

Ohio: 2002

Issued December 2004

EC02TV-OH(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 Ohio is 2,756 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 Ohio, approximately 76.1 percent of the questionnaires were returned with substantive data. *Item nonresponse* occurs either when a question is unanswered or the response to the question fails computer or analyst edits. The procedures used to account for unit and item nonresponse are discussed below.

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

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

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

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

Unpublished Estimates

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

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

CONFIDENTIALITY AND DISCLOSURE

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

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

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

SYMBOLS

The following symbols are used in this publication:

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



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

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

Vehicular and operational characteristics	2002	1997	1992	1987	Vehicular and operational characteristics	2002	1997	1992	1987
Total	100.0	100.0	100.0	100.0	MODEL YEAR				
BUSINESS¹					1 to 2 years old	14.4	17.5	15.5	15.6
Agriculture, forestry, fishing, or hunting	1.9	3.3	4.9	7.4	3 to 4 years old	15.6	18.2	14.4	18.1
Mining .....	.1	S	.2	.7	Over 4 years old	70.1	64.4	70.2	66.3
Construction	5.8	9.0	8.0	8.5	VEHICLE ACQUISITION				
Manufacturing .....	.7	1.2	1.2	1.5	New	39.9	38.3	46.3	47.7
Wholesale and retail trade	2.7	3.9	4.0	7.0	Used	55.7	48.9	49.4	50.0
For-hire transportation or warehousing	1.7	1.5	1.8	2.8	Not reported ⁴	4.4	12.9	4.3	2.3
Utilities and all services	3.9	5.9	6.2	6.2	TRUCK TYPE				
Personal transportation	80.1	72.9	71.5	65.8	Single-unit trucks ⁵	96.9	96.4	96.5	95.2
Other, not reported, and not applicable	3.1	1.8	2.3	.2	2 axles	96.2	95.7	95.5	94.1
BODY TYPE					3 axles or more				
Pickup, minivan, other light vans, and sport utility	92.4	91.6	89.8	87.7	Trailer/axles not specified	V	N	N	N
Flatbed, stake, platform, and low boy	1.6	2.0	2.9	3.7	Combinations	3.1	3.6	3.5	4.8
Van ²	2.3	1.8	2.4	2.6	3 axles .....	.3	.3	.4	.9
Service, utility .....	.2	.1	.4	.4	4 axles .....	.8	1.5	1.2	1.3
Van, step, walk-in, or multistop .....	.6	1.4	.8	1.0	5 axles or more	1.8	1.8	1.9	2.5
Dump	1.6	1.2	1.3	2.0	Trailer/axles not specified .....	.2	V	V	V
Tank for liquids, gases, or dry bulk .....	.3	.4	.6	.6	RANGE OF OPERATION				
Other and not applicable .....	.9	1.4	1.8	1.9	50 miles or less	71.7	75.5	76.3	78.2
VEHICLE SIZE					51 to 200 miles	11.5	14.9	13.9	14.6
Light	93.6	93.2	92.8	91.3	201 miles or more	3.3	5.8	4.5	4.7
Medium	1.8	2.4	1.9	2.1	Off-the-road, not reported, and not applicable	13.5	3.9	5.4	2.6
Light-heavy	1.2	1.1	1.3	2.0	FUEL TYPE				
Heavy-heavy	3.4	3.4	4.0	4.6	Gasoline	91.4	93.5	92.9	93.4
ANNUAL MILES					All other fuels	7.2	6.4	6.9	6.6
Less than 5,000 ³	19.1	17.5	22.5	25.5	Other, not reported, and not applicable	1.4	.1	.2	V
5,000 to 9,999	20.6	17.0	19.3	23.0					
10,000 to 19,999	44.8	44.9	42.2	34.1					
20,000 to 29,999	9.6	12.7	9.5	10.7					
30,000 or more	5.8	7.9	6.6	6.7					

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

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

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

³Includes vehicles not in use.

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

⁵Excludes truck-tractors not in use.

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

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

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

Vehicular and operational characteristics	2002	1997	Vehicular and operational characteristics	2002	1997
Total	100.0	100.0	MODEL YEAR		
BUSINESS¹			1 to 2 years old	7.0	13.3
Agriculture, forestry, fishing, or hunting	12.3	11.2	3 to 4 years old	16.6	16.6
Mining .....	.9	1.6	Over 4 years old	76.4	70.1
Construction	22.1	23.1	VEHICLE ACQUISITION		
Manufacturing	4.7	5.7	New	44.3	43.0
Wholesale and retail trade	12.0	13.5	Used	52.1	45.5
For-hire transportation or warehousing	16.7	18.0	Not reported ⁴	3.6	11.4
Utilities and all services	16.0	16.2	TRUCK TYPE		
Personal transportation	V	2.9	Single-unit trucks ⁵	70.1	71.9
Other, not reported, and not applicable	15.2	8.0	2 axles	61.1	63.2
BODY TYPE			3 axles or more	8.9	8.7
Flatbed, stake, platform, and low boy	21.4	23.7	Trailer/axles not specified .....	.1	N
Van ²	30.0	21.7	Combinations	29.9	28.1
Service, utility	3.0	1.7	3 axles	1.9	1.9
Van, step, walk-in, or multistop	7.8	17.2	4 axles	4.6	5.3
Dump	21.7	14.2	5 axles or more	21.1	20.9
Tank for liquids, gases, or dry bulk	4.1	4.2	Trailer/axles not specified	2.3	V
Other and not applicable	12.0	17.3	RANGE OF OPERATION		
VEHICLE SIZE			50 miles or less	57.9	54.9
Light	19.0	25.5	51 to 200 miles	17.9	27.0
Medium	20.9	21.2	201 miles or more	10.3	14.1
Light-heavy	15.4	12.7	Off-the-road, not reported, and not applicable	13.9	4.0
Heavy-heavy	44.6	40.5	FUEL TYPE		
ANNUAL MILES			Gasoline	33.9	42.9
Less than 5,000 ³	28.1	22.8	All other fuels	63.9	56.2
5,000 to 9,999	13.7	15.1	Other, not reported, and not applicable	2.2	.9
10,000 to 19,999	20.0	22.8			
20,000 to 29,999	10.9	11.4			
30,000 or more	27.3	27.8			

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

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

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

³Includes vehicles not in use.

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

⁵Excludes truck-tractors not in use.

