3.7	4.1	-10.1	114.2	126.0	-9.3	30.9	30.6	.8
55.0 to 59.9	5.2	7.5	-31.0	218.4	358.5	-39.1	42.0	47.5	-11.7
60.0 to 64.9	8.5	8.3	2.7	469.1	561.6	-16.5	55.2	67.9	-18.7
65.0 to 69.9	7.2	7.1	1.7	574.6	637.4	-9.9	80.0	90.3	-11.3
70.0 to 74.9	5.4	4.3	26.3	528.1	412.8	27.9	98.1	96.8	1.3
75.0 to 79.9 .....	.9	N	N	73.8	N	N	82.9	N	N
80.0 or more	S	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	15.1	14.7	3.0	289.1	362.4	-20.2	19.1	24.7	-22.6
5 to 6.9	47.1	51.0	-7.6	1 925.7	2 005.3	-4.0	40.9	39.3	3.9
7 to 8.9	21.5	25.7	-16.3	285.3	395.3	-27.8	13.2	15.4	-13.7
9 to 10.9	17.2	15.4	11.6	250.5	252.9	-9	14.6	16.4	-11.2
11 to 12.9	7.3	9.0	-19.5	101.1	109.6	-7.8	13.9	12.1	14.6
13 to 14.9	1.8	1.5	18.5	18.6	35.9	-48.2	10.5	23.9	-56.3
15 or more	3.4	5.1	-32.3	36.4	S	S	10.6	S	S
15 to 20.9	3.4	5.1	-32.3	36.4	S	S	10.6	S	S
21 to 24.9	V	V	N	V	V	N	V	V	N
25 or more	V	V	N	V	V	N	V	V	N
Not reported	11.9	16.6	-28.3	247.4	265.5	-6.8	20.8	16.0	29.9
Not applicable ²	4.1	N	N	2.8	N	N	.7	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	S	N	N	S	N	N	S	N	N
2002	2.6	N	N	124.2	N	N	47.5	N	N
2001	4.7	N	N	243.5	N	N	52.4	N	N
2000	10.8	N	N	594.8	N	N	55.3	N	N
1999	8.1	N	N	401.4	N	N	49.7	N	N
1998	5.4	S	S	236.8	S	S	43.5	S	S
1997	6.5	4.3	50.5	219.8	240.7	-8.7	33.9	55.9	-39.3
1996	5.7	6.3	-9.1	265.9	509.2	-47.8	46.3	80.6	-42.6
1995	7.5	9.2	-18.7	247.4	370.3	-33.2	33.1	40.3	-17.9
1994	5.8	6.2	-7.8	138.9	279.8	-50.3	24.2	44.8	-46.1
1993	5.6	6.0	-7.0	145.0	321.4	-54.9	25.8	53.3	-51.5
Pre-1993	66.5	105.0	-36.7	524.5	1 703.7	-69.2	7.9	16.2	-51.4
VEHICLE ACQUISITION									
New	47.8	43.4	10.1	1 774.4	1 628.1	9.0	37.1	37.5	-1.0
Used	77.8	83.0	-6.4	1 263.3	1 339.6	-5.7	16.2	16.1	.7
Not reported	3.8	12.5	-69.5	119.3	538.6	-77.9	31.2	43.0	-27.4
LEASE CHARACTERISTICS									
Leased	13.3	N	N	685.8	N	N	51.7	N	N
Lessee	7.5	N	N	358.4	N	N	47.5	N	N
Vehicle only	7.3	N	N	343.6	N	N	47.1	N	N
Vehicle with driver	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	N
Lessor	5.4	N	N	322.1	N	N	59.3	N	N
Vehicle only	4.4	N	N	216.8	N	N	49.2	N	N
Vehicle with driver	1.0	N	N	93.6	N	N	97.6	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	78.9	N	N	1 801.5	N	N	22.8	N	N
Not reported	37.2	N	N	669.7	N	N	18.0	N	N
Length of leasing agreement:									
Leased	13.3	N	N	685.8	N	N	51.7	N	N
1 to 11 months	1.0	N	N	36.0	N	N	34.7	N	N
12 months or more	11.7	N	N	637.1	N	N	54.6	N	N
Not reported .....	.6	N	N	S	N	N	S	N	N
Provisions of lease ⁴ :									
Financing only	7.9	N	N	419.7	N	N	53.2	N	N
Full maintenance	3.9	N	N	174.8	N	N	44.3	N	N
Payment of taxes	3.6	N	N	170.4	N	N	46.9	N	N
Obtaining licenses and permits	4.2	N	N	230.7	N	N	55.1	N	N
Recordkeeping	2.6	N	N	125.2	N	N	47.8	N	N
Fuel contract	1.4	N	N	90.5	N	N	64.5	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	91.6	N	N	1 236.4	N	N	13.5	N	N
Motor carrier	15.8	N	N	1 024.6	N	N	64.7	N	N
Owner operator	11.8	N	N	720.9	N	N	60.9	N	N
Rental	3.5	N	N	154.2	N	N	43.7	N	N
Personal transportation	2.5	N	N	18.1	N	N	7.2	N	N
Not applicable ²	4.1	N	N	2.8	N	N	.7	N	N
For-hire characteristics:									
Type of carrier:									
Contract	11.0	N	N	844.4	N	N	77.1	N	N
Common	13.7	N	N	822.9	N	N	59.9	N	N
Not reported	3.0	N	N	78.2	N	N	26.1	N	N
Not applicable ⁵	101.7	N	N	1 411.4	N	N	13.9	N	N
Type of service:									
Truckload	19.0	13.4	41.5	1 406.2	1 158.2	21.4	74.1	86.3	-14.2
Less-than truckload	5.7	4.3	32.5	259.9	312.4	-16.8	45.6	72.6	-37.2
Not reported	3.0	N	N	79.4	N	N	26.6	N	N
Not applicable ⁵	101.7	N	N	1 411.4	N	N	13.9	N	N
Source of hauls:									
Shippers or receivers	18.2	N	N	1 277.2	N	N	70.3	N	N
Brokers	2.6	N	N	219.5	N	N	83.0	N	N
Centralized markets or exchanges .....	.7	N	N	31.9	N	N	44.7	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	6.1	N	N	216.9	N	N	35.3	N	N
Not applicable ⁵	101.7	N	N	1 411.4	N	N	13.9	N	N
HAZARDOUS MATERIALS CARRIED⁶									
Carrying hazardous materials	6.5	8.5	-23.2	308.4	481.1	-35.9	47.2	56.6	-16.5
Not carrying hazardous materials	102.7	107.5	-4.4	2 422.5	2 697.5	-10.2	23.6	25.1	-6.0
Not reported	10.0	14.5	-31.1	251.0	236.3	6.2	25.1	16.3	54.2
Not applicable ⁷	10.1	N	N	175.1	N	N	17.3	N	N
EQUIPMENT TYPE⁴									
Aerial work platform/bucket	2.1	N	N	23.8	N	N	11.4	N	N
Air bag(s) (safety device only)	9.7	11.3	-14.2	318.1	767.1	-58.5	32.9	67.9	-51.6
Air compressor (except air brakes)	8.1	N	N	353.5	N	N	43.4	N	N
Air-conditioning	60.4	45.0	34.2	2 585.7	2 436.4	6.1	42.8	54.1	-20.9
Air springs	20.7	N	N	1 281.1	N	N	61.8	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent 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	30.0	11.2	168.4	1 558.9	657.5	137.1	52.0	58.8	-11.7
Collision warning system	S	N	N	S	N	N	S	N	N
Computerized drive train control unit	3.2	N	N	166.1	N	N	51.6	N	N
Crane	2.6	N	N	42.6	N	N	16.4	N	N
Electronic vehicle identification device	1.2	1.5	-19.2	109.4	143.4	-23.7	91.2	96.7	-5.6
Engine retarder/brake	24.9	20.3	22.7	1 621.9	1 559.8	4.0	65.1	76.9	-15.3
Front-wheel drive	V	V	N	V	V	N	V	V	N
Hoist	34.6	N	N	228.3	N	N	6.6	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	3.4	N	N	208.5	N	N	61.0	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	6.9	N	N	112.0	N	N	16.2	N	N
Mounting bar for snowplow	2.3	N	N	14.4	N	N	6.2	N	N
Navigational system .....	.3	2.1	-85.8	27.6	211.8	-87.0	93.7	101.9	-8.1
Power take-off	46.8	N	N	713.3	N	N	15.3	N	N
Radial tires	76.3	86.0	-11.3	2 510.4	2 968.2	-15.4	32.9	34.5	-4.7
Reflective material in addition to those required by law	18.7	28.8	-35.2	615.9	1 143.8	-46.2	33.0	39.7	-16.8
Road speed governor	29.5	32.9	-10.3	1 386.8	1 504.9	-7.8	47.1	45.8	2.8
Toolbox	27.6	N	N	785.5	N	N	28.4	N	N
Trip recorder or on-board computer with communication capabilities	3.4	N	N	233.5	N	N	68.0	N	N
Trip recorder or on-board computer without communication capabilities	5.3	N	N	322.3	N	N	60.7	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	5.3	N	N	62.9	N	N	11.8	N	N
Transmission type:									
Automatic	29.4	N	N	430.4	N	N	14.7	N	N
Manual	93.7	N	N	2 472.7	N	N	26.4	N	N
Semiautomated manual .....	.5	N	N	S	N	N	S	N	N
Automated manual .....	.7	N	N	66.1	N	N	100.8	N	N
Not reported	5.2	N	N	172.2	N	N	32.9	N	N
Braking system:									
Hydraulic (standard)	34.8	32.4	7.5	332.7	350.1	-5.0	9.6	10.8	-11.6
Hydraulic with power assist	25.5	26.6	-4.3	240.7	276.5	-12.9	9.4	10.4	-9.1
Air	63.8	61.2	4.2	2 412.7	2 630.1	-8.3	37.8	42.9	-12.0
Other	V	1.6	N	V	23.5	N	V	14.9	N
Not reported	5.3	N	N	170.9	N	N	32.2	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	40.9	57.7	-29.2	242.7	457.6	-47.0	5.9	7.9	-25.1
Diesel	83.1	74.6	11.5	2 900.2	3 001.5	-3.4	34.9	40.3	-13.3
Natural gas	V	N	N	V	N	N	V	N	N
Propane .....	.6	N	N	S	N	N	S	N	N
Alcohol fuels	S	N	N	S	N	N	S	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ²	4.1	N	N	2.8	N	N	.7	N	N
Cylinders ⁸ :									
4 cylinders	1.6	1.3	27.9	25.9	22.8	13.7	15.9	17.9	-11.1
6 cylinders	61.8	56.9	8.7	2 605.6	2 679.5	-2.8	42.2	47.1	-10.6
8 cylinders	42.6	41.9	1.7	427.4	506.3	-15.6	10.0	12.1	-17.0
Other	23.4	39.0	-40.1	98.1	297.8	-67.1	4.2	7.6	-45.0
Cubic inch displacement ⁸ :									
Gasoline fuel	40.9	57.7	-29.2	242.7	457.6	-47.0	5.9	7.9	-25.1
Less than 200	V	S	S	V	S	S	V	S	S
200 to 299	S	.7	S	S	S	S	S	S	S
300 to 349	1.4	.7	85.7	13.0	S	S	9.5	S	S
350 to 399	15.1	15.3	-1.4	128.8	194.9	-33.9	8.5	12.7	-33.0
400 or more	8.1	8.7	-6.2	69.4	113.0	-38.6	8.5	13.0	-34.5
Not available	15.9	31.1	-49.0	29.1	118.0	-75.4	1.8	3.8	-51.7
Diesel fuel	83.1	74.6	11.5	2 900.2	3 001.5	-3.4	34.9	40.3	-13.3
Less than 400	8.2	8.8	-7.1	135.7	174.8	-22.4	16.6	19.9	-16.5
400 to 599	24.0	16.5	45.3	423.0	383.2	10.4	17.7	23.2	-24.0
600 to 799	23.6	16.2	45.7	1 137.3	815.4	39.5	48.1	50.3	-4.3
800 or more	16.3	18.2	-10.4	870.7	1 252.0	-30.5	53.3	68.7	-22.4
Not available	11.0	14.8	-25.6	333.6	376.1	-11.3	30.2	25.3	19.2
Other fuel	1.3	2.1	-37.1	11.2	22.9	-50.9	8.7	11.1	-21.9
Less than 400	S	1.3	S	S	17.7	S	S	14.0	S
400 or more .....	.6	S	S	S	S	S	S	S	S
Not available .....	.4	.6	-32.9	S	S	S	S	S	S
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ²	4.1	N	N	2.8	N	N	.7	N	N
REFUELING LOCATION									
Gas station	61.1	N	N	774.8	N	N	12.7	N	N
Truck stop	24.9	N	N	1 484.0	N	N	59.6	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	35.5	N	N	789.9	N	N	22.3	N	N
Other company's/contractor's facility not open to the public	1.9	N	N	72.7	N	N	38.9	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	1.9	N	N	32.9	N	N	16.9	N	N
Not applicable ²	4.1	N	N	2.8	N	N	.7	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent	2002 truck	1997 truck	Percent	2002 average	1997 average	Percent
	(thousands)	(thousands)	change	miles	miles	change	miles per	miles per	change
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁴									
General maintenance performed by:									
None performed	2.3	S	S	8.9	S	S	4.0	S	S
Company-owned maintenance facility	47.5	44.1	7.7	1 545.1	1 623.9	-4.9	32.5	36.8	-11.7
General repair business or private mechanic	40.3	30.7	31.3	1 116.3	859.6	29.9	27.7	28.0	-1.1
Dealership service department	16.3	15.9	2.1	694.9	661.6	5.0	42.7	41.5	2.8
Leasing company	1.3	1.6	-19.0	81.3	79.0	3.0	64.6	50.8	27.2
Individual not employed/paid by any maintenance type facility:									
Other	37.7	63.3	-40.4	619.8	1 258.3	-50.7	16.4	19.9	-17.3
Not reported	V	.5	N	V	23.5	N	V	45.5	N
Not applicable ²	1.8	7.8	-77.2	31.0	99.6	-68.9	17.5	12.8	36.6
	4.1	N	N	2.8	N	N	.7	N	N
Extensive repairs performed by:									
None performed	98.9	5.7	1 628.2	2 252.6	91.2	2 369.6	22.8	15.9	42.9
Company-owned maintenance facility	6.8	18.5	-63.6	235.4	511.0	-53.9	34.9	27.6	26.5
General repair business or private mechanic	8.7	30.2	-71.1	293.7	617.3	-52.4	33.6	20.4	64.5
Dealership service department	6.2	23.3	-73.5	309.7	1 058.6	-70.7	50.0	45.4	10.3
Leasing company	S	1.1	S	S	47.6	S	S	41.7	S
Component distributorship (engine, transmission, body, etc.):									
Individual not employed/paid by any repair type facility	.6	6.1	-89.4	28.8	222.8	-87.1	44.5	36.6	21.6
Other	3.6	12.6	-71.6	85.3	205.9	-58.6	23.8	16.4	45.7
Not reported	V	.3	N	V	15.9	N	V	51.8	N
Not applicable ²	4.1	52.1	N	V	1 183.3	N	V	22.7	N
		N	N	2.8	N	N	.7	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	90.1	97.0	-7.2	939.5	1 158.9	-18.9	10.4	11.9	-12.7
3 axles	66.4	72.3	-8.2	665.1	857.7	-22.5	10.0	11.9	-15.5
4 axles	17.4	19.9	-12.5	162.3	193.4	-16.1	9.3	9.7	-4.1
5 axles or more	4.4	4.8	-7.7	77.4	107.8	-28.3	17.4	22.4	-22.3
Not reported	1.5	N	N	34.4	N	N	22.7	N	N
	S	V	S	S	V	S	S	V	S
Combinations:									
Single-unit trucks with trailer:	39.4	42.0	-6.2	2 217.5	2 347.4	-5.5	56.3	55.9	.8
3 axles	6.2	8.9	-30.2	104.2	156.6	-33.5	16.8	17.6	-4.7
4 axles	1.0	.7	44.7	S	7.8	S	S	11.5	S
5 axles or more	3.2	5.7	-43.2	32.5	88.1	-63.1	10.1	15.5	-35.1
Not reported	2.0	2.5	-21.1	49.0	60.7	-19.2	24.5	23.9	2.3
	V	N	N	V	N	N	V	N	N
Truck-tractors with single trailer:	32.8	32.8	.1	2 084.6	2 178.9	-4.3	63.5	66.4	-4.4
3 axles	.8	1.3	-41.2	11.7	32.8	-64.3	14.9	24.5	-39.3
4 axles	2.5	2.9	-14.1	68.6	133.5	-48.6	27.8	46.5	-40.1
5 axles or more	29.5	28.6	3.0	2 002.7	2 012.5	-.5	68.0	70.4	-3.4
Not reported	S	N	N	S	N	S	S	N	N
Truck-tractors with double trailers:	.3	S	S	S	S	S	S	S	S
5 axles	S	S	S	S	S	S	S	S	S
6 axles	S	V	S	S	V	S	S	V	S
7 axles	V	V	N	V	V	N	V	V	N
8 axles or more	V	S	S	V	S	S	V	S	S
Not reported	V	N	N	V	N	N	V	N	N
Truck-tractors with triple trailers:	V	V	N	V	V	N	V	V	N
7 axles	V	V	N	V	V	N	V	V	N
8 axles	V	V	N	V	V	N	V	V	N
9 axles	V	V	N	V	V	N	V	V	N
10 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	N	N	V	N	N
Driving axles:									
1	72.0	85.0	-15.3	786.4	1 204.0	-34.7	10.9	14.2	-22.9
2	56.1	52.7	6.5	2 356.7	2 240.4	5.2	42.0	42.5	-1.3
3 or more	.9	1.3	-33.7	12.0	61.9	-80.6	13.8	47.2	-70.8
Not reported	.4	V	N	S	V	S	S	V	S
Total liftable axles and locations ⁹ :									
None	118.7	49.5	139.6	2 974.9	1 389.3	114.1	25.1	28.1	-10.6
1	8.2	5.9	38.1	140.2	119.1	17.6	17.2	20.2	-14.8
Forward of the drive axle	4.5	N	N	73.0	N	N	16.2	N	N
Below the chassis	2.3	N	N	35.2	N	N	15.1	N	N
Beyond the chassis	.4	N	N	S	N	N	S	N	N
Not reported	1.0	N	N	23.4	N	N	24.6	N	N
2 or more	1.6	.8	87.2	36.6	23.9	53.4	23.3	28.4	-18.0
Forward of the drive axle	1.6	N	N	36.6	N	N	23.3	N	N
Below the chassis	.5	N	N	15.4	N	N	33.1	N	N
Beyond the chassis	.9	N	N	14.4	N	N	16.6	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	1.0	N	N	5.3	N	N	5.3	N	N
Total liftable axles and number of braking axles:									
None	118.7	49.5	139.6	2 974.9	1 389.3	114.1	25.1	28.1	-10.6
1	8.2	5.9	38.1	140.2	119.1	17.6	17.2	20.2	-14.8
0 braking	1.1	N	N	10.8	N	N	9.5	N	N
1 braking	6.7	N	N	126.0	N	N	18.9	N	N
Not reported	.4	N	N	S	N	N	S	N	N
2 or more	1.6	.8	87.2	36.6	23.9	53.4	23.3	28.4	-18.0
0 braking	V	N	N	V	N	N	V	N	N
1 braking	S	N	N	S	N	N	S	N	N
2 or more braking	1.5	N	N	36.4	N	N	24.1	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	1.0	N	N	5.3	N	N	5.3	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	117.0	105.2	11.3	2 923.3	2 911.8	.4	25.0	27.7	-9.8
With sleeper	16.5	N	N	1 452.5	N	N	88.2	N	N
Without sleeper	99.4	N	N	1 390.5	N	N	14.0	N	N
Not reported	1.2	N	N	80.3	N	N	69.8	N	N
Cab over engine	10.6	14.1	-24.6	206.7	343.2	-39.8	19.5	24.4	-20.1
With sleeper	1.9	N	N	79.3	N	N	41.8	N	N
Without sleeper	8.5	N	N	109.3	N	N	12.9	N	N
Not reported .....	.2	N	N	S	N	N	S	N	N
Cab forward of engine	1.2	1.9	-40.4	20.7	24.7	-16.2	18.0	12.8	40.5
Cab beside engine .....	.5	1.0	-52.6	S	S	S	S	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 .....	.8	3.4	3.2	2.8	3.8	4.3	2.8	3.6	4.4
BUSINESS									
For-hire transportation or warehousing	5.5	6.0	8.9	5.8	6.7	8.5	4.2	3.3	4.7
Vehicle leasing or rental	15.9	25.6	20.3	17.1	24.9	23.0	11.6	16.2	22.5
Agriculture, forestry, fishing, or hunting	4.6	8.0	6.9	10.6	13.0	12.0	10.0	8.5	12.6
Mining	24.0	28.4	79.1	34.4	38.5	169.1	29.1	26.0	60.0
Utilities	17.8	S	S	23.7	49.7	34.5	16.2	S	S
Construction	5.4	6.0	8.4	7.3	7.7	9.1	5.4	5.7	6.4
Manufacturing	11.6	16.1	25.8	13.9	18.7	21.8	10.3	13.7	12.4
Wholesale trade	13.1	12.3	14.8	17.4	13.8	12.7	13.4	10.4	11.7
Retail trade	11.0	10.0	10.1	13.2	15.1	13.4	8.7	12.0	14.6
Information services	45.7	N	N	49.2	N	N	30.7	N	N
Waste management, landscaping, or administrative/support services	10.5	N	N	14.0	N	N	10.7	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	23.1	N	N	26.6	N	N	18.5	N	N
Other services	21.7	N	N	29.2	N	N	20.7	N	N
Personal transportation	20.9	17.2	16.7	33.4	30.0	42.3	24.7	22.9	51.5
Not reported	15.3	N	N	21.8	N	N	19.2	N	N
Not applicable ¹	15.5	40.6	32.4	46.1	S	S	42.8	S	S
BODY TYPE									
Single-unit trucks	1.3	4.4	4.1	3.9	6.6	6.1	3.6	5.1	5.5
Armored	S	N	N	S	N	N	S	N	N
Beverage	37.5	46.5	75.9	44.1	S	S	23.2	S	S
Concrete mixer	18.3	21.2	28.3	20.5	26.5	33.8	9.2	13.4	16.3
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	49.4	28.8	10.6	S	39.1	S	S	29.1	S
Curtainside	N	N	N	N	N	N	N	N	N
Dump	6.1	9.0	20.2	9.9	13.3	19.0	8.4	11.3	8.7
Flatbed, stake, or platform	6.9	13.4	8.5	10.6	19.2	12.4	8.4	11.9	14.5
Low boy	S	37.6	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe	S	46.8	S	S	S	S	S	S	S
Service, utility	22.6	25.7	34.4	29.5	31.4	44.3	18.6	19.7	27.7
Service, other	17.3	22.4	37.5	20.0	26.2	61.6	9.8	13.1	23.1
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	19.0	24.4	50.4	33.6	32.3	19.0	29.6	27.0	10.1
Tank, liquids or gases	15.0	13.1	12.5	20.5	18.1	13.7	15.4	14.3	16.8
Tow/Wrecker	19.0	24.1	36.5	26.3	36.6	83.3	17.7	28.2	51.6
Trash, garbage, or recycling	14.9	20.5	33.9	17.7	22.2	35.5	10.8	13.4	16.1
Vacuum	39.5	N	N	44.7	N	N	29.8	N	N
Van, basic enclosed	9.7	15.4	24.3	13.4	21.7	21.8	9.4	12.9	10.2
Van, insulated nonrefrigerated	43.2	49.5	174.7	S	S	S	S	S	S
Van, insulated refrigerated	24.1	30.6	52.5	26.7	34.1	58.0	13.1	16.9	21.2
Van, open top	9.4	7.9	7.2	15.6	17.1	8.5	13.1	15.3	12.6
Van, step, walk-in, or multistop	12.4	14.1	13.6	16.2	16.6	12.3	10.1	8.4	9.6
Van, other	27.2	N	N	32.0	N	N	15.2	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	2.6	3.5	4.5	4.0	4.8	6.0	3.3	3.2	4.3
Automobile carrier	44.3	S	S	S	S	S	S	S	S
Beverage	42.7	34.8	57.5	44.0	44.8	22.6	27.6	28.2	13.6
Curtainside	49.4	N	N	S	N	N	S	N	N
Dump	10.9	15.3	42.1	16.0	16.7	32.4	11.7	6.6	8.4
Flatbed, stake, or platform	10.5	13.5	28.0	12.7	17.7	41.0	7.9	10.0	14.6
Livestock	35.0	31.4	31.5	40.8	32.6	44.2	21.0	25.6	41.9
Low boy	20.0	17.2	14.9	30.6	29.6	25.9	23.1	22.4	34.6
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	14.3	10.3	9.8	21.1	14.5	14.7	15.5	11.4	19.9
Pole, logging, pulpwood, or pipe	29.6	23.8	29.0	33.4	26.8	32.4	15.3	12.3	19.5
Tank, dry bulk	27.3	S	S	35.5	S	S	22.7	S	S
Tank, liquids or gases	17.9	16.8	25.9	21.3	18.9	27.6	11.6	8.8	13.4
Van, basic enclosed	7.0	8.4	10.4	8.2	10.0	12.0	4.6	4.9	6.5
Van, drop-frame	37.4	27.3	29.1	41.3	30.9	22.5	17.6	14.6	15.8
Van, insulated nonrefrigerated	35.0	49.4	140.3	39.9	S	S	18.9	S	S
Van, insulated refrigerated	12.6	12.4	14.0	13.6	12.9	15.2	6.8	6.4	9.5
Other	S	N	N	S	N	N	S	N	N
Not applicable ²	26.8	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	3.9	4.5	6.0	5.2	5.7	7.6	3.6	3.7	5.0
5,000 to 9,999	7.5	13.7	13.2	7.8	16.9	15.2	1.8	4.1	4.3
10,000 to 19,999	6.1	13.8	13.9	6.2	16.3	15.2	1.5	3.5	3.6
20,000 to 29,999	8.0	9.3	13.0	8.1	9.3	13.1	.9	1.2	1.5
30,000 to 49,999	8.7	9.9	10.0	8.8	9.5	10.0	1.4	1.6	2.1
50,000 to 74,999	9.7	11.0	12.6	9.7	11.6	13.0	1.3	1.9	2.3
75,000 or more	5.3	6.3	7.5	5.5	6.4	7.8	1.7	1.6	2.3
Not applicable ¹	15.5	43.7	37.5	46.1	N	N	42.8	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	16.1	12.0	10.1	49.2	26.0	44.2	47.9	24.4	84.4
50 miles or less	2.1	3.6	4.2	4.3	5.5	6.8	3.8	4.4	5.6
51 to 100 miles	7.4	13.6	12.4	8.8	10.5	11.5	6.2	8.7	11.1
101 to 200 miles	11.6	26.0	17.8	13.8	15.4	15.9	9.6	14.5	21.4
201 to 500 miles	12.4	13.8	9.0	13.8	11.7	8.8	9.0	9.0	12.9
501 miles or more	7.5	8.8	10.4	8.0	9.1	11.1	3.5	3.7	5.2
Not reported	11.0	43.7	63.4	13.9	N	N	11.2	N	N
Not applicable	15.5	N	N	46.1	N	N	42.8	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	1.4	N	N	3.6	N	N	3.3	N	N
Operated in states other than the home base state	6.6	N	N	7.0	N	N	4.1	N	N
Not reported	10.9	N	N	13.7	N	N	11.3	N	N
Not applicable ¹	15.5	N	N	46.1	N	N	42.8	N	N
MONTHS OPERATED									
12	3.2	N	N	4.2	N	N	3.5	N	N
7 to 11	4.9	N	N	7.1	N	N	6.0	N	N
2 to 6	4.6	N	N	9.7	N	N	8.9	N	N
1 or less	10.4	N	N	32.9	N	N	31.8	N	N
Vehicle not used	15.5	N	N	46.1	N	N	42.8	N	N
VEHICLE SIZE									
Light	9.3	13.5	10.1	13.1	15.8	12.0	9.2	16.9	18.1
Medium	5.6	11.9	11.9	8.1	17.2	16.2	5.8	8.9	10.0
Light-heavy	6.1	7.7	10.2	11.0	15.8	11.6	9.1	12.3	8.9
Heavy-heavy	2.0	4.0	4.4	3.4	4.1	5.1	3.4	4.3	5.3
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	24.8	43.9	19.1	33.2	48.8	23.8	22.1	60.9	69.1
6,001 to 8,500	19.1	N	N	28.2	N	N	20.2	N	N
8,501 to 10,000	12.7	N	N	17.0	N	N	11.3	N	N
10,001 to 14,000	8.6	11.0	14.5	11.7	15.9	23.5	7.8	10.9	15.3
14,001 to 16,000	12.2	14.9	20.5	16.4	28.1	27.5	10.8	23.3	20.4
16,001 to 19,500	13.5	32.4	21.6	19.8	41.1	22.5	14.5	12.2	15.2
19,501 to 26,000	6.1	7.7	10.2	11.0	15.8	11.6	9.1	12.3	8.9
26,001 to 33,000	9.3	10.9	14.8	16.7	15.2	27.6	14.5	12.1	22.5
33,001 to 40,000	10.7	11.4	15.8	16.1	17.2	39.6	13.7	13.8	32.4
40,001 to 50,000	7.4	13.7	10.3	14.7	12.8	13.7	13.0	11.6	18.6
50,001 to 60,000	7.1	8.6	14.4	11.4	13.0	14.8	9.2	10.4	9.2
60,001 to 80,000	3.4	4.1	5.8	4.9	5.7	7.2	3.6	3.4	4.4
80,001 to 100,000	20.9	29.7	84.4	27.7	38.6	75.7	18.1	24.7	21.0
100,001 to 130,000	N	S	S	N	S	S	N	S	S
130,001 or more	S	N	S	S	N	S	S	N	S
TOTAL LENGTH (FEET)									
Less than 20.0	6.3	13.0	10.2	9.6	16.2	14.6	7.2	10.8	14.3
20.0 to 27.9	3.7	4.5	5.8	6.8	10.1	10.2	5.8	8.5	8.6
28.0 to 35.9	6.6	7.5	9.7	10.2	11.8	11.6	7.7	8.3	8.6
36.0 to 40.9	11.3	37.0	43.9	15.1	37.4	55.7	12.2	9.6	19.0
41.0 to 44.9	20.0	23.0	37.5	27.9	35.2	56.6	23.1	21.6	32.3
45.0 to 49.9	17.1	20.4	30.2	22.3	28.4	43.9	15.7	21.1	28.2
50.0 to 54.9	13.2	12.8	16.5	18.7	16.9	22.9	14.3	13.7	20.0
55.0 to 59.9	10.4	8.5	9.3	13.9	10.7	10.7	9.5	6.9	10.3
60.0 to 64.9	7.8	8.0	11.5	9.8	9.9	11.6	6.2	5.5	6.7
65.0 to 69.9	8.4	9.5	12.9	10.3	10.7	13.4	6.0	4.5	6.7
70.0 to 74.9	9.9	14.2	21.8	10.9	15.9	24.7	4.7	7.0	8.5
75.0 to 79.9	25.4	N	N	27.7	N	N	10.6	N	N
80.0 or more	S	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	6.9	7.5	10.5	11.2	12.1	13.1	9.8	10.0	10.8
5 to 6.9	3.2	3.8	4.5	4.4	5.0	6.4	4.1	4.3	6.2
7 to 8.9	6.2	10.3	10.1	10.5	12.8	12.0	8.9	8.0	10.3
9 to 10.9	7.4	8.7	12.7	10.7	14.3	17.6	7.8	11.1	12.1
11 to 12.9	12.1	25.8	22.9	16.4	23.4	26.3	11.0	11.4	18.1
13 to 14.9	24.9	30.0	46.2	28.8	38.0	24.7	15.0	20.2	11.0
15 or more	17.9	44.6	32.5	24.7	S	S	16.8	S	S
15 to 20.9	17.9	44.6	32.5	24.7	S	S	16.8	S	S
21 to 24.9	N	N	N	N	N	N	N	N	N
25 or more	N	N	N	N	N	N	N	N	N
Not reported	8.5	15.1	12.4	12.4	19.9	21.9	10.3	21.4	30.8
Not applicable ¹	15.5	N	N	46.1	N	N	42.8	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	S	N	N	S	N	N	S	N	N
2002	18.6	N	N	22.0	N	N	17.0	N	N
2001	13.5	N	N	16.0	N	N	12.1	N	N
2000	8.7	N	N	9.7	N	N	7.4	N	N
1999	10.2	N	N	11.5	N	N	8.5	N	N
1998	12.5	S	S	13.8	S	S	9.8	S	S
1997	12.1	14.5	28.4	14.4	14.6	18.7	10.6	10.4	9.0
1996	11.7	12.9	15.8	13.9	13.9	10.2	10.4	8.4	7.7
1995	10.3	25.9	22.7	12.9	14.4	12.9	9.7	19.8	18.1
1994	12.1	13.0	16.4	15.5	12.8	10.0	12.0	10.0	8.4
1993	12.8	14.6	18.1	15.7	17.7	10.7	12.2	10.8	7.9
Pre-1993	2.7	4.0	3.0	6.2	5.5	2.5	5.7	4.6	3.6
VEHICLE ACQUISITION									
New	3.6	6.7	8.4	4.7	5.9	8.2	3.9	5.8	6.9
Used	2.3	5.1	5.2	5.0	7.1	8.2	4.7	5.9	7.6
Not reported	15.3	10.0	5.6	20.1	11.6	5.1	16.7	8.6	13.7
LEASE CHARACTERISTICS									
Leased	7.4	N	N	8.4	N	N	6.2	N	N
Lessee	10.3	N	N	11.9	N	N	8.9	N	N
Vehicle only	10.5	N	N	12.1	N	N	9.0	N	N
Vehicle with driver	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	N
Lessor	11.3	N	N	12.7	N	N	8.3	N	N
Vehicle only	12.9	N	N	14.5	N	N	9.5	N	N
Vehicle with driver	24.6	N	N	26.2	N	N	9.1	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	2.3	N	N	4.3	N	N	4.0	N	N
Not reported	4.3	N	N	7.7	N	N	6.8	N	N
Length of leasing agreement:									
Leased	7.4	N	N	8.4	N	N	6.2	N	N
1 to 11 months	28.0	N	N	32.5	N	N	23.8	N	N
12 months or more	7.9	N	N	8.8	N	N	6.3	N	N
Not reported	43.0	N	N	S	N	N	S	N	N
Provisions of lease:									
Financing only	9.8	N	N	11.0	N	N	7.7	N	N
Full maintenance	14.5	N	N	16.1	N	N	11.4	N	N
Payment of taxes	14.9	N	N	16.6	N	N	11.5	N	N
Obtaining licenses and permits	13.7	N	N	15.5	N	N	11.2	N	N
Recordkeeping	18.3	N	N	20.0	N	N	15.0	N	N
Fuel contract	24.0	N	N	25.3	N	N	18.2	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	1.8	N	N	4.3	N	N	3.9	N	N
Motor carrier	6.4	N	N	7.2	N	N	5.2	N	N
Owner operator	7.5	N	N	8.4	N	N	6.3	N	N
Rental	15.4	N	N	16.5	N	N	10.9	N	N
Personal transportation	20.9	N	N	33.4	N	N	24.7	N	N
Not applicable ¹	15.5	N	N	46.1	N	N	42.8	N	N
For-hire characteristics:									
Type of carrier:									
Contract	7.4	N	N	8.0	N	N	4.9	N	N
Common	7.0	N	N	8.0	N	N	5.9	N	N
Not reported	18.0	N	N	26.8	N	N	21.7	N	N
Not applicable ³	1.5	N	N	4.0	N	N	3.7	N	N
Type of service:									
Truckload	5.3	6.8	12.1	5.7	7.5	11.5	4.0	3.5	4.6
Less-than truckload	12.2	14.6	25.2	14.5	17.0	18.6	10.5	8.6	8.5
Not reported	18.0	N	N	26.6	N	N	21.5	N	N
Not applicable ³	1.5	N	N	4.0	N	N	3.7	N	N
Source of hauls:									
Shippers or receivers	5.7	N	N	6.2	N	N	4.3	N	N
Brokers	15.4	N	N	16.4	N	N	9.0	N	N
Centralized markets or exchanges	31.1	N	N	38.3	N	N	27.2	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	12.0	N	N	16.1	N	N	12.9	N	N
Not applicable ³	1.5	N	N	4.0	N	N	3.7	N	N
HAZARDOUS MATERIALS CARRIED⁴									
Carrying hazardous materials	11.3	10.5	11.8	12.8	13.1	11.7	9.7	9.1	11.1
Not carrying hazardous materials	1.6	1.9	2.4	3.5	4.0	4.8	3.4	3.5	4.5
Not reported	9.5	10.2	9.6	13.5	17.9	23.8	11.5	14.3	28.3
Not applicable ⁵	9.5	N	N	15.0	N	N	13.1	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE									
Aerial work platform/bucket	22.9	N	N	29.8	N	N	21.1	N	N
Air bag(s) (safety device only)	9.8	8.4	11.1	12.0	9.4	6.3	9.3	6.3	5.5
Air compressor (except air brakes)	9.6	N	N	12.4	N	N	9.8	N	N
Air-conditioning	2.7	4.1	6.7	3.5	4.7	6.2	3.2	3.5	3.7
Air springs	4.4	N	N	6.0	N	N	4.3	N	N
Antilock brake system	4.7	9.4	28.1	5.3	10.6	28.1	4.2	7.8	7.8
Collision warning system	S	N	N	S	N	N	S	N	N
Computerized drive train control unit	16.6	N	N	19.0	N	N	14.6	N	N
Crane	19.2	N	N	22.9	N	N	15.1	N	N
Electronic vehicle identification device	23.2	21.7	25.7	25.7	21.9	25.8	15.4	8.8	16.8
Engine retarder/brake	3.7	5.4	8.1	5.1	6.5	8.6	3.8	3.5	4.4
Front-wheel drive	N	N	N	N	N	N	N	N	N
Hoist	4.5	N	N	8.7	N	N	7.7	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	14.1	N	N	16.9	N	N	11.5	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	12.1	N	N	15.7	N	N	10.2	N	N
Mounting bar for snowplow	21.5	N	N	33.8	N	N	26.0	N	N
Navigational system	44.3	21.1	7.0	49.4	22.7	7.1	20.9	7.3	20.4
Power take-off	3.6	N	N	6.2	N	N	5.5	N	N
Radial tires	2.3	4.3	4.3	3.5	4.3	4.7	3.3	3.6	4.7
Reflective material in addition to those required by law	6.4	5.6	5.5	8.5	7.2	6.0	7.0	5.8	7.6
Road speed governor	4.5	5.2	6.1	5.6	6.1	7.7	4.7	4.7	6.9
Toolbox	5.2	N	N	7.3	N	N	6.2	N	N
Trip recorder or on-board computer with communication capabilities	14.8	N	N	16.6	N	N	11.6	N	N
Trip recorder or on-board computer without communication capabilities	11.5	N	N	12.3	N	N	8.0	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	13.7	N	N	19.2	N	N	14.5	N	N
Transmission type:									
Automatic	5.1	N	N	7.1	N	N	5.1	N	N
Manual	1.8	N	N	3.5	N	N	3.5	N	N
Semiautomated manual	43.3	N	N	S	N	N	S	N	N
Automated manual	29.8	N	N	34.6	N	N	17.7	N	N
Not reported	12.9	N	N	16.2	N	N	12.9	N	N
Braking system:									
Hydraulic (standard)	4.5	5.9	8.0	8.0	12.4	14.0	6.6	10.2	10.7
Hydraulic with power assist	5.7	6.3	8.1	9.3	10.7	12.3	7.3	8.2	10.0
Air	2.1	2.7	3.6	3.6	4.2	5.1	3.5	3.4	4.3
Other	N	28.1	N	N	43.4	N	N	33.4	N
Not reported	12.9	N	N	16.0	N	N	12.4	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	3.9	7.3	5.9	7.5	14.5	8.6	6.3	10.6	9.2
Diesel	2.0	3.9	4.8	3.1	4.0	4.9	3.0	3.8	4.2
Natural gas	N	N	N	N	N	N	N	N	N
Propane	44.4	N	N	S	N	N	S	N	N
Alcohol fuels	S	N	N	S	N	N	S	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ¹	15.5	N	N	46.1	N	N	42.8	N	N
Cylinders ⁶ :									
4 cylinders	19.2	23.7	39.0	24.5	25.3	40.0	17.2	15.9	20.8
6 cylinders	2.4	5.1	6.1	3.3	4.4	5.4	3.2	5.1	5.4
8 cylinders	3.7	8.5	9.4	6.3	11.3	10.9	5.2	6.9	7.2
Other	5.7	7.0	5.4	12.6	16.3	6.8	11.6	11.7	9.1
Cubic inch displacement ⁶ :									
Gasoline fuel									
Less than 200	N	S	S	N	S	S	N	S	S
200 to 299	S	46.5	S	S	S	S	S	S	S
300 to 349	29.8	43.9	98.5	40.9	S	S	28.0	S	S
350 to 399	8.1	16.3	17.9	11.5	22.2	16.5	8.3	12.2	9.9
400 or more	11.4	14.3	17.2	15.4	21.6	16.3	9.8	13.0	10.7
Not available	7.5	11.0	6.8	13.9	37.3	9.8	11.7	31.6	16.3
Diesel fuel									
Less than 400	2.0	3.9	4.8	3.1	4.0	4.9	3.0	3.8	4.2
400 to 599	11.0	26.3	26.5	13.8	24.7	22.0	8.3	20.4	18.4
600 to 799	5.9	8.3	14.8	7.9	10.1	14.2	5.2	5.5	5.8
800 or more	4.1	6.2	10.8	6.0	8.2	14.2	4.7	5.7	7.1
Not available	5.1	5.1	6.4	7.2	6.8	6.9	5.2	4.0	5.1
Other fuel	7.9	7.1	7.9	13.7	12.9	16.7	12.2	11.0	19.6
Less than 400	29.6	26.7	25.0	46.1	41.6	30.5	33.5	31.1	35.7
400 or more	S	35.0	S	S	48.9	S	S	34.1	S
Not available	47.6	45.6	44.2	S	S	S	S	S	S
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ¹	15.5	N	N	46.1	N	N	42.8	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	2.8	N	N	5.6	N	N	4.9	N	N
Truck stop	4.5	N	N	5.4	N	N	4.3	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	4.2	N	N	7.0	N	N	6.1	N	N
Other company's/contractor's facility not open to the public	21.1	N	N	24.6	N	N	16.3	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	22.0	N	N	32.5	N	N	25.5	N	N
Not applicable ¹	15.5	N	N	46.1	N	N	42.8	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	21.3	S	S	38.2	S	S	31.6	S	S
Company-owned maintenance facility	3.5	4.5	6.2	4.9	5.4	6.9	4.2	4.4	5.4
General repair business or private mechanic	4.1	5.5	9.0	6.1	8.3	13.4	5.3	7.0	8.7
Dealership service department	7.0	7.9	10.8	8.4	10.3	13.9	6.5	8.0	10.6
Leasing company	23.7	33.2	33.0	25.7	29.1	40.0	16.5	21.1	34.1
Individual not employed/paid by any maintenance type facility:									
Other	4.2	6.6	4.7	8.1	7.5	5.4	7.5	5.8	7.8
Not reported	N	40.0	N	N	41.5	N	N	37.2	N
Not applicable ¹	23.6	14.1	6.3	34.0	34.9	15.2	26.7	29.2	54.1
Extensive repairs performed by:									
None performed	1.7	38.8	671.9	3.7	22.9	572.1	3.5	42.0	60.3
Company-owned maintenance facility	10.4	13.6	6.2	14.2	12.0	8.6	11.5	8.0	17.7
General repair business or private mechanic	9.7	11.1	4.3	13.0	11.1	8.1	10.7	8.8	22.7
Dealership service department	11.7	6.2	3.5	13.6	7.0	4.5	10.5	5.4	13.0
Leasing company	S	28.7	S	S	32.5	S	S	21.5	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	29.8	14.6	3.5	39.1	15.9	5.5	24.9	10.9	33.1
Other	15.7	18.7	6.9	22.9	22.9	13.4	20.1	15.4	36.9
Not reported	N	40.3	N	N	49.3	N	N	28.5	N
Not applicable ¹	N	4.1	N	N	7.7	N	N	6.6	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	1.6	4.3	4.3	4.0	6.5	6.2	3.6	5.4	5.7
3 axles	2.0	5.8	5.7	4.9	8.5	7.6	4.4	7.0	7.0
4 axles	5.6	6.1	7.2	10.0	9.2	11.4	8.4	8.0	11.1
5 axles or more	10.9	11.0	14.3	15.8	14.1	15.2	11.5	10.1	11.9
Not reported	19.1	N	N	22.7	N	N	12.1	N	N
Combinations:									
Single-unit trucks with trailer:	2.9	6.0	6.3	3.9	4.9	5.9	3.5	4.8	5.9
3 axles	12.5	25.6	19.9	19.2	28.8	23.0	15.3	9.4	17.1
4 axles	34.1	42.7	79.1	S	49.6	S	S	22.6	S
5 axles or more	19.0	39.1	24.7	27.1	48.8	20.6	19.2	14.3	15.6
Not reported	17.9	18.0	20.0	23.7	21.9	26.1	16.1	16.6	23.6
Truck-tractors with single trailer:	N	N	N	N	N	N	N	N	N
3 axles	2.7	3.5	4.4	4.0	4.9	6.0	3.2	3.3	4.4
4 axles	33.5	27.1	25.4	42.0	40.5	20.8	26.9	31.8	25.3
5 axles or more	16.4	16.9	20.2	22.7	23.3	16.7	16.7	16.0	13.8
Not reported	2.9	3.7	4.8	4.2	5.1	6.6	3.2	3.2	4.3
Truck-tractors with double trailers:	S	N	N	S	N	N	S	N	N
5 axles	44.2	S	S	S	S	S	S	S	S
6 axles	S	S	S	S	S	S	S	S	S
7 axles	S	S	S	S	S	S	S	S	S
8 axles or more	N	N	N	N	N	N	N	N	N
Not reported	N	S	S	N	S	N	S	S	S
Truck-tractors with triple trailers:	N	N	N	N	N	N	N	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	1.9	4.9	4.5	4.9	7.7	6.0	4.5	6.1	5.8
2	2.0	4.8	5.5	3.6	4.5	6.0	3.4	4.8	5.9
3 or more	25.3	26.8	24.4	30.7	43.2	10.3	17.4	29.4	10.0
Not reported	42.8	N	N	S	N	S	S	N	S
Total liftable axles and locations:									
None	1.1	3.9	9.7	3.0	6.0	14.4	2.9	5.2	5.3
1	9.3	11.5	20.5	13.1	14.0	22.6	10.3	11.2	12.9
Forward of the drive axle	12.5	N	N	17.0	N	N	12.7	N	N
Below the chassis	18.6	N	N	26.6	N	N	23.0	N	N
Beyond the chassis	47.4	N	N	S	N	N	S	N	N
Not reported	27.9	N	N	34.8	N	N	24.7	N	N
2 or more	18.8	30.4	66.9	22.1	34.2	62.4	11.6	17.9	17.5
Forward of the drive axle	18.8	N	N	22.1	N	N	11.6	N	N
Below the chassis	34.9	N	N	40.3	N	N	20.2	N	N
Beyond the chassis	25.3	N	N	27.5	N	N	10.9	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	25.5	N	N	41.1	N	N	34.4	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	3.9	9.7	3.0	6.0	14.4	2.9	5.2	5.3
1	9.3	11.5	20.5	13.1	14.0	22.6	10.3	11.2	12.9
0 braking	27.4	N	N	37.8	N	N	31.2	N	N
1 braking	10.4	N	N	14.2	N	N	10.8	N	N
Not reported	40.4	N	N	S	N	N	S	N	N
2 or more	18.8	30.4	66.9	22.1	34.2	62.4	11.6	17.9	17.5
0 braking	N	N	N	N	N	N	N	N	N
1 braking	S	N	N	S	N	N	S	N	N
2 or more braking	19.1	N	N	22.2	N	N	11.3	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	25.5	N	N	41.1	N	N	34.4	N	N
CAB TYPE									
Conventional cab	1.1	2.2	2.7	3.0	4.1	5.1	2.9	3.5	4.1
With sleeper	4.9	N	N	5.7	N	N	3.1	N	N
Without sleeper	1.5	N	N	4.0	N	N	3.6	N	N
Not reported	22.3	N	N	26.2	N	N	13.6	N	N
Cab over engine	8.2	8.0	8.6	13.4	12.2	10.9	11.8	9.9	12.3
With sleeper	17.3	N	N	27.5	N	N	21.3	N	N
Without sleeper	9.5	N	N	13.4	N	N	11.2	N	N
Not reported	49.5	N	N	S	N	N	S	N	N
Cab forward of engine	29.3	24.8	22.9	40.4	33.7	44.0	25.8	21.0	46.8
Cab beside engine	49.7	35.2	28.9	S	S	S	S	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	1 698.4	1 571.4	35.8	22.9	68.4	X
Coefficient of variation (percent) .....	.8	.9	15.8	6.1	2.0	X
BUSINESS¹						
For-hire transportation or warehousing	23.0	S	2.2	1.7	15.3	14.6
Vehicle leasing or rental	9.6	S	1.0	.5	1.7	46.8
Agriculture, forestry, fishing, or hunting	79.7	49.3	3.4	7.0	19.9	15.2
Mining	1.3	V	S	S	1.1	24.0
Utilities	3.3	S	1.2	S	1.7	17.8
Construction	136.9	111.5	9.5	4.8	11.1	13.1
Manufacturing	12.6	S	1.3	.7	3.4	35.9
Wholesale trade	8.5	S	1.0	.9	3.1	38.0
Retail trade	20.9	13.9	2.8	2.1	2.0	30.4
Information services	S	S	S	V	S	S
Waste management, landscaping, or administrative/support services	11.6	S	2.2	2.0	4.2	28.3
Arts, entertainment, or recreation services	S	V	S	S	S	S
Accommodation or food services	S	S	.4	S	.7	S
Other services	34.0	32.8	S	S	.5	29.1
Personal transportation	1 289.4	1 281.4	S	S	S	2.2
Not reported	13.3	S	1.1	.6	1.9	41.1
Not applicable ²	36.0	32.3	.8	1.5	1.4	27.5
BODY TYPE						
Single-unit trucks	1 664.3	1 571.4	35.8	22.3	34.9	.8
Pickup	732.6	723.1	S	V	V	1.5
Minivan	260.5	260.5	V	V	V	9.2
Other light vans	82.4	82.4	V	V	V	18.5
Sport utility	493.6	493.6	V	V	V	5.3
Armored	S	V	S	V	V	S
Beverage .....	.9	V	S	.5	S	37.5
Concrete mixer	1.6	V	V	V	1.6	18.3
Concrete pumper	S	V	V	V	S	S
Crane .....	.2	V	V	S	S	49.4
Curtainside	V	V	V	V	V	N
Dump	20.7	1.0	3.1	5.3	11.3	6.1
Flatbed, stake, or platform	19.0	2.5	7.0	4.4	5.0	6.9
Low boy	S	V	V	S	S	S
Pole, logging, pulpwood, or pipe	S	V	V	S	S	S
Service, utility	2.2	S	1.5	S	S	22.6
Service, other	3.8	1.4	2.0	S	V	17.3
Street sweeper	S	V	S	V	V	S
Tank, dry bulk	2.5	V	S	.6	1.5	19.0
Tank, liquids or gases	4.4	S	S	1.5	2.5	15.0
Tow/Wrecker	3.0	.6	1.9	S	.4	19.0
Trash, garbage, or recycling	3.6	V	S	S	3.0	14.9
Vacuum .....	.5	V	S	S	.2	39.5
Van, basic enclosed	10.7	1.8	4.2	3.1	1.5	9.7
Van, insulated nonrefrigerated .....	.5	V	S	S	S	43.2
Van, insulated refrigerated	1.9	V	.6	.9	.4	24.1
Van, open top	9.8	S	S	3.1	6.2	9.4
Van, step, walk-in, or multistop	7.1	3.4	3.0	.6	S	12.4
Van, other	1.5	S	.8	S	V	27.2
Other	S	V	V	S	S	S
Truck-tractors	34.2	V	V	.6	33.6	2.6
Automobile carrier .....	.3	V	V	V	.3	44.3
Beverage .....	.4	V	V	V	.4	42.7
Curtainside .....	.2	V	V	V	.2	49.4
Dump	4.6	V	V	V	4.6	10.9
Flatbed, stake, or platform	5.1	V	V	V	5.1	10.5
Livestock .....	.5	V	V	V	.5	35.0
Low boy	1.4	V	V	V	1.4	20.0
Mobile home toter	S	V	V	V	S	S
Open top	2.7	V	V	V	2.7	14.3
Pole, logging, pulpwood, or pipe .....	.7	V	V	V	.7	29.6
Tank, dry bulk .....	.8	V	V	V	.8	27.3
Tank, liquids or gases	1.8	V	V	V	1.8	17.9
Van, basic enclosed	9.8	V	V	S	9.7	7.0
Van, drop-frame .....	.4	V	V	V	.4	37.4
Van, insulated nonrefrigerated .....	.5	V	V	V	.5	35.0
Van, insulated refrigerated	3.7	V	V	V	3.7	12.6
Other	S	V	V	V	S	S
Not applicable ³	1.0	V	V	.5	.5	26.8
ANNUAL MILES						
Less than 5,000	232.8	188.4	13.8	11.1	19.5	9.8
5,000 to 9,999	371.9	358.5	3.7	2.8	6.9	8.0
10,000 to 19,999	737.9	718.3	7.5	4.0	8.2	4.8
20,000 to 29,999	206.7	194.5	4.4	2.7	5.1	11.2
30,000 to 49,999	76.3	63.4	S	.6	6.9	18.6
50,000 to 74,999	22.1	15.9	S	S	5.8	31.9
75,000 or more	14.8	V	V	V	14.8	5.3
Not applicable ²	36.0	32.3	.8	1.5	1.4	27.5
PRIMARY RANGE OF OPERATION						
Off-the-road	19.3	13.0	S	1.1	1.5	36.6
50 miles or less	1 267.8	1 192.7	22.5	15.3	37.3	2.5
51 to 100 miles	162.8	146.0	S	2.3	8.3	12.7
101 to 200 miles	33.8	28.5	.6	.6	4.2	27.8
201 to 500 miles	26.5	22.3	S	S	3.7	31.3
501 miles or more	46.9	38.1	S	S	8.7	23.1
Not reported	105.3	98.5	1.7	1.6	3.4	16.2
Not applicable ²	36.0	32.3	.8	1.5	1.4	27.5

