

Indiana: 2002

Issued December 2004

EC02TV-IN(RV)

2002 Economic Census

Vehicle Inventory and Use Survey

Geographic Area Series



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ACKNOWLEDGMENTS

Many persons participated in the various activities of the 2002 Economic Census, Vehicle Inventory and Use Survey.

This report was prepared in the Service Sector Statistics Division under the direction of **Thomas E. Zabelsky**, Assistant Division Chief for Current Service and Transportation Programs. Planning, implementation, and compiling of this report were directed by **John P. Miller**, Chief, Transportation Characteristics Branch, assisted by **Joy P. Pierson**, **Donald F. Cheza**, **William J. Marshall**, **Erika McDonald**, **Vernetta N. Southerland**, **Kathleen R. Walsh** and **William C. Jones**.

Sample design and statistical methodology were provided under the direction of **Ruth E. Detlefsen**, Assistant Division Chief for Research and Methodology. Sample design and estimation methods were developed under the supervision of **Jock Black**, Chief, Program Research and Development Branch, assisted by **William C. Davie Jr.**, **M. Cristina Cruz**, and **Brett Moore**. The imputation procedures were developed under the supervision of **Carol S. King**, Chief, Statistical Methods Branch, assisted by **James N. Burton** and **Tameka Johnson**.

Systems and procedures for mailout, quality control, and check-in operations were developed in the Economic Planning and Coordination Division, **Bernard J. Fitzpatrick**, Assistant Division Chief for Collection Activities. Mailout and check-in procedures were developed under the supervision of **Sheila Proudfoot**, Chief, Mailout and Data Capture Branch, assisted by **Christopher Berbert**, **Betty McKay**, and **Bernadette Gray**.

Systems and procedures for data entry and quality control were developed and implemented in the Decennial Systems and Contracts Management Office under the direction of **Dennis Stoudt**, Assistant Division Chief for Processing Systems. The Data Conversion Systems Branch, **Warren McKay**, Chief, was responsible for the development and implementation of the automated tracking and image management system. The Processing Coordination and Requirements Branch, **Derrell Matthews**, Chief, coordinated the technical requirements for the image system.

The processing system and computer programs were developed and implemented in the Economic Statistical Methods and Programming Division, under the direction of **Barry F. Sessamen**, Assistant Division Chief for Post Collection. Computer programming and implementation were provided by **Steven G. McCraith**, Chief, Census Related Surveys Branch, assisted by **Barbara Love Lambert**, **Evelyn Cabrera**, **Preet Toor**, and **Eric M. Weiss**.

The Systems Support Division provided the table composition system. **Robert Joseph Brown**, Table Image Processing System (TIPS) Senior Software Engineer, was responsible for the design and development of the TIPS, under the supervision of **Robert J. Bateman**, Assistant Division Chief, Information Systems.

Margaret A. Smith of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, provided publications and printing management, graphics design and composition, and editorial review for print and electronic media. General direction and production management were provided by **James R. Clark**, Assistant Chief, and **Susan L. Rappa**, Chief, Publications Services Branch.

The staff of the National Processing Center, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, telephone operations, and data entry assisted by **Carlene Bottorff**, **Karen S. Blessett**, **Sandra Hurst**, and **Debbie Woods**.

Special acknowledgment is also due to the many respondents whose cooperation contributed to the publication of these data.

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2002 Economic Census
Vehicle Inventory and Use Survey
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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 Indiana is 2,751 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 Indiana, approximately 81.5 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 to create new estimates should cite the Census Bureau as the source of only the original 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	13.5	13.5	14.3	16.6
Agriculture, forestry, fishing, or hunting	2.7	6.1	8.3	8.9	3 to 4 years old	14.2	14.8	15.1	17.0
Mining	S	S	.1	.2	Over 4 years old	72.2	71.6	70.6	66.4
Construction	4.7	8.1	9.4	8.7	VEHICLE ACQUISITION				
Manufacturing	1.0	1.4	2.8	1.8	New	33.3	34.9	41.9	44.8
Wholesale and retail trade	3.0	2.9	5.0	5.8	Used	61.3	59.1	54.3	52.3
For-hire transportation or warehousing	2.2	2.0	2.3	3.3	Not reported ⁴	5.4	6.0	3.9	2.9
Utilities and all services	2.2	6.2	4.6	4.7	TRUCK TYPE				
Personal transportation	78.8	71.2	66.5	66.3	Single-unit trucks ⁵	94.7	96.0	94.8	95.7
Other, not reported, and not applicable	5.0	1.9	1.1	.4	2 axles	94.0	95.0	94.0	94.7
BODY TYPE					3 axles or more	V	N	N	N
Pickup, minivan, other light vans, and sport utility	91.3	90.6	89.3	86.3	Trailer/axles not specified				
Flatbed, stake, platform, and low boy	1.6	2.5	3.7	4.8	Combinations	5.3	4.0	5.2	4.3
Van ²	3.3	2.3	2.7	2.9	3 axles	1.1	.3	.8	.5
Service, utility .....	.2	.2	.1	.3	4 axles	1.8	1.3	1.8	.8
Van, step, walk-in, or multistop .....	.7	.9	.9	1.0	5 axles or more	2.2	2.5	2.5	2.9
Dump	1.5	1.1	1.1	1.3	Trailer/axles not specified .....	.2	V	V	V
Tank for liquids, gases, or dry bulk .....	.4	.5	.5	.6	RANGE OF OPERATION				
Other and not applicable	1.0	2.0	1.8	2.7	50 miles or less	70.3	75.6	76.6	80.0
VEHICLE SIZE					51 to 200 miles	11.9	15.9	13.3	11.2
Light	91.6	92.2	91.0	89.4	201 miles or more	3.6	5.1	4.8	4.1
Medium	2.4	2.0	2.6	2.6	Off-the-road, not reported, and not applicable	14.3	3.3	5.3	4.7
Light-heavy	1.7	1.3	1.9	2.7	FUEL TYPE				
Heavy-heavy	4.3	4.4	4.5	5.3	Gasoline	90.8	91.6	93.2	93.7
ANNUAL MILES					All other fuels	8.0	8.3	6.6	6.3
Less than 5,000 ³	20.9	17.9	21.1	25.1	Other, not reported, and not applicable	1.2	.1	.3	V
5,000 to 9,999	22.5	17.6	19.7	25.4					
10,000 to 19,999	39.6	42.9	39.0	33.4					
20,000 to 29,999	10.7	13.4	10.9	9.9					
30,000 or more	6.2	8.1	9.3	6.2					

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 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	11.7	11.0
Agriculture, forestry, fishing, or hunting	15.5	19.7	3 to 4 years old	22.0	13.4
Mining	S	.7	Over 4 years old	66.3	75.6
Construction	15.7	17.7	VEHICLE ACQUISITION		
Manufacturing	3.2	5.7	New	46.0	37.9
Wholesale and retail trade	8.1	13.3	Used	47.2	49.9
For-hire transportation or warehousing	24.8	21.1	Not reported ⁴	6.7	12.2
Utilities and all services	7.3	13.9	TRUCK TYPE		
Personal transportation	S	4.5	Single-unit trucks ⁵	63.8	66.6
Other, not reported, and not applicable	25.1	3.4	2 axles	55.6	56.0
BODY TYPE			3 axles or more	8.0	10.7
Flatbed, stake, platform, and low boy	18.5	26.1	Trailer/axles not specified .....	.1	N
Van ²	38.1	24.0	Combinations	36.2	33.4
Service, utility	2.6	2.3	3 axles	1.7	1.4
Van, step, walk-in, or multistop	8.0	9.9	4 axles	7.1	5.6
Dump	17.0	11.3	5 axles or more	25.0	26.3
Tank for liquids, gases, or dry bulk	4.1	5.3	Trailer/axles not specified	2.5	V
Other and not applicable	11.6	21.0	RANGE OF OPERATION		
VEHICLE SIZE			50 miles or less	46.6	56.0
Light	10.4	17.5	51 to 200 miles	14.1	19.3
Medium	20.6	21.0	201 miles or more	12.0	18.9
Light-heavy	19.9	14.2	Off-the-road, not reported, and not applicable	27.4	5.8
Heavy-heavy	49.1	47.3	FUEL TYPE		
ANNUAL MILES			Gasoline	38.0	38.6
Less than 5,000 ³	29.9	30.8	All other fuels	58.2	60.6
5,000 to 9,999	11.8	13.0	Other, not reported, and not applicable	3.8	.8
10,000 to 19,999	12.2	16.8			
20,000 to 29,999	12.4	8.3			
30,000 or more	33.7	31.2			