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

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
Total	3 499.3	2 985.1	17.2	45 649.0	41 899.5	8.9	13.0	14.0	-7.1
BUSINESS¹									
For-hire transportation or warehousing	58.1	44.9	29.4	2 850.1	2 821.1	1.0	49.1	62.8	-21.9
Vehicle leasing or rental	16.8	30.8	-45.5	1 013.6	741.8	36.7	60.4	24.1	150.8
Agriculture, forestry, fishing, or hunting	67.1	97.8	-31.4	645.7	1 153.7	-44.0	9.6	11.8	-18.4
Mining	2.5	S	S	59.6	S	S	23.6	S	S
Utilities	28.4	27.3	3.9	467.9	484.8	-3.5	16.5	17.8	-7.2
Construction	202.4	268.8	-24.7	3 259.4	4 342.1	-24.9	16.1	16.2	-3
Manufacturing	26.1	37.3	-30.0	490.8	784.4	-37.4	18.8	21.1	-10.7
Wholesale trade	42.0	54.3	-22.7	790.0	1 394.4	-43.3	18.8	25.7	-26.7
Retail trade	51.0	63.3	-19.4	607.4	1 341.2	-54.7	11.9	21.2	-43.8
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	19.6	N	N	297.5	N	N	15.2	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	S	N	N	S	N	N	S	N	N
Other services	48.0	N	N	902.5	N	N	18.8	N	N
Personal transportation	2 802.7	2 176.7	28.8	32 894.1	25 650.9	28.2	11.7	11.8	-4
Not reported	45.3	V	N	624.4	V	N	13.8	V	N
Not applicable ²	47.6	22.9	107.8	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks	3 435.1	2 924.5	17.5	41 845.8	38 073.4	9.9	12.2	13.0	-6.4
Pickup	1 431.7	1 362.5	5.1	16 581.4	15 693.8	5.7	11.6	11.5	.6
Minivan	610.3	530.1	15.1	8 365.2	7 929.9	5.5	13.7	15.0	-8.4
Other light vans	310.0	365.8	-15.3	2 646.8	4 294.5	-38.4	8.5	11.7	-27.3
Sport utility	881.7	476.9	84.9	11 253.3	7 336.5	53.4	12.8	15.4	-17.0
Armored	V	N	N	V	N	N	V	N	N
Beverage	1.6	S	S	20.0	S	S	12.7	S	S
Concrete mixer	2.8	2.6	4.8	38.2	34.3	11.2	13.8	13.0	6.1
Concrete pumper	V	N	N	V	N	N	V	N	N
Crane .....	.8	3.2	-75.8	S	37.9	S	S	12.0	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	51.1	30.3	68.7	430.0	381.0	12.9	8.4	12.6	-33.1
Flatbed, stake, or platform	41.5	42.6	-2.7	389.7	523.5	-25.6	9.4	12.3	-23.5
Low boy	V	S	S	V	S	S	V	S	S
Pole, logging, pulpwood, or pipe	S	.5	S	S	S	S	S	S	S
Service, utility	8.0	4.1	94.3	96.5	35.4	172.8	12.0	8.6	40.4
Service, other	12.0	10.6	12.6	154.8	141.5	9.4	12.9	13.3	-2.8
Street sweeper .....	.8	N	N	S	N	N	S	N	N
Tank, dry bulk .....	.6	.4	40.3	6.1	S	S	10.7	S	S
Tank, liquids or gases	5.1	5.5	-8.6	41.4	97.9	-57.7	8.2	17.7	-53.7
Tow/Wrecker	6.2	6.8	-9.2	57.2	104.5	-45.3	9.3	15.4	-39.7
Trash, garbage, or recycling	4.2	3.0	43.0	96.0	88.4	8.6	22.7	29.9	-24.1
Vacuum .....	.6	N	N	S	N	N	S	N	N
Van, basic enclosed	32.5	19.6	66.0	1 053.2	460.8	128.6	32.4	23.6	37.7
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	3.3	3.0	9.0	94.5	92.7	1.9	29.0	31.1	-6.5
Van, open top	4.7	8.3	-43.7	S	17.7	S	S	2.1	S
Van, step, walk-in, or multistop	20.8	43.0	-51.6	369.8	694.4	-46.7	17.8	16.1	10.1
Van, other	4.6	N	N	94.3	N	N	20.3	N	N
Other	V	N	N	V	N	N	V	N	N
Truck-tractors	64.2	60.6	6.0	3 803.2	3 826.1	-6	59.2	63.2	-6.3
Automobile carrier	S	S	S	S	S	S	S	S	S
Beverage	1.5	1.8	-19.0	21.6	38.7	-44.2	14.6	21.1	-31.1
Curtainside	S	N	N	S	N	N	S	N	N
Dump	6.6	5.3	23.5	256.5	328.4	-21.9	39.0	61.7	-36.7
Flatbed, stake, or platform	12.8	12.3	3.8	661.7	799.4	-17.2	51.6	64.7	-20.2
Livestock	S	S	S	S	S	S	S	S	S
Low boy	2.5	3.2	-22.6	75.0	79.5	-5.7	30.1	24.7	21.8
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	2.2	1.8	18.9	46.4	24.2	91.6	21.5	13.4	61.1
Pole, logging, pulpwood, or pipe	S	.4	S	S	S	S	S	S	S
Tank, dry bulk	1.8	1.2	50.3	100.8	94.3	6.9	55.6	78.2	-28.9
Tank, liquids or gases	3.4	3.3	2.3	213.6	241.4	-11.5	63.0	72.8	-13.5
Van, basic enclosed	25.7	23.0	11.8	1 834.0	1 680.6	9.1	71.4	73.2	-2.4
Van, drop-frame .....	.6	.6	-5.6	S	19.2	S	S	31.9	S
Van, insulated nonrefrigerated	S	.6	S	S	36.1	S	S	59.9	S
Van, insulated refrigerated	5.7	5.4	4.3	473.0	404.9	16.8	83.7	74.7	12.0
Other	V	N	N	V	N	N	V	N	N
Not applicable ³	S	N	N	V	N	N	S	N	N
ANNUAL MILES									
Less than 5,000	621.5	506.0	22.8	1 377.1	1 070.0	28.7	2.2	2.1	4.8
5,000 to 9,999	722.0	507.4	42.3	5 174.9	3 536.5	46.3	7.2	7.0	2.8
10,000 to 19,999	1 568.9	1 338.9	17.2	21 025.5	17 942.1	17.2	13.4	13.4	V
20,000 to 29,999	337.2	379.3	-11.1	7 545.3	8 451.5	-10.7	22.4	22.3	.4
30,000 to 49,999	132.6	187.6	-29.3	4 609.5	6 736.7	-31.6	34.8	35.9	-3.2
50,000 to 74,999	30.7	20.7	48.1	1 909.0	1 211.6	57.6	62.2	58.5	6.4
75,000 or more	38.8	28.7	35.4	3 969.5	2 951.0	34.5	102.2	102.9	-6
Not applicable ²	47.6	16.5	189.1	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	14.1	98.7	-85.7	S	801.8	S	S	8.1	S
50 miles or less	2 508.4	2 253.8	11.3	28 560.6	27 923.9	2.3	11.4	12.4	-8.1
51 to 100 miles	322.5	365.1	-11.7	5 664.0	6 263.2	-9.6	17.6	17.2	2.4
101 to 200 miles	80.1	79.3	1.0	1 618.4	2 017.9	-19.8	20.2	25.4	-20.6
201 to 500 miles	38.1	87.1	-56.3	1 686.3	2 865.9	-41.2	44.3	32.9	34.5
501 miles or more	78.0	84.5	-7.7	1 772.2	2 026.8	-12.6	22.7	24.0	-5.2
Not reported	410.4	16.5	2 395.0	6 136.6	V	N	15.0	V	N
Not applicable ²	47.6	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	S	N	N	S	N	N	S	N	N
Operated in Mexico	V	N	N	V	N	N	V	N	N
Operated within the home base state	3 042.3	N	N	38 652.2	N	N	12.7	N	N
Operated in states other than the home base state	88.9	N	N	2 442.1	N	N	27.5	N	N
Not reported	320.1	N	N	4 486.8	N	N	14.0	N	N
Not applicable ²	47.6	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	2 320.8	N	N	34 267.5	N	N	14.8	N	N
7 to 11	548.3	N	N	6 726.5	N	N	12.3	N	N
2 to 6	510.8	N	N	4 495.8	N	N	8.8	N	N
1 or less	71.8	N	N	119.2	N	N	1.7	N	N
Vehicle not used	47.6	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	3 276.5	2 780.6	17.8	39 758.0	35 642.1	11.5	12.1	12.8	-5.3
Medium	63.3	71.5	-11.5	718.5	1 142.1	-37.1	11.4	16.0	-28.9
Light-heavy	41.0	31.7	29.2	563.1	544.2	3.5	13.7	17.2	-19.9
Heavy-heavy	118.5	101.2	17.0	4 609.4	4 571.1	.8	38.9	45.2	-13.8
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2 566.6	2 573.7	-.3	30 346.4	32 735.3	-7.3	11.8	12.7	-7.0
6,001 to 8,500	570.3	N	N	7 273.8	N	N	12.8	N	N
8,501 to 10,000	139.6	N	N	2 137.9	N	N	15.3	N	N
10,001 to 14,000	41.3	40.0	3.3	461.7	587.5	-21.4	11.2	14.7	-23.9
14,001 to 16,000	12.9	14.4	-10.8	147.4	205.9	-28.4	11.4	14.3	-19.8
16,001 to 19,500	9.1	17.1	-46.6	109.4	348.7	-68.6	12.0	20.4	-41.2
19,501 to 26,000	41.0	31.7	29.2	563.1	544.2	3.5	13.7	17.2	-19.9
26,001 to 33,000	23.4	13.5	73.1	280.3	223.8	25.2	12.0	16.5	-27.6
33,001 to 40,000	10.3	10.8	-4.8	218.2	229.6	-5.0	21.2	21.2	-.2
40,001 to 50,000	11.5	15.8	-27.6	190.6	496.9	-61.6	16.6	31.4	-47.0
50,001 to 60,000	15.0	14.4	4.4	527.5	535.5	-1.5	35.1	37.2	-5.6
60,001 to 80,000	56.9	46.0	23.5	3 344.9	3 039.6	10.0	58.8	66.0	-10.9
80,001 to 100,000 .....	.7	S	S	12.6	S	S	18.5	S	S
100,001 to 130,000 .....	.7	S	S	35.3	S	S	52.4	S	S
130,001 or more	V	V	N	V	V	N	V	V	N
TOTAL LENGTH (FEET)									
Less than 20.0	3 037.2	2 735.7	11.0	36 462.2	35 489.6	2.7	12.0	13.0	-7.5
20.0 to 27.9	323.3	109.9	194.1	4 428.9	1 443.0	206.9	13.7	13.1	4.4
28.0 to 35.9	37.0	66.2	-44.1	552.4	930.5	-40.6	14.9	14.1	6.2
36.0 to 40.9	22.3	6.8	228.9	338.5	97.5	247.2	15.2	14.4	5.6
41.0 to 44.9	9.2	2.7	246.2	203.5	50.4	303.6	22.0	18.9	16.6
45.0 to 49.9	6.3	1.8	241.0	288.5	24.3	1 088.0	45.8	13.2	248.4
50.0 to 54.9	S	10.5	S	205.2	405.7	-49.4	S	38.6	S
55.0 to 59.9	9.9	15.6	-36.2	366.6	940.0	-61.0	36.9	60.3	-38.9
60.0 to 64.9	17.7	19.6	-9.8	1 095.1	1 332.7	-17.8	61.9	68.0	-8.9
65.0 to 69.9	14.6	10.4	41.3	1 065.1	732.2	45.3	72.8	70.8	2.8
70.0 to 74.9	6.2	4.0	55.2	457.1	311.3	46.9	73.2	77.4	-5.4
75.0 to 79.9	1.9	N	N	173.5	N	N	90.4	N	N
80.0 or more	S	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	24.6	23.0	6.8	486.0	613.2	-20.8	19.8	26.6	-25.8
5 to 6.9	82.1	82.0	.1	2 986.6	3 250.5	-8.1	36.4	39.6	-8.2
7 to 8.9	43.4	79.2	-45.2	638.9	1 342.8	-52.4	14.7	17.0	-13.1
9 to 10.9	194.9	188.3	3.5	2 084.7	2 304.2	-9.5	10.7	12.2	-12.6
11 to 12.9	248.5	298.0	-16.6	2 618.4	3 403.8	-23.1	10.5	11.4	-7.7
13 to 14.9	282.5	310.6	-9.0	3 724.8	4 002.3	-6.9	13.2	12.9	2.3
15 or more	1 988.3	1 988.5	V	25 212.1	26 787.5	-5.9	12.7	13.5	-5.9
15 to 20.9	1 579.6	1 531.7	3.1	19 462.3	20 763.8	-6.3	12.3	13.6	-9.1
21 to 24.9	272.1	371.6	-26.8	4 119.9	5 002.1	-17.6	15.1	13.5	12.5
25 or more	136.7	85.3	60.3	1 629.9	1 021.7	59.5	11.9	12.0	-5
Not reported	587.5	15.5	3 686.4	7 859.5	195.2	3 926.8	13.4	12.6	6.4
Not applicable ²	47.6	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	S	N	N	S	N	N	S	N	N
2002	189.9	N	N	2 209.9	N	N	11.6	N	N
2001	312.2	N	N	5 316.9	N	N	17.0	N	N
2000	273.9	N	N	4 773.2	N	N	17.4	N	N
1999	270.8	N	N	4 872.2	N	N	18.0	N	N
1998	300.5	S	S	4 395.7	S	S	14.6	S	S
1997	248.7	260.1	-4.4	3 428.0	4 211.8	-18.6	13.8	16.2	-14.9
1996	168.8	251.2	-32.8	3 048.6	4 961.2	-38.6	18.1	19.8	-8.6
1995	258.0	312.0	-17.3	3 477.2	5 982.3	-41.9	13.5	19.2	-29.7
1994	193.9	230.1	-15.7	2 870.3	3 949.6	-27.3	14.8	17.2	-13.7
1993	181.1	188.0	-3.7	2 189.3	3 302.5	-33.7	12.1	17.6	-31.2
Pre-1993	1 101.1	1 733.1	-36.5	9 031.7	19 265.5	-53.1	8.2	11.1	-26.2
VEHICLE ACQUISITION									
New	1 396.4	1 142.7	22.2	20 510.4	17 652.5	16.2	14.7	15.4	-4.9
Used	1 949.2	1 458.3	33.7	23 235.9	17 403.3	33.5	11.9	11.9	-1
Not reported	153.8	384.0	-60.0	1 902.7	6 843.7	-72.2	12.4	17.8	-30.6
LEASE CHARACTERISTICS									
Leased	242.4	N	N	4 802.4	N	N	19.8	N	N
Lessee	207.2	N	N	3 507.6	N	N	16.9	N	N
Vehicle only	15.9	N	N	752.4	N	N	47.4	N	N
Vehicle with driver	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁴	190.8	N	N	2 745.7	N	N	14.4	N	N
Lessor	20.3	N	N	1 160.3	N	N	57.2	N	N
Vehicle only	17.2	N	N	916.8	N	N	53.2	N	N
Vehicle with driver	2.9	N	N	240.2	N	N	81.9	N	N
Not reported	S	N	N	S	N	N	S	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	1 895.8	N	N	24 659.1	N	N	13.0	N	N
Not reported	1 361.1	N	N	16 187.5	N	N	11.9	N	N
Length of leasing agreement:									
Leased	242.4	N	N	4 802.4	N	N	19.8	N	N
1 to 11 months	2.7	N	N	145.6	N	N	53.3	N	N
12 months or more	34.1	N	N	1 804.1	N	N	52.9	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁴	204.7	N	N	2 830.2	N	N	13.8	N	N
Provisions of lease ⁵ :									
Financing only	22.2	N	N	1 131.1	N	N	50.9	N	N
Full maintenance	16.3	N	N	985.1	N	N	60.5	N	N
Payment of taxes	17.4	N	N	1 052.0	N	N	60.3	N	N
Obtaining licenses and permits	18.4	N	N	1 063.3	N	N	57.7	N	N
Recordkeeping	10.9	N	N	610.3	N	N	56.0	N	N
Fuel contract	6.9	N	N	403.4	N	N	58.5	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	564.2	N	N	8 301.3	N	N	14.7	N	N
Motor carrier	38.1	N	N	2 129.1	N	N	55.8	N	N
Owner operator	28.9	N	N	1 254.7	N	N	43.4	N	N
Rental	17.9	N	N	1 031.7	N	N	57.8	N	N
Personal transportation	2 802.7	N	N	32 894.1	N	N	11.7	N	N
Not applicable ²	47.6	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	31.3	N	N	1 972.3	N	N	63.0	N	N
Common	21.4	N	N	1 101.0	N	N	51.4	N	N
Not reported	7.5	N	N	218.6	N	N	29.0	N	N
Not applicable ⁶	3 439.1	N	N	42 357.1	N	N	12.3	N	N
Type of service:									
Truckload	41.5	32.3	28.3	2 635.1	2 305.5	14.3	63.5	71.3	-10.9
Less-than truckload	11.8	11.2	5.9	457.7	405.1	13.0	38.7	36.3	6.6
Not reported	6.9	N	N	199.1	N	N	28.8	N	N
Not applicable ⁶	3 439.1	N	N	42 357.1	N	N	12.3	N	N
Source of hauls:									
Shippers or receivers	38.4	N	N	2 380.6	N	N	62.0	N	N
Brokers	7.0	N	N	437.2	N	N	62.4	N	N
Centralized markets or exchanges	2.0	N	N	72.5	N	N	36.7	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	12.9	N	N	401.5	N	N	31.2	N	N
Not applicable ⁶	3 439.1	N	N	42 357.1	N	N	12.3	N	N
HAZARDOUS MATERIALS CARRIED⁷									
Carrying hazardous materials	11.3	11.4	-1.0	646.0	656.4	-1.6	57.1	57.4	-6
Not carrying hazardous materials	204.6	204.7	V	4 535.3	5 225.1	-13.2	22.2	25.5	-13.2
Not reported	26.3	79.4	-66.9	586.0	1 282.7	-54.3	22.3	16.2	38.2
Not applicable ⁸	3 257.2	N	N	39 881.6	N	N	12.2	N	N
EQUIPMENT TYPE^{5 9}									
Aerial work platform/bucket	S	N	N	27.8	N	N	S	N	N
Air bag(s) (safety device only)	1 907.3	929.7	105.1	28 236.2	15 661.0	80.3	14.8	16.8	-12.1
Air compressor (except air brakes)	16.5	N	N	678.0	N	N	41.1	N	N
Air-conditioning	2 699.6	1 986.7	35.9	39 024.2	31 211.8	25.0	14.5	15.7	-8.0
Air springs	33.3	N	N	2 043.1	N	N	61.4	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 (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE^{5 9}—Con.									
Antilock brake system	2 017.5	1 281.3	57.5	30 226.9	20 649.0	46.4	15.0	16.1	-7.0
Collision warning system	3.1	N	N	127.8	N	N	40.8	N	N
Computerized drive train control unit	462.5	N	N	6 346.2	N	N	13.7	N	N
Crane	5.2	N	N	54.9	N	N	10.5	N	N
Electronic vehicle identification device	3.0	5.1	-42.3	266.0	399.4	-33.4	89.6	77.6	15.5
Engine retarder/brake	43.6	35.5	22.9	2 558.1	2 111.5	21.2	58.6	59.4	-1.4
Front-wheel drive	1 316.8	639.5	105.9	17 348.5	8 998.9	92.8	13.2	14.1	-6.4
Hoist	41.5	N	N	363.5	N	N	8.8	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	5.9	N	N	299.5	N	N	51.0	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	13.5	N	N	278.7	N	N	20.7	N	N
Mounting bar for snowplow	39.1	N	N	S	N	N	S	N	N
Navigational system	S	1.1	S	S	75.6	S	S	68.4	S
Power take-off	66.6	N	N	1 128.8	N	N	16.9	N	N
Radial tires	2 280.8	2 476.8	-7.9	30 870.5	35 921.9	-14.1	13.5	14.5	-6.7
Reflective material in addition to those required by law	36.7	55.4	-33.8	987.2	2 152.0	-54.1	26.9	38.8	-30.7
Road speed governor	54.9	62.9	-12.8	2 490.3	2 708.7	-8.1	45.4	43.0	5.4
Toolbox	215.8	N	N	3 854.5	N	N	17.9	N	N
Trip recorder or on-board computer with communication capabilities	124.4	N	N	2 509.5	N	N	20.2	N	N
Trip recorder or on-board computer without communication capabilities	593.2	N	N	8 232.5	N	N	13.9	N	N
Vehicle control aids for handicapped drivers	V	S	S	V	S	S	V	S	S
Wheelchair lift	S	S	S	S	S	S	S	S	S
Winch	30.3	N	N	S	N	N	S	N	N
Transmission type:									
Automatic	2 686.7	N	N	33 264.5	N	N	12.4	N	N
Manual	719.8	N	N	11 100.9	N	N	15.4	N	N
Semiautomated manual	2.8	N	N	140.2	N	N	49.8	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	76.3	N	N	1 007.6	N	N	13.2	N	N
Braking system:									
Hydraulic (standard)	90.1	58.0	55.4	1 514.6	726.3	108.5	16.8	12.5	34.2
Hydraulic with power assist	54.2	76.1	-28.8	588.1	1 094.6	-46.3	10.9	14.4	-24.5
Air	108.4	104.5	3.8	4 257.5	4 597.1	-7.4	39.3	44.0	-10.7
Other	V	4.0	N	V	47.0	N	V	11.7	N
Not reported	12.9	N	N	442.1	N	N	34.2	N	N
Not applicable ¹⁰	3 233.7	N	N	38 846.7	N	N	12.0	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	3 197.1	2 790.5	14.6	38 645.9	35 356.6	9.3	12.1	12.7	-4.6
Diesel	231.5	188.2	23.0	6 603.8	6 490.3	1.7	28.5	34.5	-17.3
Natural gas	V	N	N	V	N	N	V	N	N
Propane	1.2	N	N	S	N	N	S	N	N
Alcohol fuels	V	N	N	V	N	N	V	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	1.0	N	N	9.2	N	N	8.9	N	N
Not applicable ²	47.6	N	N	S	N	N	S	N	N
Cylinders¹¹:									
4 cylinders	462.7	411.3	12.5	5 450.6	4 889.4	11.5	11.8	11.9	-9
6 cylinders	1 796.4	1 460.9	23.0	26 843.5	24 200.4	10.9	14.9	16.6	-9.8
8 cylinders	1 164.3	1 025.0	13.6	12 668.5	11 804.9	7.3	10.9	11.5	-5.5
Other	75.9	87.9	-13.6	686.3	1 004.8	-31.7	9.0	11.4	-20.9
Cubic inch displacement¹¹:									
Gasoline fuel	3 197.1	2 790.5	14.6	38 645.9	35 356.6	9.3	12.1	12.7	-4.6
Less than 200	803.5	805.9	-3	10 327.7	10 158.2	1.7	12.9	12.6	2.0
200 to 299	1 287.1	776.3	65.8	17 292.1	11 888.4	45.5	13.4	15.3	-12.3
300 to 349	530.1	545.0	-2.7	5 783.5	6 334.0	-8.7	10.9	11.6	-6.1
350 to 399	449.7	488.7	-8.0	4 148.8	5 285.8	-21.5	9.2	10.8	-14.7
400 or more	83.8	86.6	-3.3	833.4	952.2	-12.5	9.9	11.0	-9.5
Not available	42.8	87.9	-51.3	260.4	738.1	-64.7	6.1	8.4	-27.6
Diesel fuel	231.5	188.2	23.0	6 603.8	6 490.3	1.7	28.5	34.5	-17.3
Less than 400	50.3	51.6	-2.6	784.9	976.8	-19.7	15.6	18.9	-17.5
400 to 599	93.3	51.8	79.9	1 600.7	1 200.7	33.3	17.2	23.2	-25.9
600 to 799	37.2	33.5	11.0	1 777.2	1 733.5	2.5	47.8	51.8	-7.6
800 or more	32.8	30.6	7.3	1 869.0	1 933.0	-3.3	57.0	63.3	-9.9
Not available	18.0	20.8	-13.3	572.0	646.3	-11.5	31.8	31.1	2.1
Other fuel	S	2.1	S	S	S	S	S	S	S
Less than 400	S	S	S	S	S	S	S	S	S
400 or more	S	S	S	S	S	S	S	S	S
Not available	S	4	S	S	S	S	S	S	S
Not reported	1.0	N	N	9.2	N	N	8.9	N	N
Not applicable ²	47.6	N	N	S	N	N	S	N	N
REFUELING LOCATION									
Gas station	3 128.0	N	N	38 366.9	N	N	12.3	N	N
Truck stop	78.9	N	N	3 426.0	N	N	43.4	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	101.0	N	N	2 199.5	N	N	21.8	N	N
Other company's/contractor's facility not open to the public	S	N	N	299.3	N	N	S	N	N
Other	S	N	N	S	N	N	S	N	N
Not reported	124.7	N	N	1 319.1	N	N	10.6	N	N
Not applicable ²	47.6	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁵									
General maintenance performed by:									
None performed	100.8	23.6	327.4	623.9	242.4	157.4	6.2	10.3	-39.8
Company-owned maintenance facility	312.3	176.7	76.7	6 141.6	4 338.2	41.6	19.7	24.5	-19.9
General repair business or private mechanic	1 334.4	1 038.5	28.5	19 076.9	15 737.3	21.2	14.3	15.2	-5.7
Dealership service department	773.2	655.2	18.0	10 598.5	9 108.2	16.4	13.7	13.9	-1.4
Leasing company	3.2	16.8	-80.7	144.9	504.0	-71.2	44.7	30.0	48.8
Individual not employed/paid by any maintenance type facility	1 458.4	1 478.5	-1.4	16 768.6	18 704.8	-10.4	11.5	12.7	-9.1
Other	V	29.0	N	V	578.7	N	V	19.9	N
Not reported	109.4	112.9	-3.1	1 145.2	1 613.7	-29.0	10.5	14.3	-26.8
Not applicable ²	47.6	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	2 728.2	156.4	1 644.1	35 132.4	1 853.2	1 795.7	12.9	11.8	8.7
Company-owned maintenance facility	62.5	91.2	-31.5	824.1	2 078.6	-60.4	13.2	22.8	-42.1
General repair business or private mechanic	191.1	442.0	-56.8	3 289.4	6 976.2	-52.8	17.2	15.8	9.1
Dealership service department	163.3	414.9	-60.6	2 550.8	7 195.7	-64.6	15.6	17.3	-10.0
Leasing company	S	S	S	S	166.8	S	S	S	S
Component distributorship (engine, transmission, body, etc.)	S	52.0	S	266.3	1 173.4	-77.3	S	22.6	S
Individual not employed/paid by any repair type facility	201.7	299.1	-32.6	2 145.9	2 830.4	-24.2	10.6	9.5	12.4
Other	V	S	S	V	S	S	V	S	S
Not reported	27.4	1 613.5	-98.3	S	21 526.6	S	S	13.3	S
Not applicable ²	47.6	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer	3 391.9	2 877.4	17.9	41 491.1	37 599.2	10.4	12.2	13.1	-6.4
2 axles	3 367.2	2 855.7	17.9	41 002.5	37 108.6	10.5	12.2	13.0	-6.3
3 axles	15.7	13.7	14.4	241.9	248.7	-2.7	15.4	18.1	-15.0
4 axles	4.0	8.0	-49.8	107.6	241.9	-55.5	26.7	30.1	-11.4
5 axles or more	4.4	N	N	133.1	N	N	30.4	N	N
Not reported .....	.7	V	N	6.1	V	N	8.8	V	N
Combinations	107.4	107.7	-3	4 157.8	4 300.3	-3.3	38.7	39.9	-3.0
Single-unit trucks with trailer	43.5	47.1	-7.8	354.6	474.2	-25.2	8.2	10.1	-18.9
3 axles	S	S	S	S	S	S	S	S	S
4 axles	24.5	37.3	-34.4	174.3	339.7	-48.7	7.1	9.1	-21.8
5 axles or more	S	3.7	S	12.3	66.1	-81.5	S	18.0	S
Not reported	S	N	N	S	N	N	S	N	N
Truck-tractors with single trailer	63.4	59.5	6.5	3 784.8	3 789.6	-1	59.7	63.6	-6.2
3 axles	2.5	3.1	-21.6	48.6	70.4	-31.0	19.7	22.4	-12.0
4 axles	2.0	8.5	-76.5	61.9	439.8	-85.9	31.0	51.7	-40.2
5 axles or more	53.6	47.9	11.9	3 349.7	3 279.4	2.1	62.5	68.5	-8.7
Not reported	5.4	N	N	324.7	N	N	60.6	N	N
Truck-tractors with double trailers .....	.5	1.0	-55.1	S	36.5	S	S	35.9	S
5 axles	V	S	S	S	S	S	V	S	S
6 axles	S	V	S	S	V	S	S	V	S
7 axles	V	S	S	S	S	S	V	S	S
8 axles or more	S	S	S	S	S	S	S	S	S
Not reported	V	N	N	V	N	N	V	N	N
Truck-tractors with triple trailers	V	V	N	V	V	N	V	V	N
7 axles	V	V	N	V	V	N	V	V	N
8 axles	V	V	N	V	V	N	V	V	N
9 axles	V	V	N	V	V	N	V	V	N
10 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	V	N	V	N	N
Driving axles:									
1	2 093.3	2 124.3	-1.5	24 143.3	27 063.4	-10.8	11.5	12.7	-9.5
2	1 404.1	857.7	63.7	21 483.5	14 641.2	46.7	15.3	17.1	-10.4
3 or more	1.2	3.1	-63.3	15.6	194.9	-92.0	13.5	62.1	-78.2
Not reported .....	.8	V	N	6.6	V	N	8.1	V	N
Total liftable axles and locations ¹² :									
None	254.7	95.7	166.1	6 516.6	2 607.0	150.0	25.6	27.2	-6.1
1	6.1	6.1	-9	145.8	125.9	15.8	24.1	20.6	16.9
Forward of the drive axle	3.8	N	N	104.4	N	N	27.4	N	N
Below the chassis	1.2	N	N	21.4	N	N	17.4	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported .....	.8	N	N	18.1	N	N	22.6	N	N
2 or more	4.3	2.7	55.3	132.4	95.2	39.1	31.1	34.7	-10.4
Forward of the drive axle	2.4	N	N	60.0	N	N	24.8	N	N
Below the chassis	1.0	N	N	34.6	N	N	33.3	N	N
Beyond the chassis .....	.9	N	N	20.9	N	N	22.7	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported .....	.6	N	N	S	N	N	S	N	N
Not applicable ¹⁰	3 233.7	N	N	38 846.7	N	N	12.0	N	N
Total liftable axles and number of braking axles:									
None	254.7	95.7	166.1	6 516.6	2 607.0	150.0	25.6	27.2	-6.1
1	6.1	6.1	-9	145.8	125.9	15.8	24.1	20.6	16.9
0 braking	1.2	N	N	S	N	N	S	N	N
1 braking	4.7	N	N	129.4	N	N	27.4	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	4.3	2.7	55.3	132.4	95.2	39.1	31.1	34.7	-10.4
0 braking	V	N	N	V	N	N	V	N	N
1 braking	V	N	N	V	N	N	V	N	N
2 or more braking	4.3	N	N	132.4	N	N	31.1	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported .....	.6	N	N	S	N	N	S	N	N
Not applicable ¹⁰	3 233.7	N	N	38 846.7	N	N	12.0	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	242.6	200.1	21.2	6 321.5	5 609.2	12.7	26.1	28.0	-7.0
With sleeper	33.0	N	N	2 534.9	N	N	76.9	N	N
Without sleeper	207.9	N	N	3 667.9	N	N	17.6	N	N
Not reported	1.7	N	N	118.7	N	N	70.1	N	N
Cab over engine	22.3	27.1	-17.7	472.9	598.2	-21.0	21.2	22.0	-3.9
With sleeper	3.5	N	N	119.2	N	N	33.8	N	N
Without sleeper	18.5	N	N	322.5	N	N	17.4	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine .....	.7	8.5	-91.9	S	190.0	S	S	22.3	S
Cab beside engine	V	S	S	V	S	S	V	S	S
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ¹⁰	3 233.7	N	N	38 846.7	N	N	12.0	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 .....	.6	.6	1.1	3.3	2.4	4.5	3.2	2.4	3.7
BUSINESS									
For-hire transportation or warehousing	17.1	5.5	23.2	6.4	5.2	8.3	14.2	3.8	11.5
Vehicle leasing or rental	41.2	26.6	26.7	44.3	26.9	70.8	5.7	7.0	22.8
Agriculture, forestry, fishing, or hunting	23.0	17.8	19.9	30.2	22.4	21.1	15.8	13.0	16.7
Mining	26.9	S	S	32.3	S	S	26.4	S	S
Utilities	41.8	34.3	56.3	49.0	49.5	67.2	23.9	27.3	33.7
Construction	15.0	11.2	14.1	19.6	13.3	17.8	10.6	6.6	12.4
Manufacturing	37.4	28.0	32.7	30.9	26.5	25.5	18.6	16.0	21.9
Wholesale trade	32.4	24.1	31.2	31.5	26.1	23.2	10.8	13.6	12.7
Retail trade	30.0	23.1	30.5	28.1	25.5	17.2	13.9	16.0	11.9
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	10.9	N	N	13.1	N	N	10.5	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	S	N	N	S	N	N	S	N	N
Other services	34.7	N	N	38.9	N	N	15.2	N	N
Personal transportation	1.9	2.2	3.8	4.4	3.6	7.3	4.0	2.9	4.9
Not reported	30.3	N	N	22.1	N	N	19.5	N	N
Not applicable ¹	34.9	40.8	111.6	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks .....	.7	6	1.1	3.6	2.7	4.9	3.5	2.6	4.1
Pickup	1.0	1.1	1.6	4.8	4.5	7.0	4.7	4.3	6.5
Minivan	8.6	7.3	13.0	12.1	8.8	15.8	8.5	4.9	9.0
Other light vans	13.4	9.5	14.0	18.6	13.1	14.0	12.9	9.0	11.4
Sport utility	6.4	7.9	18.8	10.0	9.8	21.4	7.7	5.7	7.9
Armored	N	N	N	N	N	N	N	N	N
Beverage	40.8	S	S	48.1	S	S	32.9	S	S
Concrete mixer	19.9	19.2	29.0	22.3	21.5	34.4	10.1	9.6	14.7
Concrete pumper	N	N	N	N	N	N	N	N	N
Crane	49.8	28.7	13.9	S	31.3	S	S	29.7	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	6.3	9.5	19.3	9.5	10.7	16.2	8.0	9.3	8.2
Flatbed, stake, or platform	7.3	8.3	10.8	11.0	13.9	13.2	8.8	11.1	10.8
Low boy	N	S	S	N	S	S	N	S	S
Pole, logging, pulpwood, or pipe	S	44.4	S	S	S	S	S	S	S
Service, utility	18.9	30.1	69.1	23.5	32.2	108.9	13.9	14.5	28.2
Service, other	15.1	18.7	27.1	19.0	21.5	31.4	11.7	10.4	15.2
Street sweeper	49.8	N	N	S	N	N	S	N	N
Tank, dry bulk	44.5	49.6	93.5	48.3	S	S	18.6	S	S
Tank, liquids or gases	22.2	22.6	28.9	27.6	25.6	15.9	17.6	15.8	11.0
Tow/Wrecker	20.5	22.9	27.9	31.8	32.0	24.7	24.9	22.0	20.0
Trash, garbage, or recycling	19.8	21.9	42.2	20.8	25.5	35.7	10.8	16.5	15.0
Vacuum	44.4	N	N	S	N	N	S	N	N
Van, basic enclosed	22.2	12.9	42.6	42.7	18.7	106.6	21.9	13.5	35.4
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	28.0	34.5	48.4	33.6	39.6	53.0	19.3	22.4	27.6
Van, open top	24.1	19.3	17.4	S	39.1	S	S	34.3	S
Van, step, walk-in, or multistop	11.2	8.6	6.8	14.4	10.8	9.6	9.4	6.6	12.6
Van, other	24.8	N	N	38.0	N	N	29.9	N	N
Other	N	N	N	N	N	N	N	N	N
Truck-tractors	2.6	2.8	4.0	3.7	3.5	5.1	3.1	3.1	4.1
Automobile carrier	S	S	S	S	S	S	S	S	S
Beverage	39.5	36.2	43.4	40.6	36.8	30.6	17.1	14.3	15.4
Curtainside	S	N	N	S	N	N	S	N	N
Dump	12.6	13.1	22.5	16.4	15.0	17.4	10.5	7.4	8.1
Flatbed, stake, or platform	9.1	8.2	12.7	11.1	9.4	12.0	6.9	4.8	6.7
Livestock	S	S	S	S	S	S	S	S	S
Low boy	21.0	17.3	21.0	33.9	28.6	41.8	26.7	22.9	42.9
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	22.6	23.2	38.6	39.4	39.7	107.2	32.4	32.3	73.6
Pole, logging, pulpwood, or pipe	S	49.6	S	S	S	S	S	S	S
Tank, dry bulk	24.7	28.5	56.7	30.1	30.5	45.8	16.9	10.9	14.3
Tank, liquids or gases	17.8	16.9	25.1	20.5	19.9	25.3	10.3	10.5	12.7
Van, basic enclosed	5.7	7.1	10.2	6.8	7.6	11.1	4.1	5.3	6.5
Van, drop-frame	44.5	40.4	56.7	S	47.4	S	S	24.7	S
Van, insulated nonrefrigerated	S	40.5	S	S	43.8	S	S	16.4	S
Van, insulated refrigerated	13.6	13.0	19.6	15.5	15.1	25.3	7.6	7.7	12.2
Other	N	N	N	N	N	N	N	N	N
Not applicable ²	S	N	N	N	N	N	S	N	N
ANNUAL MILES									
Less than 5,000	9.0	8.2	14.9	11.1	10.2	19.4	6.2	5.9	8.9
5,000 to 9,999	8.4	8.3	16.8	8.7	8.6	17.8	2.1	2.0	3.0
10,000 to 19,999	4.7	4.2	7.4	4.9	4.3	7.7	1.3	1.1	1.7
20,000 to 29,999	12.9	9.8	14.4	13.0	9.9	14.5	1.6	1.2	2.0
30,000 to 49,999	20.2	14.2	17.5	20.1	14.3	16.9	2.6	2.3	3.4
50,000 to 74,999	31.6	23.1	57.9	31.8	21.8	60.8	1.5	1.6	2.3
75,000 or more	25.0	5.7	34.7	24.3	5.6	33.5	3.5	1.7	3.9
Not applicable ¹	34.9	48.9	173.9	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	49.2	20.2	7.6	S	30.2	S	S	21.3	S
50 miles or less	2.7	2.2	3.9	4.2	3.5	5.6	3.3	2.7	3.9
51 to 100 miles	13.1	9.9	14.5	16.1	11.3	17.8	10.9	7.0	13.3
101 to 200 miles	26.6	20.9	34.2	23.3	19.0	24.1	15.7	11.8	15.6
201 to 500 miles	35.8	19.4	17.8	30.4	15.2	20.0	19.6	9.7	29.4
501 miles or more	27.4	20.8	31.7	19.3	13.7	20.7	15.9	12.4	19.1
Not reported	11.7	48.9	1 255.1	16.9	N	N	12.9	N	N
Not applicable ¹	34.9	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	S	N	N	S	N	N	S	N	N
Operated in Mexico	N	N	N	N	N	N	N	N	N
Operated within the home base state	1.7	N	N	3.7	N	N	3.3	N	N
Operated in states other than the home base state	24.0	N	N	12.2	N	N	15.6	N	N
Not reported	13.3	N	N	20.4	N	N	16.3	N	N
Not applicable ¹	34.9	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	3.1	N	N	4.7	N	N	3.7	N	N
7 to 11	9.7	N	N	10.4	N	N	5.6	N	N
2 to 6	10.2	N	N	15.6	N	N	11.6	N	N
1 or less	26.7	N	N	43.0	N	N	30.8	N	N
Vehicle not used	34.9	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light .....	.7	.8	1.2	3.8	2.8	5.3	3.7	2.7	4.3
Medium	12.1	14.0	16.3	8.7	17.0	12.0	12.2	6.6	9.9
Light-heavy	7.5	10.1	16.3	14.1	15.6	21.8	11.9	11.8	13.4
Heavy-heavy	2.6	3.0	4.7	3.2	3.1	4.5	3.3	3.3	4.1
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2.4	1.3	2.7	5.0	3.1	5.4	4.4	2.8	4.8
6,001 to 8,500	9.8	N	N	11.7	N	N	6.3	N	N
8,501 to 10,000	19.8	N	N	28.7	N	N	19.8	N	N
10,001 to 14,000	17.9	21.4	28.8	11.5	26.6	22.8	17.9	8.5	15.1
14,001 to 16,000	14.3	15.8	19.0	18.7	24.0	21.8	13.1	18.3	18.0
16,001 to 19,500	17.2	29.2	18.1	22.8	31.1	12.1	17.2	11.6	12.2
19,501 to 26,000	7.5	10.1	16.3	14.1	15.6	21.8	11.9	11.8	13.4
26,001 to 33,000	10.3	15.0	31.5	16.7	24.3	37.0	13.0	19.6	17.0
33,001 to 40,000	14.3	14.8	19.5	20.0	18.2	25.7	17.7	15.7	23.6
40,001 to 50,000	10.7	10.2	10.7	16.9	12.4	8.0	14.0	9.9	9.1
50,001 to 60,000	9.0	9.4	13.6	12.3	13.1	17.7	9.1	9.2	12.2
60,001 to 80,000	3.1	3.3	5.6	4.1	4.1	6.4	3.2	3.2	4.0
80,001 to 100,000	40.6	S	S	47.2	S	S	24.6	S	S
100,001 to 130,000	40.4	S	S	49.6	S	S	28.8	S	S
130,001 or more	N	N	N	N	N	N	N	N	N
TOTAL LENGTH (FEET)									
Less than 20.0	1.5	.8	1.9	4.1	2.9	5.1	3.8	2.7	4.3
20.0 to 27.9	12.5	4.2	38.7	16.8	6.9	55.8	11.2	5.6	13.1
28.0 to 35.9	19.7	20.2	15.8	12.5	17.5	12.8	17.3	13.5	23.3
36.0 to 40.9	31.9	21.7	127.0	23.2	24.6	117.4	20.8	16.7	28.2
41.0 to 44.9	15.7	33.1	126.7	17.5	48.1	206.6	13.5	29.9	38.3
45.0 to 49.9	13.4	40.9	146.6	16.6	41.9	535.4	11.0	34.5	126.0
50.0 to 54.9	S	11.5	S	18.5	13.0	11.4	S	10.5	S
55.0 to 59.9	11.6	7.5	8.8	15.1	10.2	7.1	11.5	6.5	8.1
60.0 to 64.9	7.2	6.7	8.9	9.1	7.6	9.8	5.6	4.2	6.4
65.0 to 69.9	8.3	9.8	18.1	9.3	10.8	20.8	5.6	6.9	9.1
70.0 to 74.9	13.0	17.7	34.1	14.8	18.1	34.4	7.0	11.3	12.5
75.0 to 79.9	23.8	N	N	26.3	N	N	11.2	N	N
80.0 or more	S	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	8.2	8.0	12.2	11.8	9.6	12.0	10.3	8.0	9.7
5 to 6.9	12.2	9.0	15.2	4.7	4.2	5.8	12.0	8.9	13.7
7 to 8.9	17.0	15.1	12.5	11.2	11.8	7.7	17.4	11.0	17.8
9 to 10.9	16.4	13.3	21.9	19.3	16.5	23.0	11.6	11.0	14.0
11 to 12.9	15.2	11.3	15.8	19.5	15.3	19.0	12.8	10.4	15.2
13 to 14.9	14.6	11.3	16.8	24.5	14.4	26.4	19.7	9.1	22.3
15 or more	3.7	2.6	4.5	5.5	3.9	6.3	4.0	2.9	4.7
15 to 20.9	4.7	3.7	6.2	6.2	5.0	7.5	4.1	3.4	4.8
21 to 24.9	15.1	10.3	13.4	20.3	12.0	19.4	13.6	6.0	16.7
25 or more	21.8	22.7	50.5	27.7	28.2	63.0	16.9	16.7	23.7
Not reported	9.4	32.1	1 265.8	11.7	19.2	904.1	7.6	34.5	37.6
Not applicable ¹	34.9	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicle and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	S	N	N	S	N	N	S	N	N
2002	18.1	N	N	18.6	N	N	9.0	N	N
2001	13.8	N	N	13.9	N	N	5.8	N	N
2000	14.7	N	N	14.7	N	N	6.6	N	N
1999	14.6	N	N	15.6	N	N	9.3	N	N
1998	14.0	S	S	14.1	S	S	6.2	S	S
1997	15.4	12.2	18.8	16.0	13.6	17.1	8.2	7.7	9.6
1996	18.9	12.6	15.3	20.4	13.7	15.1	11.2	7.5	12.3
1995	15.0	11.0	15.4	17.4	11.0	12.0	11.2	5.2	8.7
1994	17.8	12.9	18.5	26.1	13.1	21.2	19.5	7.3	18.0
1993	18.2	14.5	22.5	19.2	14.8	16.1	8.1	7.5	7.6
Pre-1993	6.1	3.2	4.4	11.8	4.6	5.9	10.0	3.4	7.8
VEHICLE ACQUISITION									
New	5.2	4.8	8.7	5.9	5.6	9.5	3.7	3.7	5.0
Used	3.8	3.9	7.3	6.6	5.3	11.3	5.4	3.8	6.6
Not reported	19.9	9.8	8.9	21.1	10.1	6.5	10.4	5.1	8.1
LEASE CHARACTERISTICS									
Leased	14.9	N	N	11.4	N	N	6.3	N	N
Lessee	16.8	N	N	15.3	N	N	5.7	N	N
Vehicle only	10.8	N	N	12.0	N	N	9.2	N	N
Vehicle with driver	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ³	18.2	N	N	19.2	N	N	6.0	N	N
Lessor	9.0	N	N	9.2	N	N	6.3	N	N
Vehicle only	10.2	N	N	10.6	N	N	7.2	N	N
Vehicle with driver	19.1	N	N	21.6	N	N	10.1	N	N
Not reported	S	N	N	S	N	N	S	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	4.0	N	N	6.4	N	N	5.1	N	N
Not reported	5.4	N	N	6.9	N	N	4.5	N	N
Length of leasing agreement:									
Leased	14.9	N	N	11.4	N	N	6.3	N	N
1 to 11 months	25.4	N	N	26.9	N	N	19.6	N	N
12 months or more	6.9	N	N	7.3	N	N	5.4	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ³	17.6	N	N	18.8	N	N	6.5	N	N
Provisions of lease:									
Financing only	8.9	N	N	9.6	N	N	7.2	N	N
Full maintenance	10.1	N	N	10.3	N	N	6.5	N	N
Payment of taxes	9.5	N	N	9.9	N	N	6.7	N	N
Obtaining licenses and permits	9.5	N	N	9.7	N	N	6.8	N	N
Recordkeeping	12.7	N	N	12.9	N	N	8.7	N	N
Fuel contract	15.6	N	N	16.3	N	N	10.0	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	8.5	N	N	10.6	N	N	5.9	N	N
Motor carrier	6.1	N	N	6.4	N	N	4.8	N	N
Owner operator	24.3	N	N	11.1	N	N	17.1	N	N
Rental	38.8	N	N	43.5	N	N	6.9	N	N
Personal transportation	1.9	N	N	4.4	N	N	4.0	N	N
Not applicable ¹	34.9	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	6.6	N	N	7.1	N	N	4.9	N	N
Common	8.3	N	N	8.7	N	N	6.2	N	N
Not reported	16.7	N	N	18.7	N	N	13.4	N	N
Not applicable ⁴ .....	.7	N	N	3.5	N	N	3.5	N	N
Type of service:									
Truckload	5.1	5.5	9.6	5.6	5.5	8.9	4.0	3.8	4.9
Less-than truckload	13.6	16.3	22.5	15.1	18.8	27.3	10.7	11.2	16.6
Not reported	17.1	N	N	19.1	N	N	13.5	N	N
Not applicable ⁴ .....	.7	N	N	3.5	N	N	3.5	N	N
Source of hauls:									
Shippers or receivers	5.9	N	N	6.1	N	N	4.4	N	N
Brokers	12.8	N	N	14.3	N	N	7.7	N	N
Centralized markets or exchanges	29.5	N	N	37.1	N	N	22.7	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	12.4	N	N	15.2	N	N	11.5	N	N
Not applicable ⁴ .....	.7	N	N	3.5	N	N	3.5	N	N
HAZARDOUS MATERIALS CARRIED⁵									
Carrying hazardous materials	12.0	11.8	16.6	13.0	11.7	17.2	9.8	8.2	12.7
Not carrying hazardous materials	1.8	2.2	2.8	3.5	3.3	4.2	3.2	3.1	3.9
Not reported	9.2	5.2	3.5	12.1	8.0	6.6	10.2	6.4	16.6
Not applicable ⁶ .....	.7	N	N	3.8	N	N	3.7	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	31.8	N	N	S	N	N
Air bag(s) (safety device only)	3.8	5.6	13.9	5.2	6.4	15.0	3.6	3.7	4.6
Air compressor (except air brakes)	10.1	N	N	11.8	N	N	9.8	N	N
Air-conditioning	2.2	2.6	4.6	4.0	3.4	6.6	3.5	2.5	3.9
Air springs	5.5	N	N	6.6	N	N	4.1	N	N
Antilock brake system	3.6	4.4	9.0	4.6	5.3	10.3	3.2	3.3	4.2
Collision warning system	28.9	N	N	29.5	N	N	21.8	N	N
Computerized drive train control unit	11.0	N	N	13.9	N	N	9.0	N	N
Crane	21.2	N	N	22.8	N	N	14.5	N	N
Electronic vehicle identification device	19.3	18.1	15.3	21.9	16.4	18.2	10.4	12.9	19.2
Engine retarder/brake	4.1	5.5	8.4	5.3	5.7	9.5	3.8	4.0	5.4
Front-wheel drive	5.5	7.2	18.7	8.0	8.8	22.9	5.7	5.3	7.3
Hoist	7.2	N	N	11.1	N	N	9.7	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	15.9	N	N	17.5	N	N	11.9	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	13.9	N	N	19.1	N	N	13.2	N	N
Mounting bar for snowplow	38.9	N	N	S	N	N	S	N	N
Navigational system	S	29.8	S	S	34.4	S	S	17.2	S
Power take-off	5.0	N	N	6.9	N	N	6.2	N	N
Radial tires	3.2	1.8	3.3	4.8	3.0	4.8	3.8	2.5	4.3
Reflective material in addition to those required by law	7.3	6.1	6.3	9.7	6.3	5.3	8.2	5.5	6.8
Road speed governor	5.1	5.3	6.5	5.6	5.4	7.2	4.6	4.7	7.0
Toolbox	14.7	N	N	15.9	N	N	7.5	N	N
Trip recorder or on-board computer with communication capabilities	22.2	N	N	21.9	N	N	12.4	N	N
Trip recorder or on-board computer without communication capabilities	9.6	N	N	10.8	N	N	5.6	N	N
Vehicle control aids for handicapped drivers	N	S	S	N	S	S	N	S	S
Wheelchair lift	S	S	S	S	S	S	S	S	S
Winch	39.1	N	N	S	N	N	S	N	N
Transmission type:									
Automatic	2.2	N	N	4.5	N	N	4.0	N	N
Manual	7.4	N	N	8.2	N	N	6.1	N	N
Semiautomated manual	26.3	N	N	28.7	N	N	25.9	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	26.6	N	N	21.4	N	N	12.5	N	N
Braking system:									
Hydraulic (standard)	8.6	6.9	17.1	29.8	11.4	66.5	22.3	9.4	32.5
Hydraulic with power assist	6.2	5.7	6.0	9.0	8.5	6.6	6.8	6.4	7.1
Air	2.7	3.2	4.3	3.7	3.4	4.7	3.5	3.2	4.3
Other	N	30.8	N	N	35.2	N	N	21.3	N
Not reported	13.2	N	N	13.5	N	N	10.4	N	N
Not applicable ⁹	.7	N	N	3.7	N	N	3.7	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	1.1	.9	1.6	3.9	2.8	5.3	3.7	2.7	4.4
Diesel	8.9	8.1	14.7	5.9	5.9	8.5	5.1	4.9	5.8
Natural gas	N	N	N	N	N	N	N	N	N
Propane	49.8	N	N	S	N	N	S	N	N
Alcohol fuels	N	N	N	N	N	N	N	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	33.0	N	N	41.6	N	N	25.4	N	N
Not applicable ¹	34.9	N	N	S	N	N	S	N	N
Cylinders ⁹ :									
4 cylinders	11.1	9.7	16.6	13.6	11.8	20.0	8.0	6.8	10.4
6 cylinders	3.9	3.8	6.6	5.6	4.4	7.9	4.5	3.0	4.9
8 cylinders	5.7	5.2	8.8	8.0	7.1	11.5	5.6	4.9	7.1
Other	20.3	13.1	20.9	25.8	17.0	21.1	12.1	10.5	12.7
Cubic inch displacement ⁹ :									
Gasoline fuel	1.1	.9	1.6	3.9	2.8	5.3	3.7	2.7	4.4
Less than 200	8.0	6.4	10.2	10.8	7.9	13.6	7.3	4.8	8.9
200 to 299	5.4	6.4	13.9	8.1	7.8	16.4	6.0	4.6	6.6
300 to 349	10.2	8.2	12.7	12.8	10.7	15.2	7.7	6.9	9.7
350 to 399	10.8	8.4	12.6	14.5	10.8	14.2	9.7	6.8	10.1
400 or more	25.5	20.1	31.4	34.4	24.7	37.1	23.2	15.9	25.5
Not available	23.1	16.0	13.7	33.9	23.2	14.5	20.9	15.1	18.7
Diesel fuel	8.9	8.1	14.7	5.9	5.9	8.5	5.1	4.9	5.8
Less than 400	27.3	24.1	35.5	25.1	26.1	29.1	11.4	14.8	15.4
400 to 599	16.7	16.9	42.7	19.6	21.7	39.0	8.8	9.8	9.8
600 to 799	4.9	6.2	8.8	6.3	7.1	9.7	4.6	5.6	6.7
800 or more	4.9	4.7	7.3	6.6	5.6	8.4	4.6	3.7	5.3
Not available	8.6	7.5	9.9	12.7	10.3	14.5	11.1	8.7	14.4
Other fuel	S	41.1	S	S	S	S	S	S	S
Less than 400	S	S	S	S	S	S	S	S	S
400 or more	S	S	S	S	S	S	S	S	S
Not available	S	49.6	S	S	S	S	S	S	S
Not reported	33.0	N	N	41.6	N	N	25.4	N	N
Not applicable ¹	34.9	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
REFUELING LOCATION									
Gas station	1.4	N	N	4.0	N	N	3.7	N	N
Truck stop	19.4	N	N	12.8	N	N	11.5	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	12.2	N	N	11.3	N	N	7.2	N	N
Other company's/contractor's facility not open to the public	S	N	N	37.0	N	N	S	N	N
Other	S	N	N	S	N	N	S	N	N
Not reported	22.1	N	N	24.4	N	N	10.9	N	N
Not applicable ¹	34.9	N	N	S	N	N	S	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	25.0	44.0	216.1	35.9	47.4	153.0	25.5	16.6	18.3
Company-owned maintenance facility	11.6	10.6	27.8	10.7	8.0	18.9	8.0	5.3	7.7
General repair business or private mechanic ..	5.4	5.2	9.6	7.7	6.3	12.1	5.7	4.1	6.6
Dealership service department	8.0	7.2	12.7	8.8	8.3	14.1	4.6	4.9	6.6
Leasing company	25.0	47.5	10.4	26.0	38.8	13.4	15.7	16.0	33.4
Individual not employed/paid by any maintenance type facility									
Other	5.0	3.7	6.1	6.9	5.2	7.8	4.9	3.7	5.6
Not reported	N	38.6	N	N	37.8	N	N	7.8	N
Not applicable ¹	23.7	17.2	28.4	26.6	15.5	21.9	11.8	12.3	12.5
Extensive repairs performed by:									
None performed	2.3	16.3	287.1	3.9	18.3	355.0	3.2	9.4	10.8
Company-owned maintenance facility	28.8	15.6	22.4	22.8	10.7	10.0	13.2	8.5	9.1
General repair business or private mechanic ..	17.4	8.9	8.4	26.0	10.2	13.2	20.9	6.1	23.7
Dealership service department	19.1	9.2	8.3	18.1	10.1	7.3	8.4	5.9	9.2
Leasing company	S	S	S	S	31.5	S	S	S	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	S	25.2	S	43.1	15.3	10.4	S	15.4	S
Other	17.4	11.3	14.0	20.4	14.1	18.8	12.4	8.9	17.2
Not reported	N	S	S	N	S	S	N	S	S
Not applicable ¹	49.5	3.5	.8	S	4.8	S	S	3.4	S
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles .....	.8	.8	1.3	3.6	2.7	5.0	3.5	2.6	4.1
3 axles .....	.8	.8	1.3	3.7	2.7	5.1	3.6	2.6	4.2
4 axles	8.5	9.6	14.7	14.2	14.6	19.8	10.9	10.4	12.8
5 axles or more	16.4	11.6	10.1	20.8	13.3	11.0	12.8	8.6	13.6
Not reported	15.7	N	N	18.3	N	N	9.5	N	N
Combinations	40.5	N	N	49.0	N	N	27.6	N	N
Combinations									
Single-unit trucks with trailer	12.9	12.3	17.8	5.0	4.5	6.5	10.9	10.1	14.4
3 axles	31.5	27.9	38.9	42.1	30.1	38.7	29.4	18.3	28.1
4 axles	S	S	S	S	S	S	S	S	S
5 axles or more	40.0	33.0	34.0	34.3	39.8	27.0	18.5	24.1	23.7
Not reported	S	27.2	S	39.9	28.2	9.1	S	23.9	S
Truck-tractors with single trailer									
3 axles	2.6	2.8	4.0	3.8	3.5	5.1	3.1	3.1	4.1
4 axles	28.9	23.9	29.4	30.7	24.7	27.2	22.4	20.1	26.5
5 axles or more	26.4	14.1	7.0	34.7	17.0	5.4	27.9	10.7	17.9
Not reported	2.9	2.8	4.5	4.2	3.8	5.8	3.1	3.0	3.9
Truck-tractors with double trailers									
5 axles	15.5	N	N	18.6	N	N	12.1	N	N
6 axles	49.7	47.2	30.8	S	47.2	S	S	29.5	S
7 axles	N	S	S	N	S	S	N	S	S
8 axles or more	N	S	S	N	S	S	N	S	S
Not reported	N	S	S	N	S	S	N	S	S
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	3.5	2.4	4.2	5.7	3.8	6.1	4.5	3.0	4.8
2	5.2	5.9	12.9	6.5	6.3	13.2	4.7	4.2	5.6
3 or more	31.3	21.1	13.8	40.2	23.2	3.7	25.2	18.2	6.8
Not reported	37.4	N	N	46.1	N	N	26.8	N	N
Total liftable axles and locations:									
None	2.9	4.5	14.2	7.3	5.3	22.5	4.8	4.7	6.3
1	15.6	18.2	23.7	21.8	20.7	34.9	15.3	17.2	26.9
Forward of the drive axle	20.3	N	N	27.9	N	N	18.4	N	N
Below the chassis	36.2	N	N	47.8	N	N	39.8	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	37.5	N	N	45.1	N	N	25.1	N	N
2 or more	15.9	23.0	43.4	18.4	24.0	42.0	9.3	19.0	18.9
Forward of the drive axle	21.4	N	N	24.8	N	N	12.6	N	N
Below the chassis	33.0	N	N	39.7	N	N	22.2	N	N
Beyond the chassis	35.0	N	N	38.3	N	N	15.5	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	44.4	N	N	S	N	N	S	N	N
Not applicable ⁸ .....	.7	N	N	3.7	N	N	3.7	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	2.9	4.5	14.2	7.3	5.3	22.5	4.8	4.7	6.3
1	15.6	18.2	23.7	21.8	20.7	34.9	15.3	17.2	26.9
0 braking	36.3	N	N	S	N	N	S	N	N
1 braking	17.7	N	N	23.9	N	N	15.4	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	15.9	23.0	43.4	18.4	24.0	42.0	9.3	19.0	18.9
0 braking	N	N	N	N	N	N	N	N	N
1 braking	N	N	N	N	N	N	N	N	N
2 or more braking	15.9	N	N	18.4	N	N	9.3	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	44.4	N	N	S	N	N	S	N	N
Not applicable ⁸ .....	.7	N	N	3.7	N	N	3.7	N	N
CAB TYPE									
Conventional cab	3.0	2.2	4.6	7.5	3.2	9.2	4.9	3.0	5.4
With sleeper	4.6	N	N	5.5	N	N	3.0	N	N
Without sleeper	3.6	N	N	12.6	N	N	9.4	N	N
Not reported	25.4	N	N	27.4	N	N	10.3	N	N
Cab over engine	8.1	9.0	10.0	11.6	10.6	12.5	9.6	8.5	12.3
With sleeper	17.6	N	N	29.5	N	N	23.9	N	N
Without sleeper	9.3	N	N	12.1	N	N	9.4	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	40.5	19.7	3.6	S	22.5	S	S	10.3	S
Cab beside engine	N	S	S	N	S	S	N	S	S
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ⁹ .....	.7	N	N	3.7	N	N	3.7	N	N