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.....	1 532.5	1 427.9	33.1	19.3	52.1	1.5
Operated in states other than the home base state.....	31.3	19.4	S	.5	11.1	24.6
Not reported.....	98.6	91.7	1.5	1.6	3.8	16.8
Not applicable ²	36.0	32.3	.8	1.5	1.4	27.5
MONTHS OPERATED						
12.....	1 158.9	1 110.1	13.1	7.6	28.1	2.9
7 to 11.....	310.0	273.7	14.8	5.1	16.5	8.7
2 to 6.....	162.8	132.0	5.1	6.4	19.3	11.9
1 or less.....	30.8	23.2	2.0	2.3	3.2	27.1
Vehicle not used.....	36.0	32.3	.8	1.5	1.4	27.5
AVERAGE WEIGHT (POUNDS)						
Less than 6,001.....	1 147.3	1 147.3	N	N	N	2.8
6,001 to 8,500.....	347.8	347.8	N	N	N	8.4
8,501 to 10,000.....	76.3	76.3	N	N	N	18.8
10,001 to 14,000.....	22.8	N	22.8	N	N	24.4
14,001 to 16,000.....	7.1	N	7.1	N	N	12.2
16,001 to 19,500.....	5.8	N	5.8	N	N	13.5
19,501 to 26,000.....	22.9	N	N	22.9	N	6.1
26,001 to 33,000.....	11.0	N	N	N	11.0	9.3
33,001 to 40,000.....	7.1	N	N	N	7.1	10.7
40,001 to 50,000.....	11.2	N	N	N	11.2	7.4
50,001 to 60,000.....	10.9	N	N	N	10.9	7.1
60,001 to 80,000.....	27.0	N	N	N	27.0	3.4
80,001 to 100,000.....	1.3	N	N	N	1.3	20.9
100,001 to 130,000.....	V	N	N	N	V	N
130,001 or more.....	S	N	N	N	S	S
TOTAL LENGTH (FEET)						
Less than 20.0.....	1 359.9	1 340.7	11.1	5.1	3.1	2.0
20.0 to 27.9.....	238.7	198.1	12.3	11.5	16.8	9.7
28.0 to 35.9.....	41.3	22.4	4.1	4.3	10.5	20.3
36.0 to 40.9.....	22.7	S	S	1.4	3.6	31.1
41.0 to 44.9.....	2.2	V	.5	S	1.5	20.0
45.0 to 49.9.....	2.4	V	V	S	2.2	17.1
50.0 to 54.9.....	3.7	V	S	S	3.5	13.2
55.0 to 59.9.....	5.2	V	V	V	5.2	10.4
60.0 to 64.9.....	8.5	V	V	S	8.4	7.8
65.0 to 69.9.....	7.2	V	V	V	7.2	8.4
70.0 to 74.9.....	5.4	V	V	V	5.4	9.9
75.0 to 79.9.....	.9	V	V	V	.9	25.4
80.0 or more.....	S	V	V	V	S	S
MILES PER GALLON						
Less than 5.....	15.1	S	.6	2.5	11.6	6.9
5 to 6.9.....	47.1	.9	3.6	4.9	37.7	3.2
7 to 8.9.....	31.2	12.4	5.2	5.7	7.8	18.0
9 to 10.9.....	106.1	88.6	11.3	3.2	3.0	15.3
11 to 12.9.....	149.6	144.0	3.1	1.6	.8	13.4
13 to 14.9.....	235.6	231.1	S	S	S	10.7
15 or more.....	910.9	905.4	S	.8	V	3.8
15 to 20.9.....	760.1	754.6	V	.8	V	4.7
21 to 24.9.....	97.4	97.4	V	V	V	17.1
25 or more.....	53.5	53.5	V	V	V	23.8
Not reported.....	166.9	156.1	2.3	2.5	6.0	12.6
Not applicable ²	36.0	32.3	.8	1.5	1.4	27.5
MODEL YEAR						
2003.....	S	V	V	S	S	S
2002.....	112.7	110.2	.6	.6	1.3	15.9
2001.....	146.3	142.2	.9	.7	2.5	13.8
2000.....	158.9	148.6	3.0	.9	6.3	13.0
1999.....	134.6	127.2	1.8	1.2	4.3	14.3
1998.....	119.3	114.1	1.5	.6	3.1	15.3
1997.....	129.4	120.8	S	S	3.0	14.6
1996.....	97.1	91.6	1.5	S	3.8	17.0
1995.....	108.6	101.2	1.7	.9	4.8	15.9
1994.....	97.3	92.3	.8	.7	3.4	17.0
1993.....	103.5	98.5	1.9	.6	2.6	16.5
Pre-1993.....	490.4	424.5	16.9	15.9	33.1	6.4
VEHICLE ACQUISITION						
New.....	694.4	651.5	11.7	6.8	24.4	5.1
Used.....	924.6	843.9	23.3	15.6	41.9	3.9
Not reported.....	79.5	76.0	.8	.5	2.1	19.0
LEASE CHARACTERISTICS						
Leased.....	79.4	67.2	1.9	1.4	9.0	17.9
Lessee.....	64.3	57.7	1.1	.6	4.8	20.5
Vehicle only.....	7.3	1.0	1.1	.6	4.6	10.5
Vehicle with driver.....	V	V	V	V	V	N
Not reported.....	S	V	V	V	S	S
Not applicable ⁴	56.7	56.7	V	V	V	23.2
Lessor.....	11.7	S	.7	.8	3.9	38.3
Vehicle only.....	4.4	V	.7	.8	2.9	12.9
Vehicle with driver.....	1.0	V	V	V	1.0	24.6
Not reported.....	S	V	V	V	S	S
Not applicable ⁴	S	S	V	V	S	S
Not leased.....	S	S	S	V	S	S
Not reported.....	1 029.0	946.9	25.5	14.5	42.1	3.4
Not reported.....	590.0	557.3	8.3	7.0	17.4	5.8