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	2 222.2	1 852.5	20.0	29 211.8	26 843.8	8.8	13.1	14.5	-9.3
BUSINESS¹									
For-hire transportation or warehousing	48.1	36.7	31.1	3 270.7	2 827.7	15.7	68.0	77.1	-11.8
Vehicle leasing or rental	33.2	11.8	180.7	1 217.2	360.0	238.1	36.6	30.4	20.5
Agriculture, forestry, fishing, or hunting	60.6	113.1	-46.4	452.6	1 001.1	-54.8	7.5	8.8	-15.6
Mining	S	S	S	S	56.2	S	S	S	S
Utilities	1.4	3.5	-60.3	10.3	54.3	-81.1	7.3	15.3	-52.4
Construction	103.4	150.6	-31.3	1 267.2	3 008.2	-57.9	12.3	20.0	-38.7
Manufacturing	23.3	26.5	-12.3	S	749.3	S	S	28.2	S
Wholesale trade	20.9	20.4	2.5	588.3	574.9	2.3	28.2	28.2	-1
Retail trade	46.0	32.9	40.1	620.0	555.8	11.5	13.5	16.9	-20.4
Information services	V	N	N	V	N	N	V	N	N
Waste management, landscaping, or administrative/support services	20.5	N	N	337.4	N	N	16.4	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	1.8	N	N	42.7	N	N	24.2	N	N
Other services	19.6	N	N	436.7	N	N	22.3	N	N
Personal transportation	1 751.2	1 318.2	32.9	19 403.8	15 903.1	22.0	11.1	12.1	-8.2
Not reported	51.4	V	N	684.0	V	N	13.3	V	N
Not applicable ²	26.5	22.7	16.6	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks	2 162.7	1 800.2	20.1	25 251.0	23 237.9	8.7	11.7	12.9	-9.6
Pickup	1 016.5	943.1	7.8	10 478.7	11 411.7	-8.2	10.3	12.1	-14.8
Minivan	322.8	301.6	7.0	4 127.7	4 365.7	-5.5	12.8	14.5	-11.6
Other light vans	127.9	157.9	-19.0	1 059.1	2 008.0	-47.3	8.3	12.7	-34.9
Sport utility	560.9	275.8	103.4	7 662.9	3 910.2	96.0	13.7	14.2	-3.6
Armored	S	N	N	S	N	N	S	N	N
Beverage	1.1	1.7	-32.0	13.9	28.1	-50.7	12.3	16.9	-27.5
Concrete mixer	1.2	1.4	-15.8	17.5	25.7	-32.1	14.9	18.4	-19.3
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane .....	.6	2.3	-72.4	S	24.6	S	S	10.7	S
Curtainside	V	N	N	V	N	N	V	N	N
Dump	28.2	17.0	66.3	274.0	214.4	27.8	9.7	12.6	-23.1
Flatbed, stake, or platform	29.3	35.1	-16.5	247.0	350.5	-29.5	8.4	10.0	-15.6
Low boy	S	1.3	S	S	7.1	S	S	5.5	S
Pole, logging, pulpwood, or pipe	S	V	S	S	V	S	S	V	S
Service, utility	5.1	3.9	29.8	52.3	39.2	33.4	10.3	10.0	2.8
Service, other	4.9	3.8	29.0	62.0	51.8	19.7	12.7	13.7	-7.2
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk .....	.9	.9	1.5	S	4.4	S	S	4.9	S
Tank, liquids or gases	4.1	4.9	-15.7	57.9	64.3	-10.0	14.1	13.3	6.7
Tow/Wrecker	3.6	4.2	-14.6	44.7	51.4	-13.0	12.4	12.2	1.9
Trash, garbage, or recycling	3.5	3.3	8.6	115.4	89.8	28.5	32.5	27.5	18.4
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	24.2	8.8	175.7	564.4	264.0	113.8	23.3	30.0	-22.5
Van, insulated nonrefrigerated .....	.5	S	S	S	S	S	S	S	S
Van, insulated refrigerated	1.7	1.1	59.5	57.6	28.0	105.3	34.2	26.6	28.7
Van, open top	7.5	12.2	-38.5	15.2	29.1	-47.7	2.0	2.4	-14.9
Van, step, walk-in, or multistop	15.5	17.2	-9.7	345.5	243.5	41.9	22.2	14.1	57.1
Van, other	1.0	N	N	13.0	N	N	12.8	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	59.5	52.2	13.9	3 960.7	3 605.9	9.8	66.6	69.0	-3.5
Automobile carrier .....	.5	.4	39.2	42.6	S	S	84.9	S	S
Beverage	2.8	1.0	181.4	64.0	16.5	286.8	22.5	16.4	37.4
Curtainside	S	N	N	S	N	N	S	N	N
Dump	4.7	2.7	71.7	114.6	166.3	-31.1	24.3	60.6	-59.9
Flatbed, stake, or platform	4.7	5.2	-9.6	273.0	282.8	-3.5	58.0	54.3	6.8
Livestock .....	.6	.3	102.7	24.6	S	S	42.0	S	S
Low boy	1.9	3.0	-37.0	27.4	123.7	-77.9	14.7	41.8	-64.9
Mobile home toter .....	.8	N	N	S	N	N	S	N	N
Open top	1.5	3.8	-59.9	28.4	98.2	-71.0	18.9	26.2	-27.8
Pole, logging, pulpwood, or pipe	S	S	S	S	S	S	S	S	S
Tank, dry bulk	1.4	1.2	22.9	101.7	100.4	1.3	71.6	86.9	-17.6
Tank, liquids or gases	1.6	2.2	-29.0	96.7	147.9	-34.6	60.9	66.1	-7.9
Van, basic enclosed	33.1	22.0	50.5	2 739.8	1 892.9	44.7	82.7	86.0	-3.8
Van, drop-frame .....	.5	4.9	-89.7	35.0	312.0	-88.8	69.8	64.2	8.7
Van, insulated nonrefrigerated .....	.3	S	S	S	S	S	S	S	S
Van, insulated refrigerated	3.5	3.3	5.7	327.6	307.7	6.5	93.3	92.7	.7
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	439.0	321.3	36.7	905.5	645.9	40.2	2.1	2.0	2.6
5,000 to 9,999	499.7	326.0	53.3	3 391.9	2 217.8	52.9	6.8	6.8	-2
10,000 to 19,999	880.5	794.6	10.8	11 823.1	10 406.1	13.6	13.4	13.1	2.5
20,000 to 29,999	238.3	249.0	-4.3	5 369.7	5 535.9	-3.0	22.5	22.2	1.3
30,000 to 49,999	85.8	92.5	-7.2	3 035.4	3 261.6	-6.9	35.4	35.3	.3
50,000 to 74,999	19.0	30.2	-37.1	1 121.1	1 812.0	-38.1	59.1	60.1	-1.6
75,000 or more	33.5	28.0	19.5	3 562.6	2 964.5	20.2	106.5	105.9	.6
Not applicable ²	26.5	10.9	142.1	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	13.6	50.5	-73.0	S	231.2	S	S	4.6	S
50 miles or less	1 561.5	1 400.5	11.5	17 587.9	17 191.6	2.3	11.3	12.3	-8.2
51 to 100 miles	230.6	253.6	-9.1	3 617.4	4 544.9	-20.4	15.7	17.9	-12.5
101 to 200 miles	33.3	41.7	-20.1	866.4	1 336.4	-35.2	26.0	32.0	-18.9
201 to 500 miles	11.2	28.9	-61.3	594.6	1 133.4	-47.5	53.3	39.3	35.6
501 miles or more	68.0	66.3	2.5	2 054.2	2 406.4	-14.6	30.2	36.3	-16.7
Not reported	277.5	10.9	2 437.8	4 376.1	V	N	15.8	V	N
Not applicable ²	26.5	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	V	N	N	V	N	N	V	N	N
Operated in Mexico	V	N	N	V	N	N	V	N	N
Operated within the home base state	1 946.3	N	N	23 432.5	N	N	12.0	N	N
Operated in states other than the home base state	41.6	N	N	2 349.3	N	N	56.5	N	N
Not reported	207.8	N	N	3 427.5	N	N	16.5	N	N
Not applicable ²	26.5	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	1 346.8	N	N	20 926.4	N	N	15.5	N	N
7 to 11	470.2	N	N	5 673.0	N	N	12.1	N	N
2 to 6	287.4	N	N	2 367.1	N	N	8.2	N	N
1 or less	91.3	N	N	242.8	N	N	2.7	N	N
Vehicle not used	26.5	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	2 034.7	1 707.8	19.1	23 285.0	21 980.2	5.9	11.4	12.9	-11.1
Medium	53.6	37.6	42.5	817.9	444.3	84.1	15.3	11.8	29.2
Light-heavy	38.7	24.8	56.2	557.2	302.2	84.4	14.4	12.2	18.1
Heavy-heavy	95.3	82.3	15.9	4 551.7	4 117.1	10.6	47.8	50.1	-4.6
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	1 560.0	1 579.4	-1.2	18 049.6	20 265.1	-10.9	11.6	12.8	-9.8
6,001 to 8,500	396.3	N	N	4 124.2	N	N	10.4	N	N
8,501 to 10,000	78.4	N	N	1 111.3	N	N	14.2	N	N
10,001 to 14,000	26.5	19.8	33.7	480.7	232.8	106.5	18.1	11.7	54.4
14,001 to 16,000	19.9	11.1	78.5	258.7	123.8	109.0	13.0	11.1	17.1
16,001 to 19,500	7.2	6.6	8.1	78.4	87.7	-10.6	11.0	13.3	-17.3
19,501 to 26,000	38.7	24.8	56.2	557.2	302.2	84.4	14.4	12.2	18.1
26,001 to 33,000	16.3	13.5	21.1	192.5	226.1	-14.8	11.8	16.8	-29.7
33,001 to 40,000	6.1	8.0	-22.8	123.8	237.4	-47.8	20.2	29.8	-32.4
40,001 to 50,000	8.8	11.9	-25.5	243.5	370.2	-34.2	27.5	31.2	-11.8
50,001 to 60,000	9.9	9.2	7.0	326.8	491.6	-33.5	33.0	53.2	-37.9
60,001 to 80,000	53.6	39.0	37.5	3 639.5	2 760.0	31.9	67.9	70.8	-4.1
80,001 to 100,000 .....	.3	.4	-7.3	S	S	S	S	S	S
100,001 to 130,000	S	S	S	S	S	S	S	S	S
130,001 or more	V	S	S	V	S	S	V	S	S
TOTAL LENGTH (FEET)									
Less than 20.0	1 863.0	1 704.7	9.3	21 379.6	21 873.6	-2.3	11.5	12.8	-10.6
20.0 to 27.9	212.1	56.9	272.5	2 555.6	712.4	258.7	12.1	12.5	-3.7
28.0 to 35.9	45.8	34.7	31.8	839.3	590.3	42.2	18.3	17.0	7.9
36.0 to 40.9	37.9	2.7	1 323.2	798.8	53.6	1 391.7	21.1	20.1	4.8
41.0 to 44.9	11.2	1.5	651.2	386.6	38.5	903.2	34.7	26.0	33.5
45.0 to 49.9	6.9	2.4	192.4	259.4	34.7	646.9	37.7	14.8	155.5
50.0 to 54.9	6.0	4.3	39.6	122.9	150.2	-18.2	20.6	35.1	-41.4
55.0 to 59.9	6.8	10.8	-37.0	263.5	594.8	-55.7	38.8	55.2	-29.7
60.0 to 64.9	7.4	15.8	-53.3	401.1	1 159.7	-65.4	54.3	73.3	-25.9
65.0 to 69.9	11.7	7.7	51.3	879.0	659.1	33.4	75.1	85.2	-11.9
70.0 to 74.9	9.9	9.3	5.9	979.9	847.9	15.6	99.4	91.0	9.1
75.0 to 79.9	3.1	N	N	327.3	N	N	104.9	N	N
80.0 or more .....	.6	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	16.6	18.5	-10.3	267.0	576.7	-53.7	16.1	31.2	-48.4
5 to 6.9	54.5	65.5	-16.8	2 698.0	3 151.6	-14.4	49.5	48.1	2.9
7 to 8.9	48.5	41.3	17.5	634.5	597.1	6.3	13.1	14.4	-9.5
9 to 10.9	101.7	170.1	-40.2	875.0	1 512.9	-42.2	8.6	8.9	-3.3
11 to 12.9	183.8	212.9	-13.7	1 475.7	2 755.6	-46.4	8.0	12.9	-38.0
13 to 14.9	163.1	179.3	-9.1	1 648.4	2 340.7	-29.6	10.1	13.1	-22.6
15 or more	1 306.6	1 154.5	13.2	16 620.0	15 669.6	6.1	12.7	13.6	-6.3
15 to 20.9	1 041.2	889.2	17.1	13 269.1	12 002.0	10.6	12.7	13.5	-5.6
21 to 24.9	192.4	204.8	-6.1	2 407.4	2 694.2	-10.6	12.5	13.2	-4.9
25 or more	73.0	60.4	20.7	943.5	973.4	-3.1	12.9	16.1	-19.7
Not reported	320.9	10.3	3 013.6	4 990.8	239.6	1 982.6	15.6	23.3	-33.1
Not applicable ²	26.5	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	134.0	N	N	1 847.2	N	N	13.8	N	N
2001	166.3	N	N	3 070.1	N	N	18.5	N	N
2000	168.5	N	N	3 509.8	N	N	20.8	N	N
1999	148.1	N	N	2 772.1	N	N	18.7	N	N
1998	221.8	S	S	3 788.9	S	S	17.1	S	S
1997	117.0	98.3	19.0	2 366.2	1 971.3	20.0	20.2	20.0	-9
1996	157.5	150.6	4.6	2 241.4	3 232.0	-30.7	14.2	21.5	-33.7
1995	113.8	122.6	-7.2	1 738.1	2 704.9	-35.7	15.3	22.1	-30.8
1994	113.5	152.3	-25.5	1 514.5	2 764.2	-45.2	13.3	18.1	-26.5
1993	114.2	109.3	4.5	1 328.6	1 896.7	-30.0	11.6	17.4	-33.0
Pre-1993	767.4	1 217.5	-37.0	5 023.3	14 148.8	-64.5	6.5	11.6	-43.7
VEHICLE ACQUISITION									
New	740.3	646.3	14.6	12 030.3	10 546.8	14.1	16.2	16.3	-4
Used	1 361.3	1 095.1	24.3	15 293.6	13 564.0	12.8	11.2	12.4	-9.3
Not reported	120.6	111.1	8.5	1 887.9	2 733.0	-30.9	15.7	24.6	-36.4
LEASE CHARACTERISTICS									
Leased	128.6	N	N	3 309.5	N	N	25.7	N	N
Lessee	107.4	N	N	2 193.3	N	N	20.4	N	N
Vehicle only	11.4	N	N	711.4	N	N	62.5	N	N
Vehicle with driver	1.9	N	N	157.5	N	N	80.8	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁴	93.9	N	N	1 310.1	N	N	14.0	N	N
Lessor	13.7	N	N	902.8	N	N	65.8	N	N
Vehicle only	11.5	N	N	748.7	N	N	64.8	N	N
Vehicle with driver	2.2	N	N	154.1	N	N	71.2	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ⁴	V	N	N	V	N	N	V	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	1 211.0	N	N	15 554.1	N	N	12.8	N	N
Not reported	882.6	N	N	10 348.1	N	N	11.7	N	N
Length of leasing agreement:									
Leased	128.6	N	N	3 309.5	N	N	25.7	N	N
1 to 11 months	2.9	N	N	174.3	N	N	59.7	N	N
12 months or more	27.1	N	N	1 684.0	N	N	62.2	N	N
Not reported .....	.4	N	N	33.1	N	N	79.2	N	N
Not applicable ⁴	98.2	N	N	1 418.1	N	N	14.4	N	N
Provisions of lease ⁵ :									
Financing only	17.0	N	N	1 188.9	N	N	70.1	N	N
Full maintenance	13.1	N	N	866.2	N	N	66.1	N	N
Payment of taxes	12.8	N	N	876.1	N	N	68.6	N	N
Obtaining licenses and permits	13.7	N	N	947.2	N	N	69.0	N	N
Recordkeeping	10.1	N	N	712.8	N	N	70.3	N	N
Fuel contract	6.1	N	N	455.7	N	N	75.0	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	356.7	N	N	5 220.9	N	N	14.6	N	N
Motor carrier	37.9	N	N	2 622.8	N	N	69.2	N	N
Owner operator	16.4	N	N	739.9	N	N	45.0	N	N
Rental	33.5	N	N	1 221.9	N	N	36.5	N	N
Personal transportation	1 751.2	N	N	19 403.8	N	N	11.1	N	N
Not applicable ²	26.5	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	22.1	N	N	1 716.3	N	N	77.7	N	N
Common	20.2	N	N	1 138.4	N	N	56.5	N	N
Not reported	7.7	N	N	473.4	N	N	61.1	N	N
Not applicable ⁶	2 172.2	N	N	25 883.7	N	N	11.9	N	N
Type of service:									
Truckload	31.0	28.6	8.4	2 410.3	2 318.1	4.0	77.7	81.0	-4.1
Less-than truckload	10.7	6.2	73.8	439.9	333.7	31.8	40.9	54.0	-24.1
Not reported	8.2	N	N	477.9	N	N	58.0	N	N
Not applicable ⁶	2 172.2	N	N	25 883.7	N	N	11.9	N	N
Source of hauls:									
Shippers or receivers	36.1	N	N	2 534.4	N	N	70.1	N	N
Brokers	2.8	N	N	175.3	N	N	63.6	N	N
Centralized markets or exchanges	S	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	10.9	N	N	591.9	N	N	54.5	N	N
Not applicable ⁶	2 172.2	N	N	25 883.7	N	N	11.9	N	N
HAZARDOUS MATERIALS CARRIED⁷									
Carrying hazardous materials	11.8	13.0	-9.5	914.3	896.0	2.0	77.7	68.9	12.8
Not carrying hazardous materials	119.1	136.9	-13.0	3 005.8	3 670.7	-18.1	25.2	26.8	-5.9
Not reported	26.7	37.8	-29.5	843.6	687.8	22.6	31.6	18.2	73.9
Not applicable ⁸	2 064.7	N	N	24 448.1	N	N	11.8	N	N
EQUIPMENT TYPE^{5 9}									
Aerial work platform/bucket	S	N	N	S	N	N	S	N	N
Air bag(s) (safety device only)	1 106.8	420.5	163.2	16 126.0	8 282.4	94.7	14.6	19.7	-26.0
Air compressor (except air brakes)	8.5	N	N	439.1	N	N	51.5	N	N
Air-conditioning	1 762.0	1 297.9	35.8	25 542.9	21 500.5	18.8	14.5	16.6	-12.5
Air springs	24.8	N	N	1 745.6	N	N	70.4	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck 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 TYPE^{5 9}—Con.									
Antilock brake system	1 246.9	713.8	74.7	20 275.9	11 974.9	69.3	16.3	16.8	-3.1
Collision warning system	1.8	N	N	112.7	N	N	61.6	N	N
Computerized drive train control unit	181.0	N	N	2 654.6	N	N	14.7	N	N
Crane	2.0	N	N	18.3	N	N	9.1	N	N
Electronic vehicle identification device	5.6	4.2	32.1	514.9	419.2	22.8	92.6	99.7	-7.0
Engine retarder/brake	27.9	21.9	27.2	2 156.6	1 800.4	19.8	77.2	82.0	-5.8
Front-wheel drive	869.8	309.5	181.0	11 486.4	4 448.7	158.2	13.2	14.4	-8.1
Hoist	30.9	N	N	254.1	N	N	8.2	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	7.3	N	N	365.5	N	N	49.9	N	N
Internet access .....	.4	N	N	40.7	N	N	97.5	N	N
Lift gate	8.9	N	N	153.9	N	N	17.2	N	N
Mounting bar for snowplow	27.8	N	N	469.9	N	N	16.9	N	N
Navigational system .....	.5	1.9	-73.3	69.1	188.0	-63.3	137.7	100.1	37.5
Power take-off	42.5	N	N	799.8	N	N	18.8	N	N
Radial tires	1 453.1	1 469.9	-1.1	20 754.3	22 813.8	-9.0	14.3	15.5	-8.0
Reflective material in addition to those required by law	17.2	36.9	-53.3	700.2	1 738.1	-59.7	40.6	47.1	-13.7
Road speed governor	69.5	51.4	35.3	3 456.4	2 689.0	28.5	49.7	52.3	-5.0
Toolbox	138.6	N	N	1 968.0	N	N	14.2	N	N
Trip recorder or on-board computer with communication capabilities	76.1	N	N	1 987.6	N	N	26.1	N	N
Trip recorder or on-board computer without communication capabilities	355.3	N	N	5 481.1	N	N	15.4	N	N
Vehicle control aids for handicapped drivers	V	S	S	V	S	S	V	S	S
Wheelchair lift	V	13.5	N	V	S	S	V	S	S
Winch	14.6	N	N	267.8	N	N	18.3	N	N
Transmission type:									
Automatic	1 710.8	N	N	20 344.1	N	N	11.9	N	N
Manual	409.3	N	N	6 581.0	N	N	16.1	N	N
Semiautomated manual	S	N	N	103.6	N	N	S	N	N
Automated manual	S	N	N	99.7	N	N	S	N	N
Not reported	91.7	N	N	2 083.4	N	N	22.7	N	N
Braking system:									
Hydraulic (standard)	42.9	41.8	2.5	594.6	417.4	42.4	13.9	10.0	39.0
Hydraulic with power assist	34.6	43.3	-20.1	332.3	538.0	-38.2	9.6	12.4	-22.7
Air	74.8	82.7	-9.6	3 429.7	4 030.4	-14.9	45.9	48.8	-5.9
Other	V	1.6	N	V	17.1	N	V	10.9	N
Not reported	41.9	N	N	1 526.7	N	N	36.5	N	N
Not applicable ¹⁰	2 028.1	N	N	23 328.5	N	N	11.5	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	2 017.2	1 696.7	18.9	23 032.8	21 551.5	6.9	11.4	12.7	-10.1
Diesel	177.5	151.8	16.9	6 169.6	5 264.7	17.2	34.8	34.7	.2
Natural gas	V	N	N	V	N	N	V	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	V	N	N	V	N	N	V	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	V	N	N	V	N	N	V	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported .....	.5	N	N	1.2	N	N	2.4	N	N
Not applicable ²	26.5	N	N	S	N	N	S	N	N
Cylinders ¹¹ :									
4 cylinders	251.7	205.0	22.7	3 097.6	2 674.1	15.8	12.3	13.0	-5.6
6 cylinders	1 060.3	848.6	24.9	16 265.6	14 639.2	11.1	15.3	17.3	-11.1
8 cylinders	856.8	746.0	14.5	9 577.7	9 197.2	4.1	11.2	12.3	-9.1
Other	53.5	50.7	5.4	270.9	333.3	-18.7	5.1	6.6	-22.9
Cubic inch displacement ¹¹ :									
Gasoline fuel:									
Less than 200	2 017.2	1 696.7	18.9	23 032.8	21 551.5	6.9	11.4	12.7	-10.1
200 to 299	506.0	453.2	11.6	5 690.9	5 683.7	.1	11.2	12.5	-10.3
300 to 349	732.5	437.9	67.3	9 912.8	6 552.9	51.3	13.5	15.0	-9.6
350 to 399	369.4	304.4	21.4	3 559.4	3 856.6	-7.7	9.6	12.7	-23.9
400 or more	321.3	363.2	-11.5	3 297.6	4 440.8	-25.7	12.2	12.2	-16.1
Not available	47.0	63.1	-25.5	434.4	634.2	-31.5	10.2	10.1	-8.0
Not applicable	41.0	74.8	-45.2	137.8	383.4	-64.0	3.4	5.1	-34.4
Diesel fuel:									
Less than 400	177.5	151.8	16.9	6 169.6	5 264.7	17.2	34.8	34.7	.2
400 to 599	48.3	47.7	1.3	769.5	688.3	11.8	15.9	14.4	10.4
600 to 799	57.3	38.4	49.3	1 158.5	689.0	68.1	20.2	17.9	12.6
800 or more	32.6	21.4	52.4	1 927.4	1 399.7	37.7	59.1	65.4	-9.7
Not available	25.3	29.4	-14.1	1 856.0	2 125.7	-12.7	73.4	72.3	1.6
Not applicable ²	13.9	14.9	-6.5	458.2	362.0	26.6	33.0	24.3	35.4
Other fuel	S	1.7	S	S	18.7	S	S	10.8	S
Less than 400	S	.9	S	S	S	S	S	S	S
400 or more	S	S	S	S	S	S	S	S	S
Not available	V	S	S	V	S	S	V	S	S
Not reported .....	.5	N	N	1.2	N	N	2.4	N	N
Not applicable ²	26.5	N	N	S	N	N	S	N	N
REFUELING LOCATION									
Gas station	1 946.4	N	N	22 600.7	N	N	11.6	N	N
Truck stop	48.0	N	N	2 600.4	N	N	54.2	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	123.0	N	N	2 969.4	N	N	24.1	N	N
Other company's/contractor's facility not open to the public	13.4	N	N	261.5	N	N	19.6	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	65.0	N	N	777.3	N	N	12.0	N	N
Not applicable ²	26.5	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	54.7	19.8	176.1	230.6	289.4	-20.3	4.2	14.6	-71.1
Company-owned maintenance facility	227.7	128.2	77.6	5 735.1	3 499.0	63.9	25.2	27.3	-7.7
General repair business or private mechanic	838.5	557.7	50.3	12 496.0	7 943.5	57.3	14.9	14.2	4.6
Dealership service department	517.6	365.6	41.6	7 226.9	5 992.6	20.6	14.0	16.4	-14.8
Leasing company	3.9	14.0	-72.3	212.1	353.0	-39.9	54.7	25.2	117.0
Individual not employed/paid by any maintenance type facility									
Other	969.6	1 033.9	-6.2	10 426.8	12 781.4	-18.4	10.8	12.4	-13.0
Not reported	V	S	S	V	130.3	N	V	S	S
Not applicable ²	65.3	60.1	8.8	819.9	861.3	-4.8	12.5	14.3	-12.5
Extensive repairs performed by:									
None performed	1 757.0	98.5	1 683.5	22 607.3	1 301.6	1 636.9	12.9	13.2	-2.6
Company-owned maintenance facility	17.4	51.6	-66.4	509.2	1 520.1	-66.5	29.3	29.4	-3
General repair business or private mechanic	121.8	278.8	-56.3	1 863.1	4 401.5	-57.7	15.3	15.8	-3.2
Dealership service department	87.6	229.8	-61.9	1 443.9	4 693.8	-69.2	16.5	20.4	-19.3
Leasing company	S	S	S	S	128.7	S	S	S	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	18.8	31.2	-39.8	486.7	940.0	-48.2	25.9	30.1	-14.1
Other	118.1	177.0	-33.3	842.7	1 734.2	-51.4	7.1	9.8	-27.2
Not reported	V	S	S	V	S	N	V	S	S
Not applicable ²	26.5	1 036.4	N	S	13 431.5	N	S	13.0	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	2 105.2	1 777.6	18.4	24 691.3	22 955.6	7.6	11.7	12.9	-9.2
3 axles	2 088.3	1 759.0	18.7	24 303.6	22 577.2	7.6	11.6	12.8	-9.3
4 axles	14.5	12.3	18.0	355.9	164.0	117.0	24.6	13.4	83.8
5 axles or more .....	.8	6.3	-88.1	15.5	214.4	-92.8	20.5	33.9	-39.6
Not reported .....	.8	N	N	13.9	N	N	16.5	N	N
Combinations									
Single-unit trucks with trailer	117.1	74.9	56.3	4 520.5	3 888.2	16.3	38.6	51.9	-25.6
3 axles	58.6	22.6	158.9	559.8	282.3	98.3	9.6	12.5	-23.4
4 axles	22.4	S	S	174.9	S	S	7.8	S	S
5 axles or more	34.7	18.7	86.2	367.0	258.2	42.1	10.6	13.8	-23.6
Not reported .....	.8	S	S	12.1	S	S	14.5	S	S
Truck-tractors with single trailer	58.1	52.0	11.7	3 926.1	3 589.7	9.4	67.6	69.0	-2.1
3 axles	2.4	1.7	37.1	51.7	45.2	14.3	21.8	26.1	-16.6
4 axles	5.3	5.2	2.8	208.7	212.8	-1.9	39.4	41.3	-4.6
5 axles or more	47.3	45.1	4.8	3 465.2	3 331.7	4.0	73.3	73.8	-.8
Not reported	3.1	N	N	200.5	N	N	63.8	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	S	S	S	S	S	S	S	S
7 axles	S	S	S	S	V	S	S	V	S
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	1 278.3	1 349.4	-5.3	13 634.8	17 527.2	-22.2	10.7	13.0	-17.9
2	941.9	500.7	88.1	15 551.2	9 215.1	68.8	16.5	18.4	-10.3
3 or more	1.1	2.4	-54.7	15.5	101.5	-84.8	14.2	42.2	-66.4
Not reported	1.0	V	N	S	V	S	S	V	S
Total liftable axles and locations ¹² :									
None	184.8	65.6	181.6	5 596.9	1 913.8	192.4	30.3	29.2	3.9
1	7.6	7.6	-.5	238.9	201.9	18.3	31.5	26.5	19.0
Forward of the drive axle	6.1	N	N	203.3	N	N	33.2	N	N
Below the chassis .....	.5	N	N	S	N	N	S	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported .....	.8	N	N	25.3	N	N	30.2	N	N
2 or more .....	.8	.8	3.2	13.9	24.5	-43.5	16.5	30.2	-45.2
Forward of the drive axle .....	.8	N	N	12.5	N	N	16.5	N	N
Below the chassis .....	.7	N	N	9.6	N	N	14.3	N	N
Beyond the chassis	V	N	N	V	N	N	V	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported .....	.9	N	N	33.6	N	N	35.4	N	N
Not applicable ¹⁰	2 028.1	N	N	23 328.5	N	N	11.5	N	N
Total liftable axles and number of braking axles:									
None	184.8	65.6	181.6	5 596.9	1 913.8	192.4	30.3	29.2	3.9
1	7.6	7.6	-.5	238.9	201.9	18.3	31.5	26.5	19.0
0 braking	1.6	N	N	50.3	N	N	31.6	N	N
1 braking	5.8	N	N	188.2	N	N	32.5	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more .....	.8	.8	3.2	13.9	24.5	-43.5	16.5	30.2	-45.2
0 braking	S	N	N	S	N	N	S	N	N
1 braking	S	N	N	S	N	N	S	N	N
2 or more braking .....	.7	N	N	11.9	N	N	17.7	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported .....	.9	N	N	33.6	N	N	35.4	N	N
Not applicable ¹⁰	2 028.1	N	N	23 328.5	N	N	11.5	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	178.5	138.8	28.5	5 306.0	4 231.8	25.4	29.7	30.5	-2.4
With sleeper	29.5	N	N	2 545.3	N	N	86.2	N	N
Without sleeper	142.3	N	N	2 284.6	N	N	16.1	N	N
Not reported	6.7	N	N	476.0	N	N	71.5	N	N
Cab over engine	14.5	22.5	-35.5	559.7	658.1	-15.0	38.6	29.3	31.8
With sleeper	4.2	N	N	298.5	N	N	71.4	N	N
Without sleeper	9.8	N	N	197.6	N	N	20.1	N	N
Not reported .....	.5	N	N	63.5	N	N	126.8	N	N
Cab forward of engine	1.0	5.5	-81.5	16.2	106.1	-84.7	16.1	19.5	-17.3
Cab beside engine	V	S	S	V	20.0	N	V	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹⁰	2 028.1	N	N	23 328.5	N	N	11.5	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 .....	.9	.5	1.3	3.0	2.5	4.2	2.9	2.5	3.4
BUSINESS									
For-hire transportation or warehousing	3.8	3.9	7.2	4.1	3.9	6.6	3.2	2.9	3.8
Vehicle leasing or rental	14.3	40.1	119.6	10.8	35.1	124.4	5.7	12.2	16.2
Agriculture, forestry, fishing, or hunting	18.9	12.7	12.2	29.8	17.4	15.6	15.5	11.2	16.1
Mining	S	S	S	S	36.1	S	S	S	S
Utilities	34.8	24.0	16.8	42.6	34.2	10.3	26.3	24.2	17.0
Construction	17.4	11.6	14.4	19.0	15.4	10.3	7.0	9.0	7.0
Manufacturing	36.8	25.7	39.3	S	27.2	S	S	16.8	S
Wholesale trade	35.4	27.3	45.8	35.4	31.5	48.5	9.6	20.4	22.6
Retail trade	27.6	22.3	49.7	31.0	21.6	42.1	14.7	11.1	14.7
Information services	N	N	N	N	N	N	N	N	N
Waste management, landscaping, or administrative/support services	36.6	N	N	37.4	N	N	16.4	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	30.5	N	N	35.4	N	N	26.7	N	N
Other services	43.2	N	N	49.8	N	N	17.0	N	N
Personal transportation	2.1	2.2	4.0	4.2	3.8	6.8	3.6	3.1	4.4
Not reported	25.0	N	N	25.1	N	N	18.2	N	N
Not applicable ¹	32.6	31.9	53.1	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks .....	.9	.5	1.3	3.4	2.9	4.8	3.3	2.8	3.9
Pickup	1.8	1.1	2.2	5.2	4.4	6.2	4.9	4.3	5.5
Minivan	9.6	7.3	12.9	12.4	9.0	14.5	7.9	5.3	8.4
Other light vans	17.1	11.7	16.8	22.7	15.7	14.6	15.0	10.6	11.9
Sport utility	6.0	7.9	20.2	9.2	10.9	28.0	6.9	7.6	9.9
Armored	S	N	N	S	N	N	S	N	N
Beverage	39.3	36.1	36.3	46.7	43.7	31.6	27.9	24.7	27.0
Concrete mixer	26.2	22.3	29.0	29.1	24.1	25.7	12.6	9.1	12.5
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	48.3	25.2	15.0	S	30.8	S	S	29.3	S
Curtainside	N	N	N	N	N	N	N	N	N
Dump	16.6	9.5	31.8	13.9	12.4	23.8	10.7	10.8	11.7
Flatbed, stake, or platform	7.0	6.4	7.9	14.1	11.3	12.7	12.2	9.3	13.0
Low boy	S	40.2	S	S	48.3	S	S	23.7	S
Pole, logging, pulpwood, or pipe	S	N	S	S	N	S	S	N	S
Service, utility	18.9	23.0	38.7	29.2	44.0	70.5	22.1	37.1	44.4
Service, other	19.2	23.7	39.4	27.3	28.8	47.4	19.5	16.3	23.6
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	40.7	45.7	62.1	S	45.4	S	S	29.1	S
Tank, liquids or gases	18.9	18.6	22.4	29.0	27.8	36.1	26.0	21.1	35.7
Tow/Wrecker	22.1	22.1	26.7	33.0	26.4	36.8	24.6	14.6	29.2
Trash, garbage, or recycling	15.3	20.2	27.5	17.6	24.0	38.2	9.1	14.7	20.5
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	7.9	14.4	45.3	9.8	21.0	49.6	5.8	15.4	12.7
Van, insulated nonrefrigerated	48.1	S	S	S	S	S	S	S	S
Van, insulated refrigerated	31.6	43.9	86.3	33.2	47.6	119.2	10.8	13.6	22.4
Van, open top	14.9	12.1	11.8	31.4	17.0	18.7	28.8	12.6	26.8
Van, step, walk-in, or multistop	10.3	10.4	13.2	11.9	13.9	25.9	5.8	9.2	17.1
Van, other	40.1	N	N	42.6	N	N	20.2	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	2.3	1.4	3.1	3.2	2.6	4.5	2.8	2.5	3.6
Automobile carrier	40.5	44.3	83.5	42.1	S	S	11.4	S	S
Beverage	23.3	26.3	98.9	25.5	28.2	147.0	13.2	10.1	22.9
Curtainside	S	N	N	S	N	N	S	N	N
Dump	13.3	15.7	35.4	21.7	18.5	19.7	17.7	9.8	8.1
Flatbed, stake, or platform	13.3	11.8	16.0	15.8	13.9	20.4	9.0	9.1	13.6
Livestock	37.5	49.6	126.0	47.3	S	S	29.0	S	S
Low boy	22.3	15.1	17.0	36.5	20.8	9.3	30.7	14.2	11.9
Mobile home toter	40.9	N	N	S	N	N	S	N	N
Open top	23.3	13.3	10.8	36.5	23.1	12.5	28.1	18.9	24.5
Pole, logging, pulpwood, or pipe	S	S	S	S	S	S	S	S	S
Tank, dry bulk	23.8	24.6	42.0	27.6	26.2	38.5	13.9	9.0	13.6
Tank, liquids or gases	22.6	17.5	20.3	28.0	20.1	22.5	16.6	10.0	17.8
Van, basic enclosed	3.8	4.5	8.8	4.5	5.3	10.1	2.7	2.9	3.8
Van, drop-frame	40.5	12.9	4.4	45.6	13.5	5.3	21.1	8.6	24.8
Van, insulated nonrefrigerated	49.7	S	S	S	S	S	S	S	S
Van, insulated refrigerated	14.9	14.2	21.8	17.3	15.5	24.7	8.7	6.2	10.8
Other	S	N	N	S	N	N	S	N	N
Not applicable ²	31.6	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	8.3	7.7	15.5	10.7	9.7	20.2	6.2	5.7	8.6
5,000 to 9,999	8.0	8.0	17.4	8.2	8.2	17.8	2.0	1.7	2.6
10,000 to 19,999	5.3	4.3	7.5	5.4	4.4	8.0	1.3	1.1	1.8
20,000 to 29,999	12.1	9.4	14.7	12.1	9.5	14.9	1.4	1.1	1.8
30,000 to 49,999	18.5	15.4	22.3	18.6	15.4	22.5	2.7	2.7	3.8
50,000 to 74,999	32.0	24.1	25.2	31.2	24.5	24.6	1.8	3.0	3.4
75,000 or more	13.2	4.1	16.5	11.4	4.2	14.6	2.3	1.3	2.7
Not applicable ¹	32.6	43.2	130.9	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	45.2	21.0	13.5	S	28.1	S	S	18.5	S
50 miles or less	2.8	2.1	3.9	5.0	3.5	6.3	4.2	2.8	4.6
51 to 100 miles	12.4	9.2	14.0	13.5	11.6	14.2	7.1	7.6	9.1
101 to 200 miles	31.5	22.2	30.8	27.7	21.4	22.7	21.6	13.3	20.6
201 to 500 miles	39.4	23.5	17.7	12.4	10.5	8.5	36.5	17.9	55.1
501 miles or more	21.7	16.6	27.9	9.7	7.9	10.7	15.3	11.7	16.1
Not reported	10.8	43.2	129.5	9.3	N	N	5.5	N	N
Not applicable ¹	32.6	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	1.7	N	N	3.8	N	N	3.4	N	N
Operated in states other than the home base state	20.7	N	N	8.9	N	N	16.3	N	N
Not reported	12.4	N	N	9.9	N	N	6.8	N	N
Not applicable ¹	32.6	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	3.5	N	N	4.4	N	N	3.4	N	N
7 to 11	8.2	N	N	9.6	N	N	6.1	N	N
2 to 6	10.7	N	N	13.2	N	N	8.4	N	N
1 or less	19.7	N	N	39.7	N	N	35.0	N	N
Vehicle not used	32.6	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	1.1	.6	1.5	3.7	3.0	5.1	3.5	3.0	4.1
Medium	16.6	6.2	25.2	16.4	10.9	36.2	6.6	8.9	14.3
Light-heavy	5.8	8.2	15.7	9.7	15.1	33.2	7.8	13.1	18.0
Heavy-heavy	2.3	2.4	3.8	2.8	2.6	4.3	2.9	2.9	3.9
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2.7	1.2	2.9	4.9	3.3	5.3	4.2	3.0	4.7
6,001 to 8,500	9.3	N	N	11.8	N	N	7.1	N	N
8,501 to 10,000	21.5	N	N	25.8	N	N	13.1	N	N
10,001 to 14,000	17.7	9.5	26.9	16.1	13.1	43.0	5.9	9.0	16.6
14,001 to 16,000	37.9	12.9	71.5	42.2	19.7	97.2	16.7	14.9	26.2
16,001 to 19,500	15.7	17.1	25.1	22.2	36.3	38.0	16.0	31.4	29.1
19,501 to 26,000	5.8	8.2	15.7	9.7	15.1	33.2	7.8	13.1	18.0
26,001 to 33,000	9.9	11.2	18.1	16.8	15.7	19.5	14.1	12.8	13.4
33,001 to 40,000	15.1	12.7	15.2	21.0	15.4	13.6	17.4	13.4	14.9
40,001 to 50,000	10.9	9.0	10.6	17.0	12.9	14.0	14.0	10.8	15.7
50,001 to 60,000	9.6	9.1	14.1	14.1	11.5	12.1	10.5	7.3	7.9
60,001 to 80,000	2.5	2.9	5.3	3.4	3.8	6.8	2.7	2.7	3.6
80,001 to 100,000	49.6	44.3	61.6	S	S	S	S	S	S
100,001 to 130,000	S	S	S	S	S	S	S	S	S
130,001 or more	N	S	S	N	S	S	N	S	S
TOTAL LENGTH (FEET)									
Less than 20.0	1.8	.7	2.1	4.1	3.0	5.0	3.7	3.0	4.2
20.0 to 27.9	12.1	4.5	48.2	15.6	7.9	62.7	9.3	6.7	11.0
28.0 to 35.9	16.9	20.0	34.5	12.2	22.5	36.3	7.9	16.2	19.5
36.0 to 40.9	27.8	22.6	509.8	16.3	24.5	438.6	18.0	19.5	27.8
41.0 to 44.9	39.5	33.3	388.0	14.6	40.3	430.1	33.3	29.8	59.7
45.0 to 49.9	13.3	23.4	78.8	16.3	35.5	291.8	13.4	33.1	91.3
50.0 to 54.9	14.1	13.3	27.0	19.7	18.1	21.9	15.0	13.9	12.0
55.0 to 59.9	12.1	7.6	9.0	14.7	9.5	7.8	9.8	6.2	8.2
60.0 to 64.9	10.3	5.7	5.5	12.8	6.9	5.0	8.1	3.9	6.6
65.0 to 69.9	7.7	9.3	18.2	9.2	10.1	18.2	5.1	5.3	6.4
70.0 to 74.9	8.4	8.0	12.3	9.4	8.8	14.9	4.2	3.7	6.1
75.0 to 79.9	16.7	N	N	18.1	N	N	7.3	N	N
80.0 or more	43.7	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	8.4	7.5	10.1	11.9	9.2	7.0	10.4	7.9	6.8
5 to 6.9	8.7	3.5	7.8	4.8	3.6	5.1	8.0	3.6	9.1
7 to 8.9	21.9	14.1	30.6	16.4	11.7	21.4	17.7	12.1	19.5
9 to 10.9	18.1	11.1	12.7	22.5	16.3	16.1	13.8	12.8	18.2
11 to 12.9	14.1	10.4	15.1	16.9	14.4	11.9	9.9	10.1	8.8
13 to 14.9	15.4	11.5	17.5	17.9	15.3	16.6	9.1	10.0	10.5
15 or more	3.5	2.8	5.1	5.6	4.2	7.4	4.3	3.2	5.0
15 to 20.9	4.6	3.8	7.0	6.7	5.3	9.5	5.0	3.6	5.8
21 to 24.9	14.1	10.8	16.7	17.4	13.0	19.4	10.2	7.2	11.8
25 or more	23.9	20.9	38.3	29.0	25.6	37.4	16.4	14.7	17.7
Not reported	9.9	10.3	444.7	9.3	17.6	414.7	6.4	15.5	11.2
Not applicable ¹	32.6	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
MODEL YEAR									
2003	S	N	N	S	N	N	S	N	N
2002	16.7	N	N	14.9	N	N	8.9	N	N
2001	14.8	N	N	14.1	N	N	7.3	N	N
2000	14.3	N	N	12.6	N	N	7.4	N	N
1999	15.7	N	N	13.9	N	N	7.0	N	N
1998	12.8	S	S	15.2	S	S	10.2	S	S
1997	17.9	15.7	28.3	19.0	15.7	29.6	11.2	7.8	13.7
1996	15.5	12.4	20.8	16.4	12.1	14.1	7.9	6.4	6.8
1995	18.1	13.7	21.0	17.4	12.9	13.9	7.4	7.6	7.3
1994	18.4	12.3	16.5	23.8	11.9	14.6	15.9	5.6	12.4
1993	18.3	14.5	24.4	20.6	15.0	17.9	11.2	9.1	9.7
Pre-1993	5.7	2.7	4.0	8.7	4.5	3.5	6.5	3.6	4.2
VEHICLE ACQUISITION									
New	5.9	5.0	8.9	5.8	5.7	9.3	3.8	3.9	5.4
Used	3.4	3.1	5.7	5.7	4.8	8.4	4.6	3.7	5.4
Not reported	17.4	13.7	24.0	17.0	10.5	13.8	10.0	7.3	7.9
LEASE CHARACTERISTICS									
Leased	15.6	N	N	9.9	N	N	8.0	N	N
Lessee	18.2	N	N	13.8	N	N	7.9	N	N
Vehicle only	10.0	N	N	10.9	N	N	7.4	N	N
Vehicle with driver	21.7	N	N	23.3	N	N	7.9	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ³	20.8	N	N	22.2	N	N	7.5	N	N
Lessor	8.7	N	N	9.1	N	N	5.7	N	N
Vehicle only	9.5	N	N	9.9	N	N	6.3	N	N
Vehicle with driver	22.6	N	N	24.4	N	N	12.8	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ³	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	3.9	N	N	5.2	N	N	3.9	N	N
Not reported	5.3	N	N	7.5	N	N	5.5	N	N