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

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	265.6	249.9	6.3	6 802.3	6 644.8	2.4	25.6	26.6	-3.7
BUSINESS¹									
For-hire transportation or warehousing	44.5	44.9	-9	2 730.9	2 821.1	-3.2	61.4	62.8	-2.3
Vehicle leasing or rental	16.8	17.2	-2.5	1 013.6	417.3	142.9	60.4	24.3	149.0
Agriculture, forestry, fishing, or hunting	32.7	28.0	17.0	269.8	318.9	-15.4	8.2	11.4	-27.7
Mining	2.5	3.9	-35.0	59.6	94.0	-36.6	23.6	24.2	-2.5
Utilities	7.9	8.2	-3.8	122.4	70.6	73.4	15.4	8.6	80.3
Construction	58.8	57.7	2.0	696.7	810.5	-14.0	11.8	14.1	-15.7
Manufacturing	12.4	14.2	-12.9	307.5	408.2	-24.7	24.9	28.8	-13.5
Wholesale trade	14.8	17.1	-13.1	323.2	511.0	-36.7	21.8	29.9	-27.2
Retail trade	16.9	16.6	1.8	273.1	471.9	-42.1	16.1	28.4	-43.2
Information services	2.8	N	N	38.8	N	N	13.9	N	N
Waste management, landscaping, or administrative/support services	19.6	N	N	297.5	N	N	15.2	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	4.1	N	N	136.7	N	N	33.5	N	N
Other services	7.0	N	N	106.3	N	N	15.2	N	N
Personal transportation	V	7.2	N	V	57.0	N	V	7.9	N
Not reported	18.0	V	N	420.5	V	N	23.3	V	N
Not applicable ²	5.6	2.8	103.2	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks	201.4	189.3	6.4	2 999.1	2 818.7	6.4	14.9	14.9	V
Armored	V	N	N	V	N	N	V	N	N
Beverage	1.6	S	S	20.0	S	S	12.7	S	S
Concrete mixer	2.8	2.6	4.8	38.2	34.3	11.2	13.8	13.0	6.1
Concrete pumper	V	N	N	V	N	N	V	N	N
Crane .....	.8	3.2	-75.8	S	37.9	S	S	12.0	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	51.1	30.3	68.7	430.0	381.0	12.9	8.4	12.6	-33.1
Flatbed, stake, or platform	41.5	42.6	-2.7	389.7	523.5	-25.6	9.4	12.3	-23.5
Low boy	V	S	S	V	S	S	V	S	S
Pole, logging, pulpwood, or pipe	S	.5	S	S	S	S	S	S	S
Service, utility	8.0	4.1	94.3	96.5	35.4	172.8	12.0	8.6	40.4
Service, other	12.0	10.6	12.6	154.8	141.5	9.4	12.9	13.3	-2.8
Street sweeper .....	.8	N	N	S	N	N	S	N	N
Tank, dry bulk .....	.6	.4	40.3	6.1	S	S	10.7	S	S
Tank, liquids or gases	5.1	5.5	-8.6	41.4	97.9	-57.7	8.2	17.7	-53.7
Tow/Wrecker	6.2	6.8	-9.2	57.2	104.5	-45.3	9.3	15.4	-39.7
Trash, garbage, or recycling	4.2	3.0	43.0	96.0	88.4	8.6	22.7	29.9	-24.1
Vacuum .....	.6	N	N	S	N	N	S	N	N
Van, basic enclosed	32.5	19.6	66.0	1 053.2	460.8	128.6	32.4	23.6	37.7
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	3.3	3.0	9.0	94.5	92.7	1.9	29.0	31.1	-6.5
Van, open top	4.7	8.3	-43.7	S	17.7	S	S	2.1	S
Van, step, walk-in, or multistop	20.8	43.0	-51.6	369.8	694.4	-46.7	17.8	16.1	10.1
Van, other	4.6	N	N	94.3	N	N	20.3	N	N
Other	V	N	N	V	N	N	V	N	N
Truck-tractors	64.2	60.6	6.0	3 803.2	3 826.1	-6	59.2	63.2	-6.3
Automobile carrier	S	S	S	S	S	S	S	S	S
Beverage	1.5	1.8	-19.0	21.6	38.7	-44.2	14.6	21.1	-31.1
Curtainside	S	N	N	S	N	N	S	N	N
Dump	6.6	5.3	23.5	256.5	328.4	-21.9	39.0	61.7	-36.7
Flatbed, stake, or platform	12.8	12.3	3.8	661.7	799.4	-17.2	51.6	64.7	-20.2
Livestock	S	S	S	S	S	S	S	S	S
Low boy	2.5	3.2	-22.6	75.0	79.5	-5.7	30.1	24.7	21.8
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	2.2	1.8	18.9	46.4	24.2	91.6	21.5	13.4	61.1
Pole, logging, pulpwood, or pipe	S	.4	S	S	S	S	S	S	S
Tank, dry bulk	1.8	1.2	50.3	100.8	94.3	6.9	55.6	78.2	-28.9
Tank, liquids or gases	3.4	3.3	2.3	213.6	241.4	-11.5	63.0	72.8	-13.5
Van, basic enclosed	25.7	23.0	11.8	1 834.0	1 680.6	9.1	71.4	73.2	-2.4
Van, drop-frame .....	.6	.6	-5.6	S	19.2	S	S	31.9	S
Van, insulated nonrefrigerated	S	.6	S	S	36.1	S	S	59.9	S
Van, insulated refrigerated	5.7	5.4	4.3	473.0	404.9	16.8	83.7	74.7	12.0
Other	V	N	N	V	N	N	V	N	N
Not applicable ³	S	N	N	V	N	N	S	N	N
ANNUAL MILES									
Less than 5,000	69.1	55.9	23.7	120.9	103.7	16.6	1.7	1.9	-5.7
5,000 to 9,999	36.3	37.8	-4.0	251.5	262.6	-4.2	6.9	6.9	-3
10,000 to 19,999	53.1	57.1	-7.0	730.8	799.5	-8.6	13.8	14.0	-1.7
20,000 to 29,999	29.0	28.6	1.3	683.4	661.2	3.4	23.6	23.1	2.0
30,000 to 49,999	23.3	24.5	-4.8	872.5	904.7	-3.6	37.4	36.9	1.3
50,000 to 74,999	23.9	16.2	47.7	1 502.1	962.1	56.1	62.9	59.5	5.7
75,000 or more	25.3	28.7	-11.9	2 637.8	2 951.0	-10.6	104.4	102.9	1.5
Not applicable ²	5.6	1.1	403.6	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	6.7	8.8	-24.5	51.9	35.6	45.6	7.8	4.0	92.9
50 miles or less	153.8	137.2	12.1	2 077.6	1 782.4	16.6	13.5	13.0	4.0
51 to 100 miles	35.6	48.6	-26.6	1 096.6	1 419.8	-22.8	30.8	29.2	5.3
101 to 200 miles	12.0	19.0	-36.8	650.0	873.4	-25.6	54.2	46.0	17.8
201 to 500 miles	17.4	21.6	-19.8	1 280.8	1 415.0	-9.5	73.8	65.4	12.9
501 miles or more	9.9	13.6	-27.0	887.0	1 118.6	-20.7	89.6	82.6	8.6
Not reported	24.7	1.1	2 107.5	755.3	V	N	30.6	V	N
Not applicable ²	5.6	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	S	N	N	S	N	N	S	N	N
Operated in Mexico	V	N	N	V	N	N	V	N	N
Operated within the home base state	216.1	N	N	4 455.3	N	N	20.6	N	N
Operated in states other than the home base state	20.5	N	N	1 683.6	N	N	82.2	N	N
Not reported	23.0	N	N	630.4	N	N	27.5	N	N
Not applicable ²	5.6	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	145.8	N	N	5 165.4	N	N	35.4	N	N
7 to 11	55.3	N	N	1 259.0	N	N	22.8	N	N
2 to 6	44.7	N	N	361.2	N	N	8.1	N	N
1 or less	14.3	N	N	13.6	N	N	1.0	N	N
Vehicle not used	5.6	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	50.6	63.8	-20.8	931.0	730.8	27.4	18.4	11.4	60.8
Medium	55.6	53.1	4.7	698.8	798.6	-12.5	12.6	15.0	-16.4
Light-heavy	41.0	31.7	29.2	563.1	544.2	3.5	13.7	17.2	-19.9
Heavy-heavy	118.5	101.2	17.0	4 609.4	4 571.1	.8	38.9	45.2	-13.8
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	3.6	10.2	-64.3	38.9	92.6	-58.0	10.7	9.1	17.5
6,001 to 8,500	16.3	N	N	170.1	N	N	10.4	N	N
8,501 to 10,000	30.6	N	N	S	N	N	S	N	N
10,001 to 14,000	34.2	26.1	31.0	452.1	334.6	35.1	13.2	12.8	3.1
14,001 to 16,000	12.3	14.4	-15.0	137.3	205.9	-33.3	11.2	14.3	-21.5
16,001 to 19,500	9.1	12.6	-27.4	109.4	258.1	-57.6	12.0	20.5	-41.6
19,501 to 26,000	41.0	31.7	29.2	563.1	544.2	3.5	13.7	17.2	-19.9
26,001 to 33,000	23.4	13.5	73.1	280.3	223.8	25.2	12.0	16.5	-27.6
33,001 to 40,000	10.3	10.8	-4.8	218.2	229.6	-5.0	21.2	21.2	-2
40,001 to 50,000	11.5	15.8	-27.6	190.6	496.9	-61.6	16.6	31.4	-47.0
50,001 to 60,000	15.0	14.4	4.4	527.5	535.5	-1.5	35.1	37.2	-5.6
60,001 to 80,000	56.9	46.0	23.5	3 344.9	3 039.6	10.0	58.8	66.0	-10.9
80,001 to 100,000 .....	.7	S	S	12.6	S	S	18.5	S	S
100,001 to 130,000 .....	.7	S	S	35.3	S	S	52.4	S	S
130,001 or more	V	V	N	V	V	N	V	V	N
TOTAL LENGTH (FEET)									
Less than 20.0	78.3	39.0	101.0	819.5	567.8	44.3	10.5	14.6	-28.2
20.0 to 27.9	70.0	109.1	-35.9	1 310.0	1 434.7	-8.7	18.7	13.2	42.3
28.0 to 35.9	29.9	28.9	3.2	525.7	609.6	-13.8	17.6	21.1	-16.4
36.0 to 40.9	14.7	6.4	131.5	283.4	93.8	202.3	19.2	14.7	30.6
41.0 to 44.9	9.2	2.7	246.2	203.5	50.4	303.6	22.0	18.9	16.6
45.0 to 49.9	6.3	1.8	241.0	288.5	24.3	1 088.0	45.8	13.2	248.4
50.0 to 54.9	6.4	10.5	-39.3	201.8	405.7	-50.3	31.7	38.6	-18.1
55.0 to 59.9	9.9	15.6	-36.2	366.6	940.0	-61.0	36.9	60.3	-38.9
60.0 to 64.9	17.7	19.6	-9.8	1 095.1	1 332.7	-17.8	61.9	68.0	-8.9
65.0 to 69.9	14.6	10.4	41.3	1 065.1	733.2	45.3	72.8	70.8	2.8
70.0 to 74.9	6.2	4.0	55.2	457.1	311.3	46.9	73.2	77.4	-5.4
75.0 to 79.9	1.9	N	N	173.5	N	N	90.4	N	N
80.0 or more	S	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	24.6	22.8	7.8	486.0	610.2	-20.4	19.8	26.7	-26.1
5 to 6.9	68.1	72.4	-5.9	2 960.0	3 241.9	-8.7	43.4	44.8	-3.0
7 to 8.9	35.8	50.7	-29.4	631.9	1 114.1	-43.3	17.7	22.0	-19.6
9 to 10.9	36.5	44.7	-18.5	504.3	703.9	-28.4	13.8	15.7	-12.1
11 to 12.9	22.3	21.5	3.5	335.1	287.5	16.5	15.0	13.3	12.5
13 to 14.9	7.7	7.5	2.6	140.5	148.5	-5.4	18.2	19.8	-7.8
15 or more	14.7	21.3	-30.8	190.7	348.4	-45.3	12.9	16.4	-21.0
15 to 20.9	14.7	20.9	-29.4	190.7	345.3	-44.8	12.9	16.6	-21.8
21 to 24.9	V	S	S	V	S	S	V	S	S
25 or more	V	S	S	V	S	S	V	S	S
Not reported	50.3	8.9	465.6	1 550.7	190.2	715.4	30.9	21.4	44.2
Not applicable ²	5.6	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	S	N	N	S	N	N	S	N	N
2002	6.1	N	N	284.1	N	N	46.8	N	N
2001	11.9	N	N	624.5	N	N	52.5	N	N
2000	14.2	N	N	720.6	N	N	50.6	N	N
1999	29.9	N	N	1 450.1	N	N	48.5	N	N
1998	13.9	S	S	579.9	S	S	41.7	S	S
1997	16.4	19.2	-14.4	551.8	624.1	-11.6	33.6	32.5	3.3
1996	11.5	12.5	-7.9	471.0	678.1	-30.5	40.8	54.1	-24.5
1995	19.4	23.2	-16.5	594.1	1 090.0	-45.5	30.7	47.0	-34.7
1994	9.7	18.3	-46.8	210.5	805.9	-73.9	21.6	44.1	-50.9
1993	9.9	14.8	-33.3	206.6	613.3	-66.3	20.9	41.4	-49.5
Pre-1993	122.1	160.3	-23.8	1 073.1	2 798.0	-61.6	8.8	17.4	-49.7
VEHICLE ACQUISITION									
New	117.7	107.6	9.4	4 244.6	3 475.3	22.1	36.1	32.3	11.6
Used	138.3	113.7	21.6	2 298.3	1 993.0	15.3	16.6	17.5	-5.2
Not reported	9.6	28.6	-66.3	259.4	1 176.4	-77.9	26.9	41.1	-34.5
LEASE CHARACTERISTICS									
Leased	37.7	N	N	1 972.1	N	N	52.3	N	N
Lessee	16.4	N	N	761.8	N	N	46.4	N	N
Vehicle only	15.9	N	N	752.4	N	N	47.4	N	N
Vehicle with driver	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Lessor	20.3	N	N	1 160.3	N	N	57.2	N	N
Vehicle only	17.2	N	N	916.8	N	N	53.2	N	N
Vehicle with driver	2.9	N	N	240.2	N	N	81.9	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	1.0	N	N	50.1	N	N	50.7	N	N
Not leased	151.2	N	N	3 427.2	N	N	22.7	N	N
Not reported	76.7	N	N	1 402.9	N	N	18.3	N	N
Length of leasing agreement:									
Leased	37.7	N	N	1 972.1	N	N	52.3	N	N
1 to 11 months	2.7	N	N	145.6	N	N	53.3	N	N
12 months or more	34.1	N	N	1 804.1	N	N	52.9	N	N
Not reported	S	N	N	S	N	N	S	N	N
Provisions of lease ⁴ :									
Financing only	22.2	N	N	1 131.1	N	N	50.9	N	N
Full maintenance	16.3	N	N	985.1	N	N	60.5	N	N
Payment of taxes	17.4	N	N	1 052.0	N	N	60.3	N	N
Obtaining licenses and permits	18.4	N	N	1 063.3	N	N	57.7	N	N
Recordkeeping	10.9	N	N	610.3	N	N	56.0	N	N
Fuel contract	6.9	N	N	403.4	N	N	58.5	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	181.9	N	N	2 475.5	N	N	13.6	N	N
Motor carrier	38.1	N	N	2 129.1	N	N	55.8	N	N
Owner operator	22.1	N	N	1 162.8	N	N	52.6	N	N
Rental	17.9	N	N	1 031.7	N	N	57.8	N	N
Personal transportation	V	N	N	V	N	N	V	N	N
Not applicable ²	5.6	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	31.3	N	N	1 972.3	N	N	63.0	N	N
Common	21.4	N	N	1 101.0	N	N	51.4	N	N
Not reported	7.5	N	N	218.6	N	N	29.0	N	N
Not applicable ⁵	205.4	N	N	3 510.4	N	N	17.1	N	N
Type of service:									
Truckload	41.5	32.3	28.3	2 635.1	2 305.5	14.3	63.5	71.3	-10.9
Less-than truckload	11.8	11.2	5.9	457.7	405.1	13.0	38.7	36.3	6.6
Not reported	6.9	N	N	199.1	N	N	28.8	N	N
Not applicable ⁵	205.4	N	N	3 510.4	N	N	17.1	N	N
Source of hauls:									
Shippers or receivers	38.4	N	N	2 380.6	N	N	62.0	N	N
Brokers	7.0	N	N	437.2	N	N	62.4	N	N
Centralized markets or exchanges	2.0	N	N	72.5	N	N	36.7	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	12.9	N	N	401.5	N	N	31.2	N	N
Not applicable ⁵	205.4	N	N	3 510.4	N	N	17.1	N	N
HAZARDOUS MATERIALS CARRIED⁶									
Carrying hazardous materials	11.3	11.4	-1.0	646.0	656.4	-1.6	57.1	57.4	-6
Not carrying hazardous materials	204.6	204.7	V	4 535.3	5 225.1	-13.2	22.2	25.5	-13.2
Not reported	26.3	33.8	-22.3	586.0	763.2	-23.2	22.3	22.6	-1.2
Not applicable ⁷	23.5	N	N	1 034.9	N	N	44.1	N	N
EQUIPMENT TYPE⁴									
Aerial work platform/bucket	4.2	N	N	24.4	N	N	5.8	N	N
Air bag(s) (safety device only)	37.3	20.3	83.8	1 579.0	1 137.1	38.9	42.3	56.0	-24.5
Air compressor (except air brakes)	16.5	N	N	678.0	N	N	41.1	N	N
Air-conditioning	125.9	100.3	25.6	5 475.6	4 578.4	19.6	43.5	45.7	-4.8
Air springs	33.3	N	N	2 043.1	N	N	61.4	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 change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE⁴—Con.									
Antilock brake system	77.2	37.9	103.8	3 702.1	1 439.7	157.1	48.0	38.0	26.2
Collision warning system	3.1	N	N	127.8	N	N	40.8	N	N
Computerized drive train control unit	6.8	N	N	306.5	N	N	44.7	N	N
Crane	5.2	N	N	54.9	N	N	10.5	N	N
Electronic vehicle identification device	3.0	5.1	-42.3	266.0	399.4	-33.4	89.6	77.6	15.5
Engine retarder/brake	43.6	35.5	22.9	2 558.1	2 111.5	21.2	58.6	59.4	-1.4
Front-wheel drive	V	V	N	V	V	N	V	V	N
Hoist	41.5	N	N	363.5	N	N	8.8	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	5.9	N	N	299.5	N	N	51.0	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	13.5	N	N	278.7	N	N	20.7	N	N
Mounting bar for snowplow	4.4	N	N	40.0	N	N	9.1	N	N
Navigational system	S	1.1	S	S	75.6	S	S	68.4	S
Power take-off	66.6	N	N	1 128.8	N	N	16.9	N	N
Radial tires	152.7	172.6	-11.6	4 647.4	5 536.4	-16.1	30.4	32.1	-5.1
Reflective material in addition to those required by law	36.7	55.4	-33.8	987.2	2 152.0	-54.1	26.9	38.8	-30.7
Road speed governor	54.9	62.9	-12.8	2 490.3	2 708.7	-8.1	45.4	43.0	5.4
Toolbox	57.2	N	N	1 161.7	N	N	20.3	N	N
Trip recorder or on-board computer with communication capabilities	8.5	N	N	582.8	N	N	68.7	N	N
Trip recorder or on-board computer without communication capabilities	7.8	N	N	377.5	N	N	48.7	N	N
Vehicle control aids for handicapped drivers	V	V	N	V	V	N	V	V	N
Wheelchair lift	V	V	N	V	V	N	V	V	N
Winch	9.7	N	N	133.4	N	N	13.8	N	N
Transmission type:									
Automatic	67.8	N	N	1 159.0	N	N	17.1	N	N
Manual	182.4	N	N	5 074.8	N	N	27.8	N	N
Semiautomated manual	2.8	N	N	140.2	N	N	49.8	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	12.4	N	N	414.8	N	N	33.4	N	N
Braking system:									
Hydraulic (standard)	90.1	58.0	55.4	1 514.6	726.3	108.5	16.8	12.5	34.2
Hydraulic with power assist	54.2	76.1	-28.8	588.1	1 094.6	-46.3	10.9	14.4	-24.5
Air	108.4	104.5	3.8	4 257.5	4 597.1	-7.4	39.3	44.0	-10.7
Other	V	4.0	N	V	47.0	N	V	11.7	N
Not reported	12.9	N	N	442.1	N	N	34.2	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	90.1	107.1	-16.0	1 170.2	1 089.7	7.4	13.0	10.2	27.8
Diesel	168.2	138.5	21.4	5 608.8	5 523.2	1.5	33.4	39.9	-16.4
Natural gas	V	N	N	V	N	N	V	N	N
Propane	1.2	N	N	S	N	N	S	N	N
Alcohol fuels	V	N	N	V	N	N	V	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ²	5.6	N	N	S	N	N	S	N	N
Cylinders ⁸ :									
4 cylinders	6.1	3.2	95.0	148.7	83.8	77.4	24.2	26.6	-9.0
6 cylinders	131.5	105.5	24.6	5 438.6	4 747.0	14.6	41.4	45.0	-8.0
8 cylinders	99.7	102.6	-2.8	973.1	1 347.9	-27.8	9.8	13.1	-25.8
Other	28.3	38.6	-26.8	241.8	466.0	-48.1	8.6	12.1	-29.1
Cubic inch displacement ⁸ :									
Gasoline fuel	90.1	107.1	-16.0	1 170.2	1 089.7	7.4	13.0	10.2	27.8
Less than 200	S	S	S	S	S	S	S	S	S
200 to 299	S	5.8	S	S	73.0	S	S	12.6	S
300 to 349	4.6	2.7	71.6	62.4	S	S	13.6	S	S
350 to 399	42.2	51.6	-18.2	376.9	574.1	-34.4	8.9	11.1	-19.8
400 or more	15.0	20.6	-27.5	151.3	259.9	-41.8	10.1	12.6	-19.7
Not available	17.8	26.0	-31.6	83.0	153.0	-45.8	4.7	5.9	-20.7
Diesel fuel	168.2	138.5	21.4	5 608.8	5 523.2	1.5	33.4	39.9	-16.4
Less than 400	23.0	17.9	28.4	433.1	418.3	3.6	18.8	23.4	-19.3
400 to 599	57.9	36.1	60.4	965.9	798.6	21.0	16.7	22.1	-24.6
600 to 799	37.2	33.5	11.0	1 777.2	1 733.5	2.5	47.8	51.8	-7.6
800 or more	32.8	30.6	7.3	1 869.0	1 933.0	-3.3	57.0	63.3	-9.9
Not available	17.3	20.5	-15.4	563.4	639.9	-11.9	32.6	31.3	4.1
Other fuel	1.6	2.0	-15.8	S	S	S	S	S	S
Less than 400	S	S	S	S	S	S	S	S	S
400 or more	S	S	S	S	S	S	S	S	S
Not available	S	S	S	S	S	S	S	S	S
Not reported	S	S	S	S	S	S	S	S	S
Not applicable ²	5.6	N	N	S	N	N	S	N	N
REFUELING LOCATION									
Gas station	123.7	N	N	2 073.9	N	N	16.8	N	N
Truck stop	44.9	N	N	2 637.7	N	N	58.8	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	79.5	N	N	1 855.5	N	N	23.3	N	N
Other company's/contractor's facility not open to the public	5.2	N	N	150.1	N	N	28.7	N	N
Other	S	N	N	S	N	N	S	N	N
Not reported	6.4	N	N	81.8	N	N	12.8	N	N
Not applicable ²	5.6	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent	2002 truck	1997 truck	Percent	2002 average	1997 average	Percent
	(thousands)	(thousands)	change	miles	miles	change	miles per	miles per	change
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁴									
General maintenance performed by:									
None performed	4.3	S	S	S	S	S	S	S	S
Company-owned maintenance facility	114.6	100.6	13.9	3 826.5	3 136.2	22.0	33.4	31.2	7.1
General repair business or private mechanic	77.1	57.9	33.1	2 040.6	1 625.5	25.5	26.5	28.1	-5.7
Dealership service department	28.9	25.8	11.9	1 164.3	790.9	47.2	40.3	30.6	31.6
Leasing company	3.2	3.0	6.5	144.9	189.1	-23.3	44.7	62.0	-28.0
Individual not employed/paid by any maintenance type facility:									
Other	65.0	82.3	-20.9	1 061.6	1 628.7	-34.8	16.3	19.8	-17.6
Not reported	V	1.4	N	V	52.2	N	V	36.5	N
Not applicable ²	4.8	23.4	-79.6	45.9	798.9	-94.3	9.6	34.1	-71.9
	5.6	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	195.3	7.0	2 708.0	4 834.3	146.0	3 210.3	24.7	21.0	17.9
Company-owned maintenance facility	14.9	47.9	-68.9	383.6	1 527.4	-74.9	25.7	31.9	-19.3
General repair business or private mechanic	20.1	51.9	-61.3	656.9	1 279.5	-48.7	32.7	24.7	32.7
Dealership service department	13.3	38.6	-65.5	557.6	1 386.7	-59.8	41.9	36.0	16.5
Leasing company	S	2.0	S	S	147.1	S	S	72.5	S
Component distributorship (engine, transmission, body, etc.):									
Individual not employed/paid by any repair type facility	2.3	15.0	-84.5	92.7	776.1	-88.1	39.7	51.7	-23.1
Other	9.5	17.6	-46.1	233.3	290.4	-19.7	24.5	16.5	49.2
Not reported	V	.6	N	V	S	S	V	S	S
Not applicable ²	S	86.1	S	S	1 816.0	S	S	21.1	S
	5.6	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	186.6	179.8	3.8	2 866.2	2 669.0	7.4	15.4	14.8	3.5
3 axles	162.3	158.0	2.7	2 381.9	2 178.4	9.3	14.7	13.8	6.5
4 axles	15.7	13.7	14.4	241.9	248.7	-2.7	15.4	18.1	-15.0
5 axles or more	4.0	8.0	-49.8	107.6	241.9	-55.5	26.7	30.1	-11.4
Not reported	4.4	N	N	133.1	N	N	30.4	N	N
	S	V	S	S	V	S	S	V	S
Combinations:									
Single-unit trucks with trailer:	79.0	70.1	12.7	3 936.1	3 975.8	-1.0	49.8	56.7	-12.1
3 axles	15.1	9.5	58.5	132.9	149.7	-11.2	8.8	15.7	-44.0
4 axles	2.5	1.7	48.5	19.7	S	S	8.0	S	S
5 axles or more	10.2	4.6	120.2	93.0	55.1	68.8	9.1	11.9	-23.3
Not reported	2.1	3.3	-36.7	8.9	62.4	-85.8	4.3	19.1	-77.6
	S	N	N	S	N	N	S	N	N
Truck-tractors with single trailer:	63.4	59.5	6.5	3 784.8	3 789.6	-1.1	59.7	63.6	-6.2
3 axles	2.5	3.1	-21.6	48.6	70.4	-31.0	19.7	22.4	-12.0
4 axles	2.0	8.5	-76.5	61.9	439.8	-85.9	31.0	51.7	-40.2
5 axles or more	53.6	47.9	11.9	3 349.7	3 279.4	2.1	62.5	68.5	-8.7
Not reported	5.4	N	N	324.7	N	N	60.6	N	N
	S	V	S	S	V	S	S	V	S
Truck-tractors with double trailers:	.5	1.0	-55.1	S	36.5	S	S	35.9	S
5 axles	V	S	S	V	S	S	V	S	S
6 axles	S	V	S	S	V	S	S	V	S
7 axles	V	S	S	V	S	S	V	S	S
8 axles or more	S	S	S	S	S	S	S	S	S
Not reported	V	N	N	V	N	N	V	N	N
	V	V	N	V	V	N	V	V	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
	V	V	N	V	V	N	V	V	N
Driving axles:									
1	176.8	177.3	-3	2 649.6	2 910.7	-9.0	15.0	16.4	-8.7
2	87.3	69.4	25.7	4 134.9	3 539.1	16.8	47.4	51.0	-7.0
3 or more	1.2	3.1	-63.3	15.6	194.9	-92.0	13.5	62.1	-78.2
Not reported	S	V	S	S	V	S	S	V	S
Total liftable axles and locations ⁹ :									
None	254.7	87.0	192.7	6 516.6	2 510.3	159.6	25.6	28.8	-11.3
1	6.1	5.7	6.2	145.8	125.9	15.8	24.1	22.1	9.0
Forward of the drive axle	3.8	N	N	104.4	N	N	27.4	N	N
Below the chassis	1.2	N	N	21.4	N	N	17.4	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	.8	N	N	18.1	N	N	22.6	N	N
2 or more	4.3	2.3	82.8	132.4	94.0	40.9	31.1	40.3	-22.9
Forward of the drive axle	2.4	N	N	60.0	N	N	24.8	N	N
Below the chassis	1.0	N	N	34.6	N	N	33.3	N	N
Beyond the chassis	.9	N	N	20.9	N	N	22.7	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	.6	N	N	S	N	N	S	N	N
Total liftable axles and number of braking axles:									
None	254.7	87.0	192.7	6 516.6	2 510.3	159.6	25.6	28.8	-11.3
1	6.1	5.7	6.2	145.8	125.9	15.8	24.1	22.1	9.0
0 braking	1.2	N	N	S	N	N	S	N	N
1 braking	4.7	N	N	129.4	N	N	27.4	N	N
2 or more	4.3	2.3	82.8	132.4	94.0	40.9	31.1	40.3	-22.9
0 braking	V	N	N	V	N	N	V	N	N
1 braking	V	N	N	V	N	N	V	N	N
2 or more braking	4.3	N	N	132.4	N	N	31.1	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	.6	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
CAB TYPE									
Conventional cab	242.6	200.1	21.2	6 321.5	5 609.2	12.7	26.1	28.0	-7.0
With sleeper	33.0	N	N	2 534.9	N	N	76.9	N	N
Without sleeper	207.9	N	N	3 667.9	N	N	17.6	N	N
Not reported	1.7	N	N	118.7	N	N	70.1	N	N
Cab over engine	22.3	27.1	-17.7	472.9	598.2	-21.0	21.2	22.0	-3.9
With sleeper	3.5	N	N	119.2	N	N	33.8	N	N
Without sleeper	18.5	N	N	322.5	N	N	17.4	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine .....	.7	8.5	-91.9	S	190.0	S	S	22.3	S
Cab beside engine	V	S	S	V	S	S	V	S	S
Not reported	V	N	N	V	N	N	V	N	N