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
LEASE CHARACTERISTICS—Con.						
Length of leasing agreement:						
Leased	79.4	67.2	1.9	1.4	9.0	17.9
1 to 11 months	1.0	V	S	S	.7	28.0
12 months or more	11.7	1.0	1.7	1.2	7.8	7.9
Not reported	.6	V	S	V	.5	43.0
Not applicable ⁴	66.2	66.2	V	V	V	21.4
Provisions of lease ⁵ :						
Financing only	7.9	.7	1.4	.6	5.1	9.8
Full maintenance	3.9	S	.6	.7	2.3	14.5
Payment of taxes	3.6	S	.6	S	2.3	14.9
Obtaining licenses and permits	4.2	S	.6	.6	2.7	13.7
Recordkeeping	2.6	S	S	.7	1.3	18.3
Fuel contract	1.4	S	V	S	.9	24.0
PRIMARY OPERATOR CLASSIFICATION						
Private	322.8	237.5	23.2	18.3	43.7	7.7
Motor carrier	22.1	S	1.8	1.4	12.2	20.6
Owner operator	18.1	S	1.0	1.1	9.1	25.1
Rental	9.8	S	1.1	S	1.9	45.6
Personal transportation	1 289.5	1 281.5	S	S	S	2.2
Not applicable ²	36.0	32.3	.8	1.5	1.4	27.5
For-hire characteristics:						
Type of carrier:						
Contract	11.0	S	.7	.6	9.5	7.4
Common	13.7	S	1.7	1.2	10.5	7.0
Not reported	3.0	.6	.5	.6	1.3	18.0
Not applicable ⁶	1 670.8	1 570.3	32.9	20.4	47.1	.8
Type of service:						
Truckload	19.0	S	1.7	S	16.8	5.3
Less-than truckload	5.7	S	.6	1.4	3.4	12.2
Not reported	3.0	.6	.5	.6	1.2	18.0
Not applicable ⁶	1 670.8	1 570.3	32.9	20.4	47.1	.8
Source of hauls:						
Shippers or receivers	18.2	S	1.8	1.4	14.8	5.7
Brokers	2.6	S	S	V	2.5	15.4
Centralized markets or exchanges	.7	V	V	S	.6	31.1
Other	V	V	V	V	V	N
Not reported	6.1	.7	1.0	1.0	3.4	12.0
Not applicable ⁶	1 670.8	1 570.3	32.9	20.4	47.1	.8
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	6.5	S	S	1.1	5.0	11.3
Not carrying hazardous materials	102.7	9.0	20.3	17.2	56.2	1.6
Not reported	10.0	1.4	2.3	2.5	3.8	9.5
Not applicable ⁸	1 579.2	1 560.8	12.9	2.1	3.4	.8
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	2.1	S	1.2	S	.4	22.9
Air bag(s) (safety device only)	993.1	982.0	7.3	.6	3.2	3.5
Air compressor (except air brakes)	8.1	.6	1.0	1.0	5.6	9.6
Air-conditioning	1 353.0	1 289.9	17.9	6.0	39.2	2.1
Air springs	20.7	V	S	.4	20.0	4.4
Antilock brake system	1 042.6	1 008.7	13.3	3.0	17.7	3.3
Collision warning system	S	V	V	V	S	S
Computerized drive train control unit	264.3	258.1	S	.5	1.7	9.8
Crane	2.6	S	.9	S	1.1	19.2
Electronic vehicle identification device	1.2	V	S	V	1.1	23.2
Engine retarder/brake	24.9	S	.9	.4	23.6	3.7
Front-wheel drive	984.8	978.5	S	V	V	3.5
Hoist	34.6	1.4	6.1	10.0	17.2	4.5
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	3.4	S	S	S	2.8	14.1
Internet access	S	V	V	V	S	S
Lift gate	6.9	.7	1.8	2.6	1.8	12.1
Mounting bar for snowplow	34.0	29.0	S	S	.7	29.1
Navigational system	.3	V	V	V	.3	44.3
Power take-off	46.8	1.2	5.8	10.0	29.8	3.6
Radial tires	1 168.4	1 089.6	22.3	8.6	48.0	2.9
Reflective material in addition to those required by law	18.7	.9	3.1	2.8	11.7	6.4
Road speed governor	29.5	1.0	2.2	3.0	23.2	4.5
Toolbox	129.1	101.1	10.3	4.1	13.5	13.1
Trip recorder or on-board computer with communication capabilities	75.8	72.4	S	S	2.8	19.5
Trip recorder or on-board computer without communication capabilities	361.3	353.3	S	S	4.2	8.2
Vehicle control aids for handicapped drivers	S	S	V	V	V	S
Wheelchair lift	S	S	V	V	V	S
Winch	5.3	.5	2.4	.7	1.7	13.7
Transmission type:						
Automatic	1 386.0	1 354.7	21.9	4.3	5.1	1.9
Manual	274.6	185.0	12.3	17.3	59.9	8.0
Semiautomated manual	S	S	V	S	.2	S
Automated manual	.7	V	V	S	.6	29.8
Not reported	33.6	28.5	1.5	1.0	2.6	27.9
Braking system:						
Hydraulic (standard)	34.8	6.6	13.8	9.0	5.4	4.5
Hydraulic with power assist	25.5	4.6	8.8	8.2	3.9	5.7
Air	63.8	S	1.8	4.9	56.7	2.1
Other	V	V	V	V	V	N
Not reported	5.3	S	1.8	.7	2.4	12.9
Not applicable ¹⁰	1 569.0	1 559.5	S	V	V	.8