Length of leasing agreement:									
Leased	15.6	N	N	9.9	N	N	8.0	N	N
1 to 11 months	18.7	N	N	21.3	N	N	11.1	N	N
12 months or more	6.0	N	N	6.4	N	N	4.5	N	N
Not reported	44.4	N	N	47.6	N	N	17.3	N	N
Not applicable ³	20.3	N	N	21.8	N	N	7.7	N	N
Provisions of lease:									
Financing only	7.8	N	N	8.0	N	N	5.2	N	N
Full maintenance	9.1	N	N	9.4	N	N	5.8	N	N
Payment of taxes	8.8	N	N	9.1	N	N	5.4	N	N
Obtaining licenses and permits	8.4	N	N	8.8	N	N	5.2	N	N
Recordkeeping	10.1	N	N	10.3	N	N	6.3	N	N
Fuel contract	13.4	N	N	13.6	N	N	7.7	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	8.7	N	N	12.0	N	N	8.0	N	N
Motor carrier	4.7	N	N	5.0	N	N	3.7	N	N
Owner operator	27.0	N	N	10.4	N	N	22.5	N	N
Rental	14.2	N	N	10.8	N	N	5.7	N	N
Personal transportation	2.1	N	N	4.2	N	N	3.6	N	N
Not applicable ¹	32.6	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	5.9	N	N	6.4	N	N	3.8	N	N
Common	7.1	N	N	7.9	N	N	6.0	N	N
Not reported	12.0	N	N	13.2	N	N	9.1	N	N
Not applicable ⁴ .....	.9	N	N	3.3	N	N	3.2	N	N
Type of service:									
Truckload	4.6	4.2	6.8	5.2	4.5	7.1	3.4	2.9	4.3
Less-than truckload	10.8	14.5	31.3	12.1	13.7	24.1	8.5	9.8	9.9
Not reported	11.9	N	N	13.1	N	N	9.6	N	N
Not applicable ⁴ .....	.9	N	N	3.3	N	N	3.2	N	N
Source of hauls:									
Shippers or receivers	4.6	N	N	5.0	N	N	3.6	N	N
Brokers	17.0	N	N	20.6	N	N	11.7	N	N
Centralized markets or exchanges	S	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	10.2	N	N	11.5	N	N	8.4	N	N
Not applicable ⁴ .....	.9	N	N	3.3	N	N	3.2	N	N
HAZARDOUS MATERIALS CARRIED⁵									
Carrying hazardous materials	9.3	8.8	11.6	9.9	8.9	13.5	7.2	6.2	10.7
Not carrying hazardous materials	4.3	1.8	4.1	4.1	3.3	4.3	4.6	3.1	5.2
Not reported	6.9	5.6	6.3	8.9	8.4	15.0	7.7	7.3	18.5
Not applicable ⁶	1.0	N	N	3.5	N	N	3.4	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	S	N	N	S	N	N	S	N	N
Air bag(s) (safety device only)	4.1	6.7	20.8	5.6	7.0	17.4	4.0	3.8	4.1
Air compressor (except air brakes)	11.3	N	N	13.4	N	N	10.6	N	N
Air-conditioning	2.2	2.3	4.4	3.6	3.3	5.8	3.1	2.7	3.6
Air springs	5.4	N	N	6.4	N	N	4.4	N	N
Antilock brake system	3.7	4.7	10.4	4.7	5.6	12.4	3.5	3.5	4.8
Collision warning system	25.1	N	N	25.5	N	N	17.4	N	N
Computerized drive train control unit	14.4	N	N	15.8	N	N	9.0	N	N
Crane	30.3	N	N	38.6	N	N	27.1	N	N
Electronic vehicle identification device	13.1	13.4	24.8	13.3	14.0	23.8	7.4	7.1	9.5
Engine retarder/brake	4.7	5.0	8.8	5.7	5.6	9.5	3.7	3.4	4.8
Front-wheel drive	5.3	8.0	26.9	7.4	9.7	31.5	5.2	5.8	7.2
Hoist	6.6	N	N	10.6	N	N	9.7	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	12.4	N	N	14.5	N	N	10.8	N	N
Internet access	44.4	N	N	44.7	N	N	5.2	N	N
Lift gate	13.3	N	N	16.4	N	N	10.0	N	N
Mounting bar for snowplow	37.8	N	N	43.9	N	N	21.4	N	N
Navigational system	40.5	19.2	12.0	45.2	20.5	18.2	20.3	7.3	29.6
Power take-off	5.1	N	N	7.9	N	N	7.2	N	N
Radial tires	3.2	1.9	3.6	4.3	3.2	4.8	3.3	2.7	3.9
Reflective material in addition to those required by law	8.4	5.5	4.7	10.8	5.7	4.9	8.8	5.0	8.7
Road speed governor	3.6	4.1	7.4	4.0	4.3	7.5	3.1	3.9	4.8
Toolbox	14.9	N	N	15.2	N	N	10.2	N	N
Trip recorder or on-board computer with communication capabilities	21.6	N	N	12.0	N	N	12.5	N	N
Trip recorder or on-board computer without communication capabilities	9.9	N	N	11.8	N	N	6.9	N	N
Vehicle control aids for handicapped drivers	N	S	S	N	S	S	N	S	S
Wheelchair lift	N	44.5	N	N	S	S	N	S	S
Winch	42.0	N	N	47.0	N	N	8.6	N	N
Transmission type:									
Automatic	2.2	N	N	4.3	N	N	3.8	N	N
Manual	7.7	N	N	6.9	N	N	5.5	N	N
Semiautomated manual	S	N	N	41.4	N	N	S	N	N
Automated manual	S	N	N	47.4	N	N	S	N	N
Not reported	16.2	N	N	8.8	N	N	10.2	N	N
Braking system:									
Hydraulic (standard)	5.4	5.7	8.1	10.0	10.1	20.2	8.8	8.4	16.9
Hydraulic with power assist	6.3	5.6	6.7	11.5	8.8	9.0	9.7	7.0	9.3
Air	2.8	2.5	3.4	3.8	2.8	4.0	3.5	3.0	4.3
Other	N	32.0	N	N	47.6	N	N	43.9	N
Not reported	11.6	N	N	6.4	N	N	9.5	N	N
Not applicable ⁹	1.0	N	N	3.7	N	N	3.5	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	1.3	.9	1.9	3.7	3.1	5.1	3.5	2.9	4.1
Diesel	9.3	7.6	14.0	5.6	4.6	8.5	5.8	5.8	8.3
Natural gas	N	N	N	N	N	N	N	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	N	N	N	N	N	N	N	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	N	N	N	N	N	N	N	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	40.4	N	N	48.9	N	N	27.6	N	N
Not applicable ¹	32.6	N	N	S	N	N	S	N	N
Cylinders ⁹ :									
4 cylinders	12.2	10.8	20.0	15.6	13.8	24.1	9.8	8.6	12.3
6 cylinders	4.2	3.8	7.1	4.6	4.0	6.8	3.5	2.9	4.1
8 cylinders	5.2	4.3	7.7	7.9	6.7	10.7	5.8	5.1	7.0
Other	18.2	10.2	22.0	29.8	10.8	25.8	21.7	11.5	18.9
Cubic inch displacement ⁹ :									
Gasoline fuel	1.3	.9	1.9	3.7	3.1	5.1	3.5	2.9	4.1
Less than 200	8.0	6.6	11.6	10.7	8.5	13.7	7.1	5.3	7.9
200 to 299	5.7	6.5	14.5	7.9	8.0	17.0	5.6	4.7	6.6
300 to 349	9.6	8.5	15.6	12.6	11.8	15.9	8.2	8.1	8.7
350 to 399	10.2	7.4	11.1	12.7	10.4	12.2	7.7	7.2	8.9
400 or more	24.3	18.9	22.9	21.5	23.3	21.7	17.6	14.3	20.8
Not available	21.4	13.9	14.0	47.9	23.0	19.1	37.0	14.2	26.0
Diesel fuel	9.3	7.6	14.0	5.6	4.6	8.5	5.8	5.8	8.3
Less than 400	26.6	20.9	34.2	30.3	29.2	47.0	14.8	21.6	28.9
400 to 599	18.6	15.4	36.1	19.8	15.0	41.8	10.5	10.5	16.8
600 to 799	4.3	5.2	10.4	5.3	6.1	11.1	3.7	3.8	4.7
800 or more	4.8	3.7	5.2	6.2	4.6	6.8	4.0	3.1	5.1
Not available	8.2	7.7	10.5	12.2	11.8	21.5	10.3	10.4	19.8
Other fuel	S	34.8	S	S	42.2	S	S	24.3	S
Less than 400	S	49.7	S	S	S	S	S	S	S
400 or more	S	S	S	S	S	S	S	S	S
Not available	N	S	S	N	S	S	N	S	S
Not reported	40.4	N	N	48.9	N	N	27.6	N	N
Not applicable ¹	32.6	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	1.6	N	N	3.8	N	N	3.5	N	N
Truck stop	15.9	N	N	8.3	N	N	12.1	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	11.1	N	N	7.2	N	N	7.3	N	N
Other company's/contractor's facility not open to the public	46.1	N	N	46.6	N	N	16.7	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	24.4	N	N	25.0	N	N	10.0	N	N
Not applicable ¹	32.6	N	N	S	N	N	S	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	26.9	36.4	125.0	46.7	44.9	51.6	38.2	24.5	13.1
Company-owned maintenance facility	10.3	10.3	25.9	6.3	8.7	17.6	6.2	7.4	8.9
General repair business or private mechanic ..	5.5	5.6	11.8	6.9	6.8	15.2	4.9	4.5	7.0
Dealership service department	7.7	7.4	15.2	8.1	8.3	14.0	4.4	4.9	5.6
Leasing company	17.8	39.4	12.0	19.1	23.0	18.0	11.5	23.4	56.6
Individual not employed/paid by any maintenance type facility									
Other	4.8	3.3	5.5	7.0	4.9	7.0	5.1	3.7	5.5
Not reported	N	S	S	N	20.5	N	N	S	S
Not applicable ¹	24.3	18.6	33.3	24.3	14.2	26.8	9.2	10.5	12.2
Extensive repairs performed by:									
None performed	2.3	15.8	284.2	4.0	18.2	324.2	3.4	9.7	10.0
Company-owned maintenance facility	35.6	14.5	12.9	17.1	9.8	6.6	24.4	8.7	25.8
General repair business or private mechanic ..	17.4	8.5	8.5	17.7	11.3	8.9	10.3	8.2	12.7
Dealership service department	20.9	9.6	8.8	19.2	10.1	6.7	11.3	6.2	10.4
Leasing company	S	S	S	S	42.9	S	S	S	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	45.3	24.8	31.1	41.3	15.8	22.9	28.3	13.9	27.1
Other	18.0	11.3	14.2	22.5	14.7	13.1	14.6	9.8	12.8
Not reported	N	S	S	N	S	S	N	S	S
Not applicable ¹	32.6	3.3	N	N	4.5	N	N	3.2	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	1.2	.7	1.6	3.5	2.9	4.9	3.4	2.8	4.0
3 axles	1.2	.7	1.6	3.6	3.0	5.0	3.4	2.9	4.0
4 axles	6.7	9.3	13.5	9.8	17.1	42.7	7.5	14.7	30.3
5 axles or more	32.9	10.7	4.1	49.9	15.2	3.8	37.5	8.9	23.3
Not reported	31.2	N	N	34.8	N	N	15.6	N	N
Combinations	37.4	N	N	S	N	S	S	N	S
Single-unit trucks with trailer									
3 axles	12.6	9.2	24.4	4.4	4.0	6.9	9.9	7.5	9.2
4 axles	25.1	30.2	101.6	27.4	43.8	102.4	12.1	29.9	24.7
5 axles or more	42.8	S	S	49.2	S	S	26.5	S	S
Not reported	32.6	33.5	87.0	34.8	47.4	83.6	12.0	31.6	25.8
Truck-tractors with single trailer	31.3	S	S	44.5	S	S	31.6	S	S
3 axles	2.4	1.4	3.1	3.2	2.7	4.5	2.7	2.5	3.6
4 axles	25.2	20.0	44.1	28.5	26.5	44.5	18.1	17.5	21.0
5 axles or more	14.4	13.0	19.9	18.9	16.0	24.3	13.3	12.8	17.6
Not reported	2.6	1.8	3.3	3.6	3.0	4.9	2.7	2.4	3.6
Truck-tractors with double trailers	17.2	N	N	19.6	N	N	11.6	N	N
5 axles	49.7	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	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	3.7	2.2	4.1	5.5	4.0	5.3	4.2	3.3	4.4
2	4.9	5.8	14.3	5.5	5.3	12.9	4.1	3.8	5.0
3 or more	27.3	17.0	14.6	30.7	22.9	5.8	14.1	15.3	7.0
Not reported	35.9	N	N	S	N	S	S	N	S
Total liftable axles and locations:									
None	2.5	3.9	13.1	2.5	5.0	16.3	3.0	4.6	5.7
1	9.8	12.0	15.4	12.5	15.8	23.9	8.2	12.2	17.4
Forward of the drive axle	10.8	N	N	13.7	N	N	8.4	N	N
Below the chassis	48.1	N	N	S	N	N	S	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	31.2	N	N	38.9	N	N	23.2	N	N
2 or more	31.2	37.5	50.3	34.8	40.9	30.3	15.6	30.6	18.8
Forward of the drive axle	32.9	N	N	37.2	N	N	17.3	N	N
Below the chassis	34.9	N	N	38.0	N	N	15.1	N	N
Beyond the chassis	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	33.1	N	N	37.5	N	N	27.7	N	N
Not applicable ⁸	1.0	N	N	3.7	N	N	3.5	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	2.5	3.9	13.1	2.5	5.0	16.3	3.0	4.6	5.7
1	9.8	12.0	15.4	12.5	15.8	23.9	8.2	12.2	17.4
0 braking	22.4	N	N	26.8	N	N	14.7	N	N
1 braking	11.2	N	N	14.5	N	N	9.1	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	31.2	37.5	50.3	34.8	40.9	30.3	15.6	30.6	18.8
0 braking	S	N	N	S	N	N	S	N	N
1 braking	S	N	N	S	N	N	S	N	N
2 or more braking	34.9	N	N	37.7	N	N	14.3	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	33.1	N	N	37.5	N	N	27.7	N	N
Not applicable ⁸	1.0	N	N	3.7	N	N	3.5	N	N
CAB TYPE									
Conventional cab	2.7	1.7	4.1	2.7	3.0	5.0	3.1	2.8	4.1
With sleeper	4.1	N	N	4.9	N	N	2.7	N	N
Without sleeper	3.4	N	N	4.0	N	N	3.9	N	N
Not reported	11.1	N	N	12.0	N	N	5.2	N	N
Cab over engine	8.2	7.2	7.0	12.2	8.7	12.7	10.3	7.4	16.7
With sleeper	13.7	N	N	18.0	N	N	11.8	N	N
Without sleeper	10.6	N	N	17.4	N	N	15.0	N	N
Not reported	40.4	N	N	42.5	N	N	13.2	N	N
Cab forward of engine	28.4	17.3	6.1	31.4	22.0	5.9	13.3	14.9	16.5
Cab beside engine	N	S	S	N	48.9	N	N	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁹	1.0	N	N	3.7	N	N	3.5	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	194.1	174.0	11.6	5 883.3	5 148.2	14.3	30.3	29.6	2.4
BUSINESS¹									
For-hire transportation or warehousing	48.1	36.7	31.1	3 270.7	2 827.7	15.7	68.0	77.1	-11.8
Vehicle leasing or rental	28.9	3.7	678.3	1 112.4	152.9	627.6	38.5	41.2	-6.5
Agriculture, forestry, fishing, or hunting	30.1	34.2	-12.0	127.7	255.0	-49.9	4.2	7.5	-43.1
Mining	S	1.3	S	S	37.8	S	S	30.2	S
Utilities	1.4	3.5	-60.3	10.3	54.3	-81.1	7.3	15.3	-52.4
Construction	30.5	30.8	-.9	331.9	431.6	-23.1	10.9	14.0	-22.4
Manufacturing	6.2	10.0	-37.8	157.6	351.8	-55.2	25.4	35.3	-27.9
Wholesale trade	8.2	9.5	-14.0	242.9	299.4	-18.9	29.8	31.6	-5.7
Retail trade	7.6	13.6	-44.2	108.8	282.1	-61.4	14.3	20.7	-30.9
Information services	V	N	N	V	N	N	V	N	N
Waste management, landscaping, or administrative/support services	7.6	N	N	141.7	N	N	18.7	N	N
Arts, entertainment, or recreation services .....	.9	N	N	S	N	N	S	N	N
Accommodation or food services	1.8	N	N	42.7	N	N	24.2	N	N
Other services	2.6	N	N	23.9	N	N	9.2	N	N
Personal transportation	S	7.9	S	S	34.0	S	S	4.3	S
Not reported	12.5	V	N	305.5	V	N	24.5	V	N
Not applicable ²	7.4	2.2	229.8	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks	134.6	121.8	10.6	1 922.5	1 542.3	24.7	14.3	12.7	12.7
Armored	S	N	N	S	N	N	S	N	N
Beverage	1.1	1.7	-32.0	13.9	28.1	-50.7	12.3	16.9	-27.5
Concrete mixer	1.2	1.4	-15.8	17.5	25.7	-32.1	14.9	18.4	-19.3
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane .....	.6	2.3	-72.4	S	24.6	S	S	10.7	S
Curtainside	V	N	N	V	N	N	V	N	N
Dump	28.2	17.0	66.3	274.0	214.4	27.8	9.7	12.6	-23.1
Flatbed, stake, or platform	29.3	35.1	-16.5	247.0	350.5	-29.5	8.4	10.0	-15.6
Low boy	S	1.3	S	S	7.1	S	S	5.5	S
Pole, logging, pulpwood, or pipe	S	V	S	S	V	S	S	V	S
Service, utility	5.1	3.9	29.8	52.3	39.2	33.4	10.3	10.0	2.8
Service, other	4.9	3.8	29.0	62.0	51.8	19.7	12.7	13.7	-7.2
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk .....	.9	.9	1.5	S	4.4	S	S	4.9	S
Tank, liquids or gases	4.1	4.9	-15.7	57.9	64.3	-10.0	14.1	13.3	6.7
Tow/Wrecker	3.6	4.2	-14.6	44.7	51.4	-13.0	12.4	12.2	1.9
Trash, garbage, or recycling	3.5	3.3	8.6	115.4	89.8	28.5	32.5	27.5	18.4
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	24.2	8.8	175.7	564.4	264.0	113.8	23.3	30.0	-22.5
Van, insulated nonrefrigerated .....	.5	S	S	S	S	S	S	S	S
Van, insulated refrigerated	1.7	1.1	59.5	57.6	28.0	105.3	34.2	26.6	28.7
Van, open top	7.5	12.2	-38.5	15.2	29.1	-47.7	2.0	2.4	-14.9
Van, step, walk-in, or multistop	15.5	17.2	-9.7	345.5	243.5	41.9	22.2	14.1	57.1
Van, other	1.0	N	N	13.0	N	N	12.8	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	59.5	52.2	13.9	3 960.7	3 605.9	9.8	66.6	69.0	-3.5
Automobile carrier .....	.5	.4	39.2	42.6	S	S	84.9	S	S
Beverage	2.8	1.0	181.4	64.0	16.5	286.8	22.5	16.4	37.4
Curtainside	S	N	N	S	N	N	S	N	N
Dump	4.7	2.7	71.7	114.6	166.3	-31.1	24.3	60.6	-59.9
Flatbed, stake, or platform	4.7	5.2	-9.6	273.0	282.8	-3.5	58.0	54.3	6.8
Livestock .....	.6	.3	102.7	24.6	S	S	42.0	S	S
Low boy	1.9	3.0	-37.0	27.4	123.7	-77.9	14.7	41.8	-64.9
Mobile home toter .....	.8	N	N	S	N	N	S	N	N
Open top	1.5	3.8	-59.9	28.4	98.2	-71.0	18.9	26.2	-27.8
Pole, logging, pulpwood, or pipe	S	S	S	S	S	S	S	S	S
Tank, dry bulk	1.4	1.2	22.9	101.7	100.4	1.3	71.6	86.9	-17.6
Tank, liquids or gases	1.6	2.2	-29.0	96.7	147.9	-34.6	60.9	66.1	-7.9
Van, basic enclosed	33.1	22.0	50.5	2 739.8	1 892.9	44.7	82.7	86.0	-3.8
Van, drop-frame .....	.5	4.9	-89.7	35.0	312.0	-88.8	69.8	64.2	8.7
Van, insulated nonrefrigerated .....	.3	S	S	S	S	S	S	S	S
Van, insulated refrigerated	3.5	3.3	5.7	327.6	307.7	6.5	93.3	92.7	.7
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	50.8	51.8	-2.0	78.6	96.8	-18.8	1.5	1.9	-17.1
5,000 to 9,999	23.0	22.6	1.4	156.7	152.8	2.6	6.8	6.8	1.2
10,000 to 19,999	23.7	29.2	-19.0	321.9	394.4	-18.4	13.6	13.5	.8
20,000 to 29,999	24.1	14.4	66.9	588.2	334.7	75.8	24.4	23.2	5.3
30,000 to 49,999	25.7	15.3	68.1	926.7	558.8	65.8	36.0	36.5	-1.3
50,000 to 74,999	10.4	10.9	-5.0	628.1	646.2	-2.8	60.5	59.1	2.3
75,000 or more	29.2	28.0	4.3	3 180.5	2 964.5	7.3	108.8	105.9	2.8
Not applicable ²	7.4	1.7	331.7	S	V	S	S	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	4.9	8.4	-41.8	26.3	38.2	-31.1	5.4	4.5	18.3
50 miles or less	90.4	97.4	-7.2	1 127.7	1 185.4	-4.9	12.5	12.2	2.5
51 to 100 miles	19.8	24.7	-19.8	550.7	631.0	-12.7	27.8	25.5	8.8
101 to 200 miles	7.6	8.9	-15.5	435.7	507.5	-14.2	57.7	56.8	1.6
201 to 500 miles	6.6	12.4	-46.3	575.4	954.9	-39.7	86.6	77.1	12.2
501 miles or more	16.6	20.4	-18.9	1 527.9	1 831.2	-16.6	92.2	89.6	2.9
Not reported	40.8	1.7	2 298.6	1 637.1	V	N	40.1	V	N
Not applicable ²	7.4	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	122.7	N	N	2 173.0	N	N	17.7	N	N
Operated in states other than the home base state	24.3	N	N	2 100.4	N	N	86.3	N	N
Not reported	39.7	N	N	1 607.3	N	N	40.5	N	N
Not applicable ²	7.4	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	97.8	N	N	4 477.8	N	N	45.8	N	N
7 to 11	40.3	N	N	951.2	N	N	23.6	N	N
2 to 6	36.2	N	N	405.5	N	N	11.2	N	N
1 or less	12.5	N	N	46.2	N	N	3.7	N	N
Vehicle not used	7.4	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	20.1	30.4	-33.8	171.9	294.7	-41.7	8.5	9.7	-11.9
Medium	40.0	36.6	9.4	602.5	434.2	38.8	15.0	11.9	26.9
Light-heavy	38.7	24.8	56.2	557.2	302.2	84.4	14.4	12.2	18.1
Heavy-heavy	95.3	82.3	15.9	4 551.7	4 117.1	10.6	47.8	50.1	-4.6
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2.2	6.8	-67.7	5.3	55.3	-90.4	2.4	8.1	-70.2
6,001 to 8,500	8.7	N	N	63.4	N	N	7.3	N	N
8,501 to 10,000	9.3	N	N	103.2	N	N	11.1	N	N
10,001 to 14,000	21.9	18.9	15.8	415.3	222.7	86.5	18.9	11.8	61.0
14,001 to 16,000	11.0	11.1	-2	109.6	123.7	-11.4	9.9	11.2	-11.2
16,001 to 19,500	7.1	6.6	6.8	77.6	87.7	-11.6	11.0	13.3	-17.2
19,501 to 26,000	38.7	24.8	56.2	557.2	302.2	84.4	14.4	12.2	18.1
26,001 to 33,000	16.3	13.5	21.1	192.5	226.1	-14.8	11.8	16.8	-29.7
33,001 to 40,000	6.1	8.0	-22.8	123.8	237.4	-47.8	20.2	29.8	-32.4
40,001 to 50,000	8.8	11.9	-25.5	243.5	370.2	-34.2	27.5	31.2	-11.8
50,001 to 60,000	9.9	9.2	7.0	326.8	491.6	-33.5	33.0	53.2	-37.9
60,001 to 80,000	53.6	39.0	37.5	3 639.5	2 760.0	31.9	67.9	70.8	-4.1
80,001 to 100,000 .....	.3	.4	-7.3	S	S	S	S	S	S
100,001 to 130,000	S	S	S	S	S	S	S	S	S
130,001 or more	V	S	S	V	S	S	V	S	S
TOTAL LENGTH (FEET)									
Less than 20.0	47.3	43.7	8.4	593.0	405.0	46.4	12.5	9.3	35.0
20.0 to 27.9	38.7	56.4	-31.3	402.7	708.5	-43.2	10.4	12.6	-17.3
28.0 to 35.9	32.9	18.1	81.4	694.4	370.6	87.3	21.1	20.5	3.3
36.0 to 40.9	11.9	2.4	388.1	555.2	50.2	1 007.1	46.7	20.6	126.3
41.0 to 44.9	11.2	1.5	651.2	386.6	38.5	903.2	34.7	26.0	33.5
45.0 to 49.9	6.7	2.4	184.2	258.9	34.7	645.5	38.7	14.8	162.3
50.0 to 54.9	6.0	4.3	39.6	122.9	150.2	-18.2	20.6	35.1	-41.4
55.0 to 59.9	6.8	10.8	-37.0	263.5	594.8	-55.7	38.8	55.2	-29.7
60.0 to 64.9	7.4	15.8	-53.3	401.1	1 159.7	-65.4	54.3	73.3	-25.9
65.0 to 69.9	11.7	7.7	51.3	879.0	659.1	33.4	75.1	85.2	-11.9
70.0 to 74.9	9.9	9.3	5.9	979.9	847.9	15.6	99.4	91.0	9.1
75.0 to 79.9	3.1	N	N	327.3	N	N	104.9	N	N
80.0 or more .....	.6	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	16.6	18.5	-10.3	267.0	576.7	-53.7	16.1	31.2	-48.4
5 to 6.9	50.2	65.3	-23.1	2 672.0	3 150.3	-15.2	53.2	48.3	10.3
7 to 8.9	26.6	29.6	-10.3	515.9	524.1	-1.6	19.4	17.7	9.7
9 to 10.9	19.1	28.0	-31.6	185.2	348.7	-46.9	9.7	12.5	-22.4
11 to 12.9	10.5	9.5	10.7	130.6	153.9	-15.2	12.4	16.2	-23.3
13 to 14.9	3.5	4.8	-26.5	38.7	66.3	-41.5	11.0	13.8	-20.4
15 or more	6.2	9.8	-36.2	92.7	89.8	3.2	14.9	9.2	61.7
15 to 20.9	6.2	9.7	-35.7	92.7	89.7	3.3	14.9	9.3	60.7
21 to 24.9	V	V	S	V	S	S	V	S	S
25 or more	V	V	N	V	V	N	V	V	N
Not reported	54.0	8.6	527.7	1 978.6	238.3	730.4	36.6	27.7	32.3
Not applicable ²	7.4	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicle 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	10.1	N	N	562.5	N	N	55.9	N	N
2001	12.6	N	N	732.8	N	N	58.2	N	N
2000	27.6	N	N	1 272.3	N	N	46.1	N	N
1999	15.0	N	N	809.6	N	N	53.9	N	N
1998	12.4	S	S	597.4	S	S	48.3	S	S
1997	10.1	5.7	76.3	489.4	356.5	37.3	48.5	62.3	-22.1
1996	7.6	11.7	-35.4	270.1	760.7	-64.5	35.7	65.0	-45.0
1995	10.7	13.0	-17.3	357.4	806.6	-55.7	33.3	62.3	-46.5
1994	5.9	10.3	-42.6	141.0	541.6	-74.0	23.8	52.4	-54.7
1993	6.8	11.1	-39.4	149.6	466.3	-67.9	22.2	41.8	-47.0
Pre-1993	75.3	120.4	-37.5	489.6	2 090.6	-76.6	6.5	17.4	-62.5
VEHICLE ACQUISITION									
New	89.4	65.9	35.7	3 755.0	2 550.9	47.2	42.0	38.7	8.5
Used	91.7	86.9	5.6	1 602.0	1 288.0	24.4	17.5	14.8	17.8
Not reported	13.1	21.3	-38.7	526.3	1 309.3	-59.8	40.3	61.5	-34.5
LEASE CHARACTERISTICS									
Leased	30.4	N	N	1 891.4	N	N	62.2	N	N
Lessee	13.6	N	N	883.3	N	N	65.1	N	N
Vehicle only	11.4	N	N	711.4	N	N	62.5	N	N
Vehicle with driver	1.9	N	N	157.5	N	N	80.8	N	N
Not reported	S	N	N	S	N	N	S	N	N
Lessor	13.7	N	N	902.8	N	N	65.8	N	N
Vehicle only	11.5	N	N	748.7	N	N	64.8	N	N
Vehicle with driver	2.2	N	N	154.1	N	N	71.2	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	3.1	N	N	105.3	N	N	33.9	N	N
Not leased	116.9	N	N	3 036.4	N	N	26.0	N	N
Not reported	46.8	N	N	955.4	N	N	20.4	N	N
Length of leasing agreement:									
Leased	30.4	N	N	1 891.4	N	N	62.2	N	N
1 to 11 months	2.9	N	N	174.3	N	N	59.7	N	N
12 months or more	27.1	N	N	1 684.0	N	N	62.2	N	N
Not reported .....	.4	N	N	33.1	N	N	79.2	N	N
Provisions of lease ⁴ :									
Financing only	17.0	N	N	1 188.9	N	N	70.1	N	N
Full maintenance	13.1	N	N	866.2	N	N	66.1	N	N
Payment of taxes	12.8	N	N	876.1	N	N	68.6	N	N
Obtaining licenses and permits	13.7	N	N	947.2	N	N	69.0	N	N
Recordkeeping	10.1	N	N	712.8	N	N	70.3	N	N
Fuel contract	6.1	N	N	455.7	N	N	75.0	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	107.5	N	N	1 435.6	N	N	13.4	N	N
Motor carrier	37.9	N	N	2 622.8	N	N	69.2	N	N
Owner operator	12.1	N	N	705.3	N	N	58.2	N	N
Rental	29.2	N	N	1 117.1	N	N	38.3	N	N
Personal transportation	S	N	N	S	N	N	S	N	N
Not applicable ²	7.4	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	22.1	N	N	1 716.3	N	N	77.7	N	N
Common	20.2	N	N	1 138.4	N	N	56.5	N	N
Not reported	7.7	N	N	473.4	N	N	61.1	N	N
Not applicable ⁵	144.1	N	N	2 555.2	N	N	17.7	N	N
Type of service:									
Truckload	31.0	28.6	8.4	2 410.3	2 318.1	4.0	77.7	81.0	-4.1
Less-than truckload	10.7	6.2	73.8	439.9	333.7	31.8	40.9	54.0	-24.1
Not reported	8.2	N	N	477.9	N	N	58.0	N	N
Not applicable ⁵	144.1	N	N	2 555.2	N	N	17.7	N	N
Source of hauls:									
Shippers or receivers	36.1	N	N	2 534.4	N	N	70.1	N	N
Brokers	2.8	N	N	175.3	N	N	63.6	N	N
Centralized markets or exchanges	S	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	10.9	N	N	591.9	N	N	54.5	N	N
Not applicable ⁵	144.1	N	N	2 555.2	N	N	17.7	N	N
HAZARDOUS MATERIALS CARRIED⁶									
Carrying hazardous materials	11.8	13.0	-9.5	914.3	896.0	2.0	77.7	68.9	12.8
Not carrying hazardous materials	119.1	136.9	-13.0	3 005.8	3 670.7	-18.1	25.2	26.8	-5.9
Not reported	26.7	24.1	10.6	843.6	581.5	45.1	31.6	24.1	31.2
Not applicable ⁷	36.6	N	N	1 119.6	N	N	30.6	N	N
EQUIPMENT TYPE⁴									
Aerial work platform/bucket .....	.8	N	N	S	N	N	S	N	N
Air bag(s) (safety device only)	16.7	19.3	-13.2	855.2	1 395.4	-38.7	51.1	72.4	-29.4
Air compressor (except air brakes)	8.5	N	N	439.1	N	N	51.5	N	N
Air-conditioning	108.1	68.9	57.0	5 018.7	3 844.8	30.5	46.4	55.8	-16.8
Air springs	24.8	N	N	1 745.6	N	N	70.4	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent	2002 truck	1997 truck	Percent	2002 average	1997 average	Percent
	(thousands)	(thousands)	change	miles	miles	change	miles per	miles per	change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE⁴—Con.									
Antilock brake system	78.4	20.5	281.4	3 895.5	1 063.4	266.3	49.7	51.8	-3.9
Collision warning system	1.8	N	N	112.7	N	N	61.6	N	N
Computerized drive train control unit	5.7	N	N	326.3	N	N	57.4	N	N
Crane	2.0	N	N	18.3	N	N	9.1	N	N
Electronic vehicle identification device	5.6	4.2	32.1	514.9	419.2	22.8	92.6	99.7	-7.0
Engine retarder/brake	27.9	21.9	27.2	2 156.6	1 800.4	19.8	77.2	82.0	-5.8
Front-wheel drive	V	V	N	V	V	N	V	V	N
Hoist	30.9	N	N	254.1	N	N	8.2	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	7.3	N	N	365.5	N	N	49.9	N	N
Internet access .....	.4	N	N	40.7	N	N	97.5	N	N
Lift gate	8.9	N	N	153.9	N	N	17.2	N	N
Mounting bar for snowplow	2.0	N	N	26.3	N	N	13.3	N	N
Navigational system .....	.5	1.9	-73.3	69.1	188.0	-63.3	137.7	100.1	37.5
Power take-off	42.5	N	N	799.8	N	N	18.8	N	N
Radial tires	112.1	112.4	-2	4 446.6	4 238.2	4.9	39.7	37.7	5.2
Reflective material in addition to those required by law	17.2	36.9	-53.3	700.2	1 738.1	-59.7	40.6	47.1	-13.7
Road speed governor	69.5	51.4	35.3	3 456.4	2 689.0	28.5	49.7	52.3	-5.0
Toolbox	34.6	N	N	791.5	N	N	22.8	N	N
Trip recorder or on-board computer with communication capabilities	11.8	N	N	1 188.5	N	N	100.6	N	N
Trip recorder or on-board computer without communication capabilities	4.7	N	N	271.8	N	N	57.6	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	5.9	N	N	92.1	N	N	15.7	N	N
Transmission type:									
Automatic	37.4	N	N	642.2	N	N	17.2	N	N
Manual	115.2	N	N	3 532.5	N	N	30.7	N	N
Semiautomated manual	1.2	N	N	69.6	N	N	58.2	N	N
Automated manual .....	.8	N	N	57.3	N	N	76.1	N	N
Not reported	39.5	N	N	1 581.8	N	N	40.0	N	N
Braking system:									
Hydraulic (standard)	42.9	41.8	2.5	594.6	417.4	42.4	13.9	10.0	39.0
Hydraulic with power assist	34.6	43.3	-20.1	332.3	538.0	-38.2	9.6	12.4	-22.7
Air	74.8	82.7	-9.6	3 429.7	4 030.4	-14.9	45.9	48.8	-5.9
Other	V	1.6	N	V	17.1	N	V	10.9	N
Not reported	41.9	N	N	1 526.7	N	N	36.5	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	73.7	67.2	9.7	792.6	497.6	59.3	10.8	7.4	45.1
Diesel	112.5	103.8	8.4	5 082.5	4 625.4	9.9	45.2	44.6	1.4
Natural gas	V	N	N	V	N	N	V	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	V	N	N	V	N	N	V	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	V	N	N	V	N	N	V	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	7.4	N	N	S	N	N	S	N	N
Cylinders ⁸ :									
4 cylinders	2.6	1.8	42.5	42.3	31.6	33.9	16.1	17.1	-6.0
6 cylinders	95.0	76.6	24.1	4 802.5	4 167.4	15.2	50.6	54.4	-7.1
8 cylinders	72.4	61.2	18.3	911.4	668.1	36.4	12.6	10.9	15.3
Other	24.1	34.4	-30.0	127.1	281.1	-54.8	5.3	8.2	-35.4
Cubic inch displacement ⁸ :									
Gasoline fuel	73.7	67.2	9.7	792.6	497.6	59.3	10.8	7.4	45.1
Less than 200	S	S	S	S	S	S	S	S	S
200 to 299	3.3	1.8	80.3	73.6	24.7	198.3	22.5	13.6	65.5
300 to 349	3.7	1.8	102.6	50.1	S	S	13.7	S	S
350 to 399	32.6	25.1	29.7	380.2	273.6	39.0	11.7	10.9	7.2
400 or more	16.1	9.6	68.4	256.9	101.2	153.7	15.9	10.6	50.6
Not available	17.8	28.3	-37.0	29.6	79.7	-62.8	1.7	2.8	-41.0
Diesel fuel	112.5	103.8	8.4	5 082.5	4 625.4	9.9	45.2	44.6	1.4
Less than 400	9.6	11.3	-15.0	156.1	192.8	-19.1	16.3	17.1	-4.8
400 to 599	31.2	26.9	15.7	685.0	548.7	24.9	22.0	20.4	7.9
600 to 799	32.6	21.3	53.0	1 927.4	1 398.8	37.8	59.1	65.6	-9.9
800 or more	25.3	29.4	-14.1	1 856.0	2 125.7	-12.7	73.4	72.3	1.6
Not available	13.8	14.8	-6.7	458.1	359.4	27.5	33.2	24.3	36.5
Other fuel	S	1.7	S	S	16.9	S	S	10.2	S
Less than 400	S	.9	S	S	S	S	S	S	S
400 or more	S	S	S	S	S	S	S	S	S
Not available	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ²	7.4	N	N	S	N	N	S	N	N
REFUELING LOCATION									
Gas station	58.8	N	N	800.0	N	N	13.6	N	N
Truck stop	35.0	N	N	2 377.5	N	N	67.9	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	84.0	N	N	2 500.3	N	N	29.8	N	N
Other company's/contractor's facility not open to the public	4.6	N	N	101.6	N	N	22.0	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	4.4	N	N	101.3	N	N	23.2	N	N
Not applicable ²	7.4	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁴									
General maintenance performed by:									
None performed	2.9	S	S	12.9	S	S	4.4	S	S
Company-owned maintenance facility	90.8	64.3	41.2	4 027.3	2 462.4	63.5	44.3	38.3	15.8
General repair business or private mechanic ..	54.2	43.2	25.2	1 792.7	1 287.8	39.2	33.1	29.8	10.9
Dealership service department	17.0	15.2	11.5	999.5	741.9	34.7	58.9	48.8	20.9
Leasing company	3.9	3.0	30.0	212.1	220.9	-4.0	54.7	74.0	-26.1
Individual not employed/paid by any maintenance type facility									
Other	41.1	62.1	-33.8	450.0	1 023.1	-56.0	10.9	16.5	-33.6
Not reported	4.6	2.8	N	V	112.5	N	V	40.5	N
Not applicable ²	7.4	11.5	-59.9	120.5	444.3	-72.9	26.1	38.6	-32.4
Extensive repairs performed by:									
None performed	122.5	5.4	2 149.6	3 318.1	100.9	3 189.4	27.1	18.5	46.2
Company-owned maintenance facility	8.7	31.8	-72.6	419.1	1 215.1	-65.5	48.1	38.2	26.0
General repair business or private mechanic ..	10.5	38.2	-72.6	439.9	947.3	-53.6	42.0	24.8	69.4
Dealership service department	6.2	25.6	-75.7	413.3	1 210.0	-65.8	66.5	47.3	40.6
Leasing company	S	1.3	S	S	78.4	S	S	59.2	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	1.7	9.3	-81.4	170.8	589.2	-71.0	99.1	63.4	56.2
Other	5.5	12.0	-54.4	87.1	171.3	-49.2	15.9	14.3	11.4
Not reported	V	S	S	V	S	S	V	S	S
Not applicable ²	7.4	63.5	N	V	1 370.6	N	V	21.6	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	124.8	116.0	7.6	1 820.9	1 483.0	22.8	14.6	12.8	14.1
3 axles	108.5	97.4	11.4	1 434.2	1 104.7	29.8	13.2	11.3	16.6
4 axles	14.5	12.3	18.0	355.9	164.0	117.0	24.6	13.4	83.8
5 axles or more .....	.8	6.3	-88.1	15.5	214.4	-92.8	20.5	33.9	-39.6
Not reported	S	N	N	13.9	N	N	16.5	N	N
Combinations									
Single-unit trucks with trailer	69.3	58.0	19.4	4 062.4	3 665.1	10.8	58.6	63.1	-7.2
3 axles	10.9	5.8	87.0	101.6	59.2	71.6	9.4	10.2	-8.2
4 axles	S	S	S	S	S	S	S	S	S
5 axles or more	S	4.6	S	71.7	51.8	38.5	S	11.2	S
Not reported	S	S	S	12.1	S	S	14.5	S	S
Truck-tractors with single trailer	58.1	52.0	11.7	3 926.1	3 589.7	9.4	67.6	69.0	-2.1
3 axles	2.4	1.7	37.1	51.7	45.2	14.3	21.8	26.1	-16.6
4 axles	5.3	5.2	2.8	208.7	212.8	-1.9	39.4	41.3	-4.6
5 axles or more	47.3	45.1	4.8	3 465.2	3 331.7	4.0	73.3	73.8	-0.8
Not reported	3.1	N	N	200.5	N	N	63.8	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	S	S	S	S	S	S	S	S
7 axles	S	S	S	S	V	S	S	V	S
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	120.4	112.3	7.2	1 793.2	1 558.4	15.1	14.9	13.9	7.3
2	72.1	59.3	21.5	4 064.8	3 488.2	16.5	56.4	58.8	-4.1
3 or more	1.1	2.4	-54.7	15.5	101.5	-84.8	14.2	42.2	-66.4
Not reported	S	V	S	S	V	S	S	V	S
Total liftable axles and locations ⁹ :									
None	184.8	62.4	196.3	5 596.9	1 896.0	195.2	30.3	30.4	-4
1	7.6	7.6	-5	238.9	201.9	18.3	31.5	26.5	19.0
Forward of the drive axle	6.1	N	N	203.3	N	N	33.2	N	N
Below the chassis .....	.5	N	N	S	N	N	S	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported .....	.8	N	N	25.3	N	N	30.2	N	N
2 or more .....	.8	.5	63.6	13.9	21.8	-36.5	16.5	42.6	-61.2
Forward of the drive axle .....	.8	N	N	12.5	N	N	16.5	N	N
Below the chassis .....	.7	N	N	9.6	N	N	14.3	N	N
Beyond the chassis	V	N	N	V	N	N	V	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported .....	.9	N	N	33.6	N	N	35.4	N	N
Total liftable axles and number of braking axles:									
None	184.8	62.4	196.3	5 596.9	1 896.0	195.2	30.3	30.4	-4
1	7.6	7.6	-5	238.9	201.9	18.3	31.5	26.5	19.0
0 braking	1.6	N	N	50.3	N	N	31.6	N	N
1 braking	5.8	N	N	188.2	N	N	32.5	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more .....	.8	.5	63.6	13.9	21.8	-36.5	16.5	42.6	-61.2
0 braking	S	N	N	S	N	N	S	N	N
1 braking	S	N	N	S	N	N	S	N	N
2 or more braking .....	.7	N	N	11.9	N	N	17.7	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported .....	.9	N	N	33.6	N	N	35.4	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	178.5	138.8	28.5	5 306.0	4 231.8	25.4	29.7	30.5	-2.4
With sleeper	29.5	N	N	2 545.3	N	N	86.2	N	N
Without sleeper	142.3	N	N	2 284.6	N	N	16.1	N	N
Not reported	6.7	N	N	476.0	N	N	71.5	N	N
Cab over engine	14.5	22.5	-35.5	559.7	658.1	-15.0	38.6	29.3	31.8
With sleeper	4.2	N	N	298.5	N	N	71.4	N	N
Without sleeper	9.8	N	N	197.6	N	N	20.1	N	N
Not reported .....	.5	N	N	63.5	N	N	126.8	N	N
Cab forward of engine	1.0	5.5	-81.5	16.2	106.1	-84.7	16.1	19.5	-17.3
Cab beside engine	V	S	S	V	20.0	N	V	S	S
Not reported	S	N	N	S	N	N	S	N	N