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

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	2.7	1.5	3.3	7.0	2.7	7.7	4.7	2.6	5.1
BUSINESS									
For-hire transportation or warehousing	5.4	5.5	7.7	5.6	5.2	7.4	4.1	3.8	5.5
Vehicle leasing or rental	41.2	14.3	42.5	44.3	15.7	114.1	5.7	10.7	30.3
Agriculture, forestry, fishing, or hunting	8.1	10.0	15.1	14.3	14.5	17.2	13.1	13.6	13.6
Mining	26.9	24.4	23.6	32.3	27.6	26.9	26.4	25.4	35.7
Utilities	18.1	20.7	26.5	22.1	23.9	56.5	16.0	15.7	40.4
Construction	5.7	6.6	8.9	7.5	9.5	10.4	5.6	7.7	8.0
Manufacturing	12.9	13.6	16.3	17.2	14.5	16.9	14.1	12.5	16.3
Wholesale trade	12.7	12.6	15.6	15.7	14.0	13.3	11.4	10.3	11.2
Retail trade	11.7	13.4	18.1	14.6	14.2	11.8	9.0	9.0	7.3
Information services	31.6	N	N	36.1	N	N	21.6	N	N
Waste management, landscaping, or administrative/support services	10.9	N	N	13.1	N	N	10.5	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	24.9	N	N	30.0	N	N	21.6	N	N
Other services	19.1	N	N	26.4	N	N	18.5	N	N
Personal transportation	N	20.7	N	N	33.7	N	N	25.5	N
Not reported	11.2	N	N	15.1	N	N	12.8	N	N
Not applicable ¹	21.7	34.5	82.8	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks	3.6	2.0	4.4	15.2	4.7	16.9	11.9	4.2	12.6
Armored	N	N	N	N	N	N	N	N	N
Beverage	40.8	S	S	48.1	S	S	32.9	S	S
Concrete mixer	19.9	19.2	29.0	22.3	21.5	34.4	10.1	9.6	14.7
Concrete pumper	N	N	N	N	N	N	N	N	N
Crane	49.8	28.7	13.9	S	31.3	S	S	29.7	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	6.3	9.5	19.3	9.5	10.7	16.2	8.0	9.3	8.2
Flatbed, stake, or platform	7.3	8.3	10.8	11.0	13.9	13.2	8.8	11.1	10.8
Low boy	N	S	S	N	S	S	N	S	S
Pole, logging, pulpwood, or pipe	S	44.4	S	S	S	S	S	S	S
Service, utility	18.9	30.1	69.1	23.5	32.2	108.9	13.9	14.5	28.2
Service, other	15.1	18.7	27.1	19.0	21.5	31.4	11.7	10.4	15.2
Street sweeper	49.8	N	N	S	N	N	S	N	N
Tank, dry bulk	44.5	49.6	93.5	48.3	S	S	18.6	S	S
Tank, liquids or gases	22.2	22.6	28.9	27.6	25.6	15.9	17.6	15.8	11.0
Tow/Wrecker	20.5	22.9	27.9	31.8	32.0	24.7	24.9	22.0	20.0
Trash, garbage, or recycling	19.8	21.9	42.2	20.8	25.5	35.7	10.8	16.5	15.0
Vacuum	44.4	N	N	S	N	N	S	N	N
Van, basic enclosed	22.2	12.9	42.6	42.7	18.7	106.6	21.9	13.5	35.4
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	28.0	34.5	48.4	33.6	39.6	53.0	19.3	22.4	27.6
Van, open top	24.1	19.3	17.4	S	39.1	S	S	34.3	S
Van, step, walk-in, or multistop	11.2	8.6	6.8	14.4	10.8	9.6	9.4	6.6	12.6
Van, other	24.8	N	N	38.0	N	N	29.9	N	N
Other	N	N	N	N	N	N	N	N	N
Truck-tractors	2.6	2.8	4.0	3.7	3.5	5.1	3.1	3.1	4.1
Automobile carrier	S	S	S	S	S	S	S	S	S
Beverage	39.5	36.2	43.4	40.6	36.8	30.6	17.1	14.3	15.4
Curtainside	S	N	N	S	N	N	S	N	N
Dump	12.6	13.1	22.5	16.4	15.0	17.4	10.5	7.4	8.1
Flatbed, stake, or platform	9.1	8.2	12.7	11.1	9.4	12.0	6.9	4.8	6.7
Livestock	S	S	S	S	S	S	S	S	S
Low boy	21.0	17.3	21.0	33.9	28.6	41.8	26.7	22.9	42.9
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	22.6	23.2	38.6	39.4	39.7	107.2	32.4	32.3	73.6
Pole, logging, pulpwood, or pipe	S	49.6	S	S	S	S	S	S	S
Tank, dry bulk	24.7	28.5	56.7	30.1	30.5	45.8	16.9	10.9	14.3
Tank, liquids or gases	17.8	16.9	25.1	20.5	19.9	25.3	10.3	10.5	12.7
Van, basic enclosed	5.7	7.1	10.2	6.8	7.6	11.1	4.1	5.3	6.5
Van, drop-frame	44.5	40.4	56.7	S	47.4	S	S	24.7	S
Van, insulated nonrefrigerated	S	40.5	S	S	43.8	S	S	16.4	S
Van, insulated refrigerated	13.6	13.0	19.6	15.5	15.1	25.3	7.6	7.7	12.2
Other	N	N	N	N	N	N	N	N	N
Not applicable ²	S	N	N	N	N	N	S	N	N
ANNUAL MILES									
Less than 5,000	5.2	6.9	10.6	7.0	8.7	13.0	4.8	5.5	6.9
5,000 to 9,999	7.9	8.8	11.4	8.1	9.1	11.6	1.9	2.1	2.8
10,000 to 19,999	6.1	6.8	8.5	6.3	7.0	8.6	1.5	1.6	2.2
20,000 to 29,999	8.5	9.9	13.2	8.5	9.9	13.5	1.2	1.3	1.8
30,000 to 49,999	8.7	10.0	12.6	8.7	10.0	12.8	1.4	1.6	2.1
50,000 to 74,999	29.1	9.4	45.1	30.1	9.2	49.1	1.4	1.1	1.9
75,000 or more	6.1	5.7	7.3	6.3	5.6	7.5	1.7	1.7	2.4
Not applicable ¹	21.7	43.8	246.2	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	19.0	18.3	19.9	27.1	28.7	57.5	21.4	25.2	63.7
50 miles or less	2.6	3.4	4.8	4.9	5.5	8.6	4.3	4.6	6.6
51 to 100 miles	7.2	7.3	7.5	8.4	8.7	9.3	6.1	6.2	9.1
101 to 200 miles	11.5	10.3	9.7	12.6	10.0	12.0	7.8	6.9	12.3
201 to 500 miles	39.6	8.7	32.5	35.3	7.3	32.7	5.4	6.4	9.5
501 miles or more	11.5	11.3	11.8	11.7	10.1	12.2	7.6	6.8	11.1
Not reported	9.1	43.8	988.3	10.1	N	N	8.4	N	N
Not applicable	21.7	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	S	N	N	S	N	N	S	N	N
Operated in Mexico	N	N	N	N	N	N	N	N	N
Operated within the home base state	3.5	N	N	10.4	N	N	7.4	N	N
Operated in states other than the home base state	7.8	N	N	8.0	N	N	4.8	N	N
Not reported	9.5	N	N	10.7	N	N	8.9	N	N
Not applicable ¹	21.7	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	5.4	N	N	9.2	N	N	4.9	N	N
7 to 11	5.8	N	N	7.6	N	N	6.4	N	N
2 to 6	6.8	N	N	12.0	N	N	10.8	N	N
1 or less	13.3	N	N	22.4	N	N	18.3	N	N
Vehicle not used	21.7	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	14.8	6.5	12.8	47.9	9.2	62.1	34.5	6.5	56.5
Medium	6.1	7.3	10.0	8.9	11.4	12.6	6.7	8.7	9.2
Light-heavy	7.5	10.1	16.3	14.1	15.6	21.8	11.9	11.8	13.4
Heavy-heavy	2.6	3.0	4.7	3.2	3.1	4.5	3.3	3.3	4.1
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	27.3	18.2	11.7	34.9	23.7	17.7	22.6	15.0	31.8
6,001 to 8,500	12.7	N	N	17.2	N	N	11.9	N	N
8,501 to 10,000	23.6	N	N	S	N	N	S	N	N
10,001 to 14,000	8.3	11.3	18.4	11.7	16.2	27.0	8.5	11.7	14.9
14,001 to 16,000	14.6	15.8	18.3	19.4	24.0	20.5	13.8	18.3	18.0
16,001 to 19,500	17.2	16.6	17.4	22.8	23.2	13.8	17.2	15.6	13.6
19,501 to 26,000	7.5	10.1	16.3	14.1	15.6	21.8	11.9	11.8	13.4
26,001 to 33,000	10.3	15.0	31.5	16.7	24.3	37.0	13.0	19.6	17.0
33,001 to 40,000	14.3	14.8	19.5	20.0	18.2	25.7	17.7	15.7	23.6
40,001 to 50,000	10.7	10.2	10.7	16.9	12.4	8.0	14.0	9.9	9.1
50,001 to 60,000	9.0	9.4	13.6	12.3	13.1	17.7	9.1	9.2	12.2
60,001 to 80,000	3.1	3.3	5.6	4.1	4.1	6.4	3.2	3.2	4.0
80,001 to 100,000	40.6	S	S	47.2	S	S	24.6	S	S
100,001 to 130,000	40.4	S	S	49.6	S	S	28.8	S	S
130,001 or more	N	N	N	N	N	N	N	N	N
TOTAL LENGTH (FEET)									
Less than 20.0	4.7	9.0	20.4	7.5	12.7	21.4	6.1	9.0	7.8
20.0 to 27.9	10.9	4.2	7.5	34.3	7.0	31.9	24.6	5.6	35.9
28.0 to 35.9	8.5	9.7	13.4	12.5	14.0	16.2	9.5	10.4	11.7
36.0 to 40.9	13.2	22.3	60.0	20.8	25.3	98.9	16.7	17.3	31.4
41.0 to 44.9	15.7	33.1	126.7	17.5	48.1	206.6	13.5	29.9	38.3
45.0 to 49.9	13.4	40.9	146.6	16.6	41.9	535.4	11.0	34.5	126.0
50.0 to 54.9	14.6	11.5	11.3	18.7	13.0	11.3	14.2	10.5	14.5
55.0 to 59.9	11.6	7.5	8.8	15.1	10.2	7.1	11.5	6.5	8.1
60.0 to 64.9	7.2	6.7	8.9	9.1	7.6	9.8	5.6	4.2	6.4
65.0 to 69.9	8.3	9.8	18.1	9.3	10.8	20.8	5.6	6.9	9.1
70.0 to 74.9	13.0	17.7	34.1	14.8	18.1	34.4	7.0	11.3	12.5
75.0 to 79.9	23.8	N	N	26.3	N	N	11.2	N	N
80.0 or more	S	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	8.2	8.1	12.4	11.8	9.6	12.1	10.3	8.1	9.7
5 to 6.9	4.1	4.5	5.7	4.7	4.2	5.8	4.4	4.5	6.1
7 to 8.9	7.8	7.4	7.6	11.3	9.9	8.5	9.0	7.7	9.6
9 to 10.9	8.0	8.2	9.3	14.2	11.3	13.0	12.1	8.0	12.8
11 to 12.9	10.6	12.6	17.1	16.6	21.1	31.3	13.0	17.0	24.1
13 to 14.9	18.5	21.5	29.1	22.8	32.2	37.4	14.9	24.2	26.2
15 or more	13.3	12.0	12.4	16.9	14.3	12.1	10.8	10.4	11.8
15 to 20.9	13.3	12.2	12.7	16.9	14.4	12.3	10.8	10.5	11.8
21 to 24.9	N	S	S	N	S	S	N	S	S
25 or more	N	S	S	N	S	S	N	S	S
Not reported	14.7	17.3	128.6	29.1	19.7	286.7	15.9	18.0	34.6
Not applicable ¹	21.7	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	S	N	N	S	N	N	S	N	N
2002	18.0	N	N	18.3	N	N	12.7	N	N
2001	12.8	N	N	13.5	N	N	9.5	N	N
2000	11.3	N	N	12.6	N	N	9.8	N	N
1999	23.8	N	N	31.3	N	N	9.6	N	N
1998	12.3	S	S	12.3	S	S	8.5	S	S
1997	11.5	12.6	14.6	12.3	12.3	15.4	9.1	9.6	13.6
1996	12.6	14.0	17.3	13.9	13.5	13.5	9.9	10.3	10.8
1995	10.3	10.7	12.4	11.4	10.5	8.5	9.2	7.4	7.7
1994	14.9	11.8	10.1	17.0	11.1	5.3	12.8	8.6	7.6
1993	13.9	13.3	12.8	16.1	11.9	6.8	10.9	10.1	7.5
Pre-1993	3.3	3.0	3.4	6.1	4.6	2.9	5.5	4.1	3.4
VEHICLE ACQUISITION									
New	6.7	4.2	8.6	11.2	4.8	14.8	5.7	4.0	7.8
Used	2.9	4.0	6.1	5.0	5.8	8.8	4.6	5.3	6.6
Not reported	15.6	9.4	6.1	19.4	9.0	4.7	16.5	6.8	11.7
LEASE CHARACTERISTICS									
Leased	6.5	N	N	6.9	N	N	5.2	N	N
Lessee	10.6	N	N	11.9	N	N	9.2	N	N
Vehicle only	10.8	N	N	12.0	N	N	9.2	N	N
Vehicle with driver	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Lessor	9.0	N	N	9.2	N	N	6.3	N	N
Vehicle only	10.2	N	N	10.6	N	N	7.2	N	N
Vehicle with driver	19.1	N	N	21.6	N	N	10.1	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	41.8	N	N	47.5	N	N	41.3	N	N
Not leased	5.2	N	N	13.5	N	N	9.1	N	N
Not reported	4.8	N	N	7.2	N	N	6.5	N	N
Length of leasing agreement:									
Leased	6.5	N	N	6.9	N	N	5.2	N	N
1 to 11 months	25.4	N	N	26.9	N	N	19.6	N	N
12 months or more	6.9	N	N	7.3	N	N	5.4	N	N
Not reported	S	N	N	S	N	N	S	N	N
Provisions of lease:									
Financing only	8.9	N	N	9.6	N	N	7.2	N	N
Full maintenance	10.1	N	N	10.3	N	N	6.5	N	N
Payment of taxes	9.5	N	N	9.9	N	N	6.7	N	N
Obtaining licenses and permits	9.5	N	N	9.7	N	N	6.8	N	N
Recordkeeping	12.7	N	N	12.9	N	N	8.7	N	N
Fuel contract	15.6	N	N	16.3	N	N	10.0	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	2.0	N	N	4.5	N	N	4.0	N	N
Motor carrier	6.1	N	N	6.4	N	N	4.8	N	N
Owner operator	8.2	N	N	9.0	N	N	6.3	N	N
Rental	38.8	N	N	43.5	N	N	6.9	N	N
Personal transportation	N	N	N	N	N	N	N	N	N
Not applicable ¹	21.7	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	6.6	N	N	7.1	N	N	4.9	N	N
Common	8.3	N	N	8.7	N	N	6.2	N	N
Not reported	16.7	N	N	18.7	N	N	13.4	N	N
Not applicable ³	3.7	N	N	13.1	N	N	9.9	N	N
Type of service:									
Truckload	5.1	5.5	9.6	5.6	5.5	8.9	4.0	3.8	4.9
Less-than truckload	13.6	16.3	22.5	15.1	18.8	27.3	10.7	11.2	16.6
Not reported	17.1	N	N	19.1	N	N	13.5	N	N
Not applicable ³	3.7	N	N	13.1	N	N	9.9	N	N
Source of hauls:									
Shippers or receivers	5.9	N	N	6.1	N	N	4.4	N	N
Brokers	12.8	N	N	14.3	N	N	7.7	N	N
Centralized markets or exchanges	29.5	N	N	37.1	N	N	22.7	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	12.4	N	N	15.2	N	N	11.5	N	N
Not applicable ³	3.7	N	N	13.1	N	N	9.9	N	N
HAZARDOUS MATERIALS CARRIED⁴									
Carrying hazardous materials	12.0	11.8	16.6	13.0	11.7	17.2	9.8	8.2	12.7
Not carrying hazardous materials	1.8	2.2	2.8	3.5	3.3	4.2	3.2	3.1	3.9
Not reported	9.2	9.3	10.2	12.1	12.2	13.2	10.2	10.0	14.1
Not applicable ⁵	29.9	N	N	43.4	N	N	15.4	N	N

See footnotes at end of table.