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Vehicle size				Coefficient of variation of total (percent)	
	Total	Light	Medium	Light-heavy		Heavy-heavy
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	1 489.0	1 450.3	19.9	11.0	7.7	1.5
Diesel	143.7	60.0	14.9	9.6	59.1	9.3
Natural gas	S	S	V	V	V	S
Propane	.6	V	V	.5	S	44.4
Alcohol fuels	19.3	19.0	S	S	V	39.9
Electricity	V	V	V	V	V	N
Combination	S	S	V	S	V	S
Other	V	V	V	V	V	N
Not reported	S	S	V	V	V	S
Not applicable ²	36.0	32.3	.8	1.5	1.4	27.5
Cylinders ¹¹ :						
4 cylinders	134.0	132.7	1.2	S	V	14.6
6 cylinders	779.2	714.7	7.7	6.3	50.5	4.3
8 cylinders	754.7	715.8	22.8	9.7	6.2	4.5
Other	30.6	S	4.0	6.7	11.7	15.2
Cubic inch displacement ¹¹ :						
Gasoline fuel	1 489.0	1 450.3	19.9	11.0	7.7	1.5
Less than 200	283.2	283.2	V	V	V	9.5
200 to 299	572.8	569.2	S	V	V	5.6
300 to 349	314.0	313.1	.6	S	V	8.8
350 to 399	265.7	252.6	8.8	2.8	1.5	9.6
400 or more	30.4	24.5	2.6	2.2	1.1	27.4
Not available	22.8	S	4.3	5.8	5.0	20.2
Diesel fuel	143.7	60.0	14.9	9.6	59.1	9.3
Less than 400	33.8	27.2	3.9	1.8	.9	26.3
400 to 599	58.9	32.6	10.7	5.6	10.0	17.6
600 to 799	23.6	V	S	.7	22.8	4.1
800 or more	16.3	V	S	.2	16.0	5.1
Not available	11.0	S	S	1.4	9.4	7.9
Other fuel	26.6	25.4	S	.9	S	33.3
Less than 400	25.5	25.4	V	S	V	34.6
400 or more	.6	V	S	.5	V	44.4
Not available	.4	V	V	V	S	47.6
Not reported	S	S	V	V	V	S
Not applicable ²	36.0	32.3	.8	1.5	1.4	27.5
REFUELING LOCATION						
Gas station	1 522.0	1 467.4	21.7	12.9	19.9	1.4
Truck stop	37.7	S	S	1.5	21.0	17.0
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	67.3	29.7	6.9	6.7	24.0	14.8
Other company's/contractor's facility not open to the public	S	S	S	S	1.3	S
Other	V	V	V	V	V	N
Not reported	30.4	28.5	.9	S	.8	30.9
Not applicable ²	36.0	32.3	.8	1.5	1.4	27.5
MAINTENANCE⁵						
General maintenance performed by:						
None performed	30.6	28.7	.8	.5	.5	30.7
Company-owned maintenance facility	132.9	87.6	7.7	7.0	30.6	12.1
General repair business or private mechanic	652.1	613.7	12.7	6.5	19.2	5.3
Dealership service department	485.5	471.1	3.7	2.2	8.4	6.6
Leasing company	S	S	V	S	1.1	S
Individual not employed/paid by any maintenance type facility	695.2	655.0	10.9	8.2	21.1	5.0
Other	V	V	V	V	V	N
Not reported	27.1	25.3	1.1	S	.5	32.7
Not applicable ²	36.0	32.3	.8	1.5	1.4	27.5
Extensive repairs performed by:						
None performed	1 355.0	1 265.9	20.6	17.9	50.7	2.2
Company-owned maintenance facility	16.3	S	.9	.5	5.4	33.7
General repair business or private mechanic	97.1	86.2	S	.9	5.6	16.8
Dealership service department	100.8	95.1	1.4	.9	3.3	16.7
Leasing company	S	V	V	S	S	S
Component distributorship (engine, transmission, body, etc.)	S	S	V	V	.6	S
Individual not employed/paid by any repair type facility	76.2	66.6	S	.4	2.1	19.4
Other	V	V	V	V	V	N
Not reported	S	S	V	V	V	S
Not applicable ²	36.0	32.3	.8	1.5	1.4	27.5
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	1 605.4	1 523.8	27.8	21.6	32.2	1.1
2 axles	1 581.6	1 523.8	27.3	20.4	10.1	1.1
3 axles	17.4	V	.5	.9	16.0	5.6
4 axles	4.4	V	V	V	4.4	10.9
5 axles or more	1.5	V	V	V	1.5	19.1
Not reported	.4	S	V	S	S	47.2
Combinations	93.1	47.5	S	1.3	36.3	13.7
Single-unit trucks with trailer	59.9	47.5	S	1.3	3.2	21.2
3 axles	32.6	31.6	S	S	S	30.3
4 axles	25.4	15.9	S	.8	1.1	32.7
5 axles or more	2.0	V	S	S	1.8	17.9
Not reported	V	V	V	V	V	N
Truck-tractors with single trailer	32.8	V	V	S	32.8	2.7
3 axles	.8	V	V	V	.8	33.5
4 axles	2.5	V	V	S	2.4	16.4
5 axles or more	29.5	V	V	V	29.5	2.9
Not reported	S	V	V	V	S	S
Truck-tractors with double trailers	.3	V	V	V	.3	44.2
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	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
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	656.1	592.3	25.9	21.5	16.5	5.2
2	1 041.0	979.0	9.9	1.2	50.8	3.3
3 or more .....	.9	V	V	V	.9	25.3
Not reported .....	.5	S	V	S	.2	39.5
Total liftable axles and locations ¹² :						
None	118.7	11.8	26.1	22.5	58.2	1.1
1	8.2	V	S	S	7.9	9.3
Forward of the drive axle	4.5	V	V	V	4.5	12.5
Below the chassis	2.3	V	S	S	2.1	18.6
Beyond the chassis .....	.4	V	V	V	.4	47.4
Not reported	1.0	V	V	V	1.0	27.9
2 or more	1.6	V	V	V	1.6	18.8
Forward of the drive axle	1.6	V	V	V	1.6	18.8
Below the chassis .....	.5	V	V	V	.5	34.9
Beyond the chassis .....	.9	V	V	V	.9	25.3
Not reported	V	V	V	V	V	N
Not reported	1.0	V	S	S	.7	25.5
Not applicable ¹⁰	1 569.0	1 559.5	S	V	V	.8
Total liftable axles and number of braking axles:						
None	118.7	11.8	26.1	22.5	58.2	1.1
1	8.2	V	S	S	7.9	9.3
0 braking	1.1	V	S	V	1.0	27.4
1 braking	6.7	V	V	S	6.5	10.4
Not reported .....	.4	V	V	V	.4	40.4
2 or more	1.6	V	V	V	1.6	18.8
0 braking	V	V	V	V	V	N
1 braking	S	V	V	V	S	S
2 or more braking	1.5	V	V	V	1.5	19.1
Not reported	V	V	V	V	V	N
Not reported	1.0	V	S	S	.7	25.5
Not applicable ¹⁰	1 569.0	1 559.5	S	V	V	.8
CAB TYPE						
Conventional cab	117.0	10.7	23.1	20.6	62.6	1.1
With sleeper	16.5	V	V	V	16.5	4.9
Without sleeper	99.4	10.7	23.1	20.6	45.0	1.5
Not reported	1.2	V	V	V	1.2	22.3
Cab over engine	10.6	.5	2.6	2.0	5.5	8.2
With sleeper	1.9	V	V	V	1.9	17.3
Without sleeper	8.5	.5	2.6	2.0	3.3	9.5
Not reported .....	.2	V	V	V	.2	49.5
Cab forward of engine	1.2	.5	S	S	.2	29.3
Cab beside engine .....	.5	S	S	V	V	49.7
Not reported	S	V	V	V	S	S
Not applicable ¹⁰	1 569.0	1 559.5	S	V	V	.8

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

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

²Vehicles not in use.

³Truck-tractors not in use.

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

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

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

⁷Distributed miles data are available in Table 8.

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

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

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

¹¹Data were derived from administrative records.

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

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

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

Table 5. Trucks by Truck Type: 2002

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

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
Total	1 698.4	1 605.4	93.1	59.9	32.8	.3	V	X
Coefficient of variation (percent) .....	.8	1.1	13.7	21.2	2.7	44.2	N	X
BUSINESS¹								
For-hire transportation or warehousing	23.0	8.5	14.5	S	13.9	.2	V	14.6
Vehicle leasing or rental	9.6	S	1.6	V	1.6	V	V	46.8
Agriculture, forestry, fishing, or hunting	79.7	71.4	8.3	1.0	7.2	V	V	15.2
Mining	1.3	1.0	.3	S	.2	V	V	24.0
Utilities	3.3	2.7	.7	.4	.2	V	V	17.8
Construction	136.9	118.7	18.2	15.4	2.8	V	V	13.1
Manufacturing	12.6	10.6	2.0	S	1.8	V	V	35.9
Wholesale trade	8.5	6.5	2.0	S	1.8	V	V	38.0
Retail trade	20.9	19.9	.9	S	.8	V	V	30.4
Information services	S	S	S	S	V	V	V	S
Waste management, landscaping, or administrative/support services	11.6	10.6	1.0	.8	S	V	V	28.3
Arts, entertainment, or recreation services	S	S	S	S	S	V	V	S
Accommodation or food services	S	.6	.6	V	.6	V	V	S
Other services	34.0	33.6	.4	N	.4	V	V	29.1
Personal transportation	1 289.4	1 248.3	41.1	41.1	V	V	V	2.2
Not reported	13.3	12.2	1.1	S	1.0	S	V	41.1
Not applicable ²	36.0	36.0	V	V	V	V	V	27.5
BODY TYPE								
Single-unit trucks	1 664.3	1 604.3	59.9	59.9	N	N	N	.8
Pickup	732.6	685.1	47.5	47.5	N	N	N	1.5
Minivan	260.5	257.3	S	S	N	N	N	9.2
Other light vans	82.4	79.3	S	S	N	N	N	18.5
Sport utility	493.6	493.6	V	V	N	N	N	5.3
Armored	S	S	V	V	N	N	N	S
Beverage .....	.9	.9	V	V	N	N	N	37.5
Concrete mixer	1.6	1.6	V	V	N	N	N	18.3
Concrete pumper	S	S	V	V	N	N	N	S
Crane .....	.2	.2	V	V	N	N	N	49.4
Curtainside	V	V	V	V	N	N	N	N
Dump	20.7	18.9	1.8	1.8	N	N	N	6.1
Flatbed, stake, or platform	19.0	16.3	2.6	2.6	N	N	N	6.9
Low boy	S	S	S	S	N	N	N	S
Pole, logging, pulpwood, or pipe	S	S	S	S	N	N	N	S
Service, utility	2.2	1.9	S	S	N	N	N	22.6
Service, other	3.8	3.7	S	S	N	N	N	17.3
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk	2.5	2.4	S	S	N	N	N	19.0
Tank, liquids or gases	4.4	4.3	S	S	N	N	N	15.0
Tow/Wrecker	3.0	3.0	V	V	N	N	N	19.0
Trash, garbage, or recycling	3.6	3.4	S	S	N	N	N	14.9
Vacuum .....	.5	.5	V	V	N	N	N	39.5
Van, basic enclosed	10.7	10.1	.6	.6	N	N	N	9.7
Van, insulated nonrefrigerated .....	.5	.5	S	S	N	N	N	43.2
Van, insulated refrigerated	1.9	1.9	V	V	N	N	N	24.1
Van, open top	9.8	9.8	S	S	N	N	N	9.4
Van, step, walk-in, or multistop	7.1	7.1	S	S	N	N	N	12.4
Van, other	1.5	1.5	V	V	N	N	N	27.2
Other	S	S	V	V	N	N	N	S
Truck-tractors	34.2	1.0	33.1	N	32.8	.3	V	2.6
Automobile carrier .....	.3	N	.3	N	.3	V	V	44.3
Beverage .....	.4	N	.4	N	.4	V	V	42.7
Curtainside .....	.2	N	.2	N	.2	V	V	49.4
Dump	4.6	N	4.6	N	4.6	V	V	10.9
Flatbed, stake, or platform	5.1	N	5.1	N	5.1	V	V	10.5
Livestock .....	.5	N	.5	N	.5	V	V	35.0
Low boy	1.4	N	1.4	N	1.4	V	V	20.0
Mobile home toter	S	N	S	N	S	V	V	S
Open top	2.7	N	2.7	N	2.7	V	V	14.3
Pole, logging, pulpwood, or pipe .....	.7	N	.7	N	.7	V	V	29.6
Tank, dry bulk .....	.8	N	.8	N	.8	V	V	27.3
Tank, liquids or gases	1.8	N	1.8	N	1.8	V	V	17.9
Van, basic enclosed	9.8	N	9.8	N	9.5	.2	V	7.0
Van, drop-frame .....	.4	N	.4	N	.4	V	V	37.4
Van, insulated nonrefrigerated .....	.5	N	.5	N	.5	V	V	35.0
Van, insulated refrigerated	3.7	N	3.7	N	3.7	S	V	12.6
Other	S	N	S	N	S	V	V	S
Not applicable ³	1.0	1.0	V	N	V	V	V	26.8
ANNUAL MILES								
Less than 5,000	232.8	214.3	18.5	14.4	4.1	V	V	9.8
5,000 to 9,999	371.9	348.9	23.0	20.5	2.6	V	V	8.0
10,000 to 19,999	737.9	728.1	9.9	S	2.0	V	V	4.8
20,000 to 29,999	206.7	191.9	14.8	12.9	1.8	S	V	11.2
30,000 to 49,999	76.3	69.0	7.3	S	3.4	S	V	18.6
50,000 to 74,999	22.1	17.1	5.0	.4	4.6	V	V	31.9
75,000 or more	14.8	S	14.6	S	14.3	S	V	5.3
Not applicable ²	36.0	36.0	V	V	V	V	V	27.5