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

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

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

³Truck-tractors not in use.

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

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

⁶Distributed miles data are available in Table 8.

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

⁸Data were derived from administrative records.

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

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

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

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
Total	2.4	.9	2.9	2.4	2.3	3.9	2.9	2.4	3.8
BUSINESS									
For-hire transportation or warehousing	3.8	3.9	7.2	4.1	3.9	6.6	3.2	2.9	3.8
Vehicle leasing or rental	6.9	20.9	171.4	7.2	21.4	164.3	4.1	18.7	17.9
Agriculture, forestry, fishing, or hunting	6.7	6.4	8.2	14.8	14.8	10.5	13.6	13.9	11.1
Mining	S	31.8	S	S	37.2	S	S	31.9	S
Utilities	34.8	24.0	16.8	42.6	34.2	10.3	26.3	24.2	17.0
Construction	15.5	6.9	16.8	12.4	9.2	11.9	9.7	7.2	9.4
Manufacturing	14.8	11.8	11.8	22.5	12.9	11.6	17.9	10.8	15.0
Wholesale trade	13.2	12.4	15.5	16.4	13.3	17.1	11.6	8.9	13.8
Retail trade	14.3	11.1	10.1	17.4	13.7	8.5	12.4	9.6	10.8
Information services	N	N	N	N	N	N	N	N	N
Waste management, landscaping, or administrative/support services	13.4	N	N	15.1	N	N	10.5	N	N
Arts, entertainment, or recreation services	45.9	N	N	S	N	N	S	N	N
Accommodation or food services	30.5	N	N	35.4	N	N	26.7	N	N
Other services	24.9	N	N	29.9	N	N	17.3	N	N
Personal transportation	S	13.5	S	S	25.4	S	S	21.1	S
Not reported	10.8	N	N	14.7	N	N	12.7	N	N
Not applicable ¹	14.3	25.8	97.4	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks	3.5	1.4	4.2	4.3	5.1	8.3	4.2	4.9	7.2
Armored	S	N	N	S	N	N	S	N	N
Beverage	39.3	36.1	36.3	46.7	43.7	31.6	27.9	24.7	27.0
Concrete mixer	26.2	22.3	29.0	29.1	24.1	25.7	12.6	9.1	12.5
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	48.3	25.2	15.0	S	30.8	S	S	29.3	S
Curtainside	N	N	N	N	N	N	N	N	N
Dump	16.6	9.5	31.8	13.9	12.4	23.8	10.7	10.8	11.7
Flatbed, stake, or platform	7.0	6.4	7.9	14.1	11.3	12.7	12.2	9.3	13.0
Low boy	S	40.2	S	S	48.3	S	S	23.7	S
Pole, logging, pulpwood, or pipe	S	N	S	S	N	S	S	N	S
Service, utility	18.9	23.0	38.7	29.2	44.0	70.5	22.1	37.1	44.4
Service, other	19.2	23.7	39.4	27.3	28.8	47.4	19.5	16.3	23.6
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	40.7	45.7	62.1	S	45.4	S	S	29.1	S
Tank, liquids or gases	18.9	18.6	22.4	29.0	27.8	36.1	26.0	21.1	35.7
Tow/Wrecker	22.1	22.1	26.7	33.0	26.4	36.8	24.6	14.6	29.2
Trash, garbage, or recycling	15.3	20.2	27.5	17.6	24.0	38.2	9.1	14.7	20.5
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	7.9	14.4	45.3	9.8	21.0	49.6	5.8	15.4	12.7
Van, insulated nonrefrigerated	48.1	S	S	S	S	S	S	S	S
Van, insulated refrigerated	31.6	43.9	86.3	33.2	47.6	119.2	10.8	13.6	22.4
Van, open top	14.9	12.1	11.8	31.4	17.0	18.7	28.8	12.6	26.8
Van, step, walk-in, or multistop	10.3	10.4	13.2	11.9	13.9	25.9	5.8	9.2	17.1
Van, other	40.1	N	N	42.6	N	N	20.2	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	2.3	1.4	3.1	3.2	2.6	4.5	2.8	2.5	3.6
Automobile carrier	40.5	44.3	83.5	42.1	S	S	11.4	S	S
Beverage	23.3	26.3	98.9	25.5	28.2	147.0	13.2	10.1	22.9
Curtainside	S	N	N	S	N	N	S	N	N
Dump	13.3	15.7	35.4	21.7	18.5	19.7	17.7	9.8	8.1
Flatbed, stake, or platform	13.3	11.8	16.0	15.8	13.9	20.4	9.0	9.1	13.6
Livestock	37.5	49.6	126.0	47.3	S	S	29.0	S	S
Low boy	22.3	15.1	17.0	36.5	20.8	9.3	30.7	14.2	11.9
Mobile home toter	40.9	N	N	S	N	N	S	N	N
Open top	23.3	13.3	10.8	36.5	23.1	12.5	28.1	18.9	24.5
Pole, logging, pulpwood, or pipe	S	S	S	S	S	S	S	S	S
Tank, dry bulk	23.8	24.6	42.0	27.6	26.2	38.5	13.9	9.0	13.6
Tank, liquids or gases	22.6	17.5	20.3	28.0	20.1	22.5	16.6	10.0	17.8
Van, basic enclosed	3.8	4.5	8.8	4.5	5.3	10.1	2.7	2.9	3.8
Van, drop-frame	40.5	12.9	4.4	45.6	13.5	5.3	21.1	8.6	24.8
Van, insulated nonrefrigerated	49.7	S	S	S	S	S	S	S	S
Van, insulated refrigerated	14.9	14.2	21.8	17.3	15.5	24.7	8.7	6.2	10.8
Other	S	N	N	S	N	N	S	N	N
Not applicable ²	31.6	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	4.8	4.9	6.7	6.7	6.7	7.7	4.8	4.5	5.4
5,000 to 9,999	20.2	8.2	22.1	18.2	8.5	20.6	2.9	2.0	3.5
10,000 to 19,999	7.7	7.2	8.6	7.9	7.4	8.9	1.9	1.8	2.6
20,000 to 29,999	7.6	10.0	21.1	7.7	10.0	22.2	1.1	1.3	1.8
30,000 to 49,999	7.1	9.3	19.6	7.0	9.1	19.0	1.1	1.4	1.7
50,000 to 74,999	9.3	8.9	12.2	9.3	8.8	12.5	1.3	1.1	1.7
75,000 or more	4.3	4.1	6.2	4.5	4.2	6.6	1.4	1.3	1.9
Not applicable ¹	14.3	27.9	135.4	S	N	S	S	N	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	18.0	13.9	13.3	24.0	23.2	23.0	19.3	19.8	32.7
50 miles or less	5.6	2.7	5.8	6.0	5.2	7.6	5.5	4.6	7.3
51 to 100 miles	8.0	7.4	8.8	9.7	8.4	11.2	7.2	6.5	10.5
101 to 200 miles	12.0	11.2	13.9	12.9	11.4	14.8	7.6	7.0	10.5
201 to 500 miles	11.8	8.5	7.8	12.5	8.7	9.2	5.8	5.3	8.8
501 miles or more	6.5	5.5	6.9	7.3	5.7	7.7	4.2	3.4	5.5
Not reported	5.5	27.9	681.9	6.0	N	N	4.0	N	N
Not applicable	14.3	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	4.2	N	N	4.5	N	N	4.5	N	N
Operated in states other than the home base state	5.4	N	N	6.0	N	N	3.5	N	N
Not reported	5.6	N	N	6.1	N	N	4.2	N	N
Not applicable ¹	14.3	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	2.8	N	N	3.2	N	N	2.7	N	N
7 to 11	11.9	N	N	7.9	N	N	9.9	N	N
2 to 6	5.9	N	N	10.7	N	N	9.8	N	N
1 or less	11.1	N	N	33.4	N	N	32.2	N	N
Vehicle not used	14.3	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	8.8	7.1	7.5	16.7	11.6	11.9	14.3	9.0	14.9
Medium	12.1	6.3	14.9	9.0	11.1	19.8	8.4	9.0	15.7
Light-heavy	5.8	8.2	15.7	9.7	15.1	33.2	7.8	13.1	18.0
Heavy-heavy	2.3	2.4	3.8	2.8	2.6	4.3	2.9	2.9	3.9
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	28.9	15.4	10.6	47.8	26.6	5.3	38.5	20.1	13.0
6,001 to 8,500	14.1	N	N	24.1	N	N	19.5	N	N
8,501 to 10,000	13.4	N	N	23.9	N	N	19.8	N	N
10,001 to 14,000	8.4	9.8	14.9	10.3	13.5	31.6	5.9	9.3	17.8
14,001 to 16,000	40.3	13.0	42.3	29.1	19.7	31.1	20.0	14.9	22.1
16,001 to 19,500	15.8	17.1	24.9	22.4	36.3	37.7	16.1	31.4	29.2
19,501 to 26,000	5.8	8.2	15.7	9.7	15.1	33.2	7.8	13.1	18.0
26,001 to 33,000	9.9	11.2	18.1	16.8	15.7	19.5	14.1	12.8	13.4
33,001 to 40,000	15.1	12.7	15.2	21.0	15.4	13.6	17.4	13.4	14.9
40,001 to 50,000	10.9	9.0	10.6	17.0	12.9	14.0	14.0	10.8	15.7
50,001 to 60,000	9.6	9.1	14.1	14.1	11.5	12.1	10.5	7.3	7.9
60,001 to 80,000	2.5	2.9	5.3	3.4	3.8	6.8	2.7	2.7	3.6
80,001 to 100,000	49.6	44.3	61.6	S	S	S	S	S	S
100,001 to 130,000	S	S	S	S	S	S	S	S	S
130,001 or more	N	S	S	N	S	S	N	S	S
TOTAL LENGTH (FEET)									
Less than 20.0	5.0	5.5	8.1	8.4	11.0	20.3	6.8	9.4	15.7
20.0 to 27.9	5.7	4.5	5.0	10.0	7.9	7.2	8.7	6.7	9.1
28.0 to 35.9	6.4	8.9	19.9	8.4	13.7	30.0	5.6	10.5	12.3
36.0 to 40.9	10.0	22.9	121.9	11.3	25.2	306.3	8.5	20.9	51.2
41.0 to 44.9	39.5	33.3	388.0	14.6	40.3	430.1	33.3	29.8	59.7
45.0 to 49.9	13.4	23.4	76.7	16.3	35.5	291.4	13.3	33.1	93.6
50.0 to 54.9	14.1	13.3	27.0	19.7	18.1	21.9	15.0	13.9	12.0
55.0 to 59.9	12.1	7.6	9.0	14.7	9.5	7.8	9.8	6.2	8.2
60.0 to 64.9	10.3	5.7	5.5	12.8	6.9	5.0	8.1	3.9	6.6
65.0 to 69.9	7.7	9.3	18.2	9.2	10.1	18.2	5.1	5.3	6.4
70.0 to 74.9	8.4	8.0	12.3	9.4	8.8	14.9	4.2	3.7	6.1
75.0 to 79.9	16.7	N	N	18.1	N	N	7.3	N	N
80.0 or more	43.7	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	8.4	7.5	10.1	11.9	9.2	7.0	10.4	7.9	6.8
5 to 6.9	4.0	3.5	4.1	4.7	3.6	5.0	4.1	3.6	6.0
7 to 8.9	17.6	7.1	17.0	12.8	10.4	16.2	15.0	9.2	19.3
9 to 10.9	9.0	7.6	8.1	16.1	13.3	11.1	13.4	11.1	13.5
11 to 12.9	12.6	14.1	20.9	17.9	22.4	24.3	12.8	17.5	16.6
13 to 14.9	21.4	19.8	21.4	26.5	24.2	21.0	18.0	14.0	18.2
15 or more	16.5	13.5	13.6	25.0	19.3	32.5	19.2	13.7	38.1
15 to 20.9	16.5	13.6	13.7	25.0	19.3	32.6	19.2	13.7	37.9
21 to 24.9	N	S	S	N	S	S	N	S	S
25 or more	N	N	N	N	N	N	N	N	N
Not reported	4.5	11.6	78.1	5.3	17.7	153.3	3.8	15.4	20.9
Not applicable ¹	14.3	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	S	N	N	S	N	N	S	N	N
2002	12.0	N	N	13.2	N	N	10.3	N	N
2001	10.4	N	N	10.9	N	N	7.8	N	N
2000	16.8	N	N	7.7	N	N	14.4	N	N
1999	9.0	N	N	9.3	N	N	6.2	N	N
1998	9.8	S	S	10.6	S	S	7.4	S	S
1997	11.0	14.3	31.8	11.8	15.3	26.5	8.2	11.3	10.9
1996	13.0	10.3	10.7	14.5	9.9	6.2	9.4	7.4	6.6
1995	11.0	9.6	12.1	12.3	9.6	6.9	9.3	7.3	6.3
1994	14.5	11.3	10.6	19.5	10.9	5.8	15.6	8.5	8.1
1993	14.3	10.8	10.8	16.6	10.9	6.4	11.0	8.2	7.3
Pre-1993	3.5	2.1	2.6	7.8	4.3	2.1	7.1	3.9	3.1
VEHICLE ACQUISITION									
New	5.7	4.0	9.4	3.8	4.6	8.8	5.1	3.9	7.0
Used	3.0	3.2	4.6	5.6	5.8	10.0	5.2	5.3	8.8
Not reported	9.7	6.7	7.2	11.7	6.6	5.4	9.6	5.1	7.1
LEASE CHARACTERISTICS									
Leased	5.5	N	N	5.9	N	N	4.1	N	N
Lessee	8.9	N	N	9.6	N	N	6.3	N	N
Vehicle only	10.0	N	N	10.9	N	N	7.4	N	N
Vehicle with driver	21.7	N	N	23.3	N	N	7.9	N	N
Not reported	S	N	N	S	N	N	S	N	N
Lessor	8.7	N	N	9.1	N	N	5.7	N	N
Vehicle only	9.5	N	N	9.9	N	N	6.3	N	N
Vehicle with driver	22.6	N	N	24.4	N	N	12.8	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	18.6	N	N	21.9	N	N	16.0	N	N
Not leased	4.4	N	N	4.0	N	N	4.4	N	N
Not reported	5.0	N	N	8.5	N	N	7.8	N	N
Length of leasing agreement:									
Leased	5.5	N	N	5.9	N	N	4.1	N	N
1 to 11 months	18.7	N	N	21.3	N	N	11.1	N	N
12 months or more	6.0	N	N	6.4	N	N	4.5	N	N
Not reported	44.4	N	N	47.6	N	N	17.3	N	N
Provisions of lease:									
Financing only	7.8	N	N	8.0	N	N	5.2	N	N
Full maintenance	9.1	N	N	9.4	N	N	5.8	N	N
Payment of taxes	8.8	N	N	9.1	N	N	5.4	N	N
Obtaining licenses and permits	8.4	N	N	8.8	N	N	5.2	N	N
Recordkeeping	10.1	N	N	10.3	N	N	6.3	N	N
Fuel contract	13.4	N	N	13.6	N	N	7.7	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	4.7	N	N	5.7	N	N	5.3	N	N
Motor carrier	4.7	N	N	5.0	N	N	3.7	N	N
Owner operator	8.6	N	N	9.7	N	N	6.6	N	N
Rental	6.9	N	N	7.2	N	N	4.1	N	N
Personal transportation	S	N	N	S	N	N	S	N	N
Not applicable ¹	14.3	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	5.9	N	N	6.4	N	N	3.8	N	N
Common	7.1	N	N	7.9	N	N	6.0	N	N
Not reported	12.0	N	N	13.2	N	N	9.1	N	N
Not applicable ³	3.4	N	N	4.1	N	N	4.1	N	N
Type of service:									
Truckload	4.6	4.2	6.8	5.2	4.5	7.1	3.4	2.9	4.3
Less-than truckload	10.8	14.5	31.3	12.1	13.7	24.1	8.5	9.8	9.9
Not reported	11.9	N	N	13.1	N	N	9.6	N	N
Not applicable ³	3.4	N	N	4.1	N	N	4.1	N	N
Source of hauls:									
Shippers or receivers	4.6	N	N	5.0	N	N	3.6	N	N
Brokers	17.0	N	N	20.6	N	N	11.7	N	N
Centralized markets or exchanges	S	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	10.2	N	N	11.5	N	N	8.4	N	N
Not applicable ³	3.4	N	N	4.1	N	N	4.1	N	N
HAZARDOUS MATERIALS CARRIED⁴									
Carrying hazardous materials	9.3	8.8	11.6	9.9	8.9	13.5	7.2	6.2	10.7
Not carrying hazardous materials	4.3	1.8	4.1	4.1	3.3	4.3	4.6	3.1	5.2
Not reported	6.9	7.5	11.3	8.9	9.3	18.7	7.7	8.5	15.1
Not applicable ⁵	5.9	N	N	7.2	N	N	4.9	N	N

See footnotes at end of table.