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

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

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	26.2	N	N	33.4	N	N	21.5	N	N
Air bag(s) (safety device only)	19.4	8.5	38.9	28.8	8.1	41.6	11.2	6.4	9.8
Air compressor (except air brakes)	10.1	N	N	11.8	N	N	9.8	N	N
Air-conditioning	6.1	3.9	9.1	8.7	3.6	11.2	3.9	3.2	4.8
Air springs	5.5	N	N	6.6	N	N	4.1	N	N
Antilock brake system	9.8	8.4	26.3	12.7	8.3	39.1	4.7	6.9	10.6
Collision warning system	28.9	N	N	29.5	N	N	21.8	N	N
Computerized drive train control unit	15.3	N	N	16.4	N	N	11.5	N	N
Crane	21.2	N	N	22.8	N	N	14.5	N	N
Electronic vehicle identification device	19.3	18.1	15.3	21.9	16.4	18.2	10.4	12.9	19.2
Engine retarder/brake	4.1	5.5	8.4	5.3	5.7	9.5	3.8	4.0	5.4
Front-wheel drive	N	N	N	N	N	N	N	N	N
Hoist	7.2	N	N	11.1	N	N	9.7	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	15.9	N	N	17.5	N	N	11.9	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	13.9	N	N	19.1	N	N	13.2	N	N
Mounting bar for snowplow	25.8	N	N	34.1	N	N	24.2	N	N
Navigational system	S	29.8	S	S	34.4	S	S	17.2	S
Power take-off	5.0	N	N	6.9	N	N	6.2	N	N
Radial tires	2.6	2.7	3.3	3.6	3.2	4.0	3.2	2.9	4.1
Reflective material in addition to those required by law	7.3	6.1	6.3	9.7	6.3	5.3	8.2	5.5	6.8
Road speed governor	5.1	5.3	6.5	5.6	5.4	7.2	4.6	4.7	7.0
Toolbox	5.8	N	N	8.1	N	N	6.8	N	N
Trip recorder or on-board computer with communication capabilities	14.7	N	N	15.0	N	N	11.3	N	N
Trip recorder or on-board computer without communication capabilities	14.1	N	N	15.5	N	N	10.7	N	N
Vehicle control aids for handicapped drivers	N	N	N	N	N	N	N	N	N
Wheelchair lift	N	N	N	N	N	N	N	N	N
Winch	15.3	N	N	19.8	N	N	14.8	N	N
Transmission type:									
Automatic	5.3	N	N	7.7	N	N	5.8	N	N
Manual	4.3	N	N	9.3	N	N	5.9	N	N
Semiautomated manual	26.3	N	N	28.7	N	N	25.9	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	13.3	N	N	14.0	N	N	11.6	N	N
Braking system:									
Hydraulic (standard)	8.6	6.9	17.1	29.8	11.4	66.5	22.3	9.4	32.5
Hydraulic with power assist	6.2	5.7	6.0	9.0	8.5	6.6	6.8	6.4	7.1
Air	2.7	3.2	4.3	3.7	3.4	4.7	3.5	3.2	4.3
Other	N	30.8	N	N	35.2	N	N	21.3	N
Not reported	13.2	N	N	13.5	N	N	10.4	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	8.6	4.2	8.0	38.2	7.2	41.7	30.6	5.8	39.8
Diesel	2.3	3.0	4.6	3.0	3.2	4.5	2.9	3.0	3.5
Natural gas	N	N	N	N	N	N	N	N	N
Propane	49.8	N	N	S	N	N	S	N	N
Alcohol fuels	N	N	N	N	N	N	N	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹	21.7	N	N	S	N	N	S	N	N
Cylinders ⁶ :									
4 cylinders	14.3	17.5	44.1	17.1	24.0	52.3	10.7	16.4	17.8
6 cylinders	5.8	3.6	8.5	8.7	3.5	10.7	4.2	3.3	4.9
8 cylinders	3.7	4.3	5.5	7.2	7.6	7.5	6.2	6.2	6.5
Other	8.3	7.3	8.1	12.8	10.1	8.5	11.2	9.3	10.3
Cubic inch displacement ⁶ :									
Gasoline fuel	8.6	4.2	8.0	38.2	7.2	41.7	30.6	5.8	39.8
Less than 200	S	S	S	S	S	S	S	S	S
200 to 299	S	26.3	S	S	33.1	S	S	20.2	S
300 to 349	25.5	37.9	78.3	35.0	S	S	24.0	S	S
350 to 399	7.4	7.6	8.7	13.2	10.9	11.2	11.0	7.8	10.8
400 or more	13.6	13.2	13.7	17.5	17.4	14.4	10.9	11.5	12.7
Not available	11.5	10.7	10.8	18.6	17.2	13.7	16.2	13.7	16.8
Diesel fuel	2.3	3.0	4.6	3.0	3.2	4.5	2.9	3.0	3.5
Less than 400	9.9	13.3	21.2	13.5	18.3	23.5	9.4	12.7	12.8
400 to 599	5.9	9.2	17.5	8.9	12.4	18.5	6.8	8.2	8.0
600 to 799	4.9	6.2	8.8	6.3	7.1	9.7	4.6	5.6	6.7
800 or more	4.9	4.7	7.3	6.6	5.6	8.4	4.6	3.7	5.3
Not available	8.8	7.6	9.8	12.9	10.4	14.6	11.3	8.8	14.9
Other fuel	42.0	43.0	50.6	S	S	S	S	S	S
Less than 400	S	S	S	S	S	S	S	S	S
400 or more	S	S	S	S	S	S	S	S	S
Not available	S	S	S	S	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹	21.7	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

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	6.3	N	N	21.9	N	N	16.4	N	N
Truck stop	5.1	N	N	5.8	N	N	4.3	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	4.5	N	N	5.7	N	N	4.7	N	N
Other company's/contractor's facility not open to the public	19.0	N	N	21.8	N	N	18.0	N	N
Other	S	N	N	S	N	N	S	N	N
Not reported	20.0	N	N	23.5	N	N	15.1	N	N
Not applicable ¹	21.7	N	N	S	N	N	S	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	23.8	S	S	S	S	S	S	S	S
Company-owned maintenance facility	6.8	4.3	9.1	12.2	4.8	16.0	6.6	4.2	8.4
General repair business or private mechanic	4.7	6.4	10.6	6.1	7.6	12.3	5.3	6.6	7.9
Dealership service department	8.3	10.5	15.0	9.6	10.4	20.9	7.0	8.3	14.3
Leasing company	25.0	27.1	39.3	26.0	28.1	29.4	15.7	10.2	13.5
Individual not employed/paid by any maintenance type facility:									
Other	5.3	5.2	5.9	8.2	7.2	7.1	7.6	6.7	8.3
Not reported	N	44.2	N	N	40.3	N	N	23.2	N
Not reported	23.7	11.0	5.3	28.1	10.9	1.7	17.6	8.8	5.5
Not applicable ¹	21.7	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	4.0	20.0	574.0	9.7	25.4	901.5	6.5	23.0	28.2
Company-owned maintenance facility	11.9	6.9	4.3	13.7	7.5	3.9	11.1	5.8	10.1
General repair business or private mechanic	10.1	6.8	4.7	12.2	8.9	7.7	10.0	7.4	16.5
Dealership service department	12.4	7.7	5.0	13.7	8.2	6.4	10.7	6.5	14.6
Leasing company	S	33.3	S	S	33.1	S	S	10.8	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	32.0	11.1	5.3	33.2	11.1	4.2	26.8	7.7	21.5
Other	15.7	13.2	11.0	20.3	19.7	22.7	18.1	16.9	37.0
Not reported	N	40.5	N	N	S	S	N	S	S
Not reported	S	5.1	S	S	6.3	S	S	5.6	S
Not applicable ¹	21.7	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	4.0	2.3	4.8	15.9	4.9	17.9	12.3	4.4	13.6
3 axles	4.6	2.5	5.4	19.1	5.7	21.8	15.0	5.1	16.8
4 axles	8.5	9.6	14.7	14.2	14.6	19.8	10.9	10.4	12.8
5 axles or more	16.4	11.6	10.1	20.8	13.3	11.0	12.8	8.6	13.6
Not reported	15.7	N	N	18.3	N	N	9.5	N	N
Combinations	S	N	S	S	N	S	S	N	S
Single-unit trucks with trailer:									
3 axles	3.2	3.4	5.2	3.7	3.4	4.9	3.6	3.5	4.4
4 axles	13.1	18.3	35.6	18.4	22.6	25.9	12.6	17.0	11.8
5 axles or more	35.1	49.8	90.4	40.1	S	S	19.5	S	S
Not reported	16.5	27.3	70.2	22.7	33.9	68.8	15.2	23.4	21.4
Truck-tractors with single trailer:	30.9	28.0	26.4	39.6	29.3	7.0	32.3	25.3	9.2
3 axles	S	N	N	S	N	N	S	N	N
4 axles	2.6	2.8	4.0	3.8	3.5	5.1	3.1	3.1	4.1
5 axles or more	28.9	23.9	29.4	30.7	24.7	27.2	22.4	20.1	26.5
Not reported	26.4	14.1	7.0	34.7	17.0	5.4	27.9	10.7	17.9
Truck-tractors with double trailers:	2.9	2.8	4.5	4.2	3.8	5.8	3.1	3.0	3.9
5 axles	15.5	N	N	18.6	N	N	12.1	N	N
6 axles	49.7	47.2	30.8	S	47.2	S	S	29.5	S
7 axles	N	S	S	N	S	S	N	S	S
8 axles or more	N	S	S	N	S	S	N	S	S
Not reported	N	S	S	N	S	S	N	S	S
Truck-tractors with triple trailers:	N	N	N	N	N	N	N	N	N
7 axles	N	N	N	N	N	N	N	N	N
8 axles	N	N	N	N	N	N	N	N	N
9 axles	N	N	N	N	N	N	N	N	N
10 axles or more	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Driving axles:									
1	4.2	2.2	4.7	17.2	5.1	16.3	13.5	4.6	13.0
2	2.6	3.2	5.2	3.5	3.7	5.9	3.3	3.3	4.3
3 or more	31.3	21.1	13.8	40.2	23.2	3.7	25.2	18.2	6.8
Not reported	S	N	S	S	N	S	S	N	S
Total liftable axles and locations:									
None	2.9	4.8	16.4	7.3	5.4	23.6	4.8	4.9	6.1
1	15.6	18.1	25.4	21.8	20.7	34.9	15.3	16.1	24.2
Forward of the drive axle	20.3	N	N	27.9	N	N	18.4	N	N
Below the chassis	36.2	N	N	47.8	N	N	39.8	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	37.5	N	N	45.1	N	N	25.1	N	N
2 or more	15.9	20.5	47.4	18.4	24.2	42.9	9.3	12.9	12.3
Forward of the drive axle	21.4	N	N	24.8	N	N	12.6	N	N
Below the chassis	33.0	N	N	39.7	N	N	22.2	N	N
Beyond the chassis	35.0	N	N	38.3	N	N	15.5	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not reported	44.4	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

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	2.9	4.8	16.4	7.3	5.4	23.6	4.8	4.9	6.1
1	15.6	18.1	25.4	21.8	20.7	34.9	15.3	16.1	24.2
0 braking	36.3	N	N	S	N	N	S	N	N
1 braking	17.7	N	N	23.9	N	N	15.4	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	15.9	20.5	47.4	18.4	24.2	42.9	9.3	12.9	12.3
0 braking	N	N	N	N	N	N	N	N	N
1 braking	N	N	N	N	N	N	N	N	N
2 or more braking	15.9	N	N	18.4	N	N	9.3	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	44.4	N	N	S	N	N	S	N	N
CAB TYPE									
Conventional cab	3.0	2.2	4.6	7.5	3.2	9.2	4.9	3.0	5.4
With sleeper	4.6	N	N	5.5	N	N	3.0	N	N
Without sleeper	3.6	N	N	12.6	N	N	9.4	N	N
Not reported	25.4	N	N	27.4	N	N	10.3	N	N
Cab over engine	8.1	9.0	10.0	11.6	10.6	12.5	9.6	8.5	12.3
With sleeper	17.6	N	N	29.5	N	N	23.9	N	N
Without sleeper	9.3	N	N	12.1	N	N	9.4	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	40.5	19.7	3.6	S	22.5	S	S	10.3	S
Cab beside engine	N	S	S	N	S	S	N	S	S
Not reported	N	N	N	N	N	N	N	N	N

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

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

Table 4. Trucks by Vehicle Size: 2002

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
Total	3 499.3	3 276.5	63.3	41.0	118.5	X
Coefficient of variation (percent) .....	.6	.7	12.1	7.5	2.6	X
BUSINESS¹						
For-hire transportation or warehousing	58.1	S	6.3	4.1	33.4	17.1
Vehicle leasing or rental	16.8	S	S	1.2	7.7	41.2
Agriculture, forestry, fishing, or hunting	67.1	37.8	7.0	7.2	15.1	23.0
Mining	2.5	S	V	S	1.6	26.9
Utilities	28.4	S	2.1	1.0	2.6	41.8
Construction	202.4	157.6	12.6	10.6	21.6	15.0
Manufacturing	26.1	S	1.4	2.9	7.3	37.4
Wholesale trade	42.0	29.8	4.4	2.7	5.1	32.4
Retail trade	51.0	40.4	3.7	2.0	4.9	30.0
Information services	S	S	1.6	S	V	S
Waste management, landscaping, or administrative/support services	19.6	4.0	4.8	1.6	9.2	10.9
Arts, entertainment, or recreation services	S	V	S	S	S	S
Accommodation or food services	S	S	1.2	V	1.5	S
Other services	48.0	42.9	3.1	S	1.0	34.7
Personal transportation	2 802.7	2 801.8	S	V	V	1.9
Not reported	45.3	23.7	S	4.0	5.9	30.3
Not applicable ²	47.6	43.8	S	1.5	1.2	34.9
BODY TYPE						
Single-unit trucks	3 435.1	3 276.5	63.3	41.0	54.2	.7
Pickup	1 431.7	1 423.9	S	V	V	1.0
Minivan	610.3	610.3	V	V	V	8.6
Other light vans	310.0	310.0	V	V	V	13.4
Sport utility	881.7	881.7	V	V	V	6.4
Armored	V	V	V	V	V	N
Beverage	1.6	S	S	S	S	40.8
Concrete mixer	2.8	V	V	V	2.8	19.9
Concrete pumper	V	V	V	V	V	N
Crane .....	.8	V	S	S	S	49.8
Curtainside	S	V	V	V	S	S
Dump	51.1	6.2	14.9	11.2	18.7	6.3
Flatbed, stake, or platform	41.5	11.7	10.7	8.2	10.9	7.3
Low boy	V	V	V	V	V	N
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Service, utility	8.0	1.6	3.2	2.6	S	18.9
Service, other	12.0	4.9	3.9	2.5	S	15.1
Street sweeper .....	.8	V	.8	V	V	49.8
Tank, dry bulk .....	.6	V	V	V	.6	44.5
Tank, liquids or gases	5.1	V	V	1.5	3.5	22.2
Tow/Wrecker	6.2	S	2.5	1.5	1.8	20.5
Trash, garbage, or recycling	4.2	V	S	V	3.9	19.8
Vacuum .....	.6	V	V	V	.6	44.4
Van, basic enclosed	32.5	S	7.1	7.6	4.6	22.2
Van, insulated nonrefrigerated	S	V	S	V	V	S
Van, insulated refrigerated	3.3	S	S	1.2	1.4	28.0
Van, open top	4.7	S	S	1.3	2.7	24.1
Van, step, walk-in, or multistop	20.8	10.5	8.8	1.5	V	11.2
Van, other	4.6	1.6	1.8	1.2	V	24.8
Other	V	V	V	V	V	N
Truck-tractors	64.2	V	V	V	64.2	2.6
Automobile carrier	S	V	V	V	S	S
Beverage	1.5	V	V	V	1.5	39.5
Curtainside	S	V	V	V	S	S
Dump	6.6	V	V	V	6.6	12.6
Flatbed, stake, or platform	12.8	V	V	V	12.8	9.1
Livestock	S	V	V	V	S	S
Low boy	2.5	V	V	V	2.5	21.0
Mobile home toter	S	V	V	V	S	S
Open top	2.2	V	V	V	2.2	22.6
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Tank, dry bulk	1.8	V	V	V	1.8	24.7
Tank, liquids or gases	3.4	V	V	V	3.4	17.8
Van, basic enclosed	25.7	V	V	V	25.7	5.7
Van, drop-frame .....	.6	V	V	V	.6	44.5
Van, insulated nonrefrigerated	S	V	V	V	S	S
Van, insulated refrigerated	5.7	V	V	V	5.7	13.6
Other	V	V	V	V	V	N
Not applicable ³	S	V	V	V	S	S
ANNUAL MILES						
Less than 5,000	621.5	557.7	25.6	14.9	23.3	9.0
5,000 to 9,999	722.0	696.1	7.4	7.0	11.6	8.4
10,000 to 19,999	1 568.9	1 527.4	15.8	7.7	17.9	4.7
20,000 to 29,999	337.2	312.3	8.0	5.2	11.6	12.9
30,000 to 49,999	132.6	111.2	4.7	2.3	14.4	20.2
50,000 to 74,999	30.7	S	S	1.5	14.6	31.6
75,000 or more	38.8	S	S	S	23.7	25.0
Not applicable ²	47.6	43.8	S	1.5	1.2	34.9
PRIMARY RANGE OF OPERATION						
Off-the-road	14.1	S	S	1.2	2.6	49.2
50 miles or less	2 508.4	2 384.0	38.6	28.3	57.4	2.7
51 to 100 miles	322.5	292.5	8.9	2.8	18.3	13.1
101 to 200 miles	80.1	68.8	1.4	S	8.9	26.6
201 to 500 miles	38.1	27.5	S	S	9.4	35.8
501 miles or more	78.0	68.4	S	S	8.4	27.4
Not reported	410.4	382.2	S	4.6	12.2	11.7
Not applicable ²	47.6	43.8	S	1.5	1.2	34.9

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Vehicle size					Coefficient of variation of total (percent)
	Total	Light	Medium	Light-heavy	Heavy-heavy	
PRIMARY JURISDICTION						
Operated in Canada.....	S	V	V	S	S	S
Operated in Mexico.....	V	V	V	V	V	N
Operated within the home base state.....	3 042.3	2 863.9	58.1	32.6	87.7	1.7
Operated in states other than the home base state.....	88.9	69.0	S	1.6	17.5	24.0
Not reported.....	320.1	299.8	3.4	4.9	11.9	13.3
Not applicable ²	47.6	43.8	S	1.5	1.2	34.9
MONTHS OPERATED						
12.....	2 320.8	2 204.9	31.3	16.5	68.1	3.1
7 to 11.....	548.3	501.7	8.7	10.6	27.2	9.7
2 to 6.....	510.8	471.1	11.8	8.9	19.0	10.2
1 or less.....	71.8	55.0	S	3.5	2.9	26.7
Vehicle not used.....	47.6	43.8	S	1.5	1.2	34.9
AVERAGE WEIGHT (POUNDS)						
Less than 6,001.....	2 566.6	2 566.6	N	N	N	2.4
6,001 to 8,500.....	570.3	570.3	N	N	N	9.8
8,501 to 10,000.....	139.6	139.6	N	N	N	19.8
10,001 to 14,000.....	41.3	N	41.3	N	N	17.9
14,001 to 16,000.....	12.9	N	12.9	N	N	14.3
16,001 to 19,500.....	9.1	N	9.1	N	N	17.2
19,501 to 26,000.....	41.0	N	N	41.0	N	7.5
26,001 to 33,000.....	23.4	N	N	N	23.4	10.3
33,001 to 40,000.....	10.3	N	N	N	10.3	14.3
40,001 to 50,000.....	11.5	N	N	N	11.5	10.7
50,001 to 60,000.....	15.0	N	N	N	15.0	9.0
60,001 to 80,000.....	56.9	N	N	N	56.9	3.1
80,001 to 100,000.....	.7	N	N	N	.7	40.6
100,001 to 130,000.....	.7	N	N	N	.7	40.4
130,001 or more.....	V	N	N	N	V	N
TOTAL LENGTH (FEET)						
Less than 20.0.....	3 037.2	2 985.5	26.2	13.6	11.9	1.5
20.0 to 27.9.....	323.3	272.2	15.2	14.7	21.1	12.5
28.0 to 35.9.....	37.0	S	7.5	7.6	12.5	19.7
36.0 to 40.9.....	22.3	S	3.7	3.2	6.3	31.9
41.0 to 44.9.....	9.2	S	3.1	S	5.6	15.7
45.0 to 49.9.....	6.3	V	S	V	6.1	13.4
50.0 to 54.9.....	S	V	S	S	6.1	S
55.0 to 59.9.....	9.9	V	S	S	8.7	11.6
60.0 to 64.9.....	17.7	V	V	V	17.7	7.2
65.0 to 69.9.....	14.6	V	V	S	14.0	8.3
70.0 to 74.9.....	6.2	V	V	V	6.2	13.0
75.0 to 79.9.....	1.9	V	V	V	1.9	23.8
80.0 or more.....	S	V	V	V	S	S
MILES PER GALLON						
Less than 5.....	24.6	3.0	1.5	3.2	16.9	8.2
5 to 6.9.....	82.1	S	5.7	7.0	53.4	12.2
7 to 8.9.....	43.4	S	7.1	8.3	14.0	17.0
9 to 10.9.....	194.9	167.6	14.9	6.4	6.0	16.4
11 to 12.9.....	248.5	226.9	15.2	3.2	3.2	15.2
13 to 14.9.....	282.5	277.8	3.0	1.2	S	14.6
15 or more.....	1 988.3	1 978.1	4.9	3.6	1.8	3.7
15 to 20.9.....	1 579.6	1 569.3	4.9	3.6	1.8	4.7
21 to 24.9.....	272.1	272.1	V	V	V	15.1
25 or more.....	136.7	136.7	V	V	V	21.8
Not reported.....	587.5	548.4	10.0	6.6	21.5	9.4
Not applicable ²	47.6	43.8	S	1.5	1.2	34.9
MODEL YEAR						
2003.....	S	V	V	V	S	S
2002.....	189.9	184.2	1.3	1.2	3.2	18.1
2001.....	312.2	300.9	3.6	1.8	5.8	13.8
2000.....	273.9	260.7	2.4	2.5	8.3	14.7
1999.....	270.8	249.9	6.3	2.5	12.1	14.6
1998.....	300.5	289.7	3.3	1.2	6.3	14.0
1997.....	248.7	235.0	4.2	2.4	7.1	15.4
1996.....	168.8	158.1	2.0	S	8.1	18.9
1995.....	258.0	241.7	3.1	2.5	10.8	15.0
1994.....	193.9	186.0	2.3	1.8	3.7	17.8
1993.....	181.1	172.4	1.8	1.6	5.3	18.2
Pre-1993.....	1 101.1	997.9	32.9	22.9	47.4	6.1
VEHICLE ACQUISITION						
New.....	1 396.4	1 303.6	25.3	15.7	51.8	5.2
Used.....	1 949.2	1 827.3	35.2	24.1	62.5	3.8
Not reported.....	153.8	145.6	2.8	1.2	4.1	19.9
LEASE CHARACTERISTICS						
Leased.....	242.4	208.3	4.3	5.5	24.3	14.9
Lessees.....	207.2	192.7	3.2	2.1	9.2	16.8
Vehicle only.....	15.9	1.9	2.9	2.1	9.0	10.8
Vehicle with driver.....	S	V	V	V	S	S
Not reported.....	S	V	V	V	S	S
Not applicable ⁴	190.8	190.8	V	V	V	18.2
Lessors.....	20.3	1.7	S	3.4	14.4	9.0
Vehicle only.....	17.2	1.5	S	3.4	11.6	10.2
Vehicle with driver.....	2.9	S	V	V	2.8	19.1
Not reported.....	S	V	V	V	V	S
Not applicable ⁴	S	V	V	V	V	N
Not leased.....	S	S	S	V	.7	S
Not reported.....	1 895.8	1 768.7	38.1	23.9	65.2	4.0
Not reported.....	1 361.1	1 299.5	20.9	11.6	29.0	5.4

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
LEASE CHARACTERISTICS—Con.						
Length of leasing agreement:						
Leased	242.4	208.3	4.3	5.5	24.3	14.9
1 to 11 months	2.7	S	V	S	1.7	25.4
12 months or more	34.1	3.1	3.7	4.9	22.3	6.9
Not reported	S	V	S	V	S	S
Not applicable ⁴	204.7	204.7	V	V	V	17.6
Provisions of lease ⁵ :						
Financing only	22.2	3.0	3.2	3.1	13.0	8.9
Full maintenance	16.3	1.3	S	2.8	11.9	10.1
Payment of taxes	17.4	1.4	.5	2.8	12.8	9.5
Obtaining licenses and permits	18.4	1.4	1.0	2.8	13.3	9.5
Recordkeeping	10.9	S	S	2.1	7.4	12.7
Fuel contract	6.9	S	S	1.2	5.0	15.6
PRIMARY OPERATOR CLASSIFICATION						
Private	564.2	414.7	51.5	33.7	64.2	8.5
Motor carrier	38.1	.9	6.3	2.6	28.4	6.1
Owner operator	28.9	S	2.6	2.0	16.2	24.3
Rental	17.9	S	S	1.2	8.4	38.8
Personal transportation	2 802.7	2 801.8	S	V	V	1.9
Not applicable ²	47.6	43.8	S	1.5	1.2	34.9
For-hire characteristics:						
Type of carrier:						
Contract	31.3	1.0	3.6	2.4	24.4	6.6
Common	21.4	S	3.4	S	16.7	8.3
Not reported	7.5	.6	1.8	1.5	3.6	16.7
Not applicable ⁶	3 439.1	3 274.3	54.4	36.5	73.9	.7
Type of service:						
Truckload	41.5	S	2.7	2.1	35.9	5.1
Less-than truckload	11.8	S	4.6	1.2	5.2	13.6
Not reported	6.9	.7	1.5	1.2	3.5	17.1
Not applicable ⁶	3 439.1	3 274.3	54.4	36.5	73.9	.7
Source of hauls:						
Shippers or receivers	38.4	1.3	5.7	1.5	29.9	5.9
Brokers	7.0	S	S	S	6.4	12.8
Centralized markets or exchanges	2.0	V	S	S	1.2	29.5
Other	V	V	V	V	V	N
Not reported	12.9	.8	2.5	2.5	7.1	12.4
Not applicable ⁶	3 439.1	3 274.3	54.4	36.5	73.9	.7
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	11.3	V	S	S	10.1	12.0
Not carrying hazardous materials	204.6	35.1	46.8	32.5	90.1	1.8
Not reported	26.3	6.4	6.1	5.1	8.6	9.2
Not applicable ⁸	3 257.2	3 235.0	S	2.8	9.6	.7
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	S	S	1.2	1.6	1.2	S
Air bag(s) (safety device only)	1 907.3	1 883.0	10.1	2.6	11.7	3.8
Air compressor (except air brakes)	16.5	1.2	2.0	2.4	10.9	10.1
Air-conditioning	2 699.6	2 584.2	26.6	11.9	76.9	2.2
Air springs	33.3	S	S	2.3	30.8	5.5
Antilock brake system	2 017.5	1 956.1	14.9	7.5	39.0	3.6
Collision warning system	3.1	S	1.8	S	.7	28.9
Computerized drive train control unit	462.5	455.9	1.8	V	4.9	11.0
Crane	5.2	S	S	1.5	2.8	21.2
Electronic vehicle identification device	3.0	V	V	V	3.0	19.3
Engine retarder/brake	43.6	1.8	1.1	S	40.2	4.1
Front-wheel drive	1 316.8	1 316.8	V	V	V	5.5
Hoist	41.5	4.3	9.7	9.6	17.9	7.2
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	5.9	V	S	S	4.7	15.9
Internet access	S	V	S	V	S	S
Lift gate	13.5	2.8	3.9	4.7	2.1	13.9
Mounting bar for snowplow	39.1	35.6	1.8	S	S	38.9
Navigational system	S	V	V	V	S	S
Power take-off	66.6	3.9	9.7	11.3	41.7	5.0
Radial tires	2 280.8	2 149.7	31.7	20.4	79.0	3.2
Reflective material in addition to those required by law	36.7	3.2	7.3	7.5	18.7	7.3
Road speed governor	54.9	1.9	6.1	7.3	39.6	5.1
Toolbox	215.8	166.8	15.9	10.6	22.6	14.7
Trip recorder or on-board computer with communication capabilities	124.4	116.4	2.1	S	5.0	22.2
Trip recorder or on-board computer without communication capabilities	593.2	585.8	1.5	V	5.8	9.6
Vehicle control aids for handicapped drivers	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	S
Winch	30.3	S	2.9	2.1	3.9	39.1
Transmission type:						
Automatic	2 686.7	2 634.3	32.5	10.0	10.0	2.2
Manual	719.8	562.1	28.7	27.9	101.1	7.4
Semiautomated manual	2.8	V	S	S	2.1	26.3
Automated manual	S	S	V	V	S	S
Not reported	76.3	66.7	2.0	2.6	5.1	26.6
Braking system:						
Hydraulic (standard)	90.1	30.3	31.9	16.0	12.0	8.6
Hydraulic with power assist	54.2	16.7	18.2	11.9	7.3	6.2
Air	108.4	.8	3.1	10.7	93.8	2.7
Other	V	V	V	V	V	N
Not reported	12.9	2.8	2.4	2.5	5.3	13.2
Not applicable ¹⁰	3 233.7	3 225.9	S	V	V	.7