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
PRIMARY RANGE OF OPERATION								
Off-the-road	19.3	15.5	S	S	.5	V	V	36.6
50 miles or less	1 267.8	1 218.6	49.2	39.3	9.9	S	V	2.5
51 to 100 miles	162.8	147.2	15.6	S	5.4	V	V	12.7
101 to 200 miles	33.8	29.9	4.0	.5	3.5	V	V	27.8
201 to 500 miles	26.5	19.8	6.7	S	3.1	S	V	31.3
501 miles or more	46.9	38.4	8.5	V	8.5	S	V	23.1
Not reported	105.3	99.9	S	S	2.1	V	V	16.2
Not applicable ²	36.0	36.0	V	V	V	V	V	27.5
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	1 532.5	1 455.7	76.8	56.5	20.1	2	V	1.5
Operated in states other than the home base state	31.3	17.6	13.7	S	10.3	S	V	24.6
Not reported	98.6	96.0	2.6	S	2.5	V	V	16.8
Not applicable ²	36.0	36.0	V	V	V	V	V	27.5
MONTHS OPERATED								
12	1 158.9	1 106.9	51.9	33.7	18.0	2	V	2.9
7 to 11	310.0	284.2	25.9	18.3	7.5	S	V	8.7
2 to 6	162.8	148.6	14.2	S	6.5	V	V	11.9
1 or less	30.8	29.6	1.1	S	.8	V	V	27.1
Vehicle not used	36.0	36.0	V	V	V	V	V	27.5
VEHICLE SIZE								
Light	1 571.4	1 523.8	47.5	47.5	V	V	V	.9
Medium	35.8	27.8	S	S	V	V	V	15.8
Light-heavy	22.9	21.6	1.3	1.3	S	V	V	6.1
Heavy-heavy	68.4	32.2	36.3	3.2	32.8	.3	V	2.0
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	1 147.3	1 147.3	V	V	V	V	V	2.8
6,001 to 8,500	347.8	306.7	41.1	41.1	V	V	V	8.4
8,501 to 10,000	76.3	69.9	S	S	V	V	V	18.8
10,001 to 14,000	22.8	15.9	S	S	V	V	V	24.4
14,001 to 16,000	7.1	6.5	.6	.6	V	V	V	12.2
16,001 to 19,500	5.8	5.5	S	S	V	V	V	13.5
19,501 to 26,000	22.9	21.6	1.3	1.3	S	V	V	6.1
26,001 to 33,000	11.0	9.2	1.8	S	1.3	V	V	9.3
33,001 to 40,000	7.1	4.7	2.4	.7	1.6	V	V	10.7
40,001 to 50,000	11.2	8.4	2.8	.6	2.2	V	V	7.4
50,001 to 60,000	10.9	7.8	3.1	.3	2.7	S	V	7.1
60,001 to 80,000	27.0	2.1	24.8	.9	23.8	S	V	3.4
80,001 to 100,000	1.3	V	1.3	.2	1.1	V	V	20.9
100,001 to 130,000	V	V	V	V	V	V	V	N
130,001 or more	S	V	S	V	S	V	V	S
TOTAL LENGTH (FEET)								
Less than 20.0	1 359.9	1 359.9	V	V	V	V	V	2.0
20.0 to 27.9	238.7	213.2	25.5	25.5	V	V	V	9.7
28.0 to 35.9	41.3	26.6	14.7	14.7	S	V	V	20.3
36.0 to 40.9	22.7	4.6	18.1	16.8	1.3	V	V	31.1
41.0 to 44.9	2.2	1.0	1.3	.5	.8	V	V	20.0
45.0 to 49.9	2.4	V	2.4	.6	1.8	V	V	17.1
50.0 to 54.9	3.7	V	3.7	.8	2.9	V	V	13.2
55.0 to 59.9	5.2	V	5.2	S	4.9	V	V	10.4
60.0 to 64.9	8.5	V	8.5	.4	8.1	V	V	7.8
65.0 to 69.9	7.2	V	7.2	.3	6.8	S	V	8.4
70.0 to 74.9	5.4	V	5.4	V	5.2	S	V	9.9
75.0 to 79.9 .....	.9	V	.9	S	.8	V	V	25.4
80.0 or more	S	V	S	V	S	S	V	S
MILES PER GALLON								
Less than 5	15.1	10.4	4.7	.5	4.1	V	V	6.9
5 to 6.9	47.1	21.3	25.8	1.8	23.8	.3	V	3.2
7 to 8.9	31.2	27.6	3.6	1.4	2.2	V	V	18.0
9 to 10.9	106.1	95.0	11.1	S	.4	V	V	15.3
11 to 12.9	149.6	136.3	13.2	S	S	V	V	13.4
13 to 14.9	235.6	226.1	S	S	V	V	V	10.7
15 or more	910.9	892.0	19.0	19.0	V	V	V	3.8
15 to 20.9	760.1	744.3	15.8	15.8	V	V	V	4.7
21 to 24.9	97.4	94.2	S	S	V	V	V	17.1
25 or more	53.5	53.5	V	V	V	V	V	23.8
Not reported	166.9	160.6	S	S	2.3	V	V	12.6
Not applicable ²	36.0	36.0	V	V	V	V	V	27.5

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
MODEL YEAR								
2003	S	S	S	V	S	V	V	S
2002	112.7	108.6	5.7	1.9	4.8	3.2	1.9	15.9
2001	146.3	140.8	5.7	1.9	4.8	3.2	1.9	13.8
2000	158.9	153.2	5.7	1.9	4.8	3.2	1.9	13.0
1999	134.6	130.9	3.7	2.2	9.1	1.9	1.5	14.3
1998	119.3	117.1	2.2	2.2	9.1	1.9	1.5	15.3
1997	129.4	118.3	11.2	2.2	9.1	1.9	1.5	14.6
1996	97.1	87.6	9.6	2.9	3.1	3.1	3.1	17.0
1995	108.6	99.0	9.5	3.1	3.1	3.1	3.1	15.9
1994	97.3	95.2	2.1	1.9	1.9	1.9	1.9	17.0
1993	103.5	95.1	8.4	1.8	1.8	1.8	1.8	16.5
Pre-1993	490.4	459.3	31.1	22.0	9.1	1.9	1.5	6.4
VEHICLE ACQUISITION								
New	694.4	654.9	39.4	25.0	14.3	S	V	5.1
Used	924.6	875.6	49.0	31.6	17.3	S	V	3.9
Not reported	79.5	74.8	S	S	1.3	S	V	19.0
LEASE CHARACTERISTICS								
Leased	79.4	69.0	10.4	S	7.0	S	V	17.9
Lessee	64.3	57.6	6.6	S	3.3	S	V	20.5
Vehicle only	7.3	4.1	3.2	S	3.0	S	V	10.5
Vehicle with driver	V	V	V	V	V	V	V	N
Not reported	S	V	S	V	S	V	V	S
Not applicable ⁴	56.7	53.6	S	S	V	V	V	23.2
Lessor	11.7	S	3.7	V	3.7	V	V	38.3
Vehicle only	4.4	1.7	2.7	V	2.7	V	V	12.9
Vehicle with driver	1.0	V	1.0	V	1.0	V	V	24.6
Not reported	S	V	S	V	S	V	V	S
Not applicable ⁴	S	S	V	V	V	V	V	S
Not reported	S	S	S	V	S	V	V	S
Not leased	1 029.0	970.1	58.9	39.4	19.4	S	V	3.4
Not reported	590.0	566.3	23.8	17.2	6.4	S	V	5.8
Length of leasing agreement:								
Leased	79.4	69.0	10.4	S	7.0	S	V	17.9
1 to 11 months	1.0	S	7	V	7	V	V	28.0
12 months or more	11.7	5.4	6.3	S	6.1	S	V	7.9
Not reported	.6	S	S	V	V	V	V	43.0
Not applicable ⁴	66.2	63.0	S	S	V	V	V	21.4
Provisions of lease ⁵ :								
Financing only	7.9	3.8	4.0	S	3.9	S	V	9.8
Full maintenance	3.9	1.8	2.1	V	2.1	V	V	14.5
Payment of taxes	3.6	1.7	1.9	V	1.9	V	V	14.9
Obtaining licenses and permits	4.2	1.8	2.3	V	2.3	V	V	13.7
Recordkeeping	2.6	1.4	1.3	V	1.3	V	V	18.3
Fuel contract	1.4	.5	.9	V	.9	V	V	24.0
PRIMARY OPERATOR CLASSIFICATION								
Private	322.8	290.2	32.6	18.3	14.3	V	V	7.7
Motor carrier	22.1	12.1	10.1	S	9.6	V	V	20.6
Owner operator	18.1	10.5	7.7	S	7.3	V	V	25.1
Rental	9.8	S	1.6	V	1.6	V	V	45.6
Personal transportation	1 289.5	1 248.4	41.1	41.1	V	V	V	2.2
Not applicable ²	36.0	36.0	V	V	V	V	V	27.5
For-hire characteristics:								
Type of carrier:								
Contract	11.0	2.3	8.7	S	8.5	V	V	7.4
Common	13.7	5.4	8.3	S	8.0	S	V	7.0
Not reported	3.0	2.3	.7	S	.4	S	V	18.0
Not applicable ⁶	1 670.8	1 595.4	75.4	59.4	16.0	V	V	.8
Type of service:								
Truckload	19.0	4.5	14.5	S	14.3	V	V	5.3
Less-than truckload	5.7	3.1	2.6	S	2.2	S	V	12.2
Not reported	3.0	2.3	.7	S	.4	S	V	18.0
Not applicable ⁶	1 670.8	1 595.4	75.4	59.4	16.0	V	V	.8
Source of hauls:								
Shippers or receivers	18.2	4.9	13.3	S	13.0	S	V	5.7
Brokers	2.6	.4	2.2	V	2.2	V	V	15.4
Centralized markets or exchanges	.7	.4	.4	V	.4	V	V	31.1
Other	V	V	V	V	V	V	V	N
Not reported	6.1	4.3	1.9	S	1.3	V	V	12.0
Not applicable ⁶	1 670.8	1 595.4	75.4	59.4	16.0	V	V	.8
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	6.5	3.1	3.5	S	3.2	S	V	11.3
Not carrying hazardous materials	102.7	71.3	31.4	5.9	25.3	S	V	1.6
Not reported	10.0	7.1	2.9	S	2.7	S	V	9.5
Not applicable ⁸	1 579.2	1 523.8	55.4	53.7	1.6	V	V	.8
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	2.1	1.7	S	S	V	V	V	22.9
Air bag(s) (safety device only)	993.1	961.3	31.7	29.2	2.5	S	V	3.5
Air compressor (except air brakes)	8.1	4.2	3.9	S	3.7	V	V	9.6
Air-conditioning	1 353.0	1 275.1	77.9	49.8	27.8	V	V	2.1
Air springs	20.7	3.6	17.2	.4	16.6	S	V	4.4

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
EQUIPMENT TYPE^{5 9}—Con.								
Antilock brake system	1 042.6	992.2	50.5	35.9	14.4	S	V	3.3
Collision warning system	S	S	S	V	S	V	V	S
Computerized drive train control unit	264.3	256.2	S	S	1.4	V	V	9.8
Crane	2.6	2.2	.4	.3	S	V	V	19.2
Electronic vehicle identification device	1.2	S	1.0	S	1.0	V	V	23.2
Engine retarder/brake	24.9	4.7	20.2	.6	19.5	S	V	3.7
Front-wheel drive	984.8	934.3	50.6	50.6	V	V	V	3.5
Hoist	34.6	32.6	2.0	2.0	V	V	V	4.5
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	3.4	1.2	2.2	V	2.2	V	V	14.1
Internet access	S	V	S	V	S	V	V	S
Lift gate	6.9	6.9	V	V	V	V	V	12.1
Mounting bar for snowplow	34.0	24.1	S	S	2.1	V	V	29.1
Navigational system	.3	S	.2	S	S	V	V	44.3
Power take-off	46.8	37.5	9.3	2.5	6.8	V	V	3.6
Radial tires	1 168.4	1 086.6	81.8	54.3	27.2	.3	V	2.9
Reflective material in addition to those required by law	18.7	11.8	6.8	1.1	5.7	V	V	6.4
Road speed governor	29.5	12.1	17.4	1.5	15.6	.3	V	4.5
Toolbox	129.1	110.6	18.5	11.6	6.9	S	V	13.1
Trip recorder or on-board computer with communication capabilities	75.8	70.2	S	S	2.3	V	V	19.5
Trip recorder or on-board computer without communication capabilities	361.3	335.4	25.9	22.2	3.7	V	V	8.2
Vehicle control aids for handicapped drivers	S	S	V	V	V	V	V	S
Wheelchair lift	S	S	V	V	V	V	V	S
Winch	5.3	5.2	S	S	V	V	V	13.7
Transmission type:								
Automatic	1 386.0	1 336.3	49.6	49.1	.5	V	V	1.9
Manual	274.6	233.4	41.2	10.8	30.1	.3	V	8.0
Semiautomated manual	S	S	S	V	S	V	V	S
Automated manual	.7	S	.6	S	.5	V	V	29.8
Not reported	33.6	32.1	1.5	V	1.5	V	V	27.9
Braking system:								
Hydraulic (standard)	34.8	32.0	2.8	2.5	.4	V	V	4.5
Hydraulic with power assist	25.5	24.6	.9	.8	S	V	V	5.7
Air	63.8	30.1	33.8	2.6	30.9	.3	V	2.1
Other	V	V	V	V	V	V	V	N
Not reported	5.3	3.4	1.9	S	1.5	V	V	12.9
Not applicable ¹⁰	1 569.0	1 515.3	53.7	53.7	V	V	V	.8
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	1 489.0	1 442.5	46.5	46.5	V	V	V	1.5
Diesel	143.7	97.0	46.6	13.5	32.8	.3	V	9.3
Natural gas	S	S	V	V	V	V	V	S
Propane	.6	.6	V	V	V	V	V	44.4
Alcohol fuels	19.3	19.3	V	V	V	V	V	39.9
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	S	S	V	V	V	V	V	S
Not applicable ²	36.0	36.0	V	V	V	V	V	27.5
Cylinders¹¹:								
4 cylinders	134.0	130.9	S	S	V	V	V	14.6
6 cylinders	779.2	732.6	46.5	15.4	30.9	.3	V	4.3
8 cylinders	754.7	717.1	37.5	37.3	.2	V	V	4.5
Other	30.6	24.7	S	S	1.8	V	V	15.2
Cubic inch displacement¹¹:								
Gasoline fuel	1 489.0	1 442.5	46.5	46.5	V	V	V	1.5
Less than 200	283.2	276.9	S	S	V	V	V	9.5
200 to 299	572.8	566.5	S	S	V	V	V	5.6
300 to 349	314.0	307.6	S	S	V	V	V	8.8
350 to 399	265.7	243.0	22.8	22.8	V	V	V	9.6
400 or more	30.4	26.1	S	S	V	V	V	27.4
Not available	22.8	22.5	S	S	V	V	V	20.2
Diesel fuel	143.7	97.0	46.6	13.5	32.8	.3	V	9.3
Less than 400	33.8	33.3	S	S	V	V	V	26.3
400 to 599	58.9	46.1	12.7	11.2	1.4	S	V	17.6
600 to 799	23.6	8.4	15.2	.8	14.3	S	V	4.1
800 or more	16.3	2.5	13.9	.8	13.0	S	V	5.1
Not available	11.0	6.6	4.4	S	4.1	S	V	7.9
Other fuel	26.6	26.6	V	V	V	V	V	33.3
Less than 400	25.5	25.5	V	V	V	V	V	34.6
400 or more	.6	.6	V	V	V	V	V	44.4
Not available	.4	.4	V	V	V	V	V	47.6
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	36.0	36.0	V	V	V	V	V	27.5
REFUELING LOCATION								
Gas station	1 522.0	1 465.8	56.2	50.9	5.3	V	V	1.4
Truck stop	37.7	16.7	20.9	S	16.8	S	V	17.0
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	67.3	52.6	14.7	S	9.5	S	V	14.8
Other company's/contractor's facility not open to the public	S	S	.9	V	.9	V	V	S
Other	V	V	V	V	V	V	V	N
Not reported	30.4	30.1	.4	S	.2	V	V	30.9
Not applicable ²	36.0	36.0	V	V	V	V	V	27.5

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination			Truck-tractor with triple trailers		
			Total	Single-unit truck with trailer	Truck-tractor with single trailer			Truck-tractor with double trailers
MAINTENANCE⁵								
General maintenance performed by:								
None performed	30.6	30.3	S	S	S	V	V	30.7
Company-owned maintenance facility	132.9	114.4	18.4	2.7	15.6	S	V	12.1
General repair business or private mechanic	652.1	621.0	31.1	20.4	10.6	S	V	5.3
Dealership service department	485.5	466.3	19.1	13.3	5.7	S	V	6.6
Leasing company	S	S	S	S	1.1	V	V	S
Individual not employed/paid by any maintenance type facility								
Other	695.2	656.1	39.1	30.3	8.8	V	V	5.0
Not reported	27.1	26.8	.3	S	S	V	V	32.7
Not applicable ²	36.0	36.0	V	V	V	V	V	27.5
Extensive repairs performed by:								
None performed	1 355.0	1 287.3	67.8	43.5	24.0	.2	V	2.2
Company-owned maintenance facility	16.3	13.7	2.6	.2	2.4	V	V	33.7
General repair business or private mechanic	97.1	87.4	9.6	S	3.1	S	V	16.8
Dealership service department	100.8	95.0	S	S	2.5	V	V	16.7
Leasing company	S	S	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)								
Individual not employed/paid by any repair type facility	76.2	68.8	S	S	1.1	V	V	19.4
Other	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	36.0	36.0	V	V	V	V	V	27.5
AXLE ARRANGEMENT								
Driving axles:								
1	656.1	645.7	10.4	7.1	3.1	S	V	5.2
2	1 041.0	958.6	82.4	52.7	29.5	S	V	3.3
3 or more	.9	.7	S	S	S	V	V	25.3
Not reported	.5	.4	S	V	S	V	V	39.5
Total liftable axles and locations ¹² :								
None	118.7	80.4	38.2	5.6	32.3	.3	V	1.1
1	8.2	7.2	.9	.5	.4	V	V	9.3
Forward of the drive axle	4.5	4.0	.5	.4	S	V	V	12.5
Below the chassis	2.3	2.2	S	S	V	V	V	18.6
Beyond the chassis	.4	.4	V	V	V	V	V	47.4
Not reported	1.0	.7	.3	S	.2	V	V	27.9
2 or more	1.6	1.5	S	S	1.5	V	V	18.8
Forward of the drive axle	1.6	1.5	S	S	V	V	V	18.8
Below the chassis	.5	.4	S	S	V	V	V	34.9
Beyond the chassis	.9	.9	V	V	V	V	V	25.3
Not reported	V	V	V	V	V	V	V	N
Not reported	1.0	.9	S	V	S	V	V	25.5
Not applicable ¹⁰	1 569.0	1 515.3	53.7	53.7	V	V	V	.8
Total liftable axles and number of braking axles:								
None	118.7	80.4	38.2	5.6	32.3	.3	V	1.1
1	8.2	7.2	.9	.5	.4	V	V	9.3
0 braking	1.1	1.0	S	S	S	V	V	27.4
1 braking	6.7	5.8	.8	.5	.4	V	V	10.4
Not reported	.4	.4	V	V	V	V	V	40.4
2 or more	1.6	1.5	S	S	1.5	V	V	18.8
0 braking	V	V	V	V	V	V	V	N
1 braking	S	S	V	V	V	V	V	S
2 or more braking	1.5	1.5	S	S	V	V	V	19.1
Not reported	V	V	V	V	V	V	V	N
Not reported	1.0	.9	S	V	S	V	V	25.5
Not applicable ¹⁰	1 569.0	1 515.3	53.7	53.7	V	V	V	.8
CAB TYPE								
Conventional cab								
With sleeper	117.0	80.5	36.6	6.0	30.2	.3	V	1.1
Without sleeper	16.5	S	16.3	V	16.2	S	V	4.9
Not reported	99.4	80.2	19.2	6.0	13.0	S	V	1.5
Not reported	1.2	S	1.0	V	1.0	V	V	22.3
Cab over engine								
With sleeper	10.6	7.9	2.7	S	2.6	V	V	8.2
Without sleeper	1.9	S	1.8	V	1.8	V	V	17.3
Not reported	8.5	7.8	.7	S	.5	V	V	9.5
Not reported	.2	V	.2	V	.2	V	V	49.5
Cab forward of engine								
Cab beside engine	1.2	1.2	V	V	V	V	V	29.3
Not reported	.5	.5	V	V	V	V	V	49.7
Not applicable ¹⁰	S	S	S	S	V	V	V	S
Not applicable ¹⁰	1 569.0	1 515.3	53.7	53.7	V	V	V	.8