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

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

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	49.8	N	N	S	N	N	S	N	N
Air bag(s) (safety device only)	8.5	6.8	9.5	9.4	6.8	7.1	7.1	5.0	6.2
Air compressor (except air brakes)	11.3	N	N	13.4	N	N	10.6	N	N
Air-conditioning	4.7	3.2	8.9	2.9	3.2	5.6	4.3	3.0	4.3
Air springs	5.4	N	N	6.4	N	N	4.4	N	N
Antilock brake system	6.4	8.0	39.1	3.8	8.2	33.0	5.6	6.8	8.5
Collision warning system	25.1	N	N	25.5	N	N	17.4	N	N
Computerized drive train control unit	14.3	N	N	15.7	N	N	11.1	N	N
Crane	30.3	N	N	38.6	N	N	27.1	N	N
Electronic vehicle identification device	13.1	13.4	24.8	13.3	14.0	23.8	7.4	7.1	9.5
Engine retarder/brake	4.7	5.0	8.8	5.7	5.6	9.5	3.7	3.4	4.8
Front-wheel drive	N	N	N	N	N	N	N	N	N
Hoist	6.6	N	N	10.6	N	N	9.7	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	12.4	N	N	14.5	N	N	10.8	N	N
Internet access	44.4	N	N	44.7	N	N	5.2	N	N
Lift gate	13.3	N	N	16.4	N	N	10.0	N	N
Mounting bar for snowplow	29.7	N	N	37.6	N	N	28.0	N	N
Navigational system	40.5	19.2	12.0	45.2	20.5	18.2	20.3	7.3	29.6
Power take-off	5.1	N	N	7.9	N	N	7.2	N	N
Radial tires	4.6	2.4	5.1	3.2	2.9	4.6	4.3	2.8	5.4
Reflective material in addition to those required by law	8.4	5.5	4.7	10.8	5.7	4.9	8.8	5.0	8.7
Road speed governor	3.6	4.1	7.4	4.0	4.3	7.5	3.1	3.9	4.8
Toolbox	13.7	N	N	9.6	N	N	11.9	N	N
Trip recorder or on-board computer with communication capabilities	7.7	N	N	8.5	N	N	3.9	N	N
Trip recorder or on-board computer without communication capabilities	15.6	N	N	16.9	N	N	11.3	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	16.0	N	N	21.5	N	N	17.3	N	N
Transmission type:									
Automatic	12.8	N	N	10.1	N	N	10.6	N	N
Manual	2.4	N	N	3.8	N	N	3.6	N	N
Semiautomated manual	28.8	N	N	37.6	N	N	29.5	N	N
Automated manual	33.0	N	N	36.2	N	N	15.1	N	N
Not reported	5.6	N	N	6.0	N	N	3.9	N	N
Braking system:									
Hydraulic (standard)	5.4	5.7	8.1	10.0	10.1	20.2	8.8	8.4	16.9
Hydraulic with power assist	6.3	5.6	6.7	11.5	8.8	9.0	9.7	7.0	9.3
Air	2.8	2.5	3.4	3.8	2.8	4.0	3.5	3.0	4.3
Other	N	32.0	N	N	47.6	N	N	43.9	N
Not reported	11.6	N	N	6.4	N	N	9.5	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	6.7	3.8	8.5	7.3	8.3	17.6	6.1	7.4	14.0
Diesel	2.2	2.4	3.5	2.7	2.6	4.1	2.6	2.7	3.8
Natural gas	N	N	N	N	N	N	N	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	N	N	N	N	N	N	N	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	N	N	N	N	N	N	N	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	14.3	N	N	S	N	N	S	N	N
Cylinders ⁶ :									
4 cylinders	18.2	21.9	40.5	22.6	23.3	43.4	14.1	10.0	16.3
6 cylinders	2.5	2.8	4.6	2.8	2.9	4.6	2.7	2.8	3.6
8 cylinders	6.8	4.0	9.4	6.9	7.4	13.8	6.1	6.2	10.0
Other	7.3	5.9	6.6	14.5	11.4	8.3	13.5	10.9	11.2
Cubic inch displacement ⁶ :									
Gasoline fuel									
Less than 200	S	S	S	S	S	S	S	S	S
200 to 299	23.9	35.0	76.4	26.2	46.1	158.2	10.8	30.0	52.8
300 to 349	22.6	33.7	82.1	29.2	S	S	18.6	S	S
350 to 399	14.6	8.3	21.8	12.2	13.1	24.9	10.0	10.2	15.3
400 or more	10.1	14.4	29.7	13.3	18.3	57.5	8.6	12.1	22.4
Not available	9.3	7.3	7.5	15.6	12.7	7.5	12.6	10.5	9.7
Diesel fuel									
Less than 400	2.2	2.4	3.5	2.7	2.6	4.1	2.6	2.7	3.8
400 to 599	12.5	12.6	15.1	16.8	15.9	18.7	11.2	10.2	14.4
600 to 799	6.7	7.7	11.8	9.1	12.0	18.8	6.3	9.1	12.0
800 or more	4.3	5.2	10.4	5.3	6.1	11.1	3.7	3.8	4.7
Not available	4.8	3.7	5.2	6.2	4.6	6.8	4.0	3.1	5.1
Other fuel	8.2	7.7	10.5	12.2	11.9	21.7	10.3	10.4	20.1
Less than 400	S	36.1	S	S	45.3	S	S	26.2	S
400 or more	S	49.7	S	S	S	S	S	S	S
Not available	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ¹	14.3	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
REFUELING LOCATION									
Gas station	4.3	N	N	7.7	N	N	6.6	N	N
Truck stop	4.5	N	N	5.3	N	N	3.9	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	6.1	N	N	4.6	N	N	5.4	N	N
Other company's/contractor's facility not open to the public	17.6	N	N	22.0	N	N	16.5	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	18.3	N	N	23.8	N	N	21.0	N	N
Not applicable ¹	14.3	N	N	S	N	N	S	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	24.3	S	S	38.2	S	S	30.8	S	S
Company-owned maintenance facility	3.0	3.9	6.9	3.5	4.4	9.1	2.9	4.0	5.7
General repair business or private mechanic	9.0	5.5	13.2	6.0	7.0	12.9	8.2	6.1	11.3
Dealership service department	8.0	9.3	13.6	8.8	9.9	17.8	6.7	8.0	12.6
Leasing company	17.8	17.6	32.6	19.1	17.6	24.9	11.5	9.7	11.1
Individual not employed/paid by any maintenance type facility:									
Other	5.5	4.2	4.6	11.8	7.1	6.1	11.1	6.6	8.6
Not reported	N	19.7	N	N	19.9	N	N	15.6	N
Not reported	17.6	10.7	8.3	21.6	11.7	6.6	18.1	10.0	14.0
Not applicable ¹	14.3	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	4.2	17.6	407.4	3.9	32.5	1 075.9	4.5	29.1	43.1
Company-owned maintenance facility	11.7	6.1	3.6	14.2	6.9	5.5	11.3	5.9	16.0
General repair business or private mechanic	10.9	5.9	3.4	14.1	7.4	7.4	11.7	6.2	22.4
Dealership service department	13.7	6.5	3.7	14.9	7.1	5.6	11.2	5.9	17.8
Leasing company	S	30.6	S	S	29.2	S	S	17.7	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	24.8	10.4	5.0	25.4	10.8	8.0	14.5	8.1	26.0
Other	N	N	S	N	S	S	N	S	S
Not reported	N	4.1	N	N	6.2	N	N	5.7	N
Not applicable ¹	14.3	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	1.7	1.7	2.6	4.3	5.3	8.3	3.9	5.0	7.3
3 axles	1.8	2.2	3.1	4.9	6.3	10.3	4.6	5.9	8.7
4 axles	6.7	9.3	13.5	9.8	17.1	42.7	7.5	14.7	30.3
5 axles or more	32.9	10.7	4.1	49.9	15.2	3.8	37.5	8.9	23.3
Not reported	31.2	N	N	34.8	N	N	15.6	N	N
Combinations	6.7	2.2	8.4	3.2	2.6	4.6	6.3	2.9	6.4
Single-unit trucks with trailer:									
3 axles	40.9	18.8	84.2	29.7	26.6	68.4	17.3	18.3	23.1
4 axles	45.9	S	S	S	S	S	S	S	S
5 axles or more	S	21.6	S	40.0	29.7	69.0	S	20.3	S
Not reported	31.3	S	S	44.5	S	S	31.6	S	S
Truck-tractors with single trailer:									
3 axles	2.4	1.4	3.1	3.2	2.7	4.5	2.7	2.5	3.6
4 axles	25.2	20.0	44.1	28.5	26.5	44.5	18.1	17.5	21.0
5 axles or more	14.4	13.0	19.9	18.9	16.0	24.3	13.3	12.8	17.6
Not reported	2.6	1.8	3.3	3.6	3.0	4.9	2.7	2.4	3.6
Truck-tractors with double trailers:									
5 axles	17.2	N	N	19.6	N	N	11.6	N	N
6 axles	49.7	S	S	S	S	S	S	S	S
7 axles	S	S	S	S	S	S	S	S	S
8 axles or more	S	N	S	N	S	S	N	S	S
Not reported	N	N	N	N	N	N	N	N	N
Truck-tractors with triple trailers:									
7 axles	N	N	N	N	N	N	N	N	N
8 axles	N	N	N	N	N	N	N	N	N
9 axles	N	N	N	N	N	N	N	N	N
10 axles or more	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Driving axles:									
1	1.5	1.8	2.5	4.6	5.4	8.1	4.3	5.0	7.0
2	6.3	2.4	8.2	3.1	3.1	5.1	6.0	2.8	6.4
3 or more	27.3	17.0	14.6	30.7	22.9	5.8	14.1	15.3	7.0
Not reported	S	N	S	S	N	S	S	N	S
Total liftable axles and locations:									
None	2.5	4.0	14.1	2.5	5.0	16.6	3.0	4.7	5.5
1									
Forward of the drive axle	9.8	12.0	15.4	12.5	15.8	23.9	8.2	12.2	17.4
Below the chassis	10.8	N	N	13.7	N	N	8.4	N	N
Beyond the chassis	48.1	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	31.2	N	N	38.9	N	N	23.2	N	N
Forward of the drive axle	31.2	37.3	79.6	34.8	44.5	35.9	15.6	24.3	11.2
Below the chassis	32.9	N	N	37.2	N	N	17.3	N	N
Beyond the chassis	34.9	N	N	38.0	N	N	15.1	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	33.1	N	N	37.5	N	N	27.7	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	2.5	4.0	14.1	2.5	5.0	16.6	3.0	4.7	5.5
1	9.8	12.0	15.4	12.5	15.8	23.9	8.2	12.2	17.4
0 braking	22.4	N	N	26.8	N	N	14.7	N	N
1 braking	11.2	N	N	14.5	N	N	9.1	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	31.2	37.3	79.6	34.8	44.5	35.9	15.6	24.3	11.2
0 braking	S	N	N	S	N	N	S	N	N
1 braking	S	N	N	S	N	N	S	N	N
2 or more braking	34.9	N	N	37.7	N	N	14.3	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	33.1	N	N	37.5	N	N	27.7	N	N
CAB TYPE									
Conventional cab	2.7	1.7	4.1	2.7	3.0	5.0	3.1	2.8	4.1
With sleeper	4.1	N	N	4.9	N	N	2.7	N	N
Without sleeper	3.4	N	N	4.0	N	N	3.9	N	N
Not reported	11.1	N	N	12.0	N	N	5.2	N	N
Cab over engine	8.2	7.2	7.0	12.2	8.7	12.7	10.3	7.4	16.7
With sleeper	13.7	N	N	18.0	N	N	11.8	N	N
Without sleeper	10.6	N	N	17.4	N	N	15.0	N	N
Not reported	40.4	N	N	42.5	N	N	13.2	N	N
Cab forward of engine	28.4	17.3	6.1	31.4	22.0	5.9	13.3	14.9	16.5
Cab beside engine	N	S	S	N	48.9	N	N	S	S
Not reported	S	N	N	S	N	N	S	N	N

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

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

²Truck-tractors not in use.

³Vehicles that are private, rental, or used for personal transportation; and vehicles not in use.

⁴Distributed miles data are available in Table 8.

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

⁶Data were derived from administrative records.

Table 4. Trucks by Vehicle Size: 2002

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
Total	2 222.2	2 034.7	53.6	38.7	95.3	X
Coefficient of variation (percent) .....	.9	1.1	16.6	5.8	2.3	X
BUSINESS¹						
For-hire transportation or warehousing	48.1	S	2.0	3.2	42.5	3.8
Vehicle leasing or rental	33.2	S	9.8	11.4	7.4	14.3
Agriculture, forestry, fishing, or hunting	60.6	28.9	S	7.3	15.8	18.9
Mining	S	S	V	S	S	S
Utilities	1.4	S	S	S	S	34.8
Construction	103.4	75.8	13.9	4.8	9.0	17.4
Manufacturing	23.3	17.4	1.9	1.0	2.9	36.8
Wholesale trade	20.9	S	2.0	.6	3.9	35.4
Retail trade	46.0	40.0	2.0	2.1	1.9	27.6
Information services	V	V	V	V	V	N
Waste management, landscaping, or administrative/support services	20.5	S	1.8	1.8	3.3	36.6
Arts, entertainment, or recreation services	S	S	S	V	S	S
Accommodation or food services	1.8	V	S	S	.9	30.5
Other services	19.6	17.5	1.3	S	S	43.2
Personal transportation	1 751.2	1 750.8	S	V	V	2.1
Not reported	51.4	37.1	S	2.9	4.7	25.0
Not applicable ²	26.5	20.8	1.4	2.3	1.9	32.6
BODY TYPE						
Single-unit trucks	2 162.7	2 034.7	53.6	37.8	36.6	.9
Pickup	1 016.5	1 003.0	S	V	V	1.8
Minivan	322.8	322.8	V	V	V	9.6
Other light vans	127.9	127.9	V	V	V	17.1
Sport utility	560.9	560.9	V	V	V	6.0
Armored	S	S	V	S	V	S
Beverage	1.1	V	S	V	.8	39.3
Concrete mixer	1.2	V	V	V	1.2	26.2
Concrete pumper	S	V	V	V	S	S
Crane .....	.6	V	V	S	S	48.3
Curtainside	V	V	V	V	V	N
Dump	28.2	1.5	S	6.2	12.5	16.6
Flatbed, stake, or platform	29.3	8.6	7.9	6.8	6.0	7.0
Low boy	S	V	V	V	S	S
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Service, utility	5.1	1.8	1.2	1.5	S	18.9
Service, other	4.9	2.5	2.1	S	V	19.2
Street sweeper	S	S	S	S	V	S
Tank, dry bulk .....	.9	V	V	S	.7	40.7
Tank, liquids or gases	4.1	V	S	1.5	2.2	18.9
Tow/Wrecker	3.6	V	2.1	.8	.7	22.1
Trash, garbage, or recycling	3.5	V	S	S	3.3	15.3
Vacuum	S	V	V	V	S	S
Van, basic enclosed	24.2	2.2	3.8	15.6	2.6	7.9
Van, insulated nonrefrigerated .....	.5	V	S	S	V	48.1
Van, insulated refrigerated	1.7	V	S	S	1.1	31.6
Van, open top	7.5	S	S	3.1	3.7	14.9
Van, step, walk-in, or multistop	15.5	2.9	11.9	S	S	10.3
Van, other	1.0	S	.8	V	V	40.1
Other	S	V	V	V	S	S
Truck-tractors	59.5	V	V	.8	58.6	2.3
Automobile carrier .....	.5	V	V	V	.5	40.5
Beverage	2.8	V	V	V	2.8	23.3
Curtainside	S	V	V	V	S	S
Dump	4.7	V	V	V	4.7	13.3
Flatbed, stake, or platform	4.7	V	V	S	4.5	13.3
Livestock .....	.6	V	V	V	.6	37.5
Low boy	1.9	V	V	V	1.9	22.3
Mobile home toter .....	.8	V	V	S	.6	40.9
Open top	1.5	V	V	V	1.5	23.3
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Tank, dry bulk	1.4	V	V	V	1.4	23.8
Tank, liquids or gases	1.6	V	V	V	1.6	22.6
Van, basic enclosed	33.1	V	V	V	33.1	3.8
Van, drop-frame .....	.5	V	V	V	.5	40.5
Van, insulated nonrefrigerated .....	.3	V	V	V	.3	49.7
Van, insulated refrigerated	3.5	V	V	V	3.5	14.9
Other	S	V	V	V	S	S
Not applicable ³	1.0	V	V	S	.6	31.6
ANNUAL MILES						
Less than 5,000	439.0	397.0	8.5	13.2	20.3	8.3
5,000 to 9,999	499.7	480.1	S	4.8	6.9	8.0
10,000 to 19,999	880.5	847.2	20.4	4.2	8.6	5.3
20,000 to 29,999	238.3	215.4	7.8	7.3	7.8	12.1
30,000 to 49,999	85.8	60.7	7.2	5.9	12.1	18.5
50,000 to 74,999	19.0	S	S	.9	9.0	32.0
75,000 or more	33.5	S	S	S	28.8	13.2
Not applicable ²	26.5	20.8	1.4	2.3	1.9	32.6
PRIMARY RANGE OF OPERATION						
Off-the-road	13.6	S	S	1.6	2.1	45.2
50 miles or less	1 561.5	1 480.9	25.6	17.3	37.8	2.8
51 to 100 miles	230.6	204.8	S	2.1	11.6	12.4
101 to 200 miles	33.3	26.0	1.0	S	5.8	31.5
201 to 500 miles	11.2	S	V	S	6.1	39.4
501 miles or more	68.0	51.4	.3	.8	15.5	21.7
Not reported	277.5	237.0	12.3	13.5	14.6	10.8
Not applicable ²	26.5	20.8	1.4	2.3	1.9	32.6

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.....	1 946.3	1 827.7	39.2	23.0	56.5	1.7
Operated in states other than the home base state.....	41.6	17.4	.7	1.0	22.4	20.7
Not reported.....	207.8	168.7	12.2	12.4	14.5	12.4
Not applicable ²	26.5	20.8	1.4	2.3	1.9	32.6
MONTHS OPERATED						
12.....	1 346.8	1 244.3	30.8	17.7	54.0	3.5
7 to 11.....	470.2	433.1	14.6	5.2	17.4	8.2
2 to 6.....	287.4	255.3	4.9	9.2	18.0	10.7
1 or less.....	91.3	81.2	1.8	4.2	4.1	19.7
Vehicle not used.....	26.5	20.8	1.4	2.3	1.9	32.6
AVERAGE WEIGHT (POUNDS)						
Less than 6,001.....	1 560.0	1 560.0	N	N	N	2.7
6,001 to 8,500.....	396.3	396.3	N	N	N	9.3
8,501 to 10,000.....	78.4	78.4	N	N	N	21.5
10,001 to 14,000.....	26.5	N	26.5	N	N	17.7
14,001 to 16,000.....	19.9	N	19.9	N	N	37.9
16,001 to 19,500.....	7.2	N	7.2	N	N	15.7
19,501 to 26,000.....	38.7	N	N	38.7	N	5.8
26,001 to 33,000.....	16.3	N	N	N	16.3	9.9
33,001 to 40,000.....	6.1	N	N	N	6.1	15.1
40,001 to 50,000.....	8.8	N	N	N	8.8	10.9
50,001 to 60,000.....	9.9	N	N	N	9.9	9.6
60,001 to 80,000.....	53.6	N	N	N	53.6	2.5
80,001 to 100,000.....	.3	N	N	N	.3	49.6
100,001 to 130,000.....	S	N	N	N	S	S
130,001 or more.....	V	N	N	N	V	N
TOTAL LENGTH (FEET)						
Less than 20.0.....	1 863.0	1 820.7	29.9	6.7	5.6	1.8
20.0 to 27.9.....	212.1	177.3	7.5	11.1	16.2	12.1
28.0 to 35.9.....	45.8	S	4.5	16.5	9.9	16.9
36.0 to 40.9.....	37.9	21.9	S	2.3	8.3	27.8
41.0 to 44.9.....	11.2	V	S	.8	5.9	39.5
45.0 to 49.9.....	6.9	V	.8	.8	5.3	13.3
50.0 to 54.9.....	6.0	V	1.0	S	4.8	14.1
55.0 to 59.9.....	6.8	V	V	V	6.8	12.1
60.0 to 64.9.....	7.4	V	V	V	7.4	10.3
65.0 to 69.9.....	11.7	V	V	V	11.7	7.7
70.0 to 74.9.....	9.9	V	V	V	9.9	8.4
75.0 to 79.9.....	3.1	V	V	V	3.1	16.7
80.0 or more.....	.6	V	V	S	.4	43.7
MILES PER GALLON						
Less than 5.....	16.6	S	.9	3.3	11.9	8.4
5 to 6.9.....	54.5	S	3.1	4.7	41.5	8.7
7 to 8.9.....	48.5	24.3	S	4.0	11.6	21.9
9 to 10.9.....	101.7	82.6	10.3	3.3	5.5	18.1
11 to 12.9.....	183.8	173.3	S	2.0	.7	14.1
13 to 14.9.....	163.1	161.0	1.1	S	15.4	15.4
15 or more.....	1 306.6	1 298.2	S	1.7	V	3.5
15 to 20.9.....	1 041.2	1 032.6	S	1.7	V	4.6
21 to 24.9.....	192.4	192.4	V	V	V	14.1
25 or more.....	73.0	73.0	V	V	V	23.9
Not reported.....	320.9	268.9	13.5	16.6	21.8	9.9
Not applicable ²	26.5	20.8	1.4	2.3	1.9	32.6
MODEL YEAR						
2003.....	S	V	V	V	S	S
2002.....	134.0	124.1	3.4	3.1	3.4	16.7
2001.....	166.3	154.4	3.4	2.9	5.5	14.8
2000.....	168.5	142.3	9.7	3.5	12.9	14.3
1999.....	148.1	129.4	S	3.2	8.8	15.7
1998.....	221.8	205.3	S	3.2	8.3	12.8
1997.....	117.0	107.6	1.8	1.2	6.5	17.9
1996.....	157.5	150.5	.8	1.0	5.2	15.5
1995.....	113.8	100.0	S	.9	6.6	18.1
1994.....	113.5	108.4	1.2	S	3.3	18.4
1993.....	114.2	107.8	1.8	1.2	3.3	18.3
Pre-1993.....	767.4	704.9	13.1	18.0	31.3	5.7
VEHICLE ACQUISITION						
New.....	740.3	656.1	24.9	17.1	42.3	5.9
Used.....	1 361.3	1 274.7	23.8	18.3	44.6	3.4
Not reported.....	120.6	103.9	S	3.4	8.5	17.4
LEASE CHARACTERISTICS						
Leased.....	128.6	98.7	2.4	3.7	23.8	15.6
Lessee.....	107.4	94.2	1.1	1.0	11.1	18.2
Vehicle only.....	11.4	S	1.1	1.0	8.9	10.0
Vehicle with driver.....	1.9	V	V	V	1.9	21.7
Not reported.....	S	V	V	V	S	S
Not applicable ⁴	93.9	93.9	V	V	V	20.8
Lessor.....	13.7	S	1.3	1.9	10.3	8.7
Vehicle only.....	11.5	S	1.1	1.5	8.7	9.5
Vehicle with driver.....	2.2	V	S	S	1.6	22.6
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	V	V	V	V	V	N
Not reported.....	S	S	V	.8	2.3	S
Not leased.....	1 211.0	1 097.8	37.7	25.4	50.1	3.9
Not reported.....	882.6	838.1	13.5	9.6	21.4	5.3

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	128.6	98.7	2.4	3.7	23.8	15.6
1 to 11 months	2.9	V	S	S	2.3	18.7
12 months or more	27.1	S	2.2	3.3	21.0	6.0
Not reported	.4	V	V	V	.4	44.4
Not applicable ⁴	98.2	98.2	V	V	V	20.3
Provisions of lease ⁵ :						
Financing only	17.0	S	2.1	1.9	12.6	7.8
Full maintenance	13.1	S	1.1	1.5	10.2	9.1
Payment of taxes	12.8	S	1.1	1.5	9.9	8.8
Obtaining licenses and permits	13.7	S	1.1	1.7	10.7	8.4
Recordkeeping	10.1	S	1.2	1.0	7.8	10.1
Fuel contract	6.1	V	1.0	S	4.7	13.4
PRIMARY OPERATOR CLASSIFICATION						
Private	356.7	253.7	39.3	21.2	42.5	8.7
Motor carrier	37.9	S	2.2	2.7	32.5	4.7
Owner operator	16.4	S	1.0	1.0	10.7	27.0
Rental	33.5	S	9.8	11.4	7.6	14.2
Personal transportation	1 751.2	1 750.8	S	V	V	2.1
Not applicable ²	26.5	20.8	1.4	2.3	1.9	32.6
For-hire characteristics:						
Type of carrier:						
Contract	22.1	S	1.0	.9	20.1	5.9
Common	20.2	S	1.0	1.3	17.7	7.1
Not reported	7.7	S	S	1.5	5.5	12.0
Not applicable ⁶	2 172.2	2 034.2	51.0	34.9	52.1	.9
Type of service:						
Truckload	31.0	S	1.3	S	29.1	4.6
Less-than truckload	10.7	S	S	2.0	8.4	10.8
Not reported	8.2	S	1.0	1.3	5.8	11.9
Not applicable ⁶	2 172.2	2 034.2	51.0	34.9	52.1	.9
Source of hauls:						
Shippers or receivers	36.1	S	1.3	2.1	32.3	4.6
Brokers	2.8	V	V	V	2.8	17.0
Centralized markets or exchanges	S	V	V	V	S	S
Other	V	V	V	V	V	N
Not reported	10.9	S	1.2	1.6	7.9	10.2
Not applicable ⁶	2 172.2	2 034.2	51.0	34.9	52.1	.9
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	11.8	V	1.3	.8	9.7	9.3
Not carrying hazardous materials	119.1	14.1	22.0	19.9	63.0	4.3
Not reported	26.7	3.9	5.4	4.2	13.1	6.9
Not applicable ⁸	2 064.7	2 016.6	24.7	13.8	9.5	1.0
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	S	S	S	S	V	S
Air bag(s) (safety device only)	1 106.8	1 078.8	16.6	2.6	8.8	4.1
Air compressor (except air brakes)	8.5	S	V	1.0	7.1	11.3
Air-conditioning	1 762.0	1 645.4	37.1	18.3	61.2	2.2
Air springs	24.8	V	V	S	24.2	5.4
Antilock brake system	1 246.9	1 159.0	34.0	14.4	39.5	3.7
Collision warning system	1.8	V	S	V	1.6	25.1
Computerized drive train control unit	181.0	175.7	.9	S	3.9	14.4
Crane	2.0	S	S	S	1.0	30.3
Electronic vehicle identification device	5.6	S	S	V	5.0	13.1
Engine retarder/brake	27.9	S	.9	.7	26.0	4.7
Front-wheel drive	869.8	856.7	S	V	V	5.3
Hoist	30.9	1.9	5.9	7.9	15.2	6.6
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	7.3	V	S	S	6.6	12.4
Internet access	.4	V	V	V	.4	44.4
Lift gate	8.9	1.2	3.3	2.7	1.7	13.3
Mounting bar for snowplow	27.8	26.4	S	S	S	37.8
Navigational system	.5	V	V	V	.5	40.5
Power take-off	42.5	1.2	5.0	8.6	27.8	5.1
Radial tires	1 453.1	1 336.4	39.3	18.5	58.9	3.2
Reflective material in addition to those required by law	17.2	1.5	2.5	2.7	10.6	8.4
Road speed governor	69.5	S	12.7	14.4	42.0	3.6
Toolbox	138.6	105.5	15.4	4.6	13.0	14.9
Trip recorder or on-board computer with communication capabilities	76.1	64.5	V	V	11.6	21.6
Trip recorder or on-board computer without communication capabilities	355.3	346.7	S	S	3.4	9.9
Vehicle control aids for handicapped drivers	V	V	V	V	V	N
Wheelchair lift	V	V	V	V	V	N
Winch	14.6	S	S	1.5	2.3	42.0
Transmission type:						
Automatic	1 710.8	1 670.1	28.1	5.1	7.4	2.2
Manual	409.3	303.1	13.8	21.0	71.4	7.7
Semiautomated manual	S	S	S	V	1.1	S
Automated manual	S	S	V	V	.8	S
Not reported	91.7	53.0	11.5	12.5	14.6	16.2
Braking system:						
Hydraulic (standard)	42.9	9.8	12.7	11.8	8.6	5.4
Hydraulic with power assist	34.6	8.9	10.1	10.0	5.7	6.3
Air	74.8	S	1.4	4.9	68.4	2.8
Other	V	V	V	V	V	N
Not reported	41.9	1.3	16.0	12.0	12.6	11.6
Not applicable ¹⁰	2 028.1	2 014.6	S	V	V	1.0