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	3 197.1	3 136.6	36.5	14.4	9.7	1.1
Diesel	231.5	74.4	25.8	24.5	106.8	8.9
Natural gas	V	V	V	V	V	N
Propane	1.2	V	V	S	S	49.8
Alcohol fuels	V	V	V	V	V	N
Electricity	V	V	V	V	V	N
Combination	S	S	V	V	V	S
Other	V	V	V	V	V	N
Not reported	1.0	.9	V	V	S	33.0
Not applicable ²	47.6	43.8	S	1.5	1.2	34.9
Cylinders ¹¹ :						
4 cylinders	462.7	458.5	2.8	S	.7	11.1
6 cylinders	1 796.4	1 678.5	8.0	16.9	92.9	3.9
8 cylinders	1 164.3	1 088.0	45.8	18.0	12.6	5.7
Other	75.9	51.5	6.8	5.3	12.3	20.3
Cubic inch displacement ¹¹ :						
Gasoline fuel	3 197.1	3 136.6	36.5	14.4	9.7	1.1
Less than 200	803.5	802.9	V	S	V	8.0
200 to 299	1 287.1	1 286.5	S	V	V	5.4
300 to 349	530.1	527.7	1.8	S	V	10.2
350 to 399	449.7	426.4	13.0	5.5	4.9	10.8
400 or more	83.8	65.7	15.5	1.8	S	25.5
Not available	42.8	27.4	5.6	5.8	4.0	23.1
Diesel fuel	231.5	74.4	25.8	24.5	106.8	8.9
Less than 400	50.3	33.1	9.2	5.3	2.6	27.3
400 to 599	93.3	39.7	15.8	16.7	21.0	16.7
600 to 799	37.2	V	S	S	36.0	4.9
800 or more	32.8	V	S	S	32.6	4.9
Not available	18.0	1.5	S	1.2	14.7	8.6
Other fuel	S	S	V	S	S	S
Less than 400	S	S	V	S	V	S
400 or more	S	V	V	V	V	S
Not available	S	V	V	V	V	S
Not reported	1.0	.9	V	V	S	33.0
Not applicable ²	47.6	43.8	S	1.5	1.2	34.9
REFUELING LOCATION						
Gas station	3 128.0	3 040.5	39.1	17.8	30.6	1.4
Truck stop	78.9	36.0	1.8	3.4	37.6	19.4
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	101.0	29.3	12.5	15.2	44.0	12.2
Other company's/contractor's facility not open to the public	S	S	S	S	3.0	S
Other	S	V	V	S	V	S
Not reported	124.7	112.5	S	2.1	2.0	22.1
Not applicable ²	47.6	43.8	S	1.5	1.2	34.9
MAINTENANCE⁵						
General maintenance performed by:						
None performed	100.8	98.5	1.2	S	.8	25.0
Company-owned maintenance facility	312.3	216.2	21.2	13.2	61.8	11.6
General repair business or private mechanic	1 334.4	1 274.3	15.5	11.3	33.3	5.4
Dealership service department	773.2	748.1	6.4	5.0	13.6	8.0
Leasing company	3.2	S	S	S	2.0	25.0
Individual not employed/paid by any maintenance type facility	1 458.4	1 404.7	16.1	12.2	25.4	5.0
Other	V	V	V	V	V	N
Not reported	109.4	98.5	S	1.5	1.3	23.7
Not applicable ²	47.6	43.8	S	1.5	1.2	34.9
Extensive repairs performed by:						
None performed	2 728.2	2 563.4	49.2	27.7	88.0	2.3
Company-owned maintenance facility	62.5	49.1	3.4	2.6	7.4	28.8
General repair business or private mechanic	191.1	175.8	3.1	2.5	9.8	17.4
Dealership service department	163.3	150.6	3.7	2.5	6.5	19.1
Leasing company	S	V	S	V	S	S
Component distributorship (engine, transmission, body, etc.)	S	S	S	S	.8	S
Individual not employed/paid by any repair type facility	201.7	194.2	1.6	1.5	4.4	17.4
Other	V	V	V	V	V	N
Not reported	27.4	27.3	V	V	S	49.5
Not applicable ²	47.6	43.8	S	1.5	1.2	34.9
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	3 391.9	3 253.2	50.6	38.8	49.4	.8
2 axles	3 367.2	3 252.6	50.0	37.8	28.9	.8
3 axles	15.7	S	S	1.0	14.0	8.5
4 axles	4.0	V	V	V	4.0	16.4
5 axles or more	4.4	V	V	V	4.4	15.7
Not reported	.7	.5	S	V	S	40.5
Combinations	107.4	S	S	2.3	69.0	12.9
Single-unit trucks with trailer	43.5	S	S	2.3	5.2	31.5
3 axles	S	S	S	V	S	S
4 axles	24.5	S	4.2	1.5	3.2	40.0
5 axles or more	S	V	S	S	1.0	S
Not reported	S	V	S	V	V	S
Truck-tractors with single trailer	63.4	V	V	V	63.4	2.6
3 axles	2.5	V	V	V	2.5	28.9
4 axles	2.0	V	V	V	2.0	26.4
5 axles or more	53.6	V	V	V	53.6	2.9
Not reported	5.4	V	V	V	5.4	15.5
Truck-tractors with double trailers	.5	V	V	V	.5	49.7
5 axles	V	V	V	V	V	N
6 axles	S	V	V	V	S	S
7 axles	V	V	V	V	V	N
8 axles or more	S	V	V	V	S	S
Not reported	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	2 093.3	1 956.7	59.2	39.0	38.4	3.5
2	1 404.1	1 319.4	4.0	2.0	78.6	5.2
3 or more	1.2	V	V	V	1.2	31.3
Not reported .....	.8	.5	S	V	S	37.4
Total liftable axles and locations ¹² :						
None	254.7	50.6	55.2	40.7	108.2	2.9
1	6.1	V	S	S	5.4	15.6
Forward of the drive axle	3.8	V	V	S	3.5	20.3
Below the chassis	1.2	V	S	V	.9	36.2
Beyond the chassis	S	V	V	V	S	S
Not reported .....	.8	V	V	V	.8	37.5
2 or more	4.3	V	V	V	4.3	15.9
Forward of the drive axle	2.4	V	V	V	2.4	21.4
Below the chassis	1.0	V	V	V	1.0	33.0
Beyond the chassis .....	.9	V	V	V	.9	35.0
Not reported	S	V	V	V	S	S
Not reported .....	.6	V	V	V	.6	44.4
Not applicable ¹⁰	3 233.7	3 225.9	S	V	V	.7
Total liftable axles and number of braking axles:						
None	254.7	50.6	55.2	40.7	108.2	2.9
1	6.1	V	S	S	5.4	15.6
0 braking	1.2	V	V	V	1.2	36.3
1 braking	4.7	V	S	S	4.1	17.7
Not reported	S	V	V	V	S	S
2 or more	4.3	V	V	V	4.3	15.9
0 braking	V	V	V	V	V	N
1 braking	V	V	V	V	V	N
2 or more braking	4.3	V	V	V	4.3	15.9
Not reported	V	V	V	V	V	N
Not reported .....	.6	V	V	V	.6	44.4
Not applicable ¹⁰	3 233.7	3 225.9	S	V	V	.7
CAB TYPE						
Conventional cab	242.6	47.4	47.8	38.0	109.4	3.0
With sleeper	33.0	V	V	V	33.0	4.6
Without sleeper	207.9	47.4	47.8	38.0	74.8	3.6
Not reported	1.7	V	V	V	1.7	25.4
Cab over engine	22.3	3.2	7.8	3.0	8.4	8.1
With sleeper	3.5	V	V	V	3.5	17.6
Without sleeper	18.5	3.2	7.8	3.0	4.5	9.3
Not reported	S	V	V	V	S	S
Cab forward of engine .....	.7	V	V	V	.7	40.5
Cab beside engine	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not applicable ¹⁰	3 233.7	3 225.9	S	V	V	.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.

³Truck-tractors not in use.

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

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

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

⁷Distributed miles data are available in Table 8.

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

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

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

¹¹Data were derived from administrative records.

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

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

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

Table 5. Trucks by Truck Type: 2002

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

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
Total	3 499.3	3 391.9	107.4	43.5	63.4	.5	V	X
Coefficient of variation (percent) .....	.6	.8	12.9	31.5	2.6	49.7	N	X
BUSINESS¹								
For-hire transportation or warehousing	58.1	27.9	30.1	V	29.7	.5	V	17.1
Vehicle leasing or rental	16.8	S	6.4	V	6.4	V	V	41.2
Agriculture, forestry, fishing, or hunting	67.1	51.7	15.3	S	6.1	V	V	23.0
Mining	2.5	2.1	.5	V	.5	V	V	26.9
Utilities	28.4	25.9	2.4	1.6	.8	V	V	41.8
Construction	202.4	185.0	17.4	S	5.0	V	V	15.0
Manufacturing	26.1	22.1	4.0	S	3.7	V	V	37.4
Wholesale trade	42.0	38.8	3.2	S	2.8	V	V	32.4
Retail trade	51.0	41.2	S	S	1.7	V	V	30.0
Information services	S	S	V	V	V	V	V	S
Waste management, landscaping, or administrative/support services	19.6	16.0	3.6	2.5	1.1	V	V	10.9
Arts, entertainment, or recreation services	S	S	S	S	S	V	V	S
Accommodation or food services	S	S	1.2	V	1.2	V	V	S
Other services	48.0	47.5	S	S	V	V	V	34.7
Personal transportation	2 802.7	2 802.0	S	S	V	V	V	1.9
Not reported	45.3	33.7	S	S	4.0	V	V	30.3
Not applicable ²	47.6	47.6	V	V	V	V	V	34.9
BODY TYPE								
Single-unit trucks	3 435.1	3 391.6	43.5	43.5	N	N	N	.7
Pickup	1 431.7	1 403.6	28.0	28.0	N	N	N	1.0
Minivan	610.3	610.3	V	V	N	N	N	8.6
Other light vans	310.0	309.7	S	S	N	N	N	13.4
Sport utility	881.7	881.7	V	V	N	N	N	6.4
Armored	V	V	V	V	N	N	N	N
Beverage	1.6	1.6	V	V	N	N	N	40.8
Concrete mixer	2.8	2.8	V	V	N	N	N	19.9
Concrete pumper	V	V	V	V	N	N	N	N
Crane .....	.8	.8	V	V	N	N	N	49.8
Curtainside	S	S	V	V	N	N	N	S
Dump	51.1	43.9	7.2	7.2	N	N	N	6.3
Flatbed, stake, or platform	41.5	37.6	3.9	3.9	N	N	N	7.3
Low boy	V	V	V	V	N	N	N	N
Pole, logging, pulpwood, or pipe	S	S	V	V	N	N	N	S
Service, utility	8.0	6.8	1.2	1.2	N	N	N	18.9
Service, other	12.0	10.7	1.2	1.2	N	N	N	15.1
Street sweeper .....	.8	.8	V	V	N	N	N	49.8
Tank, dry bulk .....	.6	.5	S	S	N	N	N	44.5
Tank, liquids or gases	5.1	5.1	V	V	N	N	N	22.2
Tow/Wrecker	6.2	5.6	S	S	N	N	N	20.5
Trash, garbage, or recycling	4.2	4.2	V	V	N	N	N	19.8
Vacuum .....	.6	.5	S	S	N	N	N	44.4
Van, basic enclosed	32.5	32.5	V	V	N	N	N	22.2
Van, insulated nonrefrigerated	S	S	V	V	N	N	N	S
Van, insulated refrigerated	3.3	3.1	S	S	N	N	N	28.0
Van, open top	4.7	4.1	S	S	N	N	N	24.1
Van, step, walk-in, or multistop	20.8	20.8	V	V	N	N	N	11.2
Van, other	4.6	4.6	V	V	N	N	N	24.8
Other	V	V	V	V	N	N	N	N
Truck-tractors	64.2	S	63.9	N	63.4	.5	V	2.6
Automobile carrier	S	N	S	N	S	V	V	S
Beverage	1.5	N	1.5	N	1.5	V	V	39.5
Curtainside	S	N	S	N	S	V	V	S
Dump	6.6	N	6.6	N	6.6	V	V	12.6
Flatbed, stake, or platform	12.8	N	12.8	N	12.6	S	V	9.1
Livestock	S	N	S	N	S	V	V	S
Low boy	2.5	N	2.5	N	2.5	V	V	21.0
Mobile home toter	S	N	S	N	S	V	V	S
Open top	2.2	N	2.2	N	2.2	V	V	22.6
Pole, logging, pulpwood, or pipe	S	N	S	N	S	V	V	S
Tank, dry bulk	1.8	N	1.8	N	1.8	V	V	24.7
Tank, liquids or gases	3.4	N	3.4	N	3.4	V	V	17.8
Van, basic enclosed	25.7	N	25.7	N	25.6	S	V	5.7
Van, drop-frame .....	.6	N	.6	N	.5	S	V	44.5
Van, insulated nonrefrigerated	S	N	S	N	S	V	V	S
Van, insulated refrigerated	5.7	N	5.7	N	5.7	V	V	13.6
Other	V	N	V	N	V	V	V	N
Not applicable ³	S	S	V	N	V	V	V	S
ANNUAL MILES								
Less than 5,000	621.5	596.7	24.8	S	5.4	V	V	9.0
5,000 to 9,999	722.0	708.6	S	S	3.1	V	V	8.4
10,000 to 19,999	1 568.9	1 557.4	11.5	5.4	6.1	V	V	4.7
20,000 to 29,999	337.2	323.9	S	S	5.2	S	V	12.9
30,000 to 49,999	132.6	124.1	8.5	S	7.8	S	V	20.2
50,000 to 74,999	30.7	S	12.4	V	12.4	V	V	31.6
75,000 or more	38.8	S	23.5	V	23.3	S	V	25.0
Not applicable ²	47.6	47.6	V	V	V	V	V	34.9

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	14.1	S	.8	V	.8	V	V	49.2
50 miles or less	2 508.4	2 465.0	43.4	24.3	18.9	S	V	2.7
51 to 100 miles	322.5	307.5	15.0	2.7	12.2	S	V	13.1
101 to 200 miles	80.1	72.1	8.0	S	7.0	S	V	26.6
201 to 500 miles	38.1	28.2	9.9	S	9.2	S	V	35.8
501 miles or more	78.0	62.9	15.1	S	8.2	V	V	27.4
Not reported	410.4	395.3	15.1	S	7.0	V	V	11.7
Not applicable ²	47.6	47.6	V	V	V	V	V	34.9
PRIMARY JURISDICTION								
Operated in Canada	S	S	S	V	S	V	V	S
Operated in Mexico	V	V	V	V	V	V	V	N
Operated within the home base state	3 042.3	2 966.2	76.1	34.8	41.1	S	V	1.7
Operated in states other than the home base state	88.9	72.1	16.7	S	16.3	S	V	24.0
Not reported	320.1	305.7	14.4	S	5.9	S	V	13.3
Not applicable ²	47.6	47.6	V	V	V	V	V	34.9
MONTHS OPERATED								
12	2 320.8	2 259.2	61.5	S	43.3	S	V	3.1
7 to 11	548.3	528.6	19.7	6.5	13.1	V	V	9.7
2 to 6	510.8	494.2	16.7	S	6.0	S	V	10.2
1 or less	71.8	62.3	S	S	1.0	V	V	26.7
Vehicle not used	47.6	47.6	V	V	V	V	V	34.9
VEHICLE SIZE								
Light	3 276.5	3 253.2	S	S	V	V	V	.7
Medium	63.3	50.6	S	S	V	V	V	12.1
Light-heavy	41.0	38.8	2.3	2.3	V	V	V	7.5
Heavy-heavy	118.5	49.4	69.0	5.2	63.4	.5	V	2.6
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	2 566.6	2 552.7	S	S	V	V	V	2.4
6,001 to 8,500	570.3	561.8	S	S	V	V	V	9.8
8,501 to 10,000	139.6	138.7	S	S	V	V	V	19.8
10,001 to 14,000	41.3	29.9	S	S	V	V	V	17.9
14,001 to 16,000	12.9	12.2	S	S	V	V	V	14.3
16,001 to 19,500	9.1	8.5	S	S	V	V	V	17.2
19,501 to 26,000	41.0	38.8	2.3	2.3	V	V	V	7.5
26,001 to 33,000	23.4	21.1	2.4	2.3	V	V	V	10.3
33,001 to 40,000	10.3	6.0	4.3	1.6	2.8	V	V	14.3
40,001 to 50,000	11.5	6.8	4.7	.7	4.0	V	V	10.7
50,001 to 60,000	15.0	8.3	6.7	S	6.6	V	V	9.0
60,001 to 80,000	56.9	7.3	49.6	S	48.6	.5	V	3.1
80,001 to 100,000 .....	.7	V	.7	V	.7	V	V	40.6
100,001 to 130,000 .....	.7	V	.7	V	.7	V	V	40.4
130,001 or more	V	V	V	V	V	V	V	N
TOTAL LENGTH (FEET)								
Less than 20.0	3 037.2	3 037.2	V	V	V	V	V	1.5
20.0 to 27.9	323.3	316.3	S	S	V	V	V	12.5
28.0 to 35.9	37.0	25.6	S	S	V	V	V	19.7
36.0 to 40.9	22.3	8.0	14.3	S	2.2	V	V	31.9
41.0 to 44.9	9.2	4.8	4.4	2.0	2.4	V	V	15.7
45.0 to 49.9	6.3	V	6.3	S	6.0	V	V	13.4
50.0 to 54.9	S	V	S	S	5.1	V	V	S
55.0 to 59.9	9.9	V	9.9	1.9	8.1	V	V	11.6
60.0 to 64.9	17.7	V	17.7	S	17.6	V	V	7.2
65.0 to 69.9	14.6	V	14.6	S	14.0	V	V	8.3
70.0 to 74.9	6.2	V	6.2	V	6.2	V	V	13.0
75.0 to 79.9	1.9	V	1.9	V	1.7	S	V	23.8
80.0 or more	S	V	S	V	S	S	V	S
MILES PER GALLON								
Less than 5	24.6	15.9	8.7	S	7.8	V	V	8.2
5 to 6.9	82.1	41.1	40.9	2.3	38.3	S	V	12.2
7 to 8.9	43.4	35.6	7.7	2.1	5.6	V	V	17.0
9 to 10.9	194.9	183.8	S	S	1.0	V	V	16.4
11 to 12.9	248.5	233.0	S	S	S	V	V	15.2
13 to 14.9	282.5	273.8	S	S	S	V	V	14.6
15 or more	1 988.3	1 987.1	1.2	1.2	V	V	V	3.7
15 to 20.9	1 579.6	1 578.3	1.2	1.2	V	V	V	4.7
21 to 24.9	272.1	272.1	V	V	V	V	V	15.1
25 or more	136.7	136.7	V	V	V	V	V	21.8
Not reported	587.5	574.0	13.5	3.3	10.1	S	V	9.4
Not applicable ²	47.6	47.6	V	V	V	V	V	34.9

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
MODEL YEAR								
2003	S	S	S	V	S	V	V	S
2002	189.9	187.3	2.6	S	2.3	V	V	18.1
2001	312.2	307.2	5.0	S	4.4	V	V	13.8
2000	273.9	267.7	6.2	S	5.5	V	V	14.7
1999	270.8	255.9	14.9	S	7.0	S	V	14.6
1998	300.5	295.0	5.5	S	4.8	S	V	14.0
1997	248.7	243.0	5.7	1.5	4.2	V	V	15.4
1996	168.8	162.5	6.4	S	5.5	S	V	18.9
1995	258.0	249.9	8.1	S	7.1	S	V	15.0
1994	193.9	190.7	3.2	S	2.3	V	V	17.8
1993	181.1	177.2	3.9	S	3.3	V	V	18.2
Pre-1993	1 101.1	1 055.1	45.9	29.0	17.0	V	V	6.1
VEHICLE ACQUISITION								
New	1 396.4	1 347.9	48.5	S	29.4	S	V	5.2
Used	1 949.2	1 893.3	55.9	24.0	31.6	S	V	3.8
Not reported	153.8	150.8	3.0	S	2.4	V	V	19.9
LEASE CHARACTERISTICS								
Leased	242.4	223.6	18.8	S	18.4	S	V	14.9
Lessee	207.2	200.9	6.3	S	5.9	S	V	16.8
Vehicle only	15.9	9.8	6.1	S	5.8	V	V	10.8
Vehicle with driver	S	V	S	V	S	S	V	S
Not reported	S	S	V	V	V	V	V	S
Not applicable ⁴	190.8	190.8	V	V	V	V	V	18.2
Lessor	20.3	8.4	11.9	V	11.9	V	V	9.0
Vehicle only	17.2	8.2	9.1	V	9.1	V	V	10.2
Vehicle with driver	2.9	S	2.8	V	2.8	V	V	19.1
Not reported	S	S	V	V	V	V	V	S
Not applicable ⁴	V	V	V	V	V	V	V	N
Not reported	S	S	.6	V	.6	V	V	S
Not leased	1 895.8	1 848.7	47.1	16.0	30.9	S	V	4.0
Not reported	1 361.1	1 319.6	41.4	27.2	14.1	S	V	5.4
Length of leasing agreement:								
Leased	242.4	223.6	18.8	S	18.4	S	V	14.9
1 to 11 months	2.7	1.2	1.6	V	1.6	V	V	25.4
12 months or more	34.1	17.0	17.1	S	16.7	V	V	6.9
Not reported	S	S	S	V	S	V	V	S
Not applicable ⁴	204.7	204.7	V	V	V	V	V	17.6
Provisions of lease ⁵ :								
Financing only	22.2	12.6	9.6	S	9.3	V	V	8.9
Full maintenance	16.3	6.5	9.8	V	9.8	V	V	10.1
Payment of taxes	17.4	6.8	10.7	V	10.5	S	V	9.5
Obtaining licenses and permits	18.4	7.9	10.5	V	10.5	V	V	9.5
Recordkeeping	10.9	5.2	5.6	V	5.6	V	V	12.7
Fuel contract	6.9	2.9	4.0	V	4.0	V	V	15.6
PRIMARY OPERATOR CLASSIFICATION								
Private	564.2	500.1	64.1	42.5	21.6	V	V	8.5
Motor carrier	38.1	15.1	23.0	V	22.7	S	V	6.1
Owner operator	28.9	15.7	13.2	S	12.8	S	V	24.3
Rental	17.9	S	6.4	V	6.4	V	V	38.8
Personal transportation	2 802.7	2 802.0	S	S	V	V	V	1.9
Not applicable ²	47.6	47.6	V	V	V	V	V	34.9
For-hire characteristics:								
Type of carrier:								
Contract	31.3	10.2	21.2	V	20.9	S	V	6.6
Common	21.4	8.4	13.0	V	12.8	S	V	8.3
Not reported	7.5	5.5	2.0	S	1.7	V	V	16.7
Not applicable ⁶	3 439.1	3 367.9	71.2	43.2	28.0	V	V	.7
Type of service:								
Truckload	41.5	10.4	31.1	S	30.4	S	V	5.1
Less-than truckload	11.8	8.3	3.5	V	3.4	S	V	13.6
Not reported	6.9	5.3	1.6	V	1.6	V	V	17.1
Not applicable ⁶	3 439.1	3 367.9	71.2	43.2	28.0	V	V	.7
Source of hauls:								
Shippers or receivers	38.4	11.7	26.7	V	26.5	S	V	5.9
Brokers	7.0	1.9	5.1	V	4.9	S	V	12.8
Centralized markets or exchanges	2.0	1.3	.7	V	.7	V	V	29.5
Other	V	V	V	V	V	V	V	N
Not reported	12.9	9.2	3.7	S	3.4	V	V	12.4
Not applicable ⁶	3 439.1	3 367.9	71.2	43.2	28.0	V	V	.7
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	11.3	4.4	6.9	V	6.9	V	V	12.0
Not carrying hazardous materials	204.6	145.2	59.4	14.1	44.8	S	V	1.8
Not reported	26.3	19.9	6.4	S	5.3	V	V	9.2
Not applicable ⁸	3 257.2	3 222.5	34.7	28.4	6.4	V	V	.7
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	S	S	S	S	V	V	V	S
Air bag(s) (safety device only)	1 907.3	1 889.9	17.4	S	8.0	S	V	3.8
Air compressor (except air brakes)	16.5	8.1	8.4	S	7.8	S	V	10.1
Air-conditioning	2 699.6	2 617.3	82.3	26.8	55.1	S	V	2.2
Air springs	33.3	6.8	26.5	V	26.3	S	V	5.5

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
EQUIPMENT TYPE^{5 9}—Con.								
Antilock brake system	2 017.5	1 976.9	40.6	S	29.2	S	V	3.6
Collision warning system	3.1	2.1	1.0	S	.7	V	V	28.9
Computerized drive train control unit	462.5	451.7	S	S	3.3	S	V	11.0
Crane	5.2	4.7	S	S	4.7	V	V	21.2
Electronic vehicle identification device	3.0	S	2.7	V	2.7	V	V	19.3
Engine retarder/brake	43.6	10.3	33.3	.5	32.6	S	V	4.1
Front-wheel drive	1 316.8	1 309.7	S	S	V	V	V	5.5
Hoist	41.5	37.1	4.4	4.4	V	V	V	7.2
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	5.9	1.8	4.1	V	3.9	S	V	15.9
Internet access	S	S	S	V	S	V	V	S
Lift gate	13.5	12.9	S	S	V	V	V	13.9
Mounting bar for snowplow	39.1	37.2	1.8	1.8	V	V	V	38.9
Navigational system	S	S	S	V	S	V	V	S
Power take-off	66.6	51.4	15.2	3.4	11.7	S	V	5.0
Radial tires	2 280.8	2 203.1	77.7	29.5	47.9	S	V	3.2
Reflective material in addition to those required by law	36.7	25.1	11.6	2.3	9.1	S	V	7.3
Road speed governor	54.9	26.3	28.6	1.9	26.4	S	V	5.1
Toolbox	215.8	199.0	16.9	7.2	9.5	S	V	14.7
Trip recorder or on-board computer with communication capabilities	124.4	112.4	S	S	4.8	S	V	22.2
Trip recorder or on-board computer without communication capabilities	593.2	581.5	S	S	4.8	V	V	9.6
Vehicle control aids for handicapped drivers	V	V	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	V	V	S
Winch	30.3	29.7	S	S	S	V	V	39.1
Transmission type:								
Automatic	2 686.7	2 659.4	27.3	25.9	1.4	V	V	2.2
Manual	719.8	645.3	74.5	16.9	57.1	.5	V	7.4
Semiautomated manual	2.8	1.6	1.2	V	1.2	V	V	26.3
Automated manual	S	S	S	V	S	V	V	S
Not reported	76.3	72.1	4.2	S	3.6	V	V	26.6
Braking system:								
Hydraulic (standard)	90.1	81.9	8.2	6.5	1.7	V	V	8.6
Hydraulic with power assist	54.2	49.3	4.9	4.5	S	V	V	6.2
Air	108.4	46.4	62.0	3.8	57.7	.5	V	2.7
Other	V	V	V	V	V	V	V	N
Not reported	12.9	9.0	3.9	S	3.6	V	V	13.2
Not applicable ¹⁰	3 233.7	3 205.3	28.4	28.4	V	V	V	.7
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	3 197.1	3 162.1	35.1	34.8	S	V	V	1.1
Diesel	231.5	159.2	72.3	8.7	63.1	.5	V	8.9
Natural gas	V	V	V	V	V	V	V	N
Propane	1.2	1.2	V	V	V	V	V	49.8
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	S	S	V	V	V	V	V	S
Other	V	V	V	V	V	V	V	N
Not reported	1.0	1.0	V	V	V	V	V	33.0
Not applicable ²	47.6	47.6	V	V	V	V	V	34.9
Cylinders¹¹:								
4 cylinders	462.7	462.3	S	S	S	V	V	11.1
6 cylinders	1 796.4	1 724.6	71.7	S	59.6	.5	V	3.9
8 cylinders	1 164.3	1 133.4	30.9	29.9	1.0	V	V	5.7
Other	75.9	71.6	4.4	1.7	2.6	V	V	20.3
Cubic inch displacement¹¹:								
Gasoline fuel	3 197.1	3 162.1	35.1	34.8	S	V	V	1.1
Less than 200	803.5	803.5	V	V	V	V	V	8.0
200 to 299	1 287.1	1 280.3	S	S	V	V	V	5.4
300 to 349	530.1	529.8	S	S	V	V	V	10.2
350 to 399	449.7	438.3	S	S	V	V	V	10.8
400 or more	83.8	68.3	S	S	V	V	V	25.5
Not available	42.8	41.8	1.0	.7	S	V	V	23.1
Diesel fuel	231.5	159.2	72.3	8.7	63.1	.5	V	8.9
Less than 400	50.3	48.7	1.6	1.2	S	V	V	27.3
400 to 599	93.3	85.2	8.1	5.9	2.2	V	V	16.7
600 to 799	37.2	13.1	24.0	S	23.8	V	V	4.9
800 or more	32.8	3.3	29.5	.5	28.6	.5	V	4.9
Not available	18.0	8.9	9.1	1.0	8.1	V	V	8.6
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	S	S	V	V	V	V	V	S
Not reported	1.0	1.0	V	V	V	V	V	33.0
Not applicable ²	47.6	47.6	V	V	V	V	V	34.9
REFUELING LOCATION								
Gas station	3 128.0	3 095.9	32.1	23.2	8.8	S	V	1.4
Truck stop	78.9	47.4	31.5	S	30.7	S	V	19.4
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	101.0	73.8	27.3	5.5	21.7	V	V	12.2
Other company's/contractor's facility not open to the public	S	S	2.1	S	1.7	S	V	S
Other	S	S	V	V	V	V	V	S
Not reported	124.7	110.3	S	S	.5	V	V	22.1
Not applicable ²	47.6	47.6	V	V	V	V	V	34.9