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

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

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

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

Table 6. Truck Miles by Vehicle Size: 2002

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
Total	23 058.7	19 905.5	428.8	188.2	2 536.2	X
Coefficient of variation (percent)	2.8	3.2	23.1	11.0	3.4	X
BUSINESS¹						
For-hire transportation or warehousing	1 638.2	S	40.1	34.1	1 352.4	13.6
Vehicle leasing or rental	199.6	S	17.2	S	114.5	23.6
Agriculture, forestry, fishing, or hunting	681.0	388.1	17.8	17.2	258.0	17.8
Mining	27.5	V	S	S	27.3	34.4
Utilities	43.2	S	17.0	S	21.7	23.7
Construction	2 212.6	1 896.0	85.0	33.9	197.6	16.7
Manufacturing	273.2	S	24.4	S	131.0	28.0
Wholesale trade	275.9	S	16.1	16.3	121.9	43.6
Retail trade	415.0	S	50.5	30.5	66.5	34.7
Information services	S	S	S	V	S	S
Waste management, landscaping, or administrative/support services	S	S	16.1	21.8	87.4	S
Arts, entertainment, or recreation services	S	V	S	S	S	S
Accommodation or food services	S	S	7.7	S	46.0	S
Other services	445.4	424.6	S	S	S	33.2
Personal transportation	15 909.6	15 792.9	S	S	S	3.7
Not reported	258.2	S	9.4	4.3	95.9	42.0
Not applicable ²	S	S	S	S	S	S
BODY TYPE						
Single-unit trucks	20 945.4	19 905.5	428.8	187.7	423.4	3.0
Pickup	8 618.3	8 506.6	S	V	V	5.3
Minivan	3 755.2	3 755.2	V	V	V	11.9
Other light vans	1 134.6	1 134.6	V	V	V	23.6
Sport utility	6 393.7	6 393.7	V	V	V	6.7
Armored	S	V	S	V	V	S
Beverage	15.9	V	S	S	S	44.1
Concrete mixer	23.7	V	V	V	23.7	20.5
Concrete pumper	S	V	V	V	S	S
Crane	S	V	V	S	S	S
Curtainside	V	V	V	V	V	N
Dump	158.7	S	16.7	19.7	118.8	9.9
Flatbed, stake, or platform	175.9	15.6	57.6	25.3	77.4	10.6
Low boy	S	V	S	S	S	S
Pole, logging, pulpwood, or pipe	S	V	V	S	S	S
Service, utility	27.8	S	19.1	S	S	29.5
Service, other	70.2	24.2	40.3	S	V	20.0
Street sweeper	S	V	S	V	V	S
Tank, dry bulk	10.7	V	S	S	6.7	33.6
Tank, liquids or gases	56.6	S	S	13.9	40.2	20.5
Tow/Wrecker	38.4	S	26.3	S	S	26.3
Trash, garbage, or recycling	80.2	V	S	S	67.1	17.7
Vacuum	2.7	V	S	S	44.7	S
Van, basic enclosed	187.9	17.7	73.8	55.5	40.9	13.4
Van, insulated nonrefrigerated	S	V	S	S	S	S
Van, insulated refrigerated	42.1	V	11.0	20.7	10.4	26.7
Van, open top	22.2	S	S	5.3	16.1	15.6
Van, step, walk-in, or multistop	85.6	39.6	39.7	S	S	16.2
Van, other	22.1	S	12.0	S	V	32.0
Other	S	V	V	S	S	S
Truck-tractors	2 113.3	V	V	S	2 112.8	4.0
Automobile carrier	S	V	V	V	S	S
Beverage	5.7	V	V	V	5.7	44.0
Curtainside	S	V	V	V	S	S
Dump	150.2	V	V	V	150.2	16.0
Flatbed, stake, or platform	320.5	V	V	V	320.5	12.7
Livestock	42.1	V	V	V	42.1	40.8
Low boy	43.7	V	V	V	43.7	30.6
Mobile home toter	S	V	V	V	S	S
Open top	108.7	V	V	V	108.7	21.1
Pole, logging, pulpwood, or pipe	31.3	V	V	V	31.3	33.4
Tank, dry bulk	37.0	V	V	V	37.0	35.5
Tank, liquids or gases	110.2	V	V	V	110.2	21.3
Van, basic enclosed	796.2	V	V	S	795.7	8.2
Van, drop-frame	25.3	V	V	V	25.3	41.3
Van, insulated nonrefrigerated	43.8	V	V	V	43.8	39.9
Van, insulated refrigerated	338.2	V	V	V	338.2	13.6
Other	S	V	V	V	S	S
Not applicable ³	V	V	V	V	V	N
ANNUAL MILES						
Less than 5,000	560.8	478.5	28.1	15.2	39.0	12.1
5,000 to 9,999	2 559.3	2 471.7	25.5	17.4	44.6	8.2
10,000 to 19,999	9 897.6	9 637.6	97.0	53.6	109.4	4.9
20,000 to 29,999	4 591.5	4 311.4	98.5	62.7	118.9	11.3
30,000 to 49,999	2 524.2	2 075.3	S	22.1	254.0	18.5
50,000 to 74,999	1 266.1	894.8	S	S	347.9	31.5
75,000 or more	1 622.0	V	V	V	1 622.0	5.5
Not applicable ²	S	S	S	S	S	S
PRIMARY RANGE OF OPERATION						
Off-the-road	300.1	S	S	S	S	47.9
50 miles or less	15 786.3	14 935.5	225.4	119.4	505.9	3.8
51 to 100 miles	2 667.0	2 213.2	66.4	35.6	351.8	15.5
101 to 200 miles	984.7	709.3	S	9.1	256.8	30.5
201 to 500 miles	605.3	316.1	S	S	282.8	23.9
501 miles or more	1 336.3	402.4	S	S	929.9	10.9
Not reported	1 341.7	1 111.5	24.6	16.3	189.2	15.9
Not applicable ²	S	S	S	S	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	
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	20 453.5	18 690.1	398.6	169.6	1 195.2	3.2
Operated in states other than the home base state	1 326.5	207.5	S	S	1 107.7	8.9
Not reported	1 241.5	971.7	22.7	14.2	232.9	17.4
Not applicable ²	S	S	S	S	S	S
MONTHS OPERATED						
12	17 170.3	15 121.4	218.0	108.9	1 722.0	3.8
7 to 11	4 623.0	3 835.2	S	43.7	568.7	10.8
2 to 6	1 181.4	883.4	33.9	32.1	232.0	14.3
1 or less	46.7	S	1.1	S	13.1	44.1
Vehicle not used	S	S	S	S	S	S
AVERAGE WEIGHT (POUNDS)						
Less than 6,001	14 096.0	14 096.0	N	N	N	4.5
6,001 to 8,500	4 829.7	4 829.7	N	N	N	10.1
8,501 to 10,000	979.8	979.8	N	N	N	27.9
10,001 to 14,000	282.5	N	282.5	N	N	34.6
14,001 to 16,000	82.3	N	82.3	N	N	16.4
16,001 to 19,500	64.0	N	64.0	N	N	19.8
19,501 to 26,000	188.2	N	N	188.2	N	11.0
26,001 to 33,000	159.3	N	N	N	159.3	16.7
33,001 to 40,000	162.6	N	N	N	162.6	16.1
40,001 to 50,000	228.6	N	N	N	228.6	14.7
50,001 to 60,000	252.0	N	N	N	252.0	11.4
60,001 to 80,000	1 689.7	N	N	N	1 689.7	4.9
80,001 to 100,000	40.8	N	N	N	40.8	27.7
100,001 to 130,000	V	N	N	N	V	N
130,001 or more	S	N	N	N	S	S
TOTAL LENGTH (FEET)						
Less than 20.0	17 281.5	17 115.5	104.5	33.9	27.5	3.9
20.0 to 27.9	2 868.8	2 495.0	140.5	89.4	143.9	11.8
28.0 to 35.9	478.2	229.5	50.4	50.3	148.1	24.0
36.0 to 40.9	328.1	S	S	8.7	127.5	31.8
41.0 to 44.9	44.7	V	S	S	38.2	27.9
45.0 to 49.9	63.5	V	V	S	61.2	22.3
50.0 to 54.9	114.2	V	S	S	110.6	18.7
55.0 to 59.9	218.4	V	V	V	218.4	13.9
60.0 to 64.9	469.1	V	V	S	468.7	9.8
65.0 to 69.9	574.6	V	V	V	574.6	10.3
70.0 to 74.9	528.1	V	V	V	528.1	10.9
75.0 to 79.9	73.8	V	V	V	73.8	27.7
80.0 or more	S	V	V	V	S	S
MILES PER GALLON						
Less than 5	289.1	S	S	13.2	270.0	11.2
5 to 6.9	1 925.7	10.3	24.2	27.7	1 863.6	4.4
7 to 8.9	423.5	S	52.2	45.4	164.7	21.7
9 to 10.9	1 490.9	1 178.7	215.7	41.3	55.3	21.6
11 to 12.9	1 794.0	1 713.9	54.5	21.6	3.9	16.4
13 to 14.9	3 174.2	3 151.2	20.3	S	S	13.6
15 or more	12 342.8	12 309.0	29.3	4.5	V	5.1
15 to 20.9	10 330.2	10 296.4	29.3	4.5	V	6.0
21 to 24.9	1 400.7	1 400.7	V	V	V	19.5
25 or more	611.9	611.9	V	V	V	28.5
Not reported	1 581.1	1 341.5	29.8	31.5	178.3	13.1
Not applicable ²	S	S	S	S	S	S
MODEL YEAR						
2003	S	V	V	S	S	S
2002	1 858.9	1 736.5	7.4	S	100.3	19.0
2001	2 202.4	1 969.1	10.5	14.3	208.4	14.0
2000	2 863.3	2 279.3	54.8	17.3	512.0	12.5
1999	2 169.7	1 779.1	42.6	18.5	329.5	14.2
1998	1 974.8	1 744.1	28.6	S	192.8	16.2
1997	2 114.9	1 815.1	S	S	150.3	15.2
1996	1 321.3	1 060.0	23.6	S	234.7	16.2
1995	1 729.3	1 482.7	28.7	13.7	204.2	16.8
1994	1 185.7	1 052.8	9.1	S	113.2	19.3
1993	1 440.5	1 303.2	20.9	S	110.1	23.1
Pre-1993	4 183.1	3 683.7	59.9	68.2	371.3	9.6
VEHICLE ACQUISITION						
New	10 696.3	8 992.4	209.6	110.8	1 383.5	5.7
Used	11 183.2	9 849.0	210.6	68.8	1 054.8	5.5
Not reported	1 179.2	1 064.1	S	S	97.9	23.9
LEASE CHARACTERISTICS						
Leased	1 756.0	1 084.1	42.7	24.3	604.9	15.0
Lessee	1 160.7	816.2	25.1	10.1	309.3	17.2
Vehicle only	343.6	13.8	25.1	10.1	294.6	12.1
Vehicle with driver	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ⁴	802.4	802.4	V	V	V	24.4
Lessor	543.0	S	17.5	14.3	290.3	30.9
Vehicle only	216.8	V	17.5	14.3	185.0	14.5
Vehicle with driver	93.6	V	V	V	93.6	26.2
Not reported	S	V	V	V	S	S
Not applicable ⁴	S	S	V	V	S	S
Not reported	S	S	V	V	S	S
Not leased	14 313.0	12 458.0	289.1	122.0	1 443.9	4.9
Not reported	6 989.7	6 363.4	97.0	41.8	487.5	6.8

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	1 756.0	1 084.1	42.7	24.3	604.9	15.0
1 to 11 months	36.0	V	S	S	31.6	32.5
12 months or more	637.1	13.8	42.4	20.2	560.7	8.8
Not reported	S	V	S	V	S	S
Not applicable ⁴	1 070.3	1 070.3	V	V	V	24.0
Provisions of lease ⁵ :						
Financing only	419.7	11.3	33.7	9.0	365.7	11.0
Full maintenance	174.8	S	S	14.7	143.1	16.1
Payment of taxes	170.4	S	16.4	S	139.9	16.6
Obtaining licenses and permits	230.7	S	S	12.8	200.4	15.5
Recordkeeping	125.2	S	S	14.2	105.4	20.0
Fuel contract	90.5	S	V	S	84.8	25.3
PRIMARY OPERATOR CLASSIFICATION						
Private	4 698.5	3 553.6	236.1	131.0	777.8	10.1
Motor carrier	1 200.1	S	35.7	30.2	953.0	12.5
Owner operator	1 001.9	S	16.4	15.8	685.7	22.7
Rental	210.8	S	23.6	S	119.2	22.6
Personal transportation	15 910.2	15 793.5	S	S	S	3.7
Not applicable ²	S	S	S	S	S	S
For-hire characteristics:						
Type of carrier:						
Contract	844.4	S	16.4	S	807.6	8.0
Common	822.9	S	25.4	22.7	774.1	8.0
Not reported	78.2	S	S	S	57.0	26.8
Not applicable ⁶	21 313.2	19 896.9	376.7	142.1	897.5	3.0
Type of service:						
Truckload	1 406.2	S	26.8	S	1 375.0	5.7
Less-than truckload	259.9	S	S	36.3	207.0	14.5
Not reported	79.4	S	S	S	56.7	26.6
Not applicable ⁶	21 313.2	19 896.9	376.7	142.1	897.5	3.0
Source of hauls:						
Shippers or receivers	1 277.2	S	32.4	29.9	1 214.4	6.2
Brokers	219.5	S	S	V	218.1	16.4
Centralized markets or exchanges	31.9	V	V	S	31.0	38.3
Other	V	V	V	V	V	N
Not reported	216.9	S	18.5	S	175.3	16.1
Not applicable ⁶	21 313.2	19 896.9	376.7	142.1	897.5	3.0
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	308.4	S	S	20.9	283.3	12.8
Not carrying hazardous materials	2 422.5	84.9	245.5	140.6	1 951.5	3.5
Not reported	251.0	22.5	31.4	15.5	181.6	13.5
Not applicable ⁸	20 076.8	19 796.5	S	S	119.8	3.1
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	23.8	S	11.9	S	6.9	29.8
Air bag(s) (safety device only)	14 493.0	14 102.7	S	10.1	210.6	4.6
Air compressor (except air brakes)	353.5	S	13.6	15.1	319.2	12.4
Air-conditioning	19 951.0	17 306.3	294.2	102.5	2 248.0	3.4
Air springs	1 281.1	V	S	S	1 271.5	6.0
Antilock brake system	15 668.7	14 046.9	223.8	58.4	1 339.6	4.3
Collision warning system	S	V	V	V	S	S
Computerized drive train control unit	3 945.0	3 686.3	S	S	142.8	11.1
Crane	42.6	S	12.0	S	21.1	22.9
Electronic vehicle identification device	109.4	V	S	V	109.2	25.7
Engine retarder/brake	1 621.9	S	13.9	S	1 602.8	5.1
Front-wheel drive	12 657.6	12 554.8	S	V	V	5.1
Hoist	228.3	S	38.9	36.2	146.8	8.7
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	208.5	S	S	S	196.0	16.9
Internet access	S	V	V	V	S	S
Lift gate	112.0	S	35.3	45.0	27.2	15.7
Mounting bar for snowplow	S	S	S	S	S	S
Navigational system	27.6	V	V	V	27.6	49.4
Power take-off	713.3	S	50.6	56.1	600.7	6.2
Radial tires	16 711.1	14 164.7	292.1	109.3	2 145.0	4.1
Reflective material in addition to those required by law	615.9	7.4	42.1	34.7	531.8	8.5
Road speed governor	1 386.8	S	32.6	35.8	1 305.6	5.6
Toolbox	2 223.9	1 460.4	97.0	41.5	625.0	15.7
Trip recorder or on-board computer with communication capabilities	1 280.3	1 046.7	S	S	223.1	18.1
Trip recorder or on-board computer without communication capabilities	5 315.3	4 992.1	S	S	304.9	9.5
Vehicle control aids for handicapped drivers	S	S	V	V	V	S
Wheelchair lift	S	S	V	V	V	S
Winch	62.9	S	23.2	S	31.9	19.2
Transmission type:						
Automatic	17 969.7	17 510.0	310.9	52.6	96.2	3.5
Manual	4 438.8	1 998.4	95.7	115.7	2 229.0	8.4
Semiautomated manual	S	S	V	S	S	S
Automated manual	66.1	V	V	V	65.9	34.6
Not reported	535.1	363.5	22.2	16.8	132.5	24.8
Braking system:						
Hydraulic (standard)	332.7	60.3	156.7	69.9	45.7	8.0
Hydraulic with power assist	240.7	51.7	107.5	52.8	28.8	9.3
Air	2 412.7	S	25.5	50.8	2 335.2	3.6
Other	V	V	V	V	V	N
Not reported	170.9	S	27.4	14.7	126.5	16.0
Not applicable ¹⁰	19 901.8	19 790.1	S	V	V	3.2