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Vehicle size				Coefficient of variation of total (percent)	
	Total	Light	Medium	Light-heavy		Heavy-heavy
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	2 017.2	1 944.4	41.9	21.0	9.9	1.3
Diesel	177.5	69.0	10.2	15.2	83.1	9.3
Natural gas	V	V	V	V	V	N
Propane	S	V	V	S	S	S
Alcohol fuels	V	V	V	V	V	N
Electricity	V	V	V	V	V	N
Combination	V	V	V	V	V	N
Other	V	V	V	V	V	N
Not reported	.5	.5	V	V	V	40.4
Not applicable ²	26.5	20.8	1.4	2.3	1.9	32.6
Cylinders ¹¹ :						
4 cylinders	251.7	250.0	1.3	.3	S	12.2
6 cylinders	1 060.3	967.5	6.1	11.4	75.2	4.2
8 cylinders	856.8	787.0	42.3	21.1	6.3	5.2
Other	53.5	30.1	3.9	5.7	13.7	18.2
Cubic inch displacement ¹¹ :						
Gasoline fuel	2 017.2	1 944.4	41.9	21.0	9.9	1.3
Less than 200	506.0	506.0	V	V	V	8.0
200 to 299	732.5	729.8	2.5	S	S	5.7
300 to 349	369.4	362.8	S	S	S	9.6
350 to 399	321.3	287.9	26.8	5.0	1.6	10.2
400 or more	47.0	33.7	3.5	8.7	1.0	24.3
Not available	41.0	24.2	3.1	6.9	6.8	21.4
Diesel fuel	177.5	69.0	10.2	15.2	83.1	9.3
Less than 400	48.3	40.6	3.4	3.1	1.2	26.6
400 to 599	57.3	28.3	6.3	10.3	12.4	18.6
600 to 799	32.6	V	V	.8	31.8	4.3
800 or more	25.3	V	V	S	25.2	4.8
Not available	13.9	S	S	.9	12.5	8.2
Other fuel	S	V	V	S	S	S
Less than 400	S	V	V	V	V	S
400 or more	S	V	V	V	V	S
Not available	V	V	V	V	V	N
Not reported	.5	.5	V	V	V	40.4
Not applicable ²	26.5	20.8	1.4	2.3	1.9	32.6
REFUELING LOCATION						
Gas station	1 946.4	1 889.6	29.2	11.1	16.4	1.6
Truck stop	48.0	S	.8	2.8	31.3	15.9
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	123.0	41.1	20.1	21.3	40.6	11.1
Other company's/contractor's facility not open to the public	13.4	S	1.0	S	2.7	46.1
Other	V	V	V	V	V	N
Not reported	65.0	61.0	1.0	S	2.4	24.4
Not applicable ²	26.5	20.8	1.4	2.3	1.9	32.6
MAINTENANCE⁵						
General maintenance performed by:						
None performed	54.7	52.8	S	.8	S	26.9
Company-owned maintenance facility	227.7	140.4	16.1	18.4	52.8	10.3
General repair business or private mechanic	838.5	790.2	14.0	6.9	27.3	5.5
Dealership service department	517.6	497.5	S	1.5	11.4	7.7
Leasing company	3.9	V	S	S	3.5	17.8
Individual not employed/paid by any maintenance type facility	969.6	922.7	20.3	9.1	17.5	4.8
Other	V	V	V	V	V	N
Not reported	65.3	61.1	1.2	S	2.5	24.3
Not applicable ²	26.5	20.8	1.4	2.3	1.9	32.6
Extensive repairs performed by:						
None performed	1 757.0	1 639.8	32.2	20.1	65.0	2.3
Company-owned maintenance facility	17.4	S	1.2	.8	5.9	35.6
General repair business or private mechanic	121.8	108.4	S	1.4	5.9	17.4
Dealership service department	87.6	77.5	S	.8	4.0	20.9
Leasing company	S	V	V	V	S	S
Component distributorship (engine, transmission, body, etc.)	18.8	17.4	V	V	1.3	45.3
Individual not employed/paid by any repair type facility	118.1	109.2	S	1.9	1.7	18.0
Other	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not applicable ²	26.5	20.8	1.4	2.3	1.9	32.6
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	2 105.2	1 990.9	42.7	36.3	35.3	1.2
2 axles	2 088.3	1 990.4	42.6	35.9	19.4	1.2
3 axles	14.5	V	S	.3	14.1	6.7
4 axles	.8	V	V	V	.8	32.9
5 axles or more	.8	V	V	V	.8	31.2
Not reported	.8	.5	V	V	S	37.4
Combinations	117.1	43.8	S	2.4	59.9	12.6
Single-unit trucks with trailer	58.6	43.8	S	2.0	1.9	25.1
3 axles	22.4	21.5	S	S	V	42.8
4 axles	34.7	22.3	S	1.6	1.0	32.6
5 axles or more	.8	V	V	V	.8	31.3
Not reported	S	S	S	S	S	S
Truck-tractors with single trailer	58.1	V	V	S	57.7	2.4
3 axles	2.4	V	V	S	2.2	25.2
4 axles	5.3	V	V	V	5.3	14.4
5 axles or more	47.3	V	V	S	47.1	2.6
Not reported	3.1	V	V	V	3.1	17.2
Truck-tractors with double trailers	.3	V	V	V	.3	49.7
5 axles	S	V	V	V	S	S
6 axles	S	V	V	V	S	S
7 axles	S	V	V	V	S	S
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	1 278.3	1 176.4	35.1	37.9	28.9	3.7
2	941.9	857.9	18.4	.8	64.8	4.9
3 or more	1.1	V	V	V	1.1	27.3
Not reported	1.0	.4	V	V	S	35.9
Total liftable axles and locations ¹² :						
None	184.8	20.1	40.0	38.6	86.0	2.5
1	7.6	V	V	S	7.5	9.8
Forward of the drive axle	6.1	V	V	S	6.0	10.8
Below the chassis .....	.5	V	V	V	.5	48.1
Beyond the chassis	S	V	V	V	S	S
Not reported .....	.8	V	V	V	.8	31.2
2 or more .....	.8	V	V	V	.8	31.2
Forward of the drive axle .....	.8	V	V	V	.8	32.9
Below the chassis .....	.7	V	V	V	.7	34.9
Beyond the chassis	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not reported .....	.9	V	V	V	.9	33.1
Not applicable ¹⁰	2 028.1	2 014.6	S	V	V	1.0
Total liftable axles and number of braking axles:						
None	184.8	20.1	40.0	38.6	86.0	2.5
1	7.6	V	V	S	7.5	9.8
0 braking	1.6	V	V	S	1.5	22.4
1 braking	5.8	V	V	V	5.8	11.2
Not reported	S	V	V	V	S	S
2 or more .....	.8	V	V	V	.8	31.2
0 braking	S	V	V	V	S	S
1 braking	S	V	V	V	S	S
2 or more braking .....	.7	V	V	V	.7	34.9
Not reported	V	V	V	V	V	N
Not reported .....	.9	V	V	V	.9	33.1
Not applicable ¹⁰	2 028.1	2 014.6	S	V	V	1.0
CAB TYPE						
Conventional cab	178.5	18.8	37.7	36.8	85.1	2.7
With sleeper	29.5	V	V	V	29.5	4.1
Without sleeper	142.3	18.8	37.7	36.8	48.9	3.4
Not reported	6.7	V	V	V	6.7	11.1
Cab over engine	14.5	1.3	2.3	1.8	9.1	8.2
With sleeper	4.2	V	V	S	4.1	13.7
Without sleeper	9.8	1.3	2.3	1.7	4.5	10.6
Not reported .....	.5	V	V	V	.5	40.4
Cab forward of engine	1.0	V	V	V	1.0	28.4
Cab beside engine	V	V	V	V	V	N
Not reported	S	S	V	V	S	S
Not applicable ¹⁰	2 028.1	2 014.6	S	V	V	1.0

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

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

²Vehicles not in use.

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	2 222.2	2 105.2	117.1	58.6	58.1	.3	V	X
Coefficient of variation (percent) .....	.9	1.2	12.6	25.1	2.4	49.7	N	X
BUSINESS¹								
For-hire transportation or warehousing	48.1	12.0	36.1	V	35.9	S	V	3.8
Vehicle leasing or rental	33.2	26.5	6.7	V	6.7	V	V	14.3
Agriculture, forestry, fishing, or hunting	60.6	49.8	10.8	S	5.2	S	V	18.9
Mining	S	S	V	V	V	V	V	S
Utilities	1.4	1.2	S	S	V	V	V	34.8
Construction	103.4	85.8	17.6	15.9	1.7	V	V	17.4
Manufacturing	23.3	21.4	1.9	V	1.9	V	V	36.8
Wholesale trade	20.9	18.5	2.4	S	2.3	V	V	35.4
Retail trade	46.0	45.1	1.0	S	.6	V	V	27.6
Information services	V	V	V	V	V	V	V	N
Waste management, landscaping, or administrative/support services	20.5	14.8	S	S	.3	V	V	36.6
Arts, entertainment, or recreation services	S	S	S	V	S	V	V	S
Accommodation or food services	1.8	1.1	.6	S	S	V	V	30.5
Other services	19.6	19.2	.3	S	S	V	V	43.2
Personal transportation	1 751.2	1 729.4	21.8	21.8	V	V	V	2.1
Not reported	51.4	39.6	S	S	2.8	V	V	25.0
Not applicable ²	26.5	26.5	V	V	V	V	V	32.6
BODY TYPE								
Single-unit trucks	2 162.7	2 104.1	58.6	58.6	N	N	N	.9
Pickup	1 016.5	973.0	43.5	43.5	N	N	N	1.8
Minivan	322.8	322.8	V	V	N	N	N	9.6
Other light vans	127.9	127.9	V	V	N	N	N	17.1
Sport utility	560.9	556.7	S	S	N	N	N	6.0
Armored	S	S	V	V	N	N	N	S
Beverage	1.1	1.1	V	V	N	N	N	39.3
Concrete mixer	1.2	1.2	V	V	N	N	N	26.2
Concrete pumper	S	S	V	V	N	N	N	S
Crane .....	.6	.6	V	V	N	N	N	48.3
Curtainside	V	V	V	V	N	N	N	N
Dump	28.2	21.7	S	S	N	N	N	16.6
Flatbed, stake, or platform	29.3	26.4	2.9	2.9	N	N	N	7.0
Low boy	S	V	S	S	N	N	N	S
Pole, logging, pulpwood, or pipe	S	S	S	S	N	N	N	S
Service, utility	5.1	4.7	S	S	N	N	N	18.9
Service, other	4.9	4.9	V	V	N	N	N	19.2
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk .....	.9	.9	V	V	N	N	N	40.7
Tank, liquids or gases	4.1	4.0	S	S	N	N	N	18.9
Tow/Wrecker	3.6	3.6	V	V	N	N	N	22.1
Trash, garbage, or recycling	3.5	3.5	V	V	N	N	N	15.3
Vacuum	S	S	V	V	N	N	N	S
Van, basic enclosed	24.2	23.9	S	S	N	N	N	7.9
Van, insulated nonrefrigerated .....	.5	.5	V	V	N	N	N	48.1
Van, insulated refrigerated	1.7	1.7	V	V	N	N	N	31.6
Van, open top	7.5	7.3	S	S	N	N	N	14.9
Van, step, walk-in, or multistop	15.5	15.5	V	V	N	N	N	10.3
Van, other	1.0	.8	S	S	N	N	N	40.1
Other	S	S	V	V	N	N	N	S
Truck-tractors	59.5	1.0	58.4	N	58.1	.3	V	2.3
Automobile carrier .....	.5	N	.5	N	.5	V	V	40.5
Beverage	2.8	N	2.8	N	2.8	V	V	23.3
Curtainside	S	N	S	N	S	V	V	S
Dump	4.7	N	4.7	N	4.7	V	V	13.3
Flatbed, stake, or platform	4.7	N	4.7	N	4.7	V	V	13.3
Livestock .....	.6	N	.6	N	.6	V	V	37.5
Low boy	1.9	N	1.9	N	1.9	V	V	22.3
Mobile home toter .....	.8	N	.8	N	.8	V	V	40.9
Open top	1.5	N	1.5	N	1.5	V	V	23.3
Pole, logging, pulpwood, or pipe	S	N	S	N	S	V	V	S
Tank, dry bulk	1.4	N	1.4	N	1.4	V	V	23.8
Tank, liquids or gases	1.6	N	1.6	N	1.6	V	V	22.6
Van, basic enclosed	33.1	N	33.1	N	32.8	.3	V	3.8
Van, drop-frame .....	.5	N	.5	N	.5	V	V	40.5
Van, insulated nonrefrigerated .....	.3	N	.3	N	.3	V	V	49.7
Van, insulated refrigerated	3.5	N	3.5	N	3.5	V	V	14.9
Other	S	N	S	N	S	V	V	S
Not applicable ³	1.0	1.0	V	N	V	V	V	31.6
ANNUAL MILES								
Less than 5,000	439.0	422.0	17.0	S	6.5	V	V	8.3
5,000 to 9,999	499.7	478.7	21.0	18.7	2.3	V	V	8.0
10,000 to 19,999	880.5	848.9	31.5	28.2	3.3	V	V	5.3
20,000 to 29,999	238.3	233.8	4.5	.6	3.9	V	V	12.1
30,000 to 49,999	85.8	77.5	8.3	S	8.0	V	V	18.5
50,000 to 74,999	19.0	12.3	6.7	S	6.5	S	V	32.0
75,000 or more	33.5	S	28.0	V	27.7	S	V	13.2
Not applicable ²	26.5	26.5	V	V	V	V	V	32.6

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	13.6	12.9	.8	S	.6	V	V	45.2
50 miles or less	1 561.5	1 514.6	46.9	34.5	12.4	V	V	2.8
51 to 100 miles	230.6	213.1	17.5	S	7.6	S	V	12.4
101 to 200 miles	33.3	24.1	9.2	S	4.4	S	V	31.5
201 to 500 miles	11.2	S	5.8	V	5.8	V	V	39.4
501 miles or more	68.0	48.1	19.9	S	15.5	V	V	21.7
Not reported	277.5	260.4	17.0	S	11.8	S	V	10.8
Not applicable ²	26.5	26.5	V	V	V	V	V	32.6
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	1 946.3	1 862.5	83.8	57.9	25.9	S	V	1.7
Operated in states other than the home base state	41.6	20.4	21.2	S	20.8	S	V	20.7
Not reported	207.8	195.7	12.1	S	11.5	V	V	12.4
Not applicable ²	26.5	26.5	V	V	V	V	V	32.6
MONTHS OPERATED								
12	1 346.8	1 277.9	69.0	28.6	40.1	S	V	3.5
7 to 11	470.2	438.6	31.6	23.5	8.0	S	V	8.2
2 to 6	287.4	272.9	14.5	S	8.5	V	V	10.7
1 or less	91.3	89.3	2.0	S	1.4	V	V	19.7
Vehicle not used	26.5	26.5	V	V	V	V	V	32.6
VEHICLE SIZE								
Light	2 034.7	1 990.9	43.8	43.8	V	V	V	1.1
Medium	53.6	42.7	S	S	V	V	V	16.6
Light-heavy	38.7	36.3	2.4	2.0	S	V	V	5.8
Heavy-heavy	95.3	35.3	59.9	1.9	57.7	.3	V	2.3
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	1 560.0	1 538.5	21.5	21.5	V	V	V	2.7
6,001 to 8,500	396.3	391.8	S	S	V	V	V	9.3
8,501 to 10,000	78.4	60.6	17.9	17.9	V	V	V	21.5
10,001 to 14,000	26.5	21.3	S	S	V	V	V	17.7
14,001 to 16,000	19.9	15.0	S	S	V	V	V	37.9
16,001 to 19,500	7.2	6.4	.8	.8	V	V	V	15.7
19,501 to 26,000	38.7	36.3	2.4	2.0	S	V	V	5.8
26,001 to 33,000	16.3	14.7	1.6	S	.9	V	V	9.9
33,001 to 40,000	6.1	3.8	2.3	S	1.8	V	V	15.1
40,001 to 50,000	8.8	5.5	3.3	S	3.2	V	V	10.9
50,001 to 60,000	9.9	3.9	6.0	S	5.8	V	V	9.6
60,001 to 80,000	53.6	7.4	46.2	.4	45.4	.3	V	2.5
80,001 to 100,000 .....	.3	V	.3	V	.3	V	V	49.6
100,001 to 130,000	S	V	S	V	S	V	V	S
130,001 or more	V	V	V	V	V	V	V	N
TOTAL LENGTH (FEET)								
Less than 20.0	1 863.0	1 863.0	V	V	V	V	V	1.8
20.0 to 27.9	212.1	202.9	S	S	V	V	V	12.1
28.0 to 35.9	45.8	31.0	S	S	S	V	V	16.9
36.0 to 40.9	37.9	5.5	32.4	27.1	5.3	V	V	27.8
41.0 to 44.9	11.2	.7	10.4	S	5.4	V	V	39.5
45.0 to 49.9	6.9	.9	6.0	1.5	4.4	V	V	13.3
50.0 to 54.9	6.0	1.2	4.8	.8	4.0	V	V	14.1
55.0 to 59.9	6.8	V	6.8	.3	6.3	S	V	12.1
60.0 to 64.9	7.4	V	7.4	S	7.3	V	V	10.3
65.0 to 69.9	11.7	V	11.7	V	11.7	V	V	7.7
70.0 to 74.9	9.9	V	9.9	V	9.8	S	V	8.4
75.0 to 79.9	3.1	V	3.1	V	3.0	S	V	16.7
80.0 or more .....	.6	V	.6	V	.6	V	V	43.7
MILES PER GALLON								
Less than 5	16.6	11.4	5.2	S	5.0	V	V	8.4
5 to 6.9	54.5	23.3	31.2	1.1	29.8	.3	V	8.7
7 to 8.9	48.5	33.9	14.7	S	5.0	V	V	21.9
9 to 10.9	101.7	95.3	S	S	.9	V	V	18.1
11 to 12.9	183.8	169.8	S	S	S	V	V	14.1
13 to 14.9	163.1	154.4	S	S	V	V	V	15.4
15 or more	1 306.6	1 288.2	18.4	18.4	V	V	V	3.5
15 to 20.9	1 041.2	1 027.2	S	S	V	V	V	4.6
21 to 24.9	192.4	188.1	S	S	V	V	V	14.1
25 or more	73.0	73.0	V	V	V	V	V	23.9
Not reported	320.9	302.4	18.5	1.4	17.1	V	V	9.9
Not applicable ²	26.5	26.5	V	V	V	V	V	32.6

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	V	S	V	S	V	V	S
2002	134.0	131.1	2.8	V	2.8	S	V	16.7
2001	166.3	157.7	S	S	4.2	V	V	14.8
2000	168.5	153.8	14.7	S	9.7	S	V	14.3
1999	148.1	132.1	16.1	S	6.8	V	V	15.7
1998	221.8	206.0	15.8	S	6.5	V	V	12.8
1997	117.0	112.2	4.8	S	4.3	V	V	17.9
1996	157.5	144.8	12.7	S	3.8	V	V	15.5
1995	113.8	99.7	14.1	S	4.6	V	V	18.1
1994	113.5	111.5	2.0	V	2.0	V	V	18.4
1993	114.2	111.5	2.7	S	2.0	V	V	18.3
Pre-1993	767.4	744.8	22.6	S	11.3	V	V	5.7
VEHICLE ACQUISITION								
New	740.3	691.2	49.1	20.2	28.5	.3	V	5.9
Used	1 361.3	1 304.0	57.2	33.6	23.7	V	V	3.4
Not reported	120.6	109.9	10.7	S	5.9	V	V	17.4
LEASE CHARACTERISTICS								
Leased	128.6	103.9	24.7	S	20.0	S	V	15.6
Lessee	107.4	94.5	12.9	S	8.2	S	V	18.2
Vehicle only	11.4	4.9	6.5	S	6.0	S	V	10.0
Vehicle with driver	1.9	V	1.9	V	1.9	V	V	21.7
Not reported	S	V	S	V	S	V	V	S
Not applicable ⁴	93.9	89.6	S	S	V	V	V	20.8
Lessor	13.7	4.2	9.6	V	9.6	V	V	8.7
Vehicle only	11.5	3.6	8.0	V	8.0	V	V	9.5
Vehicle with driver	2.2	S	1.6	V	1.6	V	V	22.6
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	V	V	V	V	V	V	V	N
Not reported	S	S	2.2	V	2.2	V	V	S
Not leased	1 211.0	1 148.7	62.3	34.5	27.8	S	V	3.9
Not reported	882.6	852.5	30.1	19.6	10.4	S	V	5.3
Length of leasing agreement:								
Leased	128.6	103.9	24.7	S	20.0	S	V	15.6
1 to 11 months	2.9	S	2.3	V	2.3	V	V	18.7
12 months or more	27.1	9.3	17.7	S	17.3	S	V	6.0
Not reported	.4	V	4	V	4	V	V	44.4
Not applicable ⁴	98.2	93.9	S	S	V	V	V	20.3
Provisions of lease⁵:								
Financing only	17.0	6.0	11.0	S	10.6	S	V	7.8
Full maintenance	13.1	4.4	8.7	V	8.7	V	V	9.1
Payment of taxes	12.8	3.4	9.4	V	9.4	V	V	8.8
Obtaining licenses and permits	13.7	3.4	10.3	V	10.3	V	V	8.4
Recordkeeping	10.1	2.9	7.3	V	7.3	V	V	10.1
Fuel contract	6.1	1.6	4.5	V	4.5	V	V	13.4
PRIMARY OPERATOR CLASSIFICATION								
Private	356.7	309.3	47.5	32.2	15.2	S	V	8.7
Motor carrier	37.9	10.6	27.3	S	26.9	S	V	4.7
Owner operator	16.4	2.8	13.7	S	9.2	S	V	27.0
Rental	33.5	26.7	6.8	V	6.8	V	V	14.2
Personal transportation	1 751.2	1 729.4	21.8	21.8	V	V	V	2.1
Not applicable ²	26.5	26.5	V	V	V	V	V	32.6
For-hire characteristics:								
Type of carrier:								
Contract	22.1	3.9	18.2	V	17.9	S	V	5.9
Common	20.2	6.4	13.7	V	13.7	V	V	7.1
Not reported	7.7	3.0	4.7	S	4.5	V	V	12.0
Not applicable ⁶	2 172.2	2 091.8	80.4	58.3	22.0	S	V	.9
Type of service:								
Truckload	31.0	5.9	25.1	V	25.1	V	V	4.6
Less-than truckload	10.7	4.2	6.5	V	6.3	S	V	10.8
Not reported	8.2	3.2	5.0	S	4.7	V	V	11.9
Not applicable ⁶	2 172.2	2 091.8	80.4	58.3	22.0	S	V	.9
Source of hauls:								
Shippers or receivers	36.1	7.9	28.2	V	28.1	S	V	4.6
Brokers	2.8	S	2.6	V	2.6	V	V	17.0
Centralized markets or exchanges	S	V	S	V	S	V	V	S
Other	V	V	V	V	V	V	V	N
Not reported	10.9	5.3	5.6	S	5.3	V	V	10.2
Not applicable ⁶	2 172.2	2 091.8	80.4	58.3	22.0	S	V	.9
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	11.8	3.5	8.3	V	8.2	S	V	9.3
Not carrying hazardous materials	119.1	74.9	44.2	10.1	34.0	S	V	4.3
Not reported	26.7	16.7	10.0	.8	9.1	S	V	6.9
Not applicable ⁸	2 064.7	2 010.1	54.6	47.8	6.8	V	V	1.0
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	S	S	S	S	V	V	V	S
Air bag(s) (safety device only)	1 106.8	1 066.8	40.0	31.8	8.1	S	V	4.1
Air compressor (except air brakes)	8.5	3.1	5.5	S	4.8	V	V	11.3
Air-conditioning	1 762.0	1 668.7	93.3	46.7	46.5	S	V	2.2
Air springs	24.8	3.9	20.9	.8	20.0	S	V	5.4

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	1 246.9	1 168.9	78.0	45.4	32.5	S	V	3.7
Collision warning system	1.8	S	1.6	S	1.3	V	V	25.1
Computerized drive train control unit	181.0	177.8	3.3	S	3.1	V	V	14.4
Crane	2.0	1.8	S	S	1.8	V	V	30.3
Electronic vehicle identification device	5.6	1.0	4.6	S	4.4	S	V	13.1
Engine retarder/brake	27.9	4.5	23.4	.7	22.5	S	V	4.7
Front-wheel drive	869.8	835.3	34.5	34.5	V	V	V	5.3
Hoist	30.9	29.0	2.0	2.0	V	V	V	6.6
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	7.3	2.2	5.1	S	4.7	V	V	12.4
Internet access	.4	V	.4	V	.4	V	V	44.4
Lift gate	8.9	8.7	S	S	V	V	V	13.3
Mounting bar for snowplow	27.8	23.1	S	S	V	V	V	37.8
Navigational system	.5	S	.3	V	.3	V	V	40.5
Power take-off	42.5	32.5	10.0	2.4	7.7	V	V	5.1
Radial tires	1 453.1	1 365.0	88.1	46.8	41.0	.3	V	3.2
Reflective material in addition to those required by law	17.2	10.6	6.7	S	6.0	V	V	8.4
Road speed governor	69.5	35.8	33.7	.9	32.6	S	V	3.6
Toolbox	138.6	111.2	27.4	20.5	6.8	S	V	14.9
Trip recorder or on-board computer with communication capabilities	76.1	65.3	10.9	V	10.9	V	V	21.6
Trip recorder or on-board computer without communication capabilities	355.3	339.6	15.8	S	2.5	S	V	9.9
Vehicle control aids for handicapped drivers	V	V	V	V	V	V	V	N
Wheelchair lift	V	V	V	V	V	V	V	N
Winch	14.6	14.3	.3	V	.3	V	V	42.0
Transmission type:								
Automatic	1 710.8	1 663.2	47.6	45.5	2.1	V	V	2.2
Manual	409.3	354.0	55.3	12.9	42.1	.3	V	7.7
Semiautomated manual	S	S	.9	V	.9	V	V	S
Automated manual	S	S	.7	V	.7	V	V	S
Not reported	91.7	79.2	12.5	S	12.3	V	V	16.2
Braking system:								
Hydraulic (standard)	42.9	38.5	4.4	1.9	2.5	V	V	5.4
Hydraulic with power assist	34.6	31.8	2.8	2.5	S	V	V	6.3
Air	74.8	27.7	47.1	1.9	44.8	.3	V	2.8
Other	V	V	V	V	V	V	V	N
Not reported	41.9	26.9	15.0	S	10.5	V	V	11.6
Not applicable ¹⁰	2 028.1	1 980.3	47.8	47.8	V	V	V	1.0
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	2 017.2	1 970.5	46.7	46.4	S	V	V	1.3
Diesel	177.5	107.1	70.3	S	57.8	.3	V	9.3
Natural gas	V	V	V	V	V	V	V	N
Propane	S	S	V	V	V	V	V	S
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	V	V	V	V	V	V	V	N
Other	V	V	V	V	V	V	V	N
Not reported	.5	.5	V	V	V	V	V	40.4
Not applicable ²	26.5	26.5	V	V	V	V	V	32.6
Cylinders¹¹:								
4 cylinders	251.7	242.8	S	S	V	V	V	12.2
6 cylinders	1 060.3	1 003.1	57.1	2.3	54.5	.3	V	4.2
8 cylinders	856.8	818.2	38.6	38.2	S	V	V	5.2
Other	53.5	41.0	12.5	S	3.2	V	V	18.2
Cubic inch displacement¹¹:								
Gasoline fuel	2 017.2	1 970.5	46.7	46.4	S	V	V	1.3
Less than 200	506.0	497.4	S	S	V	V	V	8.0
200 to 299	732.5	728.2	S	S	V	V	V	5.7
300 to 349	369.4	364.9	S	S	V	V	V	9.6
350 to 399	321.3	302.5	18.8	18.8	V	V	V	10.2
400 or more	47.0	37.2	S	S	V	V	V	24.3
Not available	41.0	40.3	.7	.3	S	V	V	21.4
Diesel fuel	177.5	107.1	70.3	S	57.8	.3	V	9.3
Less than 400	48.3	47.3	1.0	.8	S	V	V	26.6
400 to 599	57.3	43.8	13.5	S	3.1	V	V	18.6
600 to 799	32.6	8.5	24.2	S	23.8	S	V	4.3
800 or more	25.3	1.8	23.5	.3	23.1	S	V	4.8
Not available	13.9	5.8	8.1	S	7.6	S	V	8.2
Other fuel	S	S	V	V	V	V	V	S
Less than 400	S	S	V	V	V	V	V	S
400 or more	S	S	V	V	V	V	V	S
Not available	V	V	V	V	V	V	V	N
Not reported	.5	.5	V	V	V	V	V	40.4
Not applicable ²	26.5	26.5	V	V	V	V	V	32.6
REFUELING LOCATION								
Gas station	1 946.4	1 897.6	48.7	42.4	6.4	V	V	1.6
Truck stop	48.0	15.5	32.4	S	27.1	S	V	15.9
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	123.0	90.3	32.7	S	21.9	S	V	11.1
Other company's/contractor's facility not open to the public	13.4	S	1.4	V	1.4	V	V	46.1
Other	V	V	V	V	V	V	V	N
Not reported	65.0	63.3	1.7	S	1.3	V	V	24.4
Not applicable ²	26.5	26.5	V	V	V	V	V	32.6

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	54.7	54.4	S	S	S	V	V	26.9
Company-owned maintenance facility	227.7	177.1	50.6	S	36.0	S	V	10.3
General repair business or private mechanic	838.5	798.4	40.1	19.6	20.2	S	V	5.5
Dealership service department	517.6	498.5	19.1	S	8.6	S	V	7.7
Leasing company	3.9	1.7	2.2	V	2.2	V	V	17.8
Individual not employed/paid by any maintenance type facility	969.6	948.2	21.4	S	6.8	S	V	4.8
Other	V	V	V	V	V	V	V	N
Not reported	65.3	63.2	2.2	S	1.6	V	V	24.3
Not applicable ²	26.5	26.5	V	V	V	V	V	32.6
Extensive repairs performed by:								
None performed	1 757.0	1 663.5	93.5	56.4	36.9	S	V	2.3
Company-owned maintenance facility	17.4	13.8	3.5	S	3.4	S	V	35.6
General repair business or private mechanic	121.8	116.5	5.3	.9	4.3	S	V	17.4
Dealership service department	87.6	84.2	3.4	S	3.2	V	V	20.9
Leasing company	S	S	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)	18.8	17.5	1.3	V	1.3	V	V	45.3
Individual not employed/paid by any repair type facility	118.1	116.6	1.5	.8	.7	V	V	18.0
Other	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	26.5	26.5	V	V	V	V	V	32.6
AXLE ARRANGEMENT								
Driving axles:								
1	1 278.3	1 250.2	28.0	18.7	9.2	S	V	3.7
2	941.9	853.0	88.9	39.9	48.7	S	V	4.9
3 or more	1.1	1.0	S	V	S	V	V	27.3
Not reported	1.0	.9	S	V	S	V	V	35.9
Total liftable axles and locations ¹² :								
None	184.8	116.1	68.6	10.7	57.6	.3	V	2.5
1	7.6	7.1	.5	S	.3	V	V	9.8
Forward of the drive axle	6.1	5.8	.3	S	S	V	V	10.8
Below the chassis	.5	.5	V	V	V	V	V	48.1
Beyond the chassis	S	V	S	V	S	V	V	S
Not reported	.8	.8	S	S	V	V	V	31.2
2 or more	.8	.8	V	V	V	V	V	31.2
Forward of the drive axle	.8	.8	V	V	V	V	V	32.9
Below the chassis	.7	.7	V	V	V	V	V	34.9
Beyond the chassis	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not reported	.9	.8	S	V	S	V	V	33.1
Not applicable ¹⁰	2 028.1	1 980.3	47.8	47.8	V	V	V	1.0
Total liftable axles and number of braking axles:								
None	184.8	116.1	68.6	10.7	57.6	.3	V	2.5
1	7.6	7.1	.5	S	.3	V	V	9.8
0 braking	1.6	1.4	S	S	S	V	V	22.4
1 braking	5.8	5.5	.3	S	S	V	V	11.2
Not reported	S	S	V	V	V	V	V	S
2 or more	.8	.8	V	V	V	V	V	31.2
0 braking	S	S	V	V	V	V	V	S
1 braking	S	S	V	V	V	V	V	S
2 or more braking	.7	.7	V	V	V	V	V	34.9
Not reported	V	V	V	V	V	V	V	N
Not reported	.9	.8	S	V	S	V	V	33.1
Not applicable ¹⁰	2 028.1	1 980.3	47.8	47.8	V	V	V	1.0
CAB TYPE								
Conventional cab								
With sleeper	178.5	114.9	63.6	10.3	53.0	S	V	2.7
Without sleeper	29.5	S	29.4	V	29.3	S	V	4.1
Not reported	142.3	114.6	27.7	10.3	17.2	S	V	3.4
Not reported	6.7	S	6.6	V	6.6	V	V	11.1
Cab over engine								
With sleeper	14.5	8.8	5.7	.5	5.1	S	V	8.2
Without sleeper	4.2	.3	3.8	V	.8	V	V	13.7
Not reported	9.8	8.4	1.4	.5	.8	S	V	10.6
Not reported	.5	V	.5	V	.5	V	V	40.4
Cab forward of engine								
Cab beside engine	1.0	1.0	V	V	V	V	V	28.4
Not reported	V	V	V	V	V	V	V	N
Not applicable ¹⁰	S	S	V	V	V	V	V	S
Not applicable ¹⁰	2 028.1	1 980.3	47.8	47.8	V	V	V	1.0

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

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

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

³Truck-tractors not in use.