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	100.8	100.0	.8	S	S	V	V	25.0
Company-owned maintenance facility	312.3	268.4	43.8	6.0	37.7	S	V	11.6
General repair business or private mechanic	1 334.4	1 312.1	22.3	4.0	18.2	S	V	5.4
Dealership service department	773.2	763.8	9.4	1.3	8.0	V	V	8.0
Leasing company	3.2	2.0	1.3	V	1.1	S	V	25.0
Individual not employed/paid by any maintenance type facility	1 458.4	1 419.4	39.0	26.6	12.3	S	V	5.0
Other	V	V	V	V	V	V	V	N
Not reported	109.4	101.7	S	S	S	V	V	23.7
Not applicable ²	47.6	47.6	V	V	V	V	V	34.9
Extensive repairs performed by:								
None performed	2 728.2	2 643.3	84.9	38.3	46.3	S	V	2.3
Company-owned maintenance facility	62.5	57.0	5.5	1.9	3.6	V	V	28.8
General repair business or private mechanic	191.1	184.3	6.8	S	6.0	S	V	17.4
Dealership service department	163.3	157.6	5.7	1.5	4.2	V	V	19.1
Leasing company	S	S	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)	S	S	.9	S	.6	V	V	S
Individual not employed/paid by any repair type facility	201.7	198.5	3.2	1.2	2.0	V	V	17.4
Other	V	V	V	V	V	V	V	N
Not reported	27.4	27.3	S	V	S	V	V	49.5
Not applicable ²	47.6	47.6	V	V	V	V	V	34.9
AXLE ARRANGEMENT								
Driving axles:								
1	2 093.3	2 053.7	39.5	32.4	7.1	V	V	3.5
2	1 404.1	1 336.4	67.7	S	56.2	.5	V	5.2
3 or more	1.2	1.2	V	V	V	V	V	31.3
Not reported	.8	.7	S	V	S	V	V	37.4
Total liftable axles and locations ¹² :								
None	254.7	176.4	78.3	14.8	63.1	.5	V	2.9
1	6.1	5.5	.6	S	S	V	V	15.6
Forward of the drive axle	3.8	3.6	S	S	S	V	V	20.3
Below the chassis	1.2	1.0	S	S	S	V	V	36.2
Beyond the chassis	S	S	V	V	V	V	V	S
Not reported	.8	.7	S	V	S	V	V	37.5
2 or more	4.3	4.3	V	V	V	V	V	15.9
Forward of the drive axle	2.4	2.4	V	V	V	V	V	21.4
Below the chassis	1.0	1.0	V	V	V	V	V	33.0
Beyond the chassis	.9	.9	V	V	V	V	V	35.0
Not reported	S	S	V	V	V	V	V	S
Not reported	.6	.5	S	V	S	V	V	44.4
Not applicable ¹⁰	3 233.7	3 205.3	28.4	28.4	V	V	V	.7
Total liftable axles and number of braking axles:								
None	254.7	176.4	78.3	14.8	63.1	.5	V	2.9
1	6.1	5.5	.6	S	S	V	V	15.6
0 braking	1.2	1.0	S	S	S	V	V	36.3
1 braking	4.7	4.5	S	S	S	V	V	17.7
Not reported	S	V	S	V	S	V	V	S
2 or more	4.3	4.3	V	V	V	V	V	15.9
0 braking	V	V	V	V	V	V	V	N
1 braking	V	V	V	V	V	V	V	N
2 or more braking	4.3	4.3	V	V	V	V	V	15.9
Not reported	V	V	V	V	V	V	V	N
Not reported	.6	.5	S	V	S	V	V	44.4
Not applicable ¹⁰	3 233.7	3 205.3	28.4	28.4	V	V	V	.7
CAB TYPE								
Conventional cab	242.6	168.7	73.8	14.6	58.8	.5	V	3.0
With sleeper	33.0	V	33.0	V	32.5	.5	V	4.6
Without sleeper	207.9	168.7	39.2	14.6	24.6	V	V	3.6
Not reported	1.7	V	1.7	V	1.7	V	V	25.4
Cab over engine	22.3	17.2	5.2	S	4.6	V	V	8.1
With sleeper	3.5	S	3.2	V	3.2	V	V	17.6
Without sleeper	18.5	16.8	1.7	S	1.1	V	V	9.3
Not reported	S	V	S	V	S	V	V	S
Cab forward of engine	.7	.7	V	V	V	V	V	40.5
Cab beside engine	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ¹⁰	3 233.7	3 205.3	28.4	28.4	V	V	V	.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 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	45 649.0	39 758.0	718.5	563.1	4 609.4	X
Coefficient of variation (percent)	3.3	3.8	8.7	14.1	3.2	X
BUSINESS¹						
For-hire transportation or warehousing	2 850.1	S	148.7	131.9	2 437.0	6.4
Vehicle leasing or rental	1 013.6	S	S	S	511.2	44.3
Agriculture, forestry, fishing, or hunting	645.7	392.9	42.0	22.1	188.8	30.2
Mining	59.6	S	V	S	52.6	32.3
Utilities	467.9	S	30.1	S	59.1	49.0
Construction	3 259.4	2 701.9	107.2	96.7	353.6	19.6
Manufacturing	490.8	S	S	61.2	221.3	30.9
Wholesale trade	790.0	502.8	75.2	69.1	142.8	31.5
Retail trade	607.4	433.7	73.5	S	79.1	28.1
Information services	S	S	S	S	V	S
Waste management, landscaping, or administrative/support services	297.5	26.9	55.4	8.0	207.2	13.1
Arts, entertainment, or recreation services	S	V	S	S	S	S
Accommodation or food services	S	S	S	V	70.6	S
Other services	902.5	823.2	50.6	S	S	38.9
Personal transportation	32 894.1	32 877.8	S	V	V	4.4
Not reported	624.4	S	32.2	87.0	273.7	22.1
Not applicable ²	S	S	S	S	V	S
BODY TYPE						
Single-unit trucks	41 845.8	39 758.0	718.5	563.1	806.2	3.6
Pickup	16 581.4	16 561.6	S	V	V	4.8
Minivan	8 365.2	8 365.2	V	V	V	12.1
Other light vans	2 646.8	2 646.8	V	V	V	18.6
Sport utility	11 253.3	11 253.3	V	V	V	10.0
Armored	V	V	V	V	V	N
Beverage	20.0	S	S	S	S	48.1
Concrete mixer	38.2	V	V	V	38.2	22.3
Concrete pumper	V	V	V	V	V	N
Crane	S	V	S	S	S	S
Curtainside	S	V	V	V	S	S
Dump	430.0	33.5	81.5	52.6	262.3	9.5
Flatbed, stake, or platform	389.7	79.6	126.0	56.1	128.0	11.0
Low boy	V	V	V	V	V	N
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Service, utility	96.5	23.1	39.3	27.3	S	23.5
Service, other	154.8	61.8	57.4	29.7	S	19.0
Street sweeper	S	V	S	V	V	S
Tank, dry bulk	6.1	V	V	V	6.1	48.3
Tank, liquids or gases	41.4	V	V	S	31.0	27.6
Tow/Wrecker	57.2	S	35.9	S	17.5	31.8
Trash, garbage, or recycling	96.0	V	S	V	93.9	20.8
Vacuum	S	V	V	V	S	S
Van, basic enclosed	1 053.2	S	133.1	250.5	140.3	42.7
Van, insulated nonrefrigerated	S	V	S	V	V	S
Van, insulated refrigerated	94.5	S	S	S	46.2	33.6
Van, open top	S	S	S	S	5.2	S
Van, step, walk-in, or multistop	369.8	175.7	161.5	32.6	V	14.4
Van, other	94.3	22.0	S	S	V	38.0
Other	V	V	V	V	V	N
Truck-tractors	3 803.2	V	V	V	3 803.2	3.7
Automobile carrier	S	V	V	V	S	S
Beverage	21.6	V	V	V	21.6	40.6
Curtainside	S	V	V	V	S	S
Dump	256.5	V	V	V	256.5	16.4
Flatbed, stake, or platform	661.7	V	V	V	661.7	11.1
Livestock	S	V	V	V	S	S
Low boy	75.0	V	V	V	75.0	33.9
Mobile home toter	S	V	V	V	S	S
Open top	46.4	V	V	V	46.4	39.4
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Tank, dry bulk	100.8	V	V	V	100.8	30.1
Tank, liquids or gases	213.6	V	V	V	213.6	20.5
Van, basic enclosed	1 834.0	V	V	V	1 834.0	6.8
Van, drop-frame	S	V	V	V	S	S
Van, insulated nonrefrigerated	S	V	V	V	S	S
Van, insulated refrigerated	473.0	V	V	V	473.0	15.5
Other	V	V	V	V	V	N
Not applicable ³	V	V	V	V	V	N
ANNUAL MILES						
Less than 5,000	1 377.1	1 271.3	40.6	18.6	46.7	11.1
5,000 to 9,999	5 174.9	4 997.4	53.2	43.6	80.7	8.7
10,000 to 19,999	21 025.5	20 454.6	211.3	103.9	255.7	4.9
20,000 to 29,999	7 545.3	6 956.0	188.4	124.6	276.2	13.0
30,000 to 49,999	4 609.5	3 801.1	167.9	88.9	551.6	20.1
50,000 to 74,999	1 909.0	S	S	99.8	905.2	31.8
75,000 or more	3 969.5	S	S	S	2 493.3	24.3
Not applicable ²	S	S	S	S	V	S
PRIMARY RANGE OF OPERATION						
Off-the-road	S	S	S	S	33.0	S
50 miles or less	28 560.6	26 798.1	450.4	270.0	1 042.1	4.2
51 to 100 miles	5 664.0	4 671.0	162.8	90.5	739.7	16.1
101 to 200 miles	1 618.4	986.2	32.4	S	546.2	23.3
201 to 500 miles	1 686.3	S	S	S	766.9	30.4
501 miles or more	1 772.2	889.9	S	S	865.5	19.3
Not reported	6 136.6	5 401.3	51.7	67.6	616.0	16.9
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	Vehicle size				Coefficient of variation of total (percent)
	Total	Light	Medium	Light-heavy		Heavy-heavy
PRIMARY JURISDICTION					
Operated in Canada	S	V	V	S	S
Operated in Mexico	V	V	V	V	N
Operated within the home base state	38 652.2	35 069.0	663.7	405.2	2 514.2
Operated in states other than the home base state	2 442.1	773.8	S	S	1 580.6
Not reported	4 486.8	3 878.7	31.3	63.5	513.3
Not applicable ²	S	S	S	S	V
MONTHS OPERATED					
12	34 267.5	29 889.7	509.0	376.4	3 492.3
7 to 11	6 728.5	5 560.0	130.2	156.9	881.4
2 to 6	4 495.8	4 162.9	73.1	27.3	232.6
1 or less	119.2	109.0	S	1.9	3.1
Vehicle not used	S	S	S	S	V
AVERAGE WEIGHT (POUNDS)					
Less than 6,001	30 346.4	30 346.4	N	N	N
6,001 to 8,500	7 273.8	7 273.8	N	N	N
8,501 to 10,000	2 137.9	2 137.9	N	N	N
10,001 to 14,000	461.7	N	461.7	N	N
14,001 to 16,000	147.4	N	147.4	N	N
16,001 to 19,500	109.4	N	109.4	N	N
19,501 to 26,000	563.1	N	N	563.1	N
26,001 to 33,000	280.3	N	N	N	280.3
33,001 to 40,000	218.2	N	N	N	218.2
40,001 to 50,000	190.6	N	N	N	190.6
50,001 to 60,000	527.5	N	N	N	527.5
60,001 to 80,000	3 344.9	N	N	N	3 344.9
80,001 to 100,000	12.6	N	N	N	12.6
100,001 to 130,000	35.3	N	N	N	35.3
130,001 or more	V	N	N	N	V
TOTAL LENGTH (FEET)					
Less than 20.0	36 462.2	35 922.5	301.4	110.3	128.0
20.0 to 27.9	4 428.9	3 727.1	219.7	166.7	315.3
28.0 to 35.9	552.4	S	86.2	186.7	234.3
36.0 to 40.9	338.5	S	50.9	79.7	144.8
41.0 to 44.9	203.5	S	51.6	S	151.3
45.0 to 49.9	288.5	V	S	V	288.3
50.0 to 54.9	205.2	V	S	V	200.0
55.0 to 59.9	366.6	V	S	S	349.3
60.0 to 64.9	1 095.1	V	V	V	1 095.1
65.0 to 69.9	1 065.1	V	V	S	1 059.9
70.0 to 74.9	457.1	V	V	V	457.1
75.0 to 79.9	173.5	V	V	V	173.5
80.0 or more	S	V	V	V	S
MILES PER GALLON					
Less than 5	486.0	21.5	S	S	429.5
5 to 6.9	2 986.6	41.3	40.9	56.9	2 847.4
7 to 8.9	638.9	66.0	94.5	120.6	357.8
9 to 10.9	2 084.7	1 711.2	170.2	122.0	81.3
11 to 12.9	2 618.4	2 358.9	111.6	90.8	57.0
13 to 14.9	3 724.8	3 625.4	81.5	S	S
15 or more	25 212.1	25 100.8	66.3	31.6	13.4
15 to 20.9	19 462.3	19 351.1	66.3	31.6	13.4
21 to 24.9	4 119.9	4 119.9	V	V	V
25 or more	1 629.9	1 629.9	V	V	V
Not reported	7 859.5	6 796.4	141.4	100.6	821.2
Not applicable ²	S	S	S	S	V
MODEL YEAR					
2003	S	V	V	V	S
2002	2 209.9	1 935.8	S	S	209.0
2001	5 316.9	4 709.4	69.4	81.3	456.8
2000	4 773.2	4 070.8	66.3	70.5	565.5
1999	4 872.2	3 901.0	126.9	104.3	740.0
1998	4 395.7	3 890.3	69.9	S	413.5
1997	3 428.0	2 922.3	71.0	54.7	379.9
1996	3 048.6	2 614.6	35.1	S	388.7
1995	3 477.2	2 914.9	35.1	35.2	492.0
1994	2 870.3	2 685.4	26.2	S	127.1
1993	2 189.3	1 995.3	20.7	27.1	146.3
Pre-1993	9 031.7	8 118.1	169.8	89.2	654.6
VEHICLE ACQUISITION					
New	20 510.4	16 988.1	445.5	421.4	2 655.5
Used	23 235.9	21 111.7	230.3	125.2	1 768.7
Not reported	1 902.7	1 658.2	42.8	S	185.2
LEASE CHARACTERISTICS					
Leased	4 802.4	2 884.8	89.0	185.1	1 643.5
Lessee	3 507.6	2 774.1	74.3	S	581.0
Vehicle only	752.4	28.4	72.8	S	573.0
Vehicle with driver	S	V	V	V	S
Not reported	S	V	S	V	S
Not applicable ⁴	2 745.7	2 745.7	V	V	V
Lessor	1 160.3	26.2	S	107.0	1 012.7
Vehicle only	916.8	20.2	S	107.0	775.3
Vehicle with driver	240.2	S	V	V	237.4
Not reported	S	V	V	V	V
Not applicable ⁴	V	V	V	V	V
Not reported	S	S	S	V	49.7
Not leased	24 659.1	21 967.5	456.0	273.6	1 962.0
Not reported	16 187.5	14 905.6	173.6	104.3	1 003.9

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
LEASE CHARACTERISTICS—Con.						
Length of leasing agreement:						
Leased	4 802.4	2 884.8	89.0	185.1	1 643.5	11.4
1 to 11 months	145.6	S	V	S	121.2	26.9
12 months or more	1 804.1	46.4	82.5	169.0	1 506.3	7.3
Not reported	S	V	S	V	S	S
Not applicable ⁴	2 830.2	2 830.2	V	V	V	18.8
Provisions of lease ⁵ :						
Financing only	1 131.1	49.4	73.8	111.9	896.1	9.6
Full maintenance	985.1	20.3	S	100.0	855.5	10.3
Payment of taxes	1 052.0	23.8	S	80.4	937.2	9.9
Obtaining licenses and permits	1 063.3	23.1	14.4	80.4	945.3	9.7
Recordkeeping	610.3	S	S	54.9	529.2	12.9
Fuel contract	403.4	S	S	S	357.6	16.3
PRIMARY OPERATOR CLASSIFICATION						
Private	8 301.3	6 256.6	485.0	392.6	1 167.1	10.6
Motor carrier	2 129.1	S	150.2	45.6	1 912.9	6.4
Owner operator	1 254.7	S	34.6	95.7	1 008.2	11.1
Rental	1 031.7	S	S	S	521.2	43.5
Personal transportation	32 894.1	32 877.8	S	V	V	4.4
Not applicable ²	S	S	S	S	V	S
For-hire characteristics:						
Type of carrier:						
Contract	1 972.3	S	73.2	107.1	1 760.6	7.1
Common	1 101.0	S	78.9	S	1 002.2	8.7
Not reported	218.6	S	32.7	S	158.2	18.7
Not applicable ⁶	42 357.1	39 713.4	533.7	421.7	1 688.3	3.5
Type of service:						
Truckload	2 635.1	S	45.8	S	2 482.8	5.6
Less-than truckload	457.7	S	110.9	S	290.4	15.1
Not reported	199.1	S	S	S	147.9	19.1
Not applicable ⁶	42 357.1	39 713.4	533.7	421.7	1 688.3	3.5
Source of hauls:						
Shippers or receivers	2 380.6	S	138.5	S	2 152.0	6.1
Brokers	437.2	S	S	S	423.5	14.3
Centralized markets or exchanges	72.5	V	S	S	45.6	37.1
Other	V	V	V	V	V	N
Not reported	401.5	9.3	33.7	S	300.0	15.2
Not applicable ⁶	42 357.1	39 713.4	533.7	421.7	1 688.3	3.5
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	646.0	V	S	S	616.2	13.0
Not carrying hazardous materials	4 535.3	402.5	597.3	430.2	3 105.3	3.5
Not reported	586.0	76.3	65.7	77.3	366.7	12.1
Not applicable ⁸	39 881.6	39 279.1	52.1	29.1	521.2	3.8
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	27.8	S	S	S	S	31.8
Air bag(s) (safety device only)	28 236.2	27 244.5	199.6	57.7	714.4	5.2
Air compressor (except air brakes)	678.0	S	31.2	26.0	604.0	11.8
Air-conditioning	39 024.2	34 184.1	358.0	364.1	4 118.0	4.0
Air springs	2 043.1	S	S	138.8	1 902.3	6.6
Antilock brake system	30 226.9	27 155.1	291.6	246.1	2 534.0	4.6
Collision warning system	127.8	S	45.1	S	73.4	29.5
Computerized drive train control unit	6 346.2	6 042.9	33.9	V	269.4	13.9
Crane	54.9	S	S	12.3	37.5	22.8
Electronic vehicle identification device	266.0	V	V	V	266.0	21.9
Engine retarder/brake	2 558.1	33.8	22.2	S	2 496.4	5.3
Front-wheel drive	17 348.5	17 348.5	V	V	V	8.0
Hoist	363.5	15.0	53.1	59.0	236.3	11.1
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	299.5	V	S	S	274.9	17.5
Internet access	S	V	S	V	S	S
Lift gate	278.7	52.9	67.6	127.1	31.1	19.1
Mounting bar for snowplow	S	S	S	S	S	S
Navigational system	S	V	V	V	S	S
Power take-off	1 128.8	18.9	77.0	62.5	970.4	6.9
Radial tires	30 870.5	26 511.5	476.5	423.4	3 459.1	4.8
Reflective material in addition to those required by law	987.2	41.4	105.8	129.6	710.4	9.7
Road speed governor	2 490.3	26.2	172.8	172.8	2 203.9	5.6
Toolbox	3 854.5	2 762.6	186.0	187.4	718.5	15.9
Trip recorder or on-board computer with communication capabilities	2 509.5	1 934.4	37.9	S	501.5	21.9
Trip recorder or on-board computer without communication capabilities	8 232.5	7 860.8	33.8	V	337.9	10.8
Vehicle control aids for handicapped drivers	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	V
Winch	S	S	46.7	7.0	71.9	S
Transmission type:						
Automatic	33 264.5	32 433.3	446.4	142.8	242.0	4.5
Manual	11 100.9	6 588.0	245.3	365.1	3 902.5	8.2
Semiautomated manual	140.2	V	S	S	136.4	28.7
Automated manual	S	S	V	V	S	S
Not reported	1 007.6	614.6	S	52.0	314.9	21.4
Braking system:						
Hydraulic (standard)	1 514.6	S	383.6	180.0	234.7	29.8
Hydraulic with power assist	588.1	183.2	229.2	109.6	66.1	9.0
Air	4 257.5	S	23.7	221.6	4 000.9	3.7
Other	V	V	V	V	V	N
Not reported	442.1	20.1	62.4	51.9	307.7	13.5
Not applicable ¹⁰	38 846.7	38 826.9	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	38 645.9	38 227.4	283.1	81.9	53.5	3.9
Diesel	6 603.8	1 149.0	434.3	472.5	4 548.1	5.9
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	S	S	V	V	V	S
Other	V	V	V	V	V	N
Not reported	9.2	6.9	V	V	S	41.6
Not applicable ²	S	S	S	S	V	S
Cylinders ¹¹ :						
4 cylinders	5 450.6	5 336.5	86.7	S	17.6	13.6
6 cylinders	26 843.5	21 953.4	111.3	405.7	4 373.1	5.6
8 cylinders	12 668.5	11 985.0	462.8	134.8	85.9	8.0
Other	686.3	483.1	57.7	12.8	132.8	25.8
Cubic inch displacement ¹¹ :						
Gasoline fuel	38 645.9	38 227.4	283.1	81.9	53.5	3.9
Less than 200	10 327.7	10 319.3	V	V	V	10.8
200 to 299	17 292.1	17 283.6	S	S	V	8.1
300 to 349	5 783.5	5 753.7	S	S	V	12.8
350 to 399	4 148.8	3 957.4	115.0	42.5	33.9	14.5
400 or more	833.4	712.8	101.7	S	S	34.4
Not available	260.4	200.7	30.4	14.3	15.0	33.9
Diesel fuel	6 603.8	1 149.0	434.3	472.5	4 548.1	5.9
Less than 400	784.9	436.2	196.2	112.5	39.9	25.1
400 to 599	1 600.7	697.2	234.7	322.3	346.6	19.6
600 to 799	1 777.2	V	S	S	1 744.6	6.3
800 or more	1 869.0	V	V	S	1 867.5	6.6
Not available	572.0	15.6	S	S	549.4	12.7
Other fuel	S	S	V	S	S	S
Less than 400	S	S	V	S	V	S
400 or more	S	V	V	V	S	S
Not available	S	S	V	V	V	S
Not reported	9.2	6.9	V	V	S	41.6
Not applicable ²	S	S	S	S	V	S
REFUELING LOCATION						
Gas station	38 366.9	37 078.6	490.5	189.7	608.1	4.0
Truck stop	3 426.0	S	29.3	158.8	2 419.6	12.8
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	2 199.5	S	169.6	182.0	1 417.8	11.3
Other company's/contractor's facility not open to the public	299.3	V	S	S	129.0	37.0
Other	S	V	V	S	V	S
Not reported	1 319.1	1 237.8	S	25.6	34.9	24.4
Not applicable ²	S	S	S	S	V	S
MAINTENANCE⁵						
General maintenance performed by:						
None performed	623.9	605.6	S	S	S	35.9
Company-owned maintenance facility	6 141.6	2 891.1	296.6	179.9	2 774.1	10.7
General repair business or private mechanic	19 076.9	17 289.2	223.2	129.5	1 435.0	7.7
Dealership service department	10 598.5	9 501.5	138.2	216.5	742.3	8.8
Leasing company	144.9	S	S	S	98.7	26.0
Individual not employed/paid by any maintenance type facility	16 768.6	15 802.3	125.8	58.8	781.7	6.9
Other	V	V	V	V	V	N
Not reported	1 145.2	1 093.6	S	S	17.9	26.6
Not applicable ²	S	S	S	S	V	S
Extensive repairs performed by:						
None performed	35 132.4	31 070.9	524.2	341.4	3 196.0	3.9
Company-owned maintenance facility	824.1	461.5	39.3	22.5	300.8	22.8
General repair business or private mechanic	3 289.4	2 712.3	53.1	25.1	498.8	26.0
Dealership service department	2 550.8	1 997.8	59.6	73.2	420.2	18.1
Leasing company	S	V	S	V	S	S
Component distributorship (engine, transmission, body, etc.)	266.3	S	S	S	67.8	43.1
Individual not employed/paid by any repair type facility	2 145.9	1 931.6	S	S	187.1	20.4
Other	V	V	V	V	V	N
Not reported	S	S	V	V	S	S
Not applicable ²	S	S	S	S	V	S
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	41 491.1	39 529.0	652.8	540.3	769.1	3.6
2 axles	41 002.5	39 524.2	648.9	515.0	314.4	3.7
3 axles	241.9	S	S	S	214.0	14.2
4 axles	107.6	V	V	V	107.6	20.8
5 axles or more	133.1	V	V	V	133.1	18.3
Not reported	6.1	S	S	V	V	49.0
Combinations	4 157.8	S	65.7	S	3 840.3	5.0
Single-unit trucks with trailer	354.6	S	65.7	S	37.1	42.1
3 axles	S	S	S	S	S	S
4 axles	174.3	S	43.9	V	24.9	34.3
5 axles or more	12.3	V	S	S	6.9	39.9
Not reported	S	V	S	V	V	S
Truck-tractors with single trailer	3 784.8	V	V	V	3 784.8	3.8
3 axles	48.6	V	V	V	48.6	30.7
4 axles	61.9	V	V	V	61.9	34.7
5 axles or more	3 349.7	V	V	V	3 349.7	4.2
Not reported	324.7	V	V	V	324.7	18.6
Truck-tractors with double trailers	S	V	V	V	S	S
5 axles	V	V	V	V	V	N
6 axles	S	V	V	V	S	S
7 axles	V	V	V	V	V	N
8 axles or more	S	V	V	V	V	S
Not reported	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
TRUCK TYPE AND AXLE ARRANGEMENT—Con.						
Combinations—Con.						
Truck-tractors with triple trailers	V	V	V	V	V	N
7 axles	V	V	V	V	V	N
8 axles	V	V	V	V	V	N
9 axles	V	V	V	V	V	N
10 axles or more	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Driving axles:						
1	24 143.3	22 373.5	664.2	546.4	559.2	5.7
2	21 483.5	17 380.1	52.6	16.7	4 034.1	6.5
3 or more	15.6	V	V	V	15.6	40.2
Not reported	6.6	S	S	V	S	46.1
Total liftable axles and locations ¹² :						
None	6 516.6	931.0	697.6	541.6	4 346.3	7.3
1	145.8	V	S	S	123.2	21.8
Forward of the drive axle	104.4	V	V	S	82.9	27.9
Below the chassis	21.4	V	S	V	S	47.8
Beyond the chassis	S	V	V	V	S	S
Not reported	18.1	V	V	V	18.1	45.1
2 or more	132.4	V	V	V	132.4	18.4
Forward of the drive axle	60.0	V	V	V	60.0	24.8
Below the chassis	34.6	V	V	V	34.6	39.7
Beyond the chassis	20.9	V	V	V	20.9	38.3
Not reported	S	V	V	V	S	S
Not reported	S	V	V	V	S	S
Not applicable ¹⁰	38 846.7	38 826.9	S	V	V	3.7
Total liftable axles and number of braking axles:						
None	6 516.6	931.0	697.6	541.6	4 346.3	7.3
1	145.8	V	S	S	123.2	21.8
0 braking	S	V	V	V	S	S
1 braking	129.4	V	S	S	106.7	23.9
Not reported	S	V	V	V	S	S
2 or more	132.4	V	V	V	132.4	18.4
0 braking	V	V	V	V	V	N
1 braking	V	V	V	V	V	N
2 or more braking	132.4	V	V	V	132.4	18.4
Not reported	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ¹⁰	38 846.7	38 826.9	S	V	V	3.7
CAB TYPE						
Conventional cab	6 321.5	S	532.9	541.2	4 372.3	7.5
With sleeper	2 534.9	V	V	V	2 534.9	5.5
Without sleeper	3 667.9	S	532.9	541.2	1 718.7	12.6
Not reported	118.7	V	V	V	118.7	27.4
Cab over engine	472.9	55.9	165.9	21.9	229.1	11.6
With sleeper	119.2	V	V	V	119.2	29.5
Without sleeper	322.5	55.9	165.9	21.9	78.7	12.1
Not reported	S	V	V	V	S	S
Cab forward of engine	S	V	V	V	S	S
Cab beside engine	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not applicable ¹⁰	38 846.7	38 826.9	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	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	45 649.0	41 491.1	4 157.8	354.6	3 784.8	S	V	X
Coefficient of variation (percent)	3.3	3.6	5.0	42.1	3.8	S	N	X
BUSINESS¹								
For-hire transportation or warehousing	2 850.1	500.6	2 349.5	V	2 331.1	S	V	6.4
Vehicle leasing or rental	1 013.6	S	458.1	V	458.1	V	V	44.3
Agriculture, forestry, fishing, or hunting	645.7	458.5	187.2	S	153.0	V	V	30.2
Mining	59.6	39.1	S	V	S	V	V	32.3
Utilities	467.9	S	57.4	S	39.8	V	V	49.0
Construction	3 259.4	2 965.4	294.0	S	106.7	V	V	19.6
Manufacturing	490.8	304.9	185.9	S	173.6	V	V	30.9
Wholesale trade	790.0	688.8	101.3	S	98.5	V	V	31.5
Retail trade	607.4	508.5	S	S	36.3	V	V	28.1
Information services	S	S	V	V	V	V	V	S
Waste management, landscaping, or administrative/support services	297.5	209.8	87.7	24.9	62.8	V	V	13.1
Arts, entertainment, or recreation services	S	S	S	S	S	V	V	S
Accommodation or food services	S	S	64.4	V	64.4	V	V	S
Other services	902.5	897.2	S	S	S	V	V	38.9
Personal transportation	32 894.1	32 890.9	S	S	V	V	V	4.4
Not reported	624.4	380.4	244.0	S	237.7	V	V	22.1
Not applicable ²	S	S	V	V	V	V	V	S
BODY TYPE								
Single-unit trucks	41 845.8	41 491.1	354.6	354.6	N	N	N	3.6
Pickup	16 581.4	16 360.0	S	S	N	N	N	4.8
Minivan	8 365.2	8 365.2	V	V	N	N	N	12.1
Other light vans	2 646.8	2 646.5	S	S	N	N	N	18.6
Sport utility	11 253.3	11 253.3	V	V	N	N	N	10.0
Armored	V	V	V	V	N	N	N	N
Beverage	20.0	20.0	V	V	N	N	N	48.1
Concrete mixer	38.2	38.2	V	V	N	N	N	22.3
Concrete pumper	V	V	V	V	N	N	N	N
Crane	S	S	V	V	N	N	N	S
Curtainside	S	S	V	V	N	N	N	S
Dump	430.0	369.5	60.5	60.5	N	N	N	9.5
Flatbed, stake, or platform	389.7	361.4	28.3	28.3	N	N	N	11.0
Low boy	V	V	V	V	N	N	N	N
Pole, logging, pulpwood, or pipe	S	S	V	V	N	N	N	S
Service, utility	96.5	88.8	S	S	N	N	N	23.5
Service, other	154.8	139.7	S	S	N	N	N	19.0
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk	6.1	S	S	S	N	N	N	48.3
Tank, liquids or gases	41.4	41.4	V	V	N	N	N	27.6
Tow/Wrecker	57.2	57.1	S	S	N	N	N	31.8
Trash, garbage, or recycling	96.0	96.0	V	V	N	N	N	20.8
Vacuum	S	S	S	S	N	N	N	S
Van, basic enclosed	1 053.2	1 053.2	V	V	N	N	N	42.7
Van, insulated nonrefrigerated	S	S	V	V	N	N	N	S
Van, insulated refrigerated	94.5	92.3	S	S	N	N	N	33.6
Van, open top	S	5.9	S	S	N	N	N	S
Van, step, walk-in, or multistop	369.8	369.8	V	V	N	N	N	14.4
Van, other	94.3	94.3	V	V	N	N	N	38.0
Other	V	V	V	V	N	N	N	N
Truck-tractors	3 803.2	V	3 803.2	N	3 784.8	S	V	3.7
Automobile carrier	S	N	S	N	S	V	V	S
Beverage	21.6	N	21.6	N	21.6	V	V	40.6
Curtainside	S	N	S	N	S	V	V	S
Dump	256.5	N	256.5	N	256.5	V	V	16.4
Flatbed, stake, or platform	661.7	N	661.7	N	649.0	S	V	11.1
Livestock	S	N	S	N	S	V	V	S
Low boy	75.0	N	75.0	N	75.0	V	V	33.9
Mobile home toter	S	N	S	N	S	V	V	S
Open top	46.4	N	46.4	N	46.4	V	V	39.4
Pole, logging, pulpwood, or pipe	S	N	S	N	S	V	V	S
Tank, dry bulk	100.8	N	100.8	N	100.8	V	V	30.1
Tank, liquids or gases	213.6	N	213.6	N	213.6	V	V	20.5
Van, basic enclosed	1 834.0	N	1 834.0	N	1 830.6	S	V	6.8
Van, drop-frame	S	N	S	N	S	V	V	S
Van, insulated nonrefrigerated	S	N	S	N	S	V	V	S
Van, insulated refrigerated	473.0	N	473.0	N	473.0	V	V	15.5
Other	V	N	V	N	V	V	V	N
Not applicable ³	V	V	V	N	V	V	V	N
ANNUAL MILES								
Less than 5,000	1 377.1	1 331.9	45.3	S	11.7	V	V	11.1
5,000 to 9,999	5 174.9	5 080.5	S	S	19.7	V	V	8.7
10,000 to 19,999	21 025.5	20 870.6	154.9	66.1	88.8	V	V	4.9
20,000 to 29,999	7 545.3	7 257.2	288.1	S	123.6	V	V	13.0
30,000 to 49,999	4 609.5	4 283.2	326.3	S	300.8	S	V	20.1
50,000 to 74,999	1 909.0	S	773.7	V	773.7	V	V	31.8
75,000 or more	3 969.5	S	2 475.1	V	2 466.4	S	V	24.3
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	
PRIMARY RANGE OF OPERATION							
Off-the-road	S	S	S	V	S	V	S
50 miles or less	28 560.6	27 743.4	817.2	S	546.7	S	4.2
51 to 100 miles	5 664.0	5 040.6	623.5	29.5	585.4	S	16.1
101 to 200 miles	1 618.4	1 115.4	503.0	S	489.2	S	23.3
201 to 500 miles	1 686.3	S	778.5	S	762.6	S	30.4
501 miles or more	1 772.2	889.0	883.3	S	862.8	V	19.3
Not reported	6 136.6	5 592.5	544.1	14.1	529.9	V	16.9
Not applicable ²	S	S	V	V	V	V	S
PRIMARY JURISDICTION							
Operated in Canada	S	S	S	V	S	V	S
Operated in Mexico	V	V	V	V	V	V	N
Operated within the home base state	38 652.2	36 505.6	2 146.6	316.5	1 823.7	S	3.7
Operated in states other than the home base state	2 442.1	884.9	1 557.2	S	1 543.7	S	12.2
Not reported	4 486.8	4 034.0	452.8	S	416.1	S	20.4
Not applicable ²	S	S	V	V	V	V	S
MONTHS OPERATED							
12	34 267.5	31 062.9	3 204.6	S	2 952.9	S	4.7
7 to 11	6 728.5	5 973.6	754.8	70.8	684.0	V	10.4
2 to 6	4 495.8	4 303.6	192.2	S	146.8	S	15.6
1 or less	119.2	113.0	S	S	1.2	V	43.0
Vehicle not used	S	S	V	V	V	V	S
VEHICLE SIZE							
Light	39 758.0	39 529.0	S	S	V	V	3.8
Medium	718.5	652.8	65.7	65.7	V	V	8.7
Light-heavy	563.1	540.3	S	S	V	V	14.1
Heavy-heavy	4 609.4	769.1	3 840.3	37.1	3 784.8	S	3.2
AVERAGE WEIGHT (POUNDS)							
Less than 6,001	30 346.4	30 157.6	S	S	V	V	5.0
6,001 to 8,500	7 273.8	7 236.0	S	S	V	V	11.7
8,501 to 10,000	2 137.9	2 135.4	S	S	V	V	28.7
10,001 to 14,000	461.7	407.6	54.0	54.0	V	V	11.5
14,001 to 16,000	147.4	139.1	S	S	V	V	18.7
16,001 to 19,500	109.4	106.0	S	S	V	V	22.8
19,501 to 26,000	563.1	540.3	S	S	V	V	14.1
26,001 to 33,000	280.3	265.6	14.7	13.5	S	V	16.7
33,001 to 40,000	218.2	53.4	164.8	13.5	151.2	V	20.0
40,001 to 50,000	190.6	79.2	111.4	S	106.0	V	16.9
50,001 to 60,000	527.5	166.3	361.2	S	360.3	V	12.3
60,001 to 80,000	3 344.9	204.6	3 140.3	S	3 118.2	S	4.1
80,001 to 100,000	12.6	V	12.6	V	12.6	V	47.2
100,001 to 130,000	35.3	V	35.3	V	35.3	V	49.6
130,001 or more	V	V	V	V	V	V	N
TOTAL LENGTH (FEET)							
Less than 20.0	36 462.2	36 462.2	V	V	V	V	4.1
20.0 to 27.9	4 428.9	4 290.1	S	S	V	V	16.8
28.0 to 35.9	552.4	482.2	70.1	70.1	V	V	12.5
36.0 to 40.9	338.5	175.7	162.8	S	72.2	V	23.2
41.0 to 44.9	203.5	80.9	122.6	S	113.1	V	17.5
45.0 to 49.9	288.5	V	288.5	S	287.1	V	16.6
50.0 to 54.9	205.2	V	205.2	15.1	190.1	V	18.5
55.0 to 59.9	366.6	V	366.6	S	343.9	V	15.1
60.0 to 64.9	1 095.1	V	1 095.1	S	1 093.9	V	9.1
65.0 to 69.9	1 065.1	V	1 065.1	S	1 059.9	V	9.3
70.0 to 74.9	457.1	V	457.1	V	457.1	V	14.8
75.0 to 79.9	173.5	V	173.5	V	167.2	S	26.3
80.0 or more	S	V	S	V	S	V	S
MILES PER GALLON							
Less than 5	486.0	177.3	308.7	S	305.9	V	11.8
5 to 6.9	2 986.6	377.4	2 609.2	S	2 566.5	S	4.7
7 to 8.9	638.9	411.0	227.9	6.1	221.8	V	11.2
9 to 10.9	2 084.7	2 006.8	77.9	S	S	V	19.3
11 to 12.9	2 618.4	2 536.0	S	S	S	V	19.5
13 to 14.9	3 724.8	3 559.2	S	S	S	V	24.5
15 or more	25 212.1	25 200.7	S	S	S	V	5.5
15 to 20.9	19 462.3	19 451.0	S	S	V	V	6.2
21 to 24.9	4 119.9	V	V	V	V	V	20.3
25 or more	1 629.9	V	V	V	V	V	27.7
Not reported	7 859.5	7 184.6	674.9	32.3	640.3	S	11.7
Not applicable ²	S	S	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
MODEL YEAR								
2003	S	S	S	V	S	V	V	S
2002	2 209.9	2 019.2	190.7	S	185.8	V	V	18.6
2001	5 316.9	4 892.9	424.0	S	417.9	V	V	13.9
2000	4 773.2	4 253.0	520.2	S	509.2	V	V	14.7
1999	4 872.2	4 078.2	794.0	S	634.8	S	V	15.6
1998	4 395.7	4 020.5	375.3	S	357.2	S	V	14.1
1997	3 428.0	3 109.2	318.7	S	300.2	V	V	16.0
1996	3 048.6	2 713.8	334.9	S	323.0	S	V	20.4
1995	3 477.2	3 034.7	442.5	S	431.7	S	V	17.4
1994	2 870.3	2 760.7	109.6	S	100.0	V	V	26.1
1993	2 189.3	2 072.4	116.9	S	113.7	V	V	19.2
Pre-1993	9 031.7	8 505.8	525.9	119.6	406.4	V	V	11.8
VEHICLE ACQUISITION								
New	20 510.4	18 078.8	2 431.6	S	2 159.8	S	V	5.9
Used	23 235.9	21 680.4	1 555.5	87.9	1 461.3	S	V	6.6
Not reported	1 902.7	1 731.9	170.8	S	163.8	V	V	21.1
LEASE CHARACTERISTICS								
Leased	4 802.4	3 334.4	1 468.0	S	1 461.5	S	V	11.4
Lessee	3 507.6	3 005.2	502.4	S	495.9	S	V	15.3
Vehicle only	752.4	258.0	494.4	S	491.3	V	V	12.0
Vehicle with driver	S	V	S	S	S	S	V	S
Not reported	S	S	V	V	V	V	V	S
Not applicable ⁴	2 745.7	2 745.7	V	V	V	V	V	19.2
Lessor	1 160.3	242.1	918.1	V	918.1	V	V	9.2
Vehicle only	916.8	236.1	680.7	V	680.7	V	V	10.6
Vehicle with driver	240.2	S	237.4	V	237.4	V	V	21.6
Not reported	S	S	V	V	V	V	V	S
Not applicable ⁴	V	V	V	V	V	V	V	N
Not reported	S	S	47.4	V	47.4	V	V	S
Not leased	24 659.1	23 069.4	1 589.7	75.5	1 503.2	S	V	6.4
Not reported	16 187.5	15 087.3	1 100.1	S	820.1	S	V	6.9
Length of leasing agreement:								
Leased	4 802.4	3 334.4	1 468.0	S	1 461.5	S	V	11.4
1 to 11 months	145.6	S	121.2	V	121.2	V	V	26.9
12 months or more	1 804.1	471.0	1 333.1	S	1 326.7	V	V	7.3
Not reported	S	S	S	V	S	V	V	S
Not applicable ⁴	2 830.2	2 830.2	V	V	V	V	V	18.8
Provisions of lease ⁵ :								
Financing only	1 131.1	333.7	797.5	S	794.4	V	V	9.6
Full maintenance	985.1	223.2	762.0	V	762.0	V	V	10.3
Payment of taxes	1 052.0	203.5	848.5	V	845.1	S	V	9.9
Obtaining licenses and permits	1 063.3	221.5	841.8	V	841.8	V	V	9.7
Recordkeeping	610.3	147.7	462.6	V	462.6	V	V	12.9
Fuel contract	403.4	94.8	308.6	V	308.6	V	V	16.3
PRIMARY OPERATOR CLASSIFICATION								
Private	8 301.3	7 318.5	982.8	346.8	636.0	V	V	10.6
Motor carrier	2 129.1	340.5	1 788.6	V	1 774.3	S	V	6.4
Owner operator	1 254.7	329.7	925.0	S	916.4	S	V	11.1
Rental	1 031.7	S	458.1	V	458.1	V	V	43.5
Personal transportation	32 894.1	32 890.9	S	S	V	V	V	4.4
Not applicable ²	S	S	V	V	V	V	V	S
For-hire characteristics:								
Type of carrier:								
Contract	1 972.3	301.3	1 671.0	V	1 665.3	S	V	7.1
Common	1 101.0	176.7	924.3	V	911.6	S	V	8.7
Not reported	218.6	100.3	118.3	S	113.7	V	V	18.7
Not applicable ⁶	42 357.1	40 912.9	1 444.2	350.0	1 094.2	V	V	3.5
Type of service:								
Truckload	2 635.1	284.6	2 350.5	S	2 329.9	S	V	5.6
Less-than truckload	457.7	197.9	259.7	V	257.4	S	V	15.1
Not reported	199.1	95.8	103.3	V	103.3	V	V	19.1
Not applicable ⁶	42 357.1	40 912.9	1 444.2	350.0	1 094.2	V	V	3.5
Source of hauls:								
Shippers or receivers	2 380.6	304.0	2 076.7	V	2 064.6	S	V	6.1
Brokers	437.2	53.2	384.0	V	377.6	S	V	14.3
Centralized markets or exchanges	72.5	S	31.4	V	31.4	V	V	37.1
Other	V	V	V	V	V	V	V	N
Not reported	401.5	180.0	221.6	S	217.0	V	V	15.2
Not applicable ⁶	42 357.1	40 912.9	1 444.2	350.0	1 094.2	V	V	3.5
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	646.0	82.6	563.5	V	563.5	V	V	13.0
Not carrying hazardous materials	4 535.3	1 958.8	2 576.6	131.0	2 427.2	S	V	3.5
Not reported	586.0	248.0	338.0	S	336.0	V	V	12.1
Not applicable ⁸	39 881.6	39 201.7	679.8	S	458.1	V	V	3.8
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	27.8	24.5	S	S	V	V	V	31.8
Air bag(s) (safety device only)	28 236.2	27 439.2	797.0	S	616.8	S	V	5.2
Air compressor (except air brakes)	678.0	117.9	560.2	S	552.3	S	V	11.8
Air-conditioning	39 024.2	35 154.5	3 869.7	S	3 601.9	S	V	4.0
Air springs	2 043.1	244.2	1 798.9	V	1 788.0	S	V	6.6