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	18 868.4	18 592.7	210.8	44.0	20.8	3.3
Diesel	3 864.6	998.2	217.6	134.1	2 514.8	7.7
Natural gas	S	S	V	V	V	S
Propane	S	V	V	S	S	S
Alcohol fuels	210.3	210.1	S	S	V	48.1
Electricity	V	V	V	V	V	N
Combination	S	S	V	S	S	S
Other	V	V	V	V	V	N
Not reported	S	S	V	V	V	S
Not applicable ²	S	S	S	S	S	S
Cylinders ¹¹ :						
4 cylinders	1 548.3	1 526.6	17.7	S	V	16.8
6 cylinders	11 891.8	9 285.4	74.6	103.0	2 428.9	5.0
8 cylinders	9 438.4	9 007.5	325.8	64.5	40.5	6.4
Other	180.3	S	10.7	16.8	66.8	32.3
Cubic inch displacement ¹¹ :						
Gasoline fuel	18 868.4	18 592.7	210.8	44.0	20.8	3.3
Less than 200	3 712.7	3 712.7	V	V	V	11.9
200 to 299	7 552.9	7 541.5	S	V	V	7.1
300 to 349	4 026.6	4 020.6	S	S	V	10.8
350 to 399	3 326.6	3 148.2	S	9.6	8.6	12.5
400 or more	209.6	155.8	26.8	22.5	4.6	30.9
Not available	40.0	S	6.9	11.5	7.6	25.8
Diesel fuel	3 864.6	998.2	217.6	134.1	2 514.8	7.7
Less than 400	425.5	320.6	67.1	28.3	9.5	26.4
400 to 599	1 097.5	677.5	148.8	94.3	176.9	24.1
600 to 799	1 137.3	V	S	5.1	1 131.8	6.0
800 or more	870.7	V	S	S	868.1	7.2
Not available	333.6	S	S	S	328.5	13.7
Other fuel	250.8	240.8	S	S	S	41.4
Less than 400	241.4	240.8	V	S	V	43.0
400 or more	S	V	S	S	V	S
Not available	S	V	V	S	S	S
Not reported	S	S	V	V	V	S
Not applicable ²	S	S	S	S	S	S
REFUELING LOCATION						
Gas station	19 751.6	19 070.4	216.3	111.1	353.8	3.3
Truck stop	1 610.3	S	42.1	18.4	1 428.1	7.0
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	1 178.1	298.6	S	55.2	678.2	13.4
Other company's/contractor's facility not open to the public	110.8	S	S	S	59.7	38.0
Other	V	V	V	V	V	N
Not reported	370.6	337.7	13.0	S	S	30.7
Not applicable ²	S	S	S	S	S	S
MAINTENANCE⁵						
General maintenance performed by:						
None performed	192.9	185.2	S	S	S	40.5
Company-owned maintenance facility	2 699.5	1 182.6	110.9	82.5	1 323.6	9.9
General repair business or private mechanic	9 466.9	8 398.9	134.1	63.0	871.0	6.4
Dealership service department	6 963.9	6 294.7	71.7	38.5	559.0	7.2
Leasing company	144.6	S	V	S	78.8	34.1
Individual not employed/paid by any maintenance type facility	9 025.6	8 328.0	S	33.6	536.8	7.0
Other	V	V	V	V	V	N
Not reported	337.0	306.1	13.1	S	S	32.4
Not applicable ²	S	S	S	S	S	S
Extensive repairs performed by:						
None performed	17 852.1	15 698.3	243.0	141.2	1 769.6	3.6
Company-owned maintenance facility	404.6	S	7.1	S	221.0	27.0
General repair business or private mechanic	1 742.6	1 448.4	31.6	12.3	250.2	18.2
Dealership service department	1 688.7	1 383.1	31.5	15.4	258.7	17.1
Leasing company	S	V	V	S	S	S
Component distributorship (engine, transmission, body, etc.)	S	S	V	V	28.8	S
Individual not employed/paid by any repair type facility	1 207.8	1 023.2	S	S	78.1	23.7
Other	V	V	V	V	V	N
Not reported	S	S	V	V	V	S
Not applicable ²	S	S	S	S	S	S
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	20 244.5	19 411.2	308.8	172.8	351.6	3.2
2 axles	19 970.1	19 411.2	303.9	168.1	86.9	3.2
3 axles	162.3	V	4.9	4.7	152.6	10.0
4 axles	77.4	V	V	V	77.4	15.8
5 axles or more	34.4	V	V	V	34.4	22.7
Not reported	S	S	V	V	S	S
Combinations	2 814.3	494.3	S	15.4	2 184.6	7.0
Single-unit trucks with trailer	701.0	494.3	S	14.9	71.8	25.4
3 axles	313.0	290.3	S	S	S	35.8
4 axles	338.9	S	S	S	S	41.3
5 axles or more	49.0	V	S	S	44.9	23.7
Not reported	V	V	V	V	V	N
Truck-tractors with single trailer	2 084.6	V	V	S	2 084.1	4.0
3 axles	11.7	V	V	V	11.7	42.0
4 axles	68.6	V	V	S	68.2	22.7
5 axles or more	2 002.7	V	V	V	2 002.7	4.2
Not reported	S	V	V	V	S	S
Truck-tractors with double trailers	S	V	V	V	S	S
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	V	V	V	V	V	N
Not reported	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
TRUCK TYPE AND AXLE ARRANGEMENT—Con.						
Combinations—Con.						
Truck-tractors with triple trailers	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	8 030.5	7 349.5	270.0	179.4	231.6	7.2
2	15 014.4	12 556.0	S	8.8	2 290.7	4.3
3 or more	12.0	V	V	V	12.0	30.7
Not reported	S	S	V	V	S	S
Total liftable axles and locations ¹² :						
None	2 974.9	115.4	315.9	185.3	2 358.3	3.0
1	140.2	V	S	S	137.7	13.1
Forward of the drive axle	73.0	V	V	V	73.0	17.0
Below the chassis	35.2	V	S	S	32.7	26.6
Beyond the chassis	S	V	V	V	S	S
Not reported	23.4	V	V	V	23.4	34.8
2 or more	36.6	V	V	V	36.6	22.1
Forward of the drive axle	36.6	V	V	V	36.6	22.1
Below the chassis	15.4	V	V	V	15.4	40.3
Beyond the chassis	14.4	V	V	V	14.4	27.5
Not reported	V	V	V	V	V	N
Not reported	5.3	V	S	S	3.6	41.1
Not applicable ¹⁰	19 901.8	19 790.1	S	V	V	3.2
Total liftable axles and number of braking axles:						
None	2 974.9	115.4	315.9	185.3	2 358.3	3.0
1	140.2	V	S	S	137.7	13.1
0 braking	10.8	V	S	V	9.8	37.8
1 braking	126.0	V	V	V	124.5	14.2
Not reported	S	V	V	V	S	S
2 or more	36.6	V	V	V	36.6	22.1
0 braking	V	V	V	V	V	N
1 braking	S	V	V	V	S	S
2 or more braking	36.4	V	V	V	36.4	22.2
Not reported	V	V	V	V	V	N
Not reported	5.3	V	S	S	3.6	41.1
Not applicable ¹⁰	19 901.8	19 790.1	S	V	V	3.2
CAB TYPE						
Conventional cab	2 923.3	98.2	274.6	170.5	2 379.9	3.0
With sleeper	1 452.5	V	V	V	1 452.5	5.7
Without sleeper	1 390.5	98.2	274.6	170.5	847.2	4.0
Not reported	80.3	V	V	V	80.3	26.2
Cab over engine	206.7	S	34.3	16.3	153.2	13.4
With sleeper	79.3	V	V	V	79.3	27.5
Without sleeper	109.3	S	34.3	16.3	55.8	13.4
Not reported	S	V	V	V	S	S
Cab forward of engine	20.7	S	S	S	S	40.4
Cab beside engine	S	S	S	V	V	S
Not reported	S	V	V	V	S	S
Not applicable ¹⁰	19 901.8	19 790.1	S	V	V	3.2

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

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

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

³Truck-tractors not in use.

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

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

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

⁷Distributed miles data are available in Table 8.

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

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

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

¹¹Data were derived from administrative records.

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

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

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

Table 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	23 058.7	20 244.5	2 814.3	701.0	2 084.6	S	V	X
Coefficient of variation (percent)	2.8	3.2	7.0	25.4	4.0	S	N	X
BUSINESS¹								
For-hire transportation or warehousing	1 638.2	S	1 341.8	S	1 305.6	S	V	13.6
Vehicle leasing or rental	199.6	88.7	110.9	V	110.9	V	V	23.6
Agriculture, forestry, fishing, or hunting	681.0	469.3	211.8	5.3	206.4	V	V	17.8
Mining	27.5	11.9	S	S	S	V	V	34.4
Utilities	43.2	33.0	S	S	S	V	V	23.7
Construction	2 212.6	1 863.1	349.4	267.3	82.1	V	V	16.7
Manufacturing	273.2	166.2	107.0	S	101.6	V	V	28.0
Wholesale trade	275.9	S	98.2	S	87.0	V	V	43.6
Retail trade	415.0	368.6	46.4	S	43.0	V	V	34.7
Information services	S	S	S	S	V	V	V	S
Waste management, landscaping, or administrative/support services	S	S	16.7	14.3	S	V	V	S
Arts, entertainment, or recreation services	S	S	S	S	S	V	V	S
Accommodation or food services	S	S	41.9	V	41.9	V	V	S
Other services	445.4	436.7	S	V	S	V	V	33.2
Personal transportation	15 909.6	15 544.9	364.7	364.7	V	V	V	3.7
Not reported	258.2	S	89.6	S	77.0	S	V	42.0
Not applicable ²	S	S	V	V	V	V	V	S
BODY TYPE								
Single-unit trucks	20 945.4	20 244.5	701.0	701.0	N	N	N	3.0
Pickup	8 618.3	8 115.7	502.6	502.6	N	N	N	5.3
Minivan	3 755.2	3 686.2	S	S	N	N	N	11.9
Other light vans	1 134.6	1 109.4	S	S	N	N	N	23.6
Sport utility	6 393.7	6 393.7	V	V	N	N	N	6.7
Armored	S	S	V	V	N	N	N	S
Beverage	15.9	15.9	V	V	N	N	N	44.1
Concrete mixer	23.7	23.7	V	V	N	N	N	20.5
Concrete pumper	S	S	V	V	N	N	N	S
Crane	S	S	V	V	N	N	N	S
Curtainside	V	V	V	V	N	N	N	N
Dump	158.7	130.6	28.1	28.1	N	N	N	9.9
Flatbed, stake, or platform	175.9	131.5	44.4	44.4	N	N	N	10.6
Low boy	S	S	S	S	N	N	N	S
Pole, logging, pulpwood, or pipe	S	S	S	S	N	N	N	S
Service, utility	27.8	25.5	S	S	N	N	N	29.5
Service, other	70.2	67.9	S	S	N	N	N	20.0
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk	10.7	10.0	S	S	N	N	N	33.6
Tank, liquids or gases	56.6	52.9	S	S	N	N	N	20.5
Tow/Wrecker	38.4	38.4	V	V	N	N	N	26.3
Trash, garbage, or recycling	80.2	79.4	S	S	N	N	N	17.7
Vacuum	2.7	2.7	V	V	N	N	N	44.7
Van, basic enclosed	187.9	167.2	S	S	N	N	N	13.4
Van, insulated nonrefrigerated	S	S	S	S	N	N	N	S
Van, insulated refrigerated	42.1	42.1	V	V	N	N	N	26.7
Van, open top	22.2	22.1	S	S	N	N	N	15.6
Van, step, walk-in, or multistop	85.6	85.5	S	S	N	N	N	16.2
Van, other	22.1	22.1	V	V	N	N	N	32.0
Other	S	S	V	V	N	N	N	S
Truck-tractors	2 113.3	V	2 113.3	N	2 084.6	S	V	4.0
Automobile carrier	S	N	S	N	S	V	V	S
Beverage	5.7	N	5.7	N	5.7	V	V	44.0
Curtainside	S	N	S	N	S	V	V	S
Dump	150.2	N	150.2	N	150.2	V	V	16.0
Flatbed, stake, or platform	320.5	N	320.5	N	320.5	V	V	12.7
Livestock	42.1	N	42.1	N	42.1	V	V	40.8
Low boy	43.7	N	43.7	N	43.7	V	V	30.6
Mobile home toter	S	N	S	N	S	V	V	S
Open top	108.7	N	108.7	N	108.7	V	V	21.1
Pole, logging, pulpwood, or pipe	31.3	N	31.3	N	31.3	V	V	33.4
Tank, dry bulk	37.0	N	37.0	N	37.0	V	V	35.5
Tank, liquids or gases	110.2	N	110.2	N	110.2	V	V	21.3
Van, basic enclosed	796.2	N	796.2	N	770.5	S	V	8.2
Van, drop-frame	25.3	N	25.3	N	25.3	V	V	41.3
Van, insulated nonrefrigerated	43.8	N	43.8	N	43.8	V	V	39.9
Van, insulated refrigerated	338.2	N	338.2	N	335.3	S	V	13.6
Other	S	N	S	N	S	V	V	S
Not applicable ³	V	V	V	N	V	V	V	N
ANNUAL MILES								
Less than 5,000	560.8	500.6	60.2	49.4	10.8	V	V	12.1
5,000 to 9,999	2 559.3	2 408.9	150.4	134.4	16.0	V	V	8.2
10,000 to 19,999	9 897.6	9 786.2	111.4	S	27.5	V	V	4.9
20,000 to 29,999	4 591.5	4 269.8	321.7	275.8	44.4	S	V	11.3
30,000 to 49,999	2 524.2	2 272.0	252.1	S	130.6	S	V	18.5
50,000 to 74,999	1 266.1	960.6	305.5	20.8	284.7	V	V	31.5
75,000 or more	1 622.0	S	1 613.0	S	1 570.6	S	V	5.5
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
PRIMARY RANGE OF OPERATION								
Off-the-road	300.1	S	S	S	S	V	V	47.9
50 miles or less	15 786.3	15 149.7	636.6	425.8	209.3	S	V	3.8
51 to 100 miles	2 667.0	2 273.2	393.7	S	283.5	V	V	15.5
101 to 200 miles	984.7	739.4	245.3	S	224.9	V	V	30.5
201 to 500 miles	605.3	313.2	292.1	S	263.1	S	V	23.9
501 miles or more	1 336.3	413.1	923.3	V	911.1	S	V	10.9
Not reported	1 341.7	1 129.5	212.2	S	176.7	V	V	15.9
Not applicable ²	S	S	V	V	V	V	V	S
PRIMARY JURISDICTION								
Operated in Canada	V	V	V	V	V	V	V	N
Operated in Mexico	V	V	V	V	V	V	V	N
Operated within the home base state	20 453.5	18 970.2	1 483.3	680.4	786.3	S	V	3.2
Operated in states other than the home base state	1 326.5	220.9	1 105.6	S	1 076.8	S	V	8.9
Not reported	1 241.5	1 016.1	225.4	S	221.6	V	V	17.4
Not applicable ²	S	S	V	V	V	V	V	S
MONTHS OPERATED								
12	17 170.3	15 266.9	1 903.4	411.8	1 465.8	S	V	3.8
7 to 11	4 623.0	3 920.6	702.4	249.9	449.6	S	V	10.8
2 to 6	1 181.4	982.9	198.5	39.1	159.5	V	V	14.3
1 or less	46.7	S	S	S	S	V	V	44.1
Vehicle not used	S	S	V	V	V	V	V	S
VEHICLE SIZE								
Light	19 905.5	19 411.2	494.3	494.3	V	V	V	3.2
Medium	428.8	308.8	S	S	V	V	V	23.1
Light-heavy	188.2	172.8	15.4	14.9	S	V	V	11.0
Heavy-heavy	2 536.2	351.6	2 184.6	71.8	2 084.1	S	V	3.4
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	14 096.0	14 096.0	V	V	V	V	V	4.5
6,001 to 8,500	4 829.7	4 435.0	394.7	394.7	V	V	V	10.1
8,501 to 10,000	S	880.2	S	S	V	V	V	27.9
10,001 to 14,000	282.5	173.0	S	S	V	V	V	34.6
14,001 to 16,000	82.3	77.7	4.5	4.5	V	V	V	16.4
16,001 to 19,500	64.0	58.1	S	S	V	V	V	19.8
19,501 to 26,000	188.2	172.8	15.4	14.9	S	V	V	11.0
26,001 to 33,000	159.3	88.4	70.9	S	56.6	V	V	16.7
33,001 to 40,000	162.6	43.8	118.8	S	107.6	V	V	16.1
40,001 to 50,000	228.6	79.1	149.5	S	140.9	V	V	14.7
50,001 to 60,000	252.0	98.1	153.9	S	142.5	S	V	11.4
60,001 to 80,000	1 689.7	42.3	1 647.4	26.7	1 596.4	S	V	4.9
80,001 to 100,000	40.8	V	40.8	S	36.9	V	V	27.7
100,001 to 130,000	V	V	V	V	V	V	V	N
130,001 or more	S	V	S	V	S	V	V	S
TOTAL LENGTH (FEET)								
Less than 20.0	17 281.5	17 281.5	V	V	V	V	V	3.9
20.0 to 27.9	2 868.8	2 514.0	354.8	354.8	V	V	V	11.8
28.0 to 35.9	478.2	361.8	116.4	115.2	S	V	V	24.0
36.0 to 40.9	328.1	73.6	254.5	S	86.7	V	V	31.8
41.0 to 44.9	44.7	13.6	31.1	S	26.7	V	V	27.9
45.0 to 49.9	63.5	V	63.5	S	50.2	V	V	22.3
50.0 to 54.9	114.2	V	114.2	14.4	99.9	V	V	18.7
55.0 to 59.9	218.4	V	218.4	S	204.9	V	V	13.9
60.0 to 64.9	469.1	V	469.1	7.2	461.9	V	V	9.8
65.0 to 69.9	574.6	V	574.6	S	567.2	S	V	10.3
70.0 to 74.9	528.1	V	528.1	V	514.5	S	V	10.9
75.0 to 79.9	73.8	V	73.8	S	67.8	V	V	27.7
80.0 or more	S	V	S	V	S	S	V	S
MILES PER GALLON								
Less than 5	289.1	97.5	191.5	11.7	179.8	V	V	11.2
5 to 6.9	1 925.7	208.2	1 717.5	24.3	1 664.5	S	V	4.4
7 to 8.9	423.5	310.1	113.5	22.5	91.0	V	V	21.7
9 to 10.9	1 490.9	1 323.9	S	S	S	V	V	21.6
11 to 12.9	1 794.0	1 592.0	S	S	S	V	V	16.4
13 to 14.9	3 174.2	3 060.5	S	S	V	V	V	13.6
15 or more	12 342.8	12 205.7	S	S	V	V	V	5.1
15 to 20.9	10 330.2	10 262.2	68.0	68.0	V	V	V	6.0
21 to 24.9	1 400.7	1 331.7	S	S	V	V	V	19.5
25 or more	611.9	611.9	V	V	V	V	V	28.5
Not reported	1 581.1	1 409.3	171.9	S	142.6	V	V	13.1
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
MODEL YEAR								
2003	S	S	S	V	S	V	V	S
2002	1 858.9	1 706.6	152.4	S	81.2	V	V	19.0
2001	2 202.4	1 959.6	242.8	S	186.5	V	V	14.0
2000	2 863.3	2 370.6	492.7	12.2	480.5	V	V	12.5
1999	2 169.7	1 862.4	307.4	S	290.9	S	V	14.2
1998	1 974.8	1 811.1	163.7	S	147.7	S	V	16.2
1997	2 114.9	1 759.8	355.1	S	122.9	V	V	15.2
1996	1 321.3	1 065.3	256.0	S	208.9	S	V	16.2
1995	1 729.3	1 456.0	273.3	S	172.9	V	V	16.8
1994	1 185.7	1 101.3	84.5	S	81.9	V	V	19.3
1993	1 440.5	1 308.7	131.8	S	96.7	V	V	23.1
Pre-1993	4 183.1	3 835.6	347.5	138.7	207.4	S	V	9.6
VEHICLE ACQUISITION								
New	10 696.3	9 144.8	1 551.6	369.0	1 174.7	S	V	5.7
Used	11 183.2	10 081.9	1 101.3	260.0	826.3	S	V	5.5
Not reported	1 179.2	1 017.8	161.4	S	83.7	S	V	23.9
LEASE CHARACTERISTICS								
Leased	1 756.0	1 156.7	599.3	S	548.2	S	V	15.0
Lessee	1 160.7	852.9	307.8	S	256.7	S	V	17.2
Vehicle only	343.6	83.3	260.3	S	241.9	S	V	12.1
Vehicle with driver	V	V	V	V	V	V	V	N
Not reported	S	V	S	V	S	V	V	S
Not applicable ⁴	802.4	769.6	S	S	V	V	V	24.4
Lessor	543.0	S	286.7	V	286.7	V	V	30.9
Vehicle only	216.8	35.4	181.4	V	181.4	V	V	14.5
Vehicle with driver	93.6	V	93.6	V	93.6	V	V	26.2
Not reported	S	V	S	V	S	V	V	S
Not applicable ⁴	S	S	V	V	V	V	V	S
Not reported	S	S	S	V	S	V	V	S
Not leased	14 313.0	12 662.1	1 650.9	478.1	1 168.4	S	V	4.9
Not reported	6 989.7	6 425.7	564.0	183.9	368.0	S	V	6.8
Length of leasing agreement:								
Leased	1 756.0	1 156.7	599.3	S	548.2	S	V	15.0
1 to 11 months	36.0	S	31.6	V	31.6	V	V	32.5
12 months or more	637.1	113.8	523.3	S	505.0	S	V	8.8
Not reported	S	S	S	V	S	V	V	S
Not applicable ⁴	1 070.3	1 037.5	S	S	V	V	V	24.0
Provisions of lease ⁵ :								
Financing only	419.7	86.9	332.9	S	314.5	S	V	11.0
Full maintenance	174.8	35.9	138.9	V	138.9	V	V	16.1
Payment of taxes	170.4	34.9	135.5	V	135.5	V	V	16.6
Obtaining licenses and permits	230.7	34.7	196.0	V	196.0	V	V	15.5
Recordkeeping	125.2	19.9	105.3	V	105.3	V	V	20.0
Fuel contract	90.5	S	84.8	V	84.8	V	V	25.3
PRIMARY OPERATOR CLASSIFICATION								
Private	4 698.5	3 936.6	761.9	307.7	454.2	V	V	10.1
Motor carrier	1 200.1	293.9	906.2	S	860.8	S	V	12.5
Owner operator	1 001.9	S	670.6	S	658.7	V	V	22.7
Rental	210.8	99.9	110.9	V	110.9	V	V	22.6
Personal transportation	15 910.2	15 545.6	364.7	364.7	V	V	V	3.7
Not applicable ²	S	S	V	V	V	V	V	S
For-hire characteristics:								
Type of carrier:								
Contract	844.4	56.2	788.2	S	781.0	V	V	8.0
Common	822.9	82.9	740.0	S	717.4	V	V	8.0
Not reported	78.2	29.6	48.6	S	S	S	V	26.8
Not applicable ⁶	21 313.2	20 075.8	1 237.5	672.3	565.1	V	V	3.0
Type of service:								
Truckload	1 406.2	68.5	1 337.6	S	1 328.6	V	V	5.7
Less-than truckload	259.9	69.0	190.9	S	170.1	S	V	14.5
Not reported	79.4	31.2	48.3	S	S	S	V	26.6
Not applicable ⁶	21 313.2	20 075.8	1 237.5	672.3	565.1	V	V	3.0
Source of hauls:								
Shippers or receivers	1 277.2	90.9	1 186.3	S	1 174.5	S	V	6.2
Brokers	219.5	S	214.1	V	214.1	V	V	16.4
Centralized markets or exchanges	31.9	S	26.9	V	26.9	V	V	38.3
Other	V	V	V	V	V	V	V	N
Not reported	216.9	67.4	149.4	S	103.9	S	V	16.1
Not applicable ⁶	21 313.2	20 075.8	1 237.5	672.3	565.1	V	V	3.0
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	308.4	49.3	259.0	S	248.3	S	V	12.8
Not carrying hazardous materials	2 422.5	747.0	1 675.5	90.6	1 569.8	S	V	3.5
Not reported	251.0	78.9	172.1	S	155.6	S	V	13.5
Not applicable ⁸	20 076.8	19 369.2	707.7	596.8	110.9	V	V	3.1
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	23.8	19.8	S	S	V	V	V	29.8
Air bag(s) (safety device only)	14 493.0	13 836.1	656.9	464.6	185.8	V	V	4.6
Air compressor (except air brakes)	353.5	70.1	283.4	S	275.2	V	V	12.4
Air-conditioning	19 951.0	17 309.1	2 641.9	639.6	1 975.1	S	V	3.4
Air springs	1 281.1	55.4	1 225.7	S	1 189.9	S	V	6.0