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

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

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

⁷Distributed miles data are available in Table 8.

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

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

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

¹¹Data were derived from administrative records.

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

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

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

Table 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	29 211.8	23 285.0	817.9	557.2	4 551.7	X
Coefficient of variation (percent)	3.0	3.7	16.4	9.7	2.8	X
BUSINESS¹						
For-hire transportation or warehousing	3 270.7	S	33.5	77.7	3 141.7	4.1
Vehicle leasing or rental	1 217.2	S	278.8	307.2	522.3	10.8
Agriculture, forestry, fishing, or hunting	452.6	272.9	S	11.6	92.9	29.8
Mining	S	S	S	S	S	S
Utilities	10.3	S	S	S	S	42.6
Construction	1 267.2	943.2	150.6	32.6	140.7	19.0
Manufacturing	S	S	28.3	S	91.4	S
Wholesale trade	588.3	S	34.6	S	162.6	35.4
Retail trade	620.0	529.2	28.8	22.2	39.8	31.0
Information services	V	V	V	V	V	N
Waste management, landscaping, or administrative/support services	337.4	S	31.7	15.0	94.3	37.4
Arts, entertainment, or recreation services	S	S	S	V	S	S
Accommodation or food services	42.7	V	S	S	30.4	35.4
Other services	436.7	S	14.0	S	S	49.8
Personal transportation	19 403.8	19 401.1	S	V	V	4.2
Not reported	684.0	302.9	S	29.0	228.6	25.1
Not applicable ²	S	S	S	S	V	S
BODY TYPE						
Single-unit trucks	25 251.0	23 285.0	817.9	548.7	599.4	3.4
Pickup	10 478.7	10 263.3	S	V	V	5.2
Minivan	4 127.7	4 127.7	V	V	V	12.4
Other light vans	1 059.1	1 059.1	V	V	V	22.7
Sport utility	7 662.9	7 662.9	V	V	V	9.2
Armored	S	S	V	S	V	S
Beverage	13.9	V	S	V	S	46.7
Concrete mixer	17.5	V	V	V	17.5	29.1
Concrete pumper	S	V	V	V	S	S
Crane	S	V	V	S	S	S
Curtainside	V	V	V	V	V	N
Dump	274.0	S	S	31.6	193.0	13.9
Flatbed, stake, or platform	247.0	49.6	91.1	48.0	58.3	14.1
Low boy	S	V	V	V	S	S
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Service, utility	52.3	S	S	S	S	29.2
Service, other	62.0	28.1	30.7	S	V	27.3
Street sweeper	S	S	S	V	V	S
Tank, dry bulk	S	V	V	S	S	S
Tank, liquids or gases	57.9	V	S	6.4	48.8	29.0
Tow/Wrecker	44.7	V	16.5	S	S	33.0
Trash, garbage, or recycling	115.4	V	S	S	109.8	17.6
Vacuum	S	V	V	V	S	S
Van, basic enclosed	564.4	S	67.6	401.8	59.9	9.8
Van, insulated nonrefrigerated	S	V	S	S	V	S
Van, insulated refrigerated	57.6	V	S	S	43.9	33.2
Van, open top	15.2	S	S	5.2	9.4	31.4
Van, step, walk-in, or multistop	345.5	29.7	298.4	S	S	11.9
Van, other	13.0	S	10.2	V	V	42.6
Other	S	V	V	V	S	S
Truck-tractors	3 960.7	V	V	S	3 952.2	3.2
Automobile carrier	42.6	V	V	V	42.6	42.1
Beverage	64.0	V	V	V	64.0	25.5
Curtainside	S	V	V	V	S	S
Dump	114.6	V	V	V	114.6	21.7
Flatbed, stake, or platform	273.0	V	V	S	264.9	15.8
Livestock	24.6	V	V	V	24.6	47.3
Low boy	27.4	V	V	V	27.4	36.5
Mobile home toter	S	V	V	S	S	S
Open top	28.4	V	V	V	28.4	36.5
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Tank, dry bulk	101.7	V	V	V	101.7	27.6
Tank, liquids or gases	96.7	V	V	V	96.7	28.0
Van, basic enclosed	2 739.8	V	V	V	2 739.8	4.5
Van, drop-frame	35.0	V	V	V	35.0	45.6
Van, insulated nonrefrigerated	S	V	V	V	S	S
Van, insulated refrigerated	327.6	V	V	V	327.6	17.3
Other	S	V	V	V	S	S
Not applicable ³	V	V	V	V	V	N
ANNUAL MILES						
Less than 5,000	905.5	840.1	12.2	17.4	35.8	10.7
5,000 to 9,999	3 391.9	3 258.2	S	34.5	48.1	8.2
10,000 to 19,999	11 823.1	11 333.9	312.5	51.0	125.7	5.4
20,000 to 29,999	5 369.7	4 810.6	187.8	180.6	190.8	12.1
30,000 to 49,999	3 035.4	2 131.0	238.4	197.8	468.1	18.6
50,000 to 74,999	1 121.1	S	S	53.3	546.0	31.2
75,000 or more	3 562.6	S	S	S	3 137.0	11.4
Not applicable ²	S	S	S	S	V	S
PRIMARY RANGE OF OPERATION						
Off-the-road	S	S	S	S	15.4	S
50 miles or less	17 587.9	16 511.8	248.5	152.0	675.5	5.0
51 to 100 miles	3 617.4	2 951.1	S	33.5	425.3	13.5
101 to 200 miles	866.4	S	22.2	S	372.0	27.7
201 to 500 miles	594.6	S	V	S	544.7	12.4
501 miles or more	2 054.2	526.3	S	S	1 507.3	9.7
Not reported	4 376.1	2 740.6	322.5	301.6	1 011.4	9.3
Not applicable ²	S	S	S	S	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	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	23 432.5	21 211.1	472.4	224.8	1 524.2	3.8
Operated in states other than the home base state	2 349.3	S	25.2	S	2 027.1	8.9
Not reported	3 427.5	1 821.9	319.9	285.3	1 000.4	9.9
Not applicable ²	S	S	S	S	V	S
MONTHS OPERATED						
12	20 926.4	16 369.8	596.3	410.3	3 550.0	4.4
7 to 11	5 673.0	4 744.0	200.5	73.3	655.2	9.6
2 to 6	2 367.1	1 972.5	19.8	53.8	320.9	13.2
1 or less	242.8	197.5	.9	18.9	25.6	39.7
Vehicle not used	S	S	S	S	V	S
AVERAGE WEIGHT (POUNDS)						
Less than 6,001	18 049.6	18 049.6	N	N	N	4.9
6,001 to 8,500	4 124.2	4 124.2	N	N	N	11.8
8,501 to 10,000	1 111.3	1 111.3	N	N	N	25.8
10,001 to 14,000	480.7	N	480.7	N	N	16.1
14,001 to 16,000	258.7	N	258.7	N	N	42.2
16,001 to 19,500	78.4	N	78.4	N	N	22.2
19,501 to 26,000	557.2	N	N	557.2	N	9.7
26,001 to 33,000	192.5	N	N	N	192.5	16.8
33,001 to 40,000	123.8	N	N	N	123.8	21.0
40,001 to 50,000	243.5	N	N	N	243.5	17.0
50,001 to 60,000	326.8	N	N	N	326.8	14.1
60,001 to 80,000	3 639.5	N	N	N	3 639.5	3.4
80,001 to 100,000	S	N	N	N	S	S
100,001 to 130,000	S	N	N	N	S	S
130,001 or more	V	N	N	N	V	N
TOTAL LENGTH (FEET)						
Less than 20.0	21 379.6	20 761.8	545.0	22.2	50.6	4.1
20.0 to 27.9	2 555.6	2 179.7	73.5	103.9	198.5	15.6
28.0 to 35.9	839.3	S	76.3	383.1	217.1	12.2
36.0 to 40.9	798.8	S	S	25.5	513.0	16.3
41.0 to 44.9	386.6	V	S	S	345.6	14.6
45.0 to 49.9	259.4	V	S	S	245.9	16.3
50.0 to 54.9	122.9	V	S	S	111.8	19.7
55.0 to 59.9	263.5	V	V	V	263.5	14.7
60.0 to 64.9	401.1	V	V	V	401.1	12.8
65.0 to 69.9	879.0	V	V	V	879.0	9.2
70.0 to 74.9	979.9	V	V	V	979.9	9.4
75.0 to 79.9	327.3	V	V	V	327.3	18.1
80.0 or more	S	V	V	S	S	S
MILES PER GALLON						
Less than 5	267.0	S	S	10.4	243.7	11.9
5 to 6.9	2 698.0	S	34.2	19.2	2 613.6	4.8
7 to 8.9	634.5	S	60.1	60.1	362.9	16.4
9 to 10.9	875.0	633.4	S	56.7	48.8	22.5
11 to 12.9	1 475.7	1 321.6	S	38.2	6	16.9
13 to 14.9	1 648.4	1 620.4	18.3	S	S	17.9
15 or more	16 620.0	16 500.2	S	13.7	S	5.6
15 to 20.9	13 269.1	13 149.4	S	13.7	V	6.7
21 to 24.9	2 407.4	2 407.4	V	V	V	17.4
25 or more	943.5	943.5	V	V	V	29.0
Not reported	4 990.8	3 025.8	334.7	352.2	1 278.2	9.3
Not applicable ²	S	S	S	S	V	S
MODEL YEAR						
2003	S	V	V	V	S	S
2002	1 847.2	1 286.6	78.2	59.7	422.6	14.9
2001	3 070.1	2 351.7	91.8	87.6	538.9	14.1
2000	3 509.8	2 260.1	175.5	111.0	963.1	12.6
1999	2 772.1	1 891.6	S	95.2	642.0	13.9
1998	3 788.9	3 130.0	S	72.4	508.8	15.2
1997	2 366.2	1 891.3	34.1	37.6	403.3	19.0
1996	2 241.4	1 992.0	S	16.4	222.8	16.4
1995	1 738.1	1 327.0	S	S	300.9	17.4
1994	1 514.5	1 392.6	S	S	110.9	23.8
1993	1 328.6	1 182.2	28.5	S	100.4	20.6
Pre-1993	5 023.3	4 580.1	70.3	46.7	326.2	8.7
VEHICLE ACQUISITION						
New	12 030.3	8 368.7	481.8	407.1	2 772.7	5.8
Used	15 293.6	13 612.9	260.6	106.4	1 313.6	5.7
Not reported	1 887.9	1 303.4	S	43.6	465.4	17.0
LEASE CHARACTERISTICS						
Leased	3 309.5	1 431.5	61.9	127.4	1 688.7	9.9
Lessee	2 193.3	1 322.9	30.1	S	795.0	13.8
Vehicle only	711.4	S	30.1	V	623.2	10.9
Vehicle with driver	157.5	V	V	V	157.5	23.3
Not reported	S	V	V	V	S	S
Not applicable ⁴	1 310.1	1 310.1	V	V	V	22.2
Lessor	902.8	S	31.8	74.3	796.2	9.1
Vehicle only	748.7	S	30.0	46.7	671.4	9.9
Vehicle with driver	154.1	V	S	V	124.8	24.4
Not reported	V	V	V	V	V	N
Not applicable ⁴	V	V	V	V	V	N
Not reported	S	S	V	S	97.4	S
Not leased	15 554.1	12 510.7	592.0	386.6	2 064.8	5.2
Not reported	10 348.1	9 342.8	S	43.1	798.2	7.5

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
LEASE CHARACTERISTICS—Con.						
Length of leasing agreement:						
Leased	3 309.5	1 431.5	61.9	127.4	1 688.7	9.9
1 to 11 months	174.3	V	S	S	144.2	21.3
12 months or more	1 684.0	S	59.4	99.9	1 511.3	6.4
Not reported	33.1	V	V	V	33.1	47.6
Not applicable ⁴	1 418.1	1 418.1	V	V	V	21.8
Provisions of lease ⁵ :						
Financing only	1 188.9	S	55.0	80.8	1 049.7	8.0
Full maintenance	866.2	S	33.4	54.3	768.5	9.4
Payment of taxes	876.1	S	33.4	54.3	778.4	9.1
Obtaining licenses and permits	947.2	S	33.4	67.8	836.0	8.8
Recordkeeping	712.8	S	30.8	S	642.4	10.3
Fuel contract	455.7	V	28.2	S	410.6	13.6
PRIMARY OPERATOR CLASSIFICATION						
Private	5 220.9	3 721.5	493.5	161.5	844.4	12.0
Motor carrier	2 622.8	S	39.3	68.2	2 497.5	5.0
Owner operator	739.9	S	S	S	682.8	10.4
Rental	1 221.9	S	278.8	307.2	527.0	10.8
Personal transportation	19 403.8	19 401.1	S	V	V	4.2
Not applicable ²	S	S	S	S	V	S
For-hire characteristics:						
Type of carrier:						
Contract	1 716.3	S	S	S	1 650.7	6.4
Common	1 138.4	S	10.4	15.5	1 110.1	7.9
Not reported	473.4	S	S	44.1	419.5	13.2
Not applicable ⁶	25 883.7	23 267.2	775.5	469.5	1 371.4	3.3
Type of service:						
Truckload	2 410.3	S	19.3	S	2 365.1	5.2
Less-than truckload	439.9	S	S	40.8	388.1	12.1
Not reported	477.9	S	14.5	S	427.0	13.1
Not applicable ⁶	25 883.7	23 267.2	775.5	469.5	1 371.4	3.3
Source of hauls:						
Shippers or receivers	2 534.4	S	23.0	45.6	2 447.9	5.0
Brokers	175.3	V	V	V	175.3	20.6
Centralized markets or exchanges	S	V	V	V	S	S
Other	V	V	V	V	V	N
Not reported	591.9	S	19.4	42.0	530.6	11.5
Not applicable ⁶	25 883.7	23 267.2	775.5	469.5	1 371.4	3.3
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	914.3	V	29.2	S	880.9	9.9
Not carrying hazardous materials	3 005.8	147.2	220.5	205.9	2 432.2	4.1
Not reported	843.6	19.5	73.6	39.0	711.6	8.9
Not applicable ⁸	24 448.1	23 118.4	494.7	308.0	527.0	3.5
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	S	S	S	S	V	S
Air bag(s) (safety device only)	16 126.0	15 093.4	289.4	52.2	691.0	5.6
Air compressor (except air brakes)	439.1	S	V	S	426.1	13.4
Air-conditioning	25 542.9	20 396.0	695.6	456.6	3 994.7	3.6
Air springs	1 745.6	V	V	S	1 736.4	6.4
Antilock brake system	20 275.9	16 230.0	636.4	361.3	3 048.1	4.7
Collision warning system	112.7	V	S	V	106.9	25.5
Computerized drive train control unit	2 654.6	2 346.2	S	S	285.0	15.8
Crane	18.3	S	S	S	13.3	38.6
Electronic vehicle identification device	514.9	S	S	V	496.8	13.3
Engine retarder/brake	2 156.6	S	20.9	11.4	2 122.5	5.7
Front-wheel drive	11 486.4	11 273.7	S	V	V	7.4
Hoist	254.1	6.4	20.8	27.1	199.8	10.6
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	365.5	V	S	S	355.0	14.5
Internet access	40.7	V	V	V	40.7	44.7
Lift gate	153.9	S	52.8	48.5	35.0	16.4
Mounting bar for snowplow	469.9	447.4	S	S	S	43.9
Navigational system	69.1	V	V	V	69.1	45.2
Power take-off	799.8	S	33.0	39.3	716.6	7.9
Radial tires	20 754.3	16 208.8	700.7	394.7	3 450.1	4.3
Reflective material in addition to those required by law	700.2	S	41.0	56.1	578.4	10.8
Road speed governor	3 456.4	S	329.7	326.9	2 796.7	4.0
Toolbox	1 968.0	1 174.4	183.4	71.1	539.0	15.2
Trip recorder or on-board computer with communication capabilities	1 987.6	807.0	V	V	1 180.6	12.0
Trip recorder or on-board computer without communication capabilities	5 481.1	5 154.9	S	S	240.3	11.8
Vehicle control aids for handicapped drivers	V	V	V	V	V	N
Wheelchair lift	V	V	V	V	V	N
Winch	267.8	S	S	20.0	56.4	47.0
Transmission type:						
Automatic	20 344.1	19 604.0	392.9	69.4	277.9	4.3
Manual	6 581.0	3 091.3	113.8	197.1	3 178.8	6.9
Semiautomated manual	103.6	S	S	V	69.5	41.4
Automated manual	99.7	S	V	V	57.3	47.4
Not reported	2 083.4	513.3	311.2	290.7	968.2	8.8
Braking system:						
Hydraulic (standard)	594.6	58.9	123.9	172.4	239.4	10.0
Hydraulic with power assist	332.3	98.9	124.9	77.7	30.7	11.5
Air	3 429.7	S	16.3	24.1	3 388.0	3.8
Other	V	V	V	V	V	N
Not reported	1 526.7	12.8	337.4	283.0	893.6	6.4
Not applicable ¹⁰	23 328.5	23 113.1	S	V	V	3.7

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	23 032.8	22 136.8	622.7	247.1	26.3	3.7
Diesel	6 169.6	1 145.9	194.7	309.0	4 519.9	5.6
Natural gas	V	V	V	V	V	N
Propane	S	V	V	S	S	S
Alcohol fuels	V	V	V	V	V	N
Electricity	V	V	V	V	V	N
Combination	V	V	V	V	V	N
Other	V	V	V	V	V	N
Not reported	1.2	1.2	V	V	V	48.9
Not applicable ²	S	S	S	S	V	S
Cylinders ¹¹ :						
4 cylinders	3 097.6	3 066.3	24.0	S	S	15.6
6 cylinders	16 265.6	11 477.6	135.6	239.0	4 413.4	4.6
8 cylinders	9 577.7	8 595.1	640.4	297.7	44.6	7.9
Other	270.9	S	S	13.4	93.5	29.8
Cubic inch displacement ¹¹ :						
Gasoline fuel	23 032.8	22 136.8	622.7	247.1	26.3	3.7
Less than 200	5 690.9	5 690.9	V	V	V	10.7
200 to 299	9 912.8	9 844.3	68.1	V	S	7.9
300 to 349	3 559.4	3 456.0	S	S	S	12.6
350 to 399	3 297.6	2 830.4	412.1	47.0	8.0	12.7
400 or more	434.4	205.5	35.3	185.3	S	21.5
Not available	137.8	S	4.3	14.3	9.5	47.9
Diesel fuel	6 169.6	1 145.9	194.7	309.0	4 519.9	5.6
Less than 400	769.5	628.0	63.5	65.0	13.1	30.3
400 to 599	1 158.5	517.8	126.2	235.7	278.8	19.8
600 to 799	1 927.4	V	V	S	1 920.5	5.3
800 or more	1 856.0	V	V	S	1 855.5	6.2
Not available	458.2	S	S	S	452.0	12.2
Other fuel	S	V	V	S	S	S
Less than 400	S	V	V	S	V	S
400 or more	S	V	V	V	S	S
Not available	V	V	V	V	V	N
Not reported	1.2	1.2	V	V	V	48.9
Not applicable ²	S	S	S	S	V	S
REFUELING LOCATION						
Gas station	22 600.7	21 727.7	398.2	118.3	356.5	3.8
Truck stop	2 600.4	S	S	65.0	2 290.0	8.3
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	2 969.4	485.9	370.2	365.0	1 748.2	7.2
Other company's/contractor's facility not open to the public	261.5	S	19.6	S	73.6	46.6
Other	V	V	V	V	V	N
Not reported	777.3	680.9	11.9	S	83.4	25.0
Not applicable ²	S	S	S	S	V	S
MAINTENANCE⁵						
General maintenance performed by:						
None performed	230.6	221.2	S	S	S	46.7
Company-owned maintenance facility	5 735.1	1 756.3	367.9	398.8	3 212.1	6.3
General repair business or private mechanic	12 496.0	10 785.8	151.6	89.2	1 469.5	6.9
Dealership service department	7 226.9	6 158.5	S	36.0	905.6	8.1
Leasing company	212.1	V	S	S	195.5	19.1
Individual not employed/paid by any maintenance type facility	10 426.8	9 792.4	260.1	53.5	320.8	7.0
Other	V	V	V	V	V	N
Not reported	819.9	704.3	16.7	S	97.5	24.3
Not applicable ²	S	S	S	S	V	S
Extensive repairs performed by:						
None performed	22 607.3	19 276.7	363.6	195.6	2 771.4	4.0
Company-owned maintenance facility	509.2	S	19.4	S	378.0	17.1
General repair business or private mechanic	1 863.1	1 355.6	S	S	361.2	17.7
Dealership service department	1 443.9	951.6	S	S	377.7	19.2
Leasing company	S	V	V	V	S	S
Component distributorship (engine, transmission, body, etc.)	486.7	S	V	V	156.9	41.3
Individual not employed/paid by any repair type facility	842.7	680.0	S	S	50.4	22.5
Other	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not applicable ²	S	S	S	S	V	S
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	24 691.3	22 886.6	701.7	529.4	573.6	3.5
2 axles	24 303.6	22 885.7	701.2	527.7	189.0	3.6
3 axles	355.9	V	S	S	353.6	9.8
4 axles	15.5	V	V	V	15.5	49.9
5 axles or more	13.9	V	V	V	13.9	34.8
Not reported	S	S	V	V	S	S
Combinations	4 520.5	398.4	S	27.7	3 978.1	4.4
Single-unit trucks with trailer	559.8	398.4	S	19.2	25.9	27.4
3 axles	174.9	S	S	S	V	49.2
4 axles	367.0	235.5	S	15.4	S	34.8
5 axles or more	12.1	V	V	V	12.1	44.5
Not reported	S	V	S	S	S	S
Truck-tractors with single trailer	3 926.1	V	V	S	3 917.6	3.2
3 axles	51.7	V	V	S	43.7	28.5
4 axles	208.7	V	V	V	208.7	18.9
5 axles or more	3 465.2	V	V	V	3 464.8	3.6
Not reported	200.5	V	V	V	200.5	19.6
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	S	V	V	V	S	S
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	13 634.8	12 001.0	566.8	554.6	512.3	5.5
2	15 551.2	11 283.4	251.1	S	4 014.1	5.5
3 or more	15.5	V	V	V	15.5	30.7
Not reported	S	S	V	V	S	S
Total liftable axles and locations ¹² :						
None	5 596.9	171.9	602.5	556.3	4 266.1	2.5
1	238.9	V	V	S	238.1	12.5
Forward of the drive axle	203.3	V	V	S	202.5	13.7
Below the chassis	S	V	V	V	S	S
Beyond the chassis	S	V	V	V	S	S
Not reported	25.3	V	V	V	25.3	38.9
2 or more	13.9	V	V	V	13.9	34.8
Forward of the drive axle	12.5	V	V	V	12.5	37.2
Below the chassis	9.6	V	V	V	9.6	38.0
Beyond the chassis	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not reported	33.6	V	V	V	33.6	37.5
Not applicable ¹⁰	23 328.5	23 113.1	S	V	V	3.7
Total liftable axles and number of braking axles:						
None	5 596.9	171.9	602.5	556.3	4 266.1	2.5
1	238.9	V	V	S	238.1	12.5
0 braking	50.3	V	V	S	49.5	26.8
1 braking	188.2	V	V	V	188.2	14.5
Not reported	S	V	V	V	S	S
2 or more	13.9	V	V	V	13.9	34.8
0 braking	S	V	V	V	S	S
1 braking	S	V	V	V	S	S
2 or more braking	11.9	V	V	V	11.9	37.7
Not reported	V	V	V	V	V	N
Not reported	33.6	V	V	V	33.6	37.5
Not applicable ¹⁰	23 328.5	23 113.1	S	V	V	3.7
CAB TYPE						
Conventional cab	5 306.0	156.9	556.0	523.4	4 069.7	2.7
With sleeper	2 545.3	V	V	V	2 545.3	4.9
Without sleeper	2 284.6	156.9	556.0	523.4	1 048.4	4.0
Not reported	476.0	V	V	V	476.0	12.0
Cab over engine	559.7	15.0	46.6	S	464.3	12.2
With sleeper	298.5	V	V	V	298.5	18.0
Without sleeper	197.6	15.0	46.6	S	102.3	17.4
Not reported	63.5	V	V	V	63.5	42.5
Cab forward of engine	16.2	V	V	V	16.2	31.4
Cab beside engine	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ¹⁰	23 328.5	23 113.1	S	V	V	3.7