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	30 226.9	27 732.9	2 494.0	S	2 280.1	S	V	4.6
Collision warning system	127.8	49.8	78.0	S	73.4	V	V	29.5
Computerized drive train control unit	6 346.2	5 971.4	374.7	S	218.5	S	V	13.9
Crane	54.9	46.2	S	S	S	S	V	22.8
Electronic vehicle identification device	266.0	S	261.6	V	261.6	V	V	21.9
Engine retarder/brake	2 558.1	234.5	2 323.6	S	2 312.8	S	V	5.3
Front-wheel drive	17 348.5	17 293.8	S	S	V	V	V	8.0
Hoist	363.5	329.8	33.8	33.8	V	V	V	11.1
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	299.5	40.1	259.4	V	257.1	S	V	17.5
Internet access	S	S	S	V	S	V	V	S
Lift gate	278.7	269.5	S	S	V	V	V	19.1
Mounting bar for snowplow	S	S	26.6	26.6	V	V	V	S
Navigational system	S	S	S	V	S	V	V	S
Power take-off	1 128.8	572.1	556.7	22.1	532.3	S	V	6.9
Radial tires	30 870.5	27 627.8	3 242.7	303.8	2 923.8	S	V	4.8
Reflective material in addition to those required by law	987.2	410.0	577.2	S	543.3	S	V	9.7
Road speed governor	2 490.3	545.3	1 945.0	7.5	1 926.5	S	V	5.6
Toolbox	3 854.5	3 257.1	597.4	72.3	522.8	S	V	15.9
Trip recorder or on-board computer with communication capabilities	2 509.5	1 870.9	638.6	S	495.5	S	V	21.9
Trip recorder or on-board computer without communication capabilities	8 232.5	7 864.6	368.0	S	314.9	V	V	10.8
Vehicle control aids for handicapped drivers	V	V	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	V	V	S
Winch	S	S	S	S	S	V	V	S
Transmission type:								
Automatic	33 264.5	32 924.1	340.4	S	108.5	V	V	4.5
Manual	11 100.9	7 717.1	3 383.9	121.5	3 244.0	S	V	8.2
Semiautomated manual	140.2	S	128.8	V	128.8	V	V	28.7
Automated manual	S	S	S	V	S	V	V	S
Not reported	1 007.6	716.6	291.1	S	289.9	V	V	21.4
Braking system:								
Hydraulic (standard)	1 514.6	1 350.7	163.9	81.1	82.9	V	V	29.8
Hydraulic with power assist	588.1	546.9	41.2	27.0	S	V	V	9.0
Air	4 257.5	808.9	3 448.6	24.0	3 406.3	S	V	3.7
Other	V	V	V	V	V	V	V	N
Not reported	442.1	159.7	282.4	S	281.5	V	V	13.5
Not applicable ¹⁰	38 846.7	38 625.0	S	S	V	V	V	3.7
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	38 645.9	38 382.6	S	S	S	V	V	3.9
Diesel	6 603.8	2 709.3	3 894.5	91.6	3 784.6	S	V	5.9
Natural gas	V	V	V	V	V	V	V	N
Propane	S	S	V	V	V	V	V	S
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	S	S	V	V	V	V	V	S
Other	V	V	V	V	V	V	V	N
Not reported	9.2	9.2	V	V	V	V	V	41.6
Not applicable ²	S	S	V	V	V	V	V	S
Cylinders¹¹:								
4 cylinders	5 450.6	5 439.9	S	S	S	V	V	13.6
6 cylinders	26 843.5	22 945.7	3 897.8	S	3 699.1	S	V	5.6
8 cylinders	12 668.5	12 497.0	171.5	161.1	S	V	V	8.0
Other	686.3	608.5	77.8	11.0	66.8	V	V	25.8
Cubic inch displacement¹¹:								
Gasoline fuel								
Less than 200	38 645.9	38 382.6	S	S	S	V	V	3.9
200 to 299	10 327.7	10 327.7	V	V	V	V	V	10.8
300 to 349	17 292.1	17 155.5	S	S	V	V	V	8.1
350 to 399	5 783.5	5 783.5	S	S	V	V	V	12.8
400 or more	4 148.8	4 069.2	S	S	V	V	V	14.5
Not available	833.4	788.7	S	S	V	V	V	34.4
Diesel fuel	260.4	258.0	S	S	S	V	V	33.9
Diesel fuel								
Less than 400	6 603.8	2 709.3	3 894.5	91.6	3 784.6	S	V	5.9
400 to 599	784.9	768.8	16.1	S	S	V	V	25.1
600 to 799	1 600.7	1 479.3	121.4	68.1	53.3	V	V	19.6
800 or more	1 777.2	330.2	1 447.0	S	1 445.1	V	V	6.3
Not available	1 869.0	58.9	1 810.1	S	1 789.5	S	V	6.6
Other fuel	572.0	72.0	499.9	S	494.3	V	V	12.7
Less than 400	S	S	V	V	V	V	V	S
400 or more	S	S	V	V	V	V	V	S
Not available	S	S	V	V	V	V	V	S
Not reported	9.2	9.2	V	V	V	V	V	41.6
Not applicable ²	S	S	V	V	V	V	V	S
REFUELING LOCATION								
Gas station	38 366.9	37 771.7	595.2	S	352.3	S	V	4.0
Truck stop	3 426.0	1 136.7	2 289.3	S	2 271.5	S	V	12.8
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	2 199.5	1 105.5	1 094.1	50.0	1 044.1	V	V	11.3
Other company's/contractor's facility not open to the public	299.3	S	103.2	S	99.3	S	V	37.0
Other	S	S	V	V	V	V	V	S
Not reported	1 319.1	1 243.1	S	S	S	V	V	24.4
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
MAINTENANCE⁵								
General maintenance performed by:								
None performed	623.9	608.2	S	S	S	V	V	35.9
Company-owned maintenance facility	6 141.6	3 749.4	2 392.2	60.4	2 323.1	S	V	10.7
General repair business or private mechanic	19 076.9	17 857.3	1 219.6	33.2	1 184.2	S	V	7.7
Dealership service department	10 598.5	9 931.5	667.0	S	633.6	V	V	8.8
Leasing company	144.9	61.3	83.6	V	80.2	S	V	26.0
Individual not employed/paid by any maintenance type facility	16 768.6	15 838.9	929.7	S	674.2	S	V	6.9
Other	V	V	V	V	V	V	V	N
Not reported	1 145.2	1 134.0	S	S	S	V	V	26.6
Not applicable ²	S	S	V	V	V	V	V	S
Extensive repairs performed by:								
None performed	35 132.4	32 226.7	2 905.7	301.9	2 591.8	S	V	3.9
Company-owned maintenance facility	824.1	577.1	247.0	18.0	229.0	V	V	22.8
General repair business or private mechanic	3 289.4	2 859.2	430.2	S	417.8	S	V	26.0
Dealership service department	2 550.8	2 157.3	393.5	22.2	371.3	V	V	18.1
Leasing company	S	S	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)	266.3	S	63.5	S	60.2	V	V	43.1
Individual not employed/paid by any repair type facility	2 145.9	1 983.5	162.3	S	154.0	V	V	20.4
Other	V	V	V	V	V	V	V	N
Not reported	S	S	S	V	S	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
AXLE ARRANGEMENT								
Driving axles:								
1	24 143.3	23 687.3	456.0	S	209.9	V	V	5.7
2	21 483.5	17 782.1	3 701.4	S	3 574.5	S	V	6.5
3 or more	15.6	15.6	V	V	V	V	V	40.2
Not reported	6.6	6.1	S	V	S	V	V	46.1
Total liftable axles and locations ¹² :								
None	6 516.6	2 588.6	3 928.0	130.6	3 778.9	S	V	7.3
1	145.8	138.1	S	S	S	V	V	21.8
Forward of the drive axle	104.4	103.2	S	S	V	V	V	27.9
Below the chassis	21.4	S	S	S	S	V	V	47.8
Beyond the chassis	S	S	V	V	V	V	V	S
Not reported	18.1	S	S	V	S	V	V	45.1
2 or more	132.4	132.4	V	V	V	V	V	18.4
Forward of the drive axle	60.0	60.0	V	V	V	V	V	24.8
Below the chassis	34.6	34.6	V	V	V	V	V	39.7
Beyond the chassis	20.9	20.9	V	V	V	V	V	38.3
Not reported	S	S	V	V	V	V	V	S
Not reported	S	S	S	V	S	V	V	S
Not applicable ¹⁰	38 846.7	38 625.0	S	S	V	V	V	3.7
Total liftable axles and number of braking axles:								
None	6 516.6	2 588.6	3 928.0	130.6	3 778.9	S	V	7.3
1	145.8	138.1	S	S	S	V	V	21.8
0 braking	S	S	S	S	V	V	V	S
1 braking	129.4	126.5	S	S	V	V	V	23.9
Not reported	S	V	S	V	S	V	V	S
2 or more	132.4	132.4	V	V	V	V	V	18.4
0 braking	V	V	V	V	V	V	V	N
1 braking	V	V	V	V	V	V	V	N
2 or more braking	132.4	132.4	V	V	V	V	V	18.4
Not reported	V	V	V	V	V	V	V	N
Not reported	S	S	S	V	S	V	V	S
Not applicable ¹⁰	38 846.7	38 625.0	S	S	V	V	V	3.7
CAB TYPE								
Conventional cab	6 321.5	2 583.8	3 737.7	130.1	3 589.2	S	V	7.5
With sleeper	2 534.9	V	2 534.9	V	2 516.6	S	V	5.5
Without sleeper	3 667.9	2 583.8	1 084.1	130.1	954.0	V	V	12.6
Not reported	118.7	V	118.7	V	118.7	V	V	27.4
Cab over engine	472.9	274.5	198.4	S	195.6	V	V	11.6
With sleeper	119.2	V	119.2	V	119.2	V	V	29.5
Without sleeper	322.5	274.5	48.0	S	45.2	V	V	12.1
Not reported	S	V	S	V	S	V	V	S
Cab forward of engine	S	S	V	V	V	V	V	S
Cab beside engine	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ¹⁰	38 846.7	38 625.0	S	S	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	45 649.0	6 802.3	3.3	7.0		
TRAILER CONFIGURATION						
No trailer pulled	40 806.7	2 924.4	3.6	15.6		
Single trailer pulled	4 777.3	3 847.8	4.4	3.7		
Double trailers pulled	26.9	26.9	33.2	33.2		
Triple trailers pulled	V	V	N	N		
Not applicable ¹	S	S	S	S		
RANGE OF OPERATION						
Off-the-road	336.2	61.4	28.5	20.3		
50 miles or less	25 331.0	1 997.4	3.9	6.9		
51 to 100 miles	7 099.4	1 226.1	11.6	10.8		
101 to 200 miles	2 635.8	896.7	13.7	14.1		
201 to 500 miles	1 982.7	1 021.3	12.0	12.9		
501 miles or more	2 089.2	841.0	15.1	10.6		
Not reported	6 136.6	755.3	16.9	10.1		
Not applicable ¹	S	S	S	S		
JURISDICTION						
Operated in Canada	128.8	S	39.5	S		
Operated in Mexico	S	S	S	S		
Operated within the home base state	37 479.8	4 548.9	3.6	10.1		
Operated in states other than the home base state	3 515.4	1 595.9	7.6	6.5		
Not reported	4 486.8	630.4	20.4	10.7		
Not applicable ¹	S	S	S	S		
OPERATOR CLASSIFICATION						
Private	8 148.0	2 471.7	9.9	4.5		
Motor carrier	2 122.7	2 122.7	6.4	6.4		
Owner operator	1 252.0	1 160.1	11.1	9.0		
Rental	1 058.0	1 030.7	42.5	43.6		
Personal transportation	33 030.3	13.9	4.4	29.4		
Not applicable ¹	S	S	S	S		
For-hire characteristics:						
Type of carrier:						
Contract	1 870.0	1 870.0	7.1	7.1		
Common	1 203.3	1 203.3	7.9	7.9		
Not reported	218.6	218.6	18.7	18.7		
Not applicable ^{2 3}	42 357.1	3 510.4	3.5	13.1		
Type of service:						
Truckload	556.3	556.3	12.5	12.5		
Less-than truckload	2 536.5	2 536.5	5.5	5.5		
Not reported	199.1	199.1	19.1	19.1		
Not applicable ^{2 3}	42 357.1	3 510.4	3.5	13.1		
PRODUCTS CARRIED⁴						
Animals and fish, live	S	26.0	S	45.3		
Animal feed and products of animal origin	S	58.0	S	34.9		
Grains, cereal	S	40.4	S	20.0		
All other agricultural products	143.7	75.6	46.0	20.8		
Basic chemicals	38.3	38.3	38.1	38.1		
Fertilizers and fertilizer materials	17.4	12.9	27.3	27.3		
Pharmaceutical products	25.5	25.5	39.4	39.4		
All other chemical products and preparations	S	48.4	S	32.0		
Alcoholic beverages	22.5	22.5	42.1	42.1		
Bakery and milled grain products	184.4	180.5	17.2	17.5		
Meat, seafood, and their preparations	197.7	124.6	37.9	23.0		
Tobacco products	S	S	S	S		
All other prepared foodstuffs	432.2	343.2	23.0	15.0		
Logs and other wood in the rough	49.8	49.8	37.4	37.5		
Paper or paperboard articles	81.2	69.1	27.6	27.3		
Printed products	128.4	43.0	48.1	31.1		
Pulp, newsprint, paper, and paperboard	17.6	17.6	41.9	41.9		
Wood products	273.7	209.1	18.8	15.2		
Articles of base metal	748.6	237.9	39.8	14.0		
Base metal in primary or semifinished forms	430.8	296.3	22.2	13.3		
Nonmetallic mineral products	156.3	156.3	19.1	19.1		
Tools, nonpowered	2 450.2	394.5	20.7	10.4		
Tools, powered	1 780.4	315.7	23.8	12.6		
Electronic and other electrical equipment	432.6	91.7	48.9	32.7		
Furniture, mattresses, lamps, etc.	93.0	72.8	31.9	32.0		
Machinery	243.5	144.4	32.4	17.8		
Miscellaneous manufactured products	189.9	96.9	37.0	21.1		
Precision instruments and apparatus	257.1	36.4	45.9	46.3		
Textile, leather, and related articles	S	32.8	S	36.9		
Vehicles, including parts	304.1	257.4	19.2	17.1		
All other transportation equipment	S	S	S	S		
Coal	49.5	49.5	36.0	36.0		
Crude petroleum	S	S	S	S		
Gravel or crushed stone	123.8	123.8	12.5	12.5		
Metallic ores and concentrates	S	S	S	S		
Monumental or building stone	28.8	28.8	29.6	29.6		
Natural sands	32.5	32.5	21.1	21.1		
All other nonmetallic minerals	53.4	53.4	26.3	26.3		
Fuel oils	S	38.4	S	31.2		
Gasoline and aviation turbine fuel	31.8	31.8	36.2	36.2		

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck miles distribution for all trucks	Truck miles distribution excluding pickups, minivans, other light vans, and sport utilities	Coefficient of variation (percent)	
	A	B	A	B
PRODUCTS CARRIED⁴—Con.				
Plastics and rubber	75.0	75.0	24.8	24.8
All other coal and refined petroleum products	38.3	38.3	27.3	27.3
Hazardous waste (EPA manifest)	S	S	S	S
All other waste and scrap (non-EPA manifest)	131.3	130.7	14.7	14.8
Recyclable products	54.9	54.9	26.1	26.1
Mail and courier parcels	160.8	117.8	32.3	25.5
Empty shipping containers	57.0	57.0	25.5	25.5
Passengers	S	S	S	S
Mixed freight	296.5	296.5	18.8	18.8
Products, equipment, or materials not elsewhere classified	8.8	8.8	48.4	48.4
Products not specified	1 059.3	440.8	29.9	14.0
Not applicable ¹	S	S	S	S
HAZARDOUS MATERIALS CARRIED⁴				
Division 1.1, Explosives	S	S	S	S
Division 1.2, Explosives	S	S	S	S
Division 1.3, Explosives	S	S	S	S
Division 1.4, Explosives	S	S	S	S
Division 1.5, Explosives	S	S	S	S
Division 1.6, Explosives	S	S	S	S
Division 2.1, Flammable gas	44.9	44.9	31.6	31.6
Division 2.2, Nonflammable gas	S	S	S	S
Division 2.3, Poison gas	S	S	S	S
Class 3, Flammable	32.2	32.2	33.8	33.8
Combustible liquid	21.4	21.4	36.7	36.7
Oxygen 2, Oxygen	S	S	S	S
Division 4.1, Flammable solid	S	S	S	S
Division 4.2, Spontaneously combustible	S	S	S	S
Division 4.3, Dangerous when wet	3.7	3.7	48.1	48.1
Division 5.1, Oxidizer	11.3	11.3	33.9	33.9
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	33.0	33.0	26.3	26.3
Class 9	6.0	6.0	43.2	43.2
Hazardous materials not specified	4.9	4.9	32.2	32.2
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