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type						Coefficient of variation of total (percent)	
	Total	Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
EQUIPMENT TYPE^{5 9}—Con.								
Antilock brake system	15 668.7	13 944.9	1 723.8	465.1	1 249.2	S	V	4.3
Collision warning system	S	S	S	V	S	V	V	S
Computerized drive train control unit	3 945.0	3 647.4	297.6	S	130.2	V	V	11.1
Crane	42.6	30.0	12.6	12.3	S	V	V	22.9
Electronic vehicle identification device	109.4	S	104.8	S	102.8	V	V	25.7
Engine retarder/brake	1 621.9	88.1	1 533.8	20.2	1 498.5	S	V	5.1
Front-wheel drive	12 657.6	12 076.7	580.9	580.9	V	V	V	5.1
Hoist	228.3	197.3	31.0	31.0	V	V	V	8.7
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	208.5	24.1	184.4	V	184.4	V	V	16.9
Internet access	S	V	S	V	S	V	V	S
Lift gate	112.0	112.0	V	V	V	V	V	15.7
Mounting bar for snowplow	S	S	S	S	V	V	V	S
Navigational system	27.6	S	S	S	S	V	V	49.4
Power take-off	713.3	353.7	359.6	46.3	313.3	V	V	6.2
Radial tires	16 711.1	14 269.9	2 441.1	611.3	1 801.1	S	V	4.1
Reflective material in addition to those required by law	615.9	160.1	455.8	21.7	434.1	V	V	8.5
Road speed governor	1 386.8	162.0	1 224.8	36.5	1 159.6	S	V	5.6
Toolbox	2 223.9	1 557.1	666.8	S	479.2	S	V	15.7
Trip recorder or on-board computer with communication capabilities	1 280.3	1 005.6	274.6	S	207.7	V	V	18.1
Trip recorder or on-board computer without communication capabilities	5 315.3	4 864.5	450.8	157.9	292.9	V	V	9.5
Vehicle control aids for handicapped drivers	S	S	V	V	V	V	V	S
Wheelchair lift	S	S	V	V	V	V	V	S
Winch	62.9	62.3	S	S	V	V	V	19.2
Transmission type:								
Automatic	17 969.7	17 361.7	608.0	587.7	S	V	V	3.5
Manual	4 438.8	2 436.4	2 002.4	111.2	1 862.6	S	V	8.4
Semiautomated manual	S	S	S	V	S	V	V	S
Automated manual	66.1	S	65.9	S	63.9	V	V	34.6
Not reported	535.1	409.3	125.8	V	125.8	V	V	24.8
Braking system:								
Hydraulic (standard)	332.7	286.9	45.8	28.7	17.1	V	V	8.0
Hydraulic with power assist	240.7	228.8	S	6.8	S	V	V	9.3
Air	2 412.7	378.3	2 034.4	64.3	1 941.4	S	V	3.6
Other	V	V	V	V	V	V	V	N
Not reported	170.9	45.5	125.4	S	121.1	V	V	16.0
Not applicable ¹⁰	19 901.8	19 305.0	596.8	596.8	V	V	V	3.2
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	18 868.4	18 394.0	474.4	474.4	V	V	V	3.3
Diesel	3 864.6	1 524.7	2 339.9	226.6	2 084.6	S	V	7.7
Natural gas	S	S	V	V	V	V	V	S
Propane	S	S	V	V	V	V	V	S
Alcohol fuels	210.3	210.3	V	V	V	V	V	48.1
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	S	S	V	V	V	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
Cylinders¹¹:								
4 cylinders	1 548.3	1 532.4	S	S	V	V	V	16.8
6 cylinders	11 891.8	9 623.7	2 268.2	192.5	2 047.0	S	V	5.0
8 cylinders	9 438.4	8 978.4	459.9	454.5	S	V	V	6.4
Other	180.3	109.9	70.3	S	32.2	V	V	32.3
Cubic inch displacement¹¹:								
Gasoline fuel								
Less than 200	3 712.7	3 684.2	S	S	V	V	V	11.9
200 to 299	7 552.9	7 458.7	S	S	V	V	V	7.1
300 to 349	4 026.6	3 991.7	S	S	V	V	V	10.8
350 to 399	3 326.6	3 052.6	274.0	274.0	V	V	V	12.5
400 or more	209.6	167.6	S	S	V	V	V	30.9
Not available	40.0	39.2	S	S	V	V	V	25.8
Diesel fuel								
Less than 400	3 864.6	1 524.7	2 339.9	226.6	2 084.6	S	V	7.7
400 to 599	425.5	418.2	S	S	V	V	V	26.4
600 to 799	1 097.5	901.6	195.9	S	18.9	S	V	24.1
800 or more	1 137.3	144.6	992.7	25.6	954.9	S	V	6.0
Not available	870.7	27.8	842.8	17.2	822.7	S	V	7.2
Other fuel	333.6	32.5	301.2	S	288.1	S	V	13.7
Less than 400	250.8	250.8	V	V	V	V	V	41.4
400 or more	241.4	241.4	V	V	V	V	V	43.0
Not available	S	S	V	V	V	V	V	S
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
REFUELING LOCATION								
Gas station	19 751.6	19 012.1	739.5	544.7	194.9	V	V	3.3
Truck stop	1 610.3	224.1	1 386.2	18.7	1 352.4	S	V	7.0
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	1 178.1	554.7	623.4	S	476.0	S	V	13.4
Other company's/contractor's facility not open to the public	110.8	S	50.0	V	50.0	V	V	38.0
Other	V	V	V	V	V	V	V	N
Not reported	370.6	355.5	S	S	S	V	V	30.7
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type						Coefficient of variation of total (percent)	
	Total	Single-unit trucks and truck-tractors without trailer	Combination			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	192.9	190.4	S	S	S	V	V	40.5
Company-owned maintenance facility	2 699.5	1 562.5	1 137.0	57.1	1 067.7	S	V	9.9
General repair business or private mechanic	9 466.9	8 405.0	1 061.9	299.6	748.7	S	V	6.4
Dealership service department	6 963.9	6 279.2	684.6	S	489.3	S	V	7.2
Leasing company	144.6	S	111.6	S	78.8	V	V	34.1
Individual not employed/paid by any maintenance type facility	9 025.6	8 303.8	721.7	253.2	468.5	V	V	7.0
Other	V	V	V	V	V	V	V	N
Not reported	337.0	322.0	S	S	S	V	V	32.4
Not applicable ²	S	S	V	V	V	V	V	S
Extensive repairs performed by:								
None performed	17 852.1	15 966.4	1 885.6	421.5	1 447.5	S	V	3.6
Company-owned maintenance facility	404.6	235.2	169.4	S	166.7	V	V	27.0
General repair business or private mechanic	1 742.6	1 422.2	320.4	S	210.4	V	V	18.2
Dealership service department	1 688.7	1 380.6	308.1	S	235.7	S	V	17.1
Leasing company	S	S	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)	S	S	25.4	S	23.1	V	V	S
Individual not employed/paid by any repair type facility	1 207.8	1 037.7	S	S	67.2	V	V	23.7
Other	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
AXLE ARRANGEMENT								
Driving axles:								
1	8 030.5	7 863.7	166.8	70.9	82.3	S	V	7.2
2	15 014.4	12 371.3	2 643.0	627.6	2 000.4	S	V	4.3
3 or more	12.0	9.1	S	S	S	V	V	30.7
Not reported	S	S	S	V	S	V	V	S
Total liftable axles and locations ¹² :								
None	2 974.9	796.8	2 178.1	79.5	2 069.8	S	V	3.0
1	140.2	104.5	35.7	22.4	13.2	V	V	13.1
Forward of the drive axle	73.0	54.7	18.2	15.8	S	V	V	17.0
Below the chassis	35.2	28.9	S	S	V	V	V	26.6
Beyond the chassis	S	S	V	V	V	V	V	S
Not reported	23.4	12.4	S	S	S	V	V	34.8
2 or more	36.6	34.4	S	S	V	V	V	22.1
Forward of the drive axle	36.6	34.4	S	S	V	V	V	22.1
Below the chassis	15.4	13.2	S	S	V	V	V	40.3
Beyond the chassis	14.4	14.4	V	V	V	V	V	27.5
Not reported	V	V	V	V	V	V	V	N
Not reported	5.3	3.8	S	V	S	V	V	41.1
Not applicable ¹⁰	19 901.8	19 305.0	596.8	596.8	V	V	V	3.2
Total liftable axles and number of braking axles:								
None	2 974.9	796.8	2 178.1	79.5	2 069.8	S	V	3.0
1	140.2	104.5	35.7	22.4	13.2	V	V	13.1
0 braking	10.8	10.3	S	S	S	V	V	37.8
1 braking	126.0	90.8	35.1	22.2	13.0	V	V	14.2
Not reported	S	S	V	V	V	V	V	S
2 or more	36.6	34.4	S	S	V	V	V	22.1
0 braking	V	V	V	V	V	V	V	N
1 braking	S	S	V	V	V	V	V	S
2 or more braking	36.4	34.2	S	S	V	V	V	22.2
Not reported	V	V	V	V	V	V	V	N
Not reported	5.3	3.8	S	V	S	V	V	41.1
Not applicable ¹⁰	19 901.8	19 305.0	596.8	596.8	V	V	V	3.2
CAB TYPE								
Conventional cab								
With sleeper	2 923.3	818.6	2 104.7	102.3	1 973.7	S	V	3.0
Without sleeper	1 452.5	V	1 452.5	V	1 437.4	S	V	5.7
Not reported	1 390.5	818.6	571.9	102.3	455.9	S	V	4.0
Not applicable ¹⁰	80.3	V	80.3	V	80.3	V	V	26.2
Cab over engine								
With sleeper	206.7	94.3	112.4	S	111.0	V	V	13.4
Without sleeper	79.3	V	79.3	V	79.3	V	V	27.5
Not reported	109.3	94.3	S	S	S	V	V	13.4
Not applicable ¹⁰	S	V	S	V	S	V	V	S
Cab forward of engine								
Cab beside engine	20.7	20.7	V	V	V	V	V	40.4
Not reported	S	S	V	V	V	V	V	S
Not applicable ¹⁰	S	S	S	S	V	V	V	S
Not applicable ¹⁰	19 901.8	19 305.0	596.8	596.8	V	V	V	3.2

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

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

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

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

Table 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	23 058.7	3 157.0	2.8	2.8	2.8	2.8
TRAILER CONFIGURATION						
No trailer pulled	19 687.0	961.0	3.1	3.8	3.1	3.8
Single trailer pulled	3 306.9	2 165.7	5.1	3.9	S	S
Double trailers pulled	S	S	S	S	S	S
Triple trailers pulled	V	V	N	N	N	N
Not applicable ¹	S	2.8	S	46.1	S	46.1
RANGE OF OPERATION						
Off-the-road	383.9	41.8	28.9	29.3	28.9	29.3
50 miles or less	13 423.1	856.0	3.6	3.9	3.6	3.9
51 to 100 miles	3 382.8	494.5	9.3	6.7	9.3	6.7
101 to 200 miles	1 832.5	338.6	14.7	9.9	14.7	9.9
201 to 500 miles	1 225.3	348.3	11.5	9.5	11.5	9.5
501 miles or more	1 432.1	839.1	8.8	7.9	8.8	7.9
Not reported	1 341.7	235.9	15.9	13.9	15.9	13.9
Not applicable ¹	S	2.8	S	46.1	S	46.1
JURISDICTION						
Operated in Canada	29.8	7.7	29.0	26.5	29.0	26.5
Operated in Mexico	S	S	S	S	S	S
Operated within the home base state	19 795.4	1 873.8	3.2	3.1	3.2	3.1
Operated in states other than the home base state	1 954.6	1 001.9	6.4	6.5	6.4	6.5
Not reported	1 241.5	270.5	17.4	13.7	17.4	13.7
Not applicable ¹	S	2.8	S	46.1	S	46.1
OPERATOR CLASSIFICATION						
Private	5 003.9	1 230.0	9.0	4.2	9.0	4.2
Motor carrier	1 180.6	1 026.4	11.2	7.1	11.2	7.1
Owner operator	960.3	719.8	19.9	8.4	19.9	8.4
Rental	211.1	154.3	22.6	16.5	22.6	16.5
Personal transportation	15 665.5	23.7	3.5	27.2	3.5	27.2
Not applicable ¹	S	2.8	S	46.1	S	46.1
For-hire characteristics:						
Type of carrier:						
Contract	820.4	820.4	7.8	7.8	7.8	7.8
Common	846.9	846.9	7.5	7.5	7.5	7.5
Not reported	78.2	78.2	26.8	26.8	26.8	26.8
Not applicable ^{2 3}	21 313.2	1 411.4	3.0	4.0	3.0	4.0
Type of service:						
Truckload	305.0	305.0	11.3	11.3	11.3	11.3
Less-than truckload	1 361.1	1 361.1	5.6	5.6	5.6	5.6
Not reported	79.4	79.4	26.6	26.6	26.6	26.6
Not applicable ^{2 3}	21 313.2	1 411.4	3.0	4.0	3.0	4.0
PRODUCTS CARRIED⁴						
Animals and fish, live	S	36.2	S	36.3	S	36.3
Animal feed and products of animal origin	125.8	67.0	37.1	19.9	37.1	19.9
Grains, cereal	95.5	90.0	15.2	14.9	15.2	14.9
All other agricultural products	85.8	56.9	23.9	21.5	23.9	21.5
Basic chemicals	25.2	8.5	49.3	44.5	49.3	44.5
Fertilizers and fertilizer materials	21.0	19.5	23.7	25.0	23.7	25.0
Pharmaceutical products	S	S	S	S	S	S
All other chemical products and preparations	S	11.8	S	40.0	S	40.0
Alcoholic beverages	49.9	24.8	49.1	28.4	49.1	28.4
Bakery and milled grain products	96.7	63.3	36.6	18.8	36.6	18.8
Meat, seafood, and their preparations	127.8	114.2	18.9	17.7	18.9	17.7
Tobacco products	S	S	S	S	S	S
All other prepared foodstuffs	226.0	192.6	18.4	12.9	18.4	12.9
Logs and other wood in the rough	50.5	44.8	29.2	30.3	29.2	30.3
Paper or paperboard articles	39.2	39.2	25.2	25.2	25.2	25.2
Printed products	147.6	38.1	48.0	24.7	48.0	24.7
Pulp, newsprint, paper, and paperboard	40.8	40.8	25.5	25.5	25.5	25.5
Wood products	188.6	112.0	23.4	14.8	23.4	14.8
Articles of base metal	406.6	109.4	28.0	18.9	28.0	18.9
Base metal in primary or semifinished forms	140.7	66.9	33.1	22.5	33.1	22.5
Nonmetallic mineral products	272.6	71.2	42.5	16.8	42.5	16.8
Tools, nonpowered	1 227.4	191.4	22.5	12.4	22.5	12.4
Tools, powered	989.3	164.2	26.0	14.0	26.0	14.0
Electronic and other electrical equipment	265.4	45.4	35.2	22.9	35.2	22.9
Furniture, mattresses, lamps, etc.	70.9	38.2	35.7	26.9	35.7	26.9
Machinery	193.9	87.9	35.3	16.4	35.3	16.4
Miscellaneous manufactured products	201.2	65.6	41.4	19.3	41.4	19.3
Precision instruments and apparatus	S	11.8	S	36.0	S	36.0
Textile, leather, and related articles	18.7	18.7	39.3	39.3	39.3	39.3
Vehicles, including parts	170.3	72.1	36.6	21.3	36.6	21.3
All other transportation equipment	24.5	24.5	45.3	45.3	45.3	45.3
Coal	S	S	S	S	S	S
Crude petroleum	S	S	S	S	S	S
Gravel or crushed stone	94.1	88.6	13.5	13.2	13.5	13.2
Metallic ores and concentrates	S	S	S	S	S	S
Monumental or building stone	S	48.6	S	30.1	S	30.1
Natural sands	27.7	27.6	23.0	23.0	23.0	23.0
All other nonmetallic minerals	17.1	17.1	42.2	42.3	42.2	42.3
Fuel oils	31.7	25.3	28.0	24.6	28.0	24.6
Gasoline and aviation turbine fuel	24.9	24.9	28.2	28.2	28.2	28.2

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	35.7	26.8	32.9	28.8
All other coal and refined petroleum products	33.0	33.0	26.2	26.2
Hazardous waste (EPA manifest)	1.1	1.1	42.5	42.5
All other waste and scrap (non-EPA manifest)	66.8	56.0	20.0	16.7
Recyclable products	52.4	43.3	23.2	19.3
Mail and courier parcels	99.6	85.1	29.3	31.9
Empty shipping containers	19.5	19.5	30.7	30.7
Passengers	48.1	12.6	46.2	42.4
Mixed freight	180.2	180.2	15.9	15.9
Products, equipment, or materials not elsewhere classified	1.5	1.5	41.6	41.6
Products not specified	434.9	211.6	35.4	13.6
Not applicable ¹	S	2.8	S	46.1
HAZARDOUS MATERIALS CARRIED⁴				
Division 1.1, Explosives	S	S	S	S
Division 1.2, Explosives	S	S	S	S
Division 1.3, Explosives	S	S	S	S
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	35.3	35.3	23.5	23.5
Division 2.2, Nonflammable gas	21.5	21.5	31.0	31.0
Division 2.3, Poison gas	S	S	S	S
Class 3, Flammable	39.2	39.2	25.1	25.1
Combustible liquid	8.3	8.3	42.1	42.1
Oxygen 2, Oxygen	S	S	S	S
Division 4.1, Flammable solid	1.2	1.2	40.9	40.9
Division 4.2, Spontaneously combustible	S	S	S	S
Division 4.3, Dangerous when wet	S	S	S	S
Division 5.1, Oxidizer	2.8	2.8	35.3	35.3
Division 5.2, Organic peroxide	S	S	S	S
Division 6.1, Poison inhalation hazard	S	S	S	S
Division 6.1, Poison	1.1	1.1	40.7	40.7
Class 7, Radioactive	S	S	S	S
Class 8, Corrosive	11.8	11.8	36.8	36.8
Class 9	2.2	2.2	49.4	49.4
Hazardous materials not specified	2.1	2.1	45.8	45.8
Not applicable ¹	S	2.8	S	46.1

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

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