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

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

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	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
Total	29 211.8	24 691.3	4 520.5	559.8	3 926.1	S	V	X
Coefficient of variation (percent)	3.0	3.5	4.4	27.4	3.2	S	N	X
BUSINESS¹								
For-hire transportation or warehousing	3 270.7	338.3	2 932.5	V	2 902.9	S	V	4.1
Vehicle leasing or rental	1 217.2	712.2	505.1	V	505.1	V	V	10.8
Agriculture, forestry, fishing, or hunting	452.6	359.9	92.7	S	46.6	S	V	29.8
Mining	S	S	V	V	V	V	V	S
Utilities	10.3	8.3	S	S	V	V	V	42.6
Construction	1 267.2	1 038.9	228.2	S	26.9	V	V	19.0
Manufacturing	S	S	80.7	V	80.7	V	V	S
Wholesale trade	588.3	474.0	114.3	S	110.1	V	V	35.4
Retail trade	620.0	591.2	28.8	S	22.5	V	V	31.0
Information services	V	V	V	V	V	V	V	N
Waste management, landscaping, or administrative/support services	337.4	276.3	S	S	S	V	V	37.4
Arts, entertainment, or recreation services	S	21.9	S	V	S	V	V	S
Accommodation or food services	42.7	21.9	S	S	S	V	V	35.4
Other services	436.7	S	S	S	S	V	V	49.8
Personal transportation	19 403.8	19 248.9	S	S	V	V	V	4.2
Not reported	684.0	388.1	295.9	S	205.7	V	V	25.1
Not applicable ²	S	S	V	V	V	V	V	S
BODY TYPE								
Single-unit trucks	25 251.0	24 691.3	559.8	559.8	N	N	N	3.4
Pickup	10 478.7	10 077.1	401.6	401.6	N	N	N	5.2
Minivan	4 127.7	4 127.7	V	V	N	N	N	12.4
Other light vans	1 059.1	1 059.1	V	V	N	N	N	22.7
Sport utility	7 662.9	7 606.4	S	S	N	N	N	9.2
Armored	S	S	V	V	N	N	N	S
Beverage	13.9	13.9	V	V	N	N	N	46.7
Concrete mixer	17.5	17.5	V	V	N	N	N	29.1
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	274.0	229.2	S	S	N	N	N	13.9
Flatbed, stake, or platform	247.0	207.5	39.5	39.5	N	N	N	14.1
Low boy	S	V	S	S	N	N	N	S
Pole, logging, pulpwood, or pipe	S	S	S	S	N	N	N	S
Service, utility	52.3	49.1	S	S	N	N	N	29.2
Service, other	62.0	62.0	V	V	N	N	N	27.3
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk	S	S	V	V	N	N	N	S
Tank, liquids or gases	57.9	53.7	S	S	N	N	N	29.0
Tow/Wrecker	44.7	44.7	V	V	N	N	N	33.0
Trash, garbage, or recycling	115.4	115.4	V	V	N	N	N	17.6
Vacuum	S	S	V	V	N	N	N	S
Van, basic enclosed	564.4	561.1	S	S	N	N	N	9.8
Van, insulated nonrefrigerated	S	S	V	V	N	N	N	S
Van, insulated refrigerated	57.6	57.6	V	V	N	N	N	33.2
Van, open top	15.2	15.0	S	S	N	N	N	31.4
Van, step, walk-in, or multistop	345.5	345.5	V	V	N	N	N	11.9
Van, other	13.0	9.6	S	S	N	N	N	42.6
Other	S	S	V	V	N	N	N	S
Truck-tractors	3 960.7	V	3 960.7	N	3 926.1	S	V	3.2
Automobile carrier	42.6	N	42.6	N	42.6	V	V	42.1
Beverage	64.0	N	64.0	N	64.0	V	V	25.5
Curtainside	S	N	S	N	S	V	V	S
Dump	114.6	N	114.6	N	114.6	V	V	21.7
Flatbed, stake, or platform	273.0	N	273.0	N	273.0	V	V	15.8
Livestock	24.6	N	24.6	N	24.6	V	V	47.3
Low boy	27.4	N	27.4	N	27.4	V	V	36.5
Mobile home toter	S	N	S	N	S	V	V	S
Open top	28.4	N	28.4	N	28.4	V	V	36.5
Pole, logging, pulpwood, or pipe	S	N	S	N	S	V	V	S
Tank, dry bulk	101.7	N	101.7	N	101.7	V	V	27.6
Tank, liquids or gases	96.7	N	96.7	N	96.7	V	V	28.0
Van, basic enclosed	2 739.8	N	2 739.8	N	2 705.2	S	V	4.5
Van, drop-frame	35.0	N	35.0	N	35.0	V	V	45.6
Van, insulated nonrefrigerated	S	N	S	N	S	V	V	S
Van, insulated refrigerated	327.6	N	327.6	N	327.6	V	V	17.3
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	905.5	868.4	37.1	S	13.5	V	V	10.7
5,000 to 9,999	3 391.9	3 238.9	152.9	137.1	15.9	V	V	8.2
10,000 to 19,999	11 823.1	11 410.7	412.4	366.6	45.9	V	V	5.4
20,000 to 29,999	5 369.7	5 258.6	111.2	15.9	95.2	V	V	12.1
30,000 to 49,999	3 035.4	2 708.6	326.8	S	314.4	V	V	18.6
50,000 to 74,999	1 121.1	709.9	411.2	S	401.9	S	V	31.2
75,000 or more	3 562.6	S	3 068.9	V	3 039.3	S	V	11.4
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	S	S	8.8	S	S	V	V	S
50 miles or less	17 587.9	16 923.1	664.8	336.2	328.6	V	V	5.0
51 to 100 miles	3 617.4	3 187.4	429.9	S	293.8	S	V	13.5
101 to 200 miles	866.4	489.4	377.0	S	307.0	S	V	27.7
201 to 500 miles	594.6	59.5	535.2	V	535.2	V	V	12.4
501 miles or more	2 054.2	510.2	1 543.9	S	1 507.3	V	V	9.7
Not reported	4 376.1	3 415.2	960.9	S	947.3	S	V	9.3
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	23 432.5	21 832.3	1 600.1	552.4	1 038.2	S	V	3.8
Operated in states other than the home base state	2 349.3	371.7	1 977.6	S	1 948.9	S	V	8.9
Not reported	3 427.5	2 484.8	942.8	S	939.0	V	V	9.9
Not applicable ²	S	S	V	V	V	V	V	S
MONTHS OPERATED								
12	20 926.4	17 509.0	3 417.4	245.3	3 144.4	S	V	4.4
7 to 11	5 673.0	4 929.2	743.8	262.1	474.8	S	V	9.6
2 to 6	2 367.1	2 031.0	336.0	S	284.2	V	V	13.2
1 or less	242.8	219.6	S	S	S	V	V	39.7
Vehicle not used	S	S	V	V	V	V	V	S
VEHICLE SIZE								
Light	23 285.0	22 886.6	398.4	398.4	V	V	V	3.7
Medium	817.9	701.7	S	S	V	V	V	16.4
Light-heavy	557.2	529.4	27.7	19.2	S	V	V	9.7
Heavy-heavy	4 551.7	573.6	3 978.1	25.9	3 917.6	S	V	2.8
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	18 049.6	17 854.7	194.9	194.9	V	V	V	4.9
6,001 to 8,500	4 124.2	4 121.5	S	S	V	V	V	11.8
8,501 to 10,000	1 111.3	910.4	S	S	V	V	V	25.8
10,001 to 14,000	480.7	405.8	S	S	V	V	V	16.1
14,001 to 16,000	258.7	228.1	S	S	V	V	V	42.2
16,001 to 19,500	78.4	67.8	S	S	V	V	V	22.2
19,501 to 26,000	557.2	529.4	27.7	19.2	S	V	V	9.7
26,001 to 33,000	192.5	144.0	48.5	S	42.3	V	V	16.8
33,001 to 40,000	123.8	35.1	88.8	S	80.3	V	V	21.0
40,001 to 50,000	243.5	85.9	157.6	S	157.5	V	V	17.0
50,001 to 60,000	326.8	72.3	254.5	S	252.2	V	V	14.1
60,001 to 80,000	3 639.5	236.3	3 403.2	S	3 359.7	S	V	3.4
80,001 to 100,000	S	V	S	V	V	V	V	S
100,001 to 130,000	S	V	S	V	S	V	V	S
130,001 or more	V	V	V	V	V	V	V	N
TOTAL LENGTH (FEET)								
Less than 20.0	21 379.6	21 379.6	V	V	V	V	V	4.1
20.0 to 27.9	2 555.6	2 483.3	S	S	V	V	V	15.6
28.0 to 35.9	839.3	675.6	S	S	S	V	V	12.2
36.0 to 40.9	798.8	116.7	682.2	256.5	425.7	V	V	16.3
41.0 to 44.9	386.6	13.1	373.6	S	342.6	V	V	14.6
45.0 to 49.9	259.4	S	247.5	14.3	233.2	V	V	16.3
50.0 to 54.9	122.9	11.1	111.8	19.6	92.2	V	V	19.7
55.0 to 59.9	263.5	V	263.5	S	237.4	S	V	14.7
60.0 to 64.9	401.1	V	401.1	S	400.6	V	V	12.8
65.0 to 69.9	879.0	V	879.0	V	879.0	V	V	9.2
70.0 to 74.9	979.9	V	979.9	V	974.9	S	V	9.4
75.0 to 79.9	327.3	V	327.3	V	320.5	S	V	18.1
80.0 or more	S	V	S	V	S	V	V	S
MILES PER GALLON								
Less than 5	267.0	121.5	145.5	S	144.5	V	V	11.9
5 to 6.9	2 698.0	362.6	2 335.4	12.4	2 288.4	S	V	4.8
7 to 8.9	634.5	316.6	317.8	S	274.4	V	V	16.4
9 to 10.9	875.0	819.4	S	S	S	V	V	22.5
11 to 12.9	1 475.7	1 308.0	S	S	S	V	V	16.9
13 to 14.9	1 648.4	1 570.5	S	S	V	V	V	17.9
15 or more	16 620.0	16 415.3	204.7	204.7	V	V	V	5.6
15 to 20.9	13 269.1	13 116.3	S	S	V	V	V	6.7
21 to 24.9	2 407.4	2 355.5	S	S	V	V	V	17.4
25 or more	943.5	943.5	V	V	V	V	V	29.0
Not reported	4 990.8	3 774.9	1 215.9	11.5	1 204.3	V	V	9.3
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type						Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers	
MODEL YEAR							
2003	S	V	S	V	S	V	S
2002	1 847.2	1 454.1	393.1	V	386.2	S	V
2001	3 070.1	2 568.6	501.5	S	498.8	V	V
2000	3 509.8	2 617.0	892.8	S	842.6	S	V
1999	2 772.1	2 092.4	679.7	S	578.4	V	V
1998	3 788.9	3 220.7	568.2	S	459.3	V	V
1997	2 366.2	2 018.3	347.9	S	331.9	V	V
1996	2 241.4	1 969.3	272.1	S	178.8	V	V
1995	1 738.1	1 374.5	363.5	S	246.7	V	V
1994	1 514.5	1 416.4	98.1	V	98.1	V	V
1993	1 328.6	1 252.2	76.4	S	71.0	V	V
Pre-1993	5 023.3	4 707.8	315.5	S	222.6	V	V
VEHICLE ACQUISITION							
New	12 030.3	9 475.2	2 555.1	136.8	2 383.6	S	V
Used	15 293.6	13 813.4	1 480.1	357.2	1 123.0	V	V
Not reported	1 887.9	1 402.6	485.3	S	419.6	V	V
LEASE CHARACTERISTICS							
Leased	3 309.5	1 643.1	1 666.4	S	1 580.8	S	V
Lessee	2 193.3	1 396.8	796.6	S	710.9	V	V
Vehicle only	711.4	143.3	568.2	S	539.1	V	V
Vehicle with driver	157.5	V	157.5	V	157.5	V	V
Not reported	S	V	S	V	S	V	V
Not applicable ⁴	1 310.1	1 253.5	S	S	V	V	V
Lessor	902.8	130.4	772.4	V	772.4	V	V
Vehicle only	748.7	101.1	647.6	V	647.6	V	V
Vehicle with driver	154.1	S	124.8	V	124.8	V	V
Not reported	V	V	V	V	V	V	V
Not applicable ⁴	V	V	V	V	V	V	V
Not reported	S	S	97.4	V	97.4	V	V
Not leased	15 554.1	13 493.5	2 060.6	355.0	1 698.7	S	V
Not reported	10 348.1	9 554.7	793.5	141.8	646.6	S	V
Length of leasing agreement:							
Leased	3 309.5	1 643.1	1 666.4	S	1 580.8	S	V
1 to 11 months	174.3	S	142.1	V	142.1	V	V
12 months or more	1 684.0	249.4	1 434.6	S	1 405.5	S	V
Not reported	33.1	V	33.1	V	33.1	V	V
Not applicable ⁴	1 418.1	1 361.6	S	S	V	V	V
Provisions of lease ⁵ :							
Financing only	1 188.9	176.6	1 012.3	S	983.2	S	V
Full maintenance	866.2	140.0	726.2	V	726.2	V	V
Payment of taxes	876.1	113.9	762.2	V	762.2	V	V
Obtaining licenses and permits	947.2	122.3	824.9	V	824.9	V	V
Recordkeeping	712.8	81.8	631.0	V	631.0	V	V
Fuel contract	455.7	47.9	407.8	V	407.8	V	V
PRIMARY OPERATOR CLASSIFICATION							
Private	5 220.9	4 355.6	865.3	367.5	492.8	S	V
Motor carrier	2 622.8	308.8	2 314.0	S	2 290.0	S	V
Owner operator	739.9	59.0	680.9	S	637.9	S	V
Rental	1 221.9	716.5	505.5	V	505.5	V	V
Personal transportation	19 403.8	19 248.9	S	S	V	V	V
Not applicable ²	S	S	V	V	V	V	V
For-hire characteristics:							
Type of carrier:							
Contract	1 716.3	147.8	1 568.5	V	1 538.9	S	V
Common	1 138.4	143.9	994.5	V	994.5	V	V
Not reported	473.4	76.1	397.3	S	394.5	V	V
Not applicable ⁶	25 883.7	24 323.5	1 560.2	557.0	998.2	S	V
Type of service:							
Truckload	2 410.3	195.2	2 215.1	V	2 215.1	V	V
Less-than truckload	439.9	105.8	334.1	V	304.5	S	V
Not reported	477.9	66.7	411.1	S	408.3	V	V
Not applicable ⁶	25 883.7	24 323.5	1 560.2	557.0	998.2	S	V
Source of hauls:							
Shippers or receivers	2 534.4	235.0	2 299.3	V	2 276.6	S	V
Brokers	175.3	S	169.8	V	169.8	V	V
Centralized markets or exchanges	S	V	S	V	S	V	V
Other	V	V	V	V	V	V	V
Not reported	591.9	127.2	464.7	S	461.9	V	V
Not applicable ⁶	25 883.7	24 323.5	1 560.2	557.0	998.2	S	V
HAZARDOUS MATERIALS CARRIED⁷							
Carrying hazardous materials	914.3	52.5	861.7	V	854.9	S	V
Not carrying hazardous materials	3 005.8	987.5	2 018.3	93.7	1 919.6	S	V
Not reported	843.6	166.7	676.9	S	646.2	S	V
Not applicable ⁸	24 448.1	23 484.5	963.6	458.1	505.5	V	V
EQUIPMENT TYPE^{5 9}							
Aerial work platform/bucket	S	S	S	S	V	V	S
Air bag(s) (safety device only)	16 126.0	15 168.3	957.7	276.0	674.9	V	V
Air compressor (except air brakes)	439.1	56.9	382.2	S	378.2	V	V
Air-conditioning	25 542.9	21 471.6	4 071.3	482.6	3 576.9	S	V
Air springs	1 745.6	87.8	1 657.8	S	1 644.2	S	V

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	20 275.9	17 012.5	3 263.3	439.0	2 812.4	S	V	4.7
Collision warning system	112.7	S	110.8	S	104.0	V	V	25.5
Computerized drive train control unit	2 654.6	2 385.6	269.0	S	268.1	V	V	15.8
Crane	18.3	15.2	S	S	V	V	V	38.6
Electronic vehicle identification device	514.9	28.7	486.2	S	475.1	S	V	13.3
Engine retarder/brake	2 156.6	132.8	2 023.8	8.8	2 003.1	S	V	5.7
Front-wheel drive	11 486.4	11 132.6	353.8	353.8	V	V	V	7.4
Hoist	254.1	239.2	14.9	14.9	V	V	V	10.6
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	365.5	61.1	304.4	S	301.6	V	V	14.5
Internet access	40.7	V	40.7	V	40.7	V	V	44.7
Lift gate	153.9	153.9	S	S	V	V	V	16.4
Mounting bar for snowplow	469.9	420.0	S	S	V	V	V	43.9
Navigational system	69.1	S	61.8	V	61.8	V	V	45.2
Power take-off	799.8	396.1	403.7	22.8	380.9	V	V	7.9
Radial tires	20 754.3	17 212.5	3 541.8	486.0	3 021.2	S	V	4.3
Reflective material in addition to those required by law	700.2	209.7	490.6	S	487.1	V	V	10.8
Road speed governor	3 456.4	853.4	2 603.0	S	2 556.7	V	V	4.0
Toolbox	1 968.0	1 324.1	643.9	241.1	397.8	S	V	15.2
Trip recorder or on-board computer with communication capabilities	1 987.6	841.3	1 146.3	V	1 146.3	V	V	12.0
Trip recorder or on-board computer without communication capabilities	5 481.1	5 112.6	368.5	S	202.3	S	V	11.8
Vehicle control aids for handicapped drivers	V	V	V	V	V	V	V	N
Wheelchair lift	V	V	V	V	V	V	V	N
Winch	267.8	255.5	S	V	S	V	V	47.0
Transmission type:								
Automatic	20 344.1	19 733.5	610.6	441.1	169.5	V	V	4.3
Manual	6 581.0	3 733.5	2 847.5	115.2	2 697.7	S	V	6.9
Semiautomated manual	103.6	S	69.2	V	69.2	V	V	41.4
Automated manual	99.7	S	57.2	V	57.2	V	V	47.4
Not reported	2 083.4	1 147.4	936.0	S	932.5	V	V	8.8
Braking system:								
Hydraulic (standard)	594.6	382.1	212.5	17.5	194.9	V	V	10.0
Hydraulic with power assist	332.3	299.0	33.3	27.8	S	V	V	11.5
Air	3 429.7	499.6	2 930.1	26.9	2 868.6	S	V	3.8
Other	V	V	V	V	V	V	V	N
Not reported	1 526.7	640.3	886.5	S	857.1	V	V	6.4
Not applicable ¹⁰	23 328.5	22 870.4	458.1	458.1	V	V	V	3.7
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	23 032.8	22 626.0	406.8	406.2	S	V	V	3.7
Diesel	6 169.6	2 055.9	4 113.7	S	3 925.5	S	V	5.6
Natural gas	V	V	V	V	V	V	V	N
Propane	S	S	V	V	V	V	V	S
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	V	V	V	V	V	V	V	N
Other	V	V	V	V	V	V	V	N
Not reported	1.2	1.2	V	V	V	V	V	48.9
Not applicable ²	S	S	V	V	V	V	V	S
Cylinders¹¹:								
4 cylinders	3 097.6	3 027.5	S	S	V	V	V	15.6
6 cylinders	16 265.6	12 323.6	3 942.0	33.2	3 874.1	S	V	4.6
8 cylinders	9 577.7	9 157.8	419.9	405.8	S	V	V	7.9
Other	270.9	182.4	S	S	38.0	V	V	29.8
Cubic inch displacement¹¹:								
Gasoline fuel								
Less than 200	23 032.8	22 626.0	406.8	406.2	S	V	V	3.7
200 to 299	5 690.9	5 621.7	S	S	V	V	V	10.7
300 to 349	9 912.8	9 856.2	S	S	V	V	V	7.9
350 to 399	3 559.4	3 522.0	S	S	V	V	V	12.6
400 or more	3 297.6	3 114.5	183.0	183.0	V	V	V	12.7
Not available	434.4	374.6	S	S	V	V	V	21.5
Diesel fuel	137.8	136.9	S	S	S	V	V	47.9
Less than 400	6 169.6	2 055.9	4 113.7	S	3 925.5	S	V	5.6
400 to 599	769.5	760.7	8.9	8.5	S	V	V	30.3
600 to 799	1 158.5	934.8	223.7	S	91.0	V	V	19.8
800 or more	1 927.4	264.9	1 662.5	S	1 633.0	S	V	5.3
Not available	1 856.0	42.6	1 813.4	S	1 803.5	S	V	6.2
Other fuel	458.2	52.9	405.2	S	397.6	S	V	12.2
Less than 400	S	S	V	V	V	V	V	S
400 or more	S	S	V	V	V	V	V	S
Not available	V	V	V	V	V	V	V	N
Not reported	1.2	1.2	V	V	V	V	V	48.9
Not applicable ²	S	S	V	V	V	V	V	S
REFUELING LOCATION								
Gas station	22 600.7	21 994.2	606.6	384.3	222.2	V	V	3.8
Truck stop	2 600.4	S	2 254.6	S	2 189.4	S	V	8.3
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	2 969.4	1 441.7	1 527.7	S	1 386.6	S	V	7.2
Other company's/contractor's facility not open to the public	261.5	S	54.6	V	54.6	V	V	46.6
Other	V	V	V	V	V	V	V	N
Not reported	777.3	700.3	77.0	S	73.3	V	V	25.0
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type						Coefficient of variation of total (percent)	
	Total	Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
MAINTENANCE⁵								
General maintenance performed by:								
None performed	230.6	227.8	S	S	S	V	V	46.7
Company-owned maintenance facility	5 735.1	2 714.3	3 020.8	S	2 831.2	S	V	6.3
General repair business or private mechanic	12 496.0	10 998.4	1 497.6	148.0	1 315.1	S	V	6.9
Dealership service department	7 226.9	6 304.2	922.7	S	823.9	V	V	8.1
Leasing company	212.1	53.2	158.9	V	158.9	V	V	19.1
Individual not employed/paid by any maintenance type facility	10 426.8	10 008.1	418.7	S	241.4	S	V	7.0
Other	V	V	V	V	V	V	V	N
Not reported	819.9	728.7	91.2	S	86.5	V	V	24.3
Not applicable ²	S	S	V	V	V	V	V	S
Extensive repairs performed by:								
None performed	22 607.3	19 714.2	2 893.1	537.2	2 330.8	S	V	4.0
Company-owned maintenance facility	509.2	196.1	313.1	S	301.3	S	V	17.1
General repair business or private mechanic	1 863.1	1 522.1	341.0	13.2	318.3	S	V	17.7
Dealership service department	1 443.9	1 090.5	353.4	S	351.5	V	V	19.2
Leasing company	S	S	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)	486.7	S	155.6	V	155.6	V	V	41.3
Individual not employed/paid by any repair type facility	842.7	796.6	46.1	S	40.1	V	V	22.5
Other	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	S	S	V	V	V	V	V	S
AXLE ARRANGEMENT								
Driving axles:								
1	13 634.8	13 135.2	499.6	166.2	315.1	S	V	5.5
2	15 551.2	11 540.6	4 010.5	393.5	3 600.7	S	V	5.5
3 or more	15.5	13.3	S	V	S	V	V	30.7
Not reported	S	S	S	V	S	V	V	S
Total liftable axles and locations ¹² :								
None	5 596.9	1 560.9	4 036.0	99.5	3 901.9	S	V	2.5
1	238.9	225.1	S	S	S	V	V	12.5
Forward of the drive axle	203.3	195.9	S	S	S	V	V	13.7
Below the chassis	S	S	V	V	V	V	V	S
Beyond the chassis	S	S	V	V	S	V	V	S
Not reported	25.3	24.9	S	S	V	V	V	38.9
2 or more	13.9	13.9	V	V	V	V	V	34.8
Forward of the drive axle	12.5	12.5	V	V	V	V	V	37.2
Below the chassis	9.6	9.6	V	V	V	V	V	38.0
Beyond the chassis	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not reported	33.6	21.0	S	V	S	V	V	37.5
Not applicable ¹⁰	23 328.5	22 870.4	458.1	458.1	V	V	V	3.7
Total liftable axles and number of braking axles:								
None	5 596.9	1 560.9	4 036.0	99.5	3 901.9	S	V	2.5
1	238.9	225.1	S	S	S	V	V	12.5
0 braking	50.3	49.1	S	S	S	V	V	26.8
1 braking	188.2	175.7	S	S	S	V	V	14.5
Not reported	S	S	V	V	V	V	V	S
2 or more	13.9	13.9	V	V	V	V	V	34.8
0 braking	S	S	V	V	V	V	V	S
1 braking	S	S	V	V	V	V	V	S
2 or more braking	11.9	11.9	V	V	V	V	V	37.7
Not reported	V	V	V	V	V	V	V	N
Not reported	33.6	21.0	S	V	S	V	V	37.5
Not applicable ¹⁰	23 328.5	22 870.4	458.1	458.1	V	V	V	3.7
CAB TYPE								
Conventional cab								
With sleeper	5 306.0	1 655.7	3 650.3	97.4	3 531.5	S	V	2.7
Without sleeper	2 545.3	V	2 545.3	V	2 538.5	S	V	4.9
Not reported	2 284.6	1 655.7	628.9	97.4	517.0	S	V	4.0
Not reported	476.0	V	476.0	V	476.0	V	V	12.0
Cab over engine								
With sleeper	559.7	147.6	412.1	S	394.6	S	V	12.2
Without sleeper	298.5	V	298.5	V	298.5	V	V	18.0
Not reported	197.6	147.6	50.0	S	32.6	S	V	17.4
Not reported	63.5	V	63.5	V	63.5	V	V	42.5
Cab forward of engine								
Cab beside engine	16.2	16.2	V	V	V	V	V	31.4
Not reported	V	V	V	V	V	V	V	N
Not applicable ¹⁰	S	S	V	V	V	V	V	S
Not applicable ¹⁰	23 328.5	22 870.4	458.1	458.1	V	V	V	3.7

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

¹Comparability of estimates may vary across survey years due to changes in category definitions.
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	29 211.8	5 883.3	3.0	2.4		
TRAILER CONFIGURATION						
No trailer pulled	24 446.5	1 906.4	3.5	4.1		
Single trailer pulled	4 726.0	3 937.5	3.8	3.1		
Double trailers pulled	36.8	36.8	49.2	49.2		
Triple trailers pulled	V	V	N	N		
Not applicable ¹	S	S	S	S		
RANGE OF OPERATION						
Off-the-road	210.2	37.9	31.9	17.0		
50 miles or less	15 354.9	1 014.7	4.5	5.4		
51 to 100 miles	4 277.8	648.3	9.6	6.8		
101 to 200 miles	1 537.5	521.8	15.1	7.9		
201 to 500 miles	1 181.8	690.4	9.6	7.9		
501 miles or more	2 270.9	1 330.5	8.8	7.0		
Not reported	4 376.1	1 637.1	9.3	6.0		
Not applicable ¹	S	S	S	S		
JURISDICTION						
Operated in Canada	35.6	26.3	19.0	17.3		
Operated in Mexico	S	S	S	S		
Operated within the home base state	22 506.0	2 300.2	3.8	3.7		
Operated in states other than the home base state	3 230.0	1 943.6	5.9	5.4		
Not reported	3 427.5	1 607.3	9.9	6.1		
Not applicable ¹	S	S	S	S		
OPERATOR CLASSIFICATION						
Private	5 309.7	1 435.2	11.3	5.7		
Motor carrier	2 604.9	2 604.9	5.0	5.0		
Owner operator	739.7	712.1	9.9	9.5		
Rental	1 256.4	1 119.2	10.8	7.2		
Personal transportation	19 298.5	9.5	4.1	31.8		
Not applicable ¹	S	S	S	S		
For-hire characteristics:						
Type of carrier:						
Contract	1 704.8	1 704.8	6.2	6.2		
Common	1 150.9	1 150.9	7.6	7.6		
Not reported	472.4	472.4	13.2	13.2		
Not applicable ^{2 3}	25 883.7	2 555.2	3.3	4.1		
Type of service:						
Truckload	484.6	484.6	10.4	10.4		
Less-than truckload	2 386.0	2 386.0	5.1	5.1		
Not reported	457.5	457.5	13.4	13.4		
Not applicable ^{2 3}	25 883.7	2 555.2	3.3	4.1		
PRODUCTS CARRIED⁴						
Animals and fish, live	25.2	16.4	42.7	42.8		
Animal feed and products of animal origin	32.7	27.1	34.3	38.2		
Grains, cereal	56.8	54.5	18.6	18.9		
All other agricultural products	137.4	99.0	31.8	29.5		
Basic chemicals	S	16.9	S	23.8		
Fertilizers and fertilizer materials	16.4	13.2	31.7	30.9		
Pharmaceutical products	80.3	80.3	36.2	36.2		
All other chemical products and preparations	61.1	60.2	27.7	28.1		
Alcoholic beverages	17.2	17.2	34.9	34.9		
Bakery and milled grain products	80.9	80.9	23.4	23.4		
Meat, seafood, and their preparations	57.1	56.3	26.6	26.9		
Tobacco products	S	S	S	S		
All other prepared foodstuffs	221.1	221.1	12.9	12.9		
Logs and other wood in the rough	19.1	19.1	40.0	40.1		
Paper or paperboard articles	102.0	100.4	27.8	28.2		
Printed products	S	22.9	S	36.0		
Pulp, newsprint, paper, and paperboard	22.1	22.1	26.0	26.0		
Wood products	161.7	102.9	26.0	21.2		
Articles of base metal	543.6	91.9	32.6	23.2		
Base metal in primary or semifinished forms	262.3	117.5	27.1	19.1		
Nonmetallic mineral products	98.9	83.0	21.6	19.6		
Tools, nonpowered	1 458.4	159.9	19.8	20.4		
Tools, powered	1 119.5	132.6	22.4	23.2		
Electronic and other electrical equipment	297.4	90.2	37.4	21.5		
Furniture, mattresses, lamps, etc.	160.2	158.4	17.4	17.6		
Machinery	166.9	107.4	35.0	17.8		
Miscellaneous manufactured products	145.2	145.2	17.4	17.4		
Precision instruments and apparatus	S	17.5	S	45.8		
Textile, leather, and related articles	82.3	82.3	33.5	33.5		
Vehicles, including parts	523.9	431.3	19.2	11.8		
All other transportation equipment	S	S	S	S		
Coal	17.0	17.0	47.4	47.4		
Crude petroleum	S	S	S	S		
Gravel or crushed stone	96.8	96.8	16.0	16.0		
Metallic ores and concentrates	2.7	2.7	49.5	49.5		
Monumental or building stone	19.8	19.8	25.2	25.2		
Natural sands	34.5	34.5	33.1	33.1		
All other nonmetallic minerals	22.8	22.8	31.5	31.5		
Fuel oils	S	31.3	S	29.6		
Gasoline and aviation turbine fuel	31.1	S	41.1	S		

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	A	B
PRODUCTS CARRIED⁴—Con.						
Plastics and rubber	262.8	82.6	43.5		23.2	
All other coal and refined petroleum products	S	35.4	S		26.4	
Hazardous waste (EPA manifest)	S	S	S		S	
All other waste and scrap (non-EPA manifest)	121.4	98.0	21.8		16.0	
Recyclable products	36.6	34.6	29.7		31.0	
Mail and courier parcels	S	S	S		S	
Empty shipping containers	46.8	44.7	40.2		41.9	
Passengers	S	S	S		S	
Mixed freight	462.6	462.6	12.6		12.6	
Products, equipment, or materials not elsewhere classified	S	S	S		S	
Products not specified	423.3	239.7	24.0		15.6	
Not applicable ¹	S	S	S		S	
HAZARDOUS MATERIALS CARRIED⁴						
Division 1.1, Explosives	V	V	N		N	
Division 1.2, Explosives	V	V	N		N	
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	37.1	37.1	30.3		30.3	
Division 2.2, Nonflammable gas	6.7	6.7	44.4		44.4	
Division 2.3, Poison gas	S	S	S		S	
Class 3, Flammable	40.3	40.3	27.8		27.8	
Combustible liquid	6.4	6.4	30.5		30.5	
Oxygen 2, Oxygen	S	S	S		S	
Division 4.1, Flammable solid	4.5	4.5	15.6		15.6	
Division 4.2, Spontaneously combustible	S	S	S		S	
Division 4.3, Dangerous when wet	S	S	S		S	
Division 5.1, Oxidizer	9.4	9.4	24.7		24.7	
Division 5.2, Organic peroxide	S	S	S		S	
Division 6.1, Poison inhalation hazard	S	S	S		S	
Division 6.1, Poison	S	S	S		S	
Class 7, Radioactive	S	S	S		S	
Class 8, Corrosive	31.8	31.8	27.6		27.6	
Class 9	8.9	8.9	43.6		43.6	
Hazardous materials not specified	S	S	S		S	
Not applicable ¹	S	S	S		S	

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

¹Vehicles not in use. When the respondent had partial-year ownership of the vehicle, annual miles were adjusted to reflect miles traveled when not owned by the respondent.
²Column A includes: pickups, minivans, other light vans, and sport utilities; all other vehicles that are private, rental, 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

