

Alaska: 2002

Issued November 2004

EC02TV-AK

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 Alaska is 2,451 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 Alaska, approximately 75.7 percent of the questionnaires were returned with substantive data. *Item nonresponse* occurs either when a question is unanswered or the response to the question fails computer or analyst edits. The procedures used to account for unit and item nonresponse are discussed below.

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

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

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

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

Unpublished Estimates

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

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

CONFIDENTIALITY AND DISCLOSURE

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

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

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

SYMBOLS

The following symbols are used in this publication:

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



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

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

Vehicular and operational characteristics	2002	1997	1992	1987	Vehicular and operational characteristics	2002	1997	1992	1987
Total	100.0	100.0	100.0	100.0	MODEL YEAR				
BUSINESS¹					1 to 2 years old	15.0	8.5	14.0	12.3
Agriculture, forestry, fishing, or hunting	1.1	4.7	2.4	3.3	3 to 4 years old	13.7	14.8	14.9	20.4
Mining	S	.5	.9	.4	Over 4 years old	71.3	76.7	71.1	67.3
Construction	4.3	7.4	9.4	9.4	VEHICLE ACQUISITION				
Manufacturing .....	.7	.8	.8	.3	New	36.8	33.4	41.7	48.2
Wholesale and retail trade	2.8	4.3	4.7	4.3	Used	53.7	63.4	56.1	49.2
For-hire transportation or warehousing	1.3	1.2	1.6	1.7	Not reported ⁴	9.4	3.2	2.2	2.6
Utilities and all services	4.1	6.2	7.0	7.5	TRUCK TYPE				
Personal transportation	79.3	70.7	68.0	72.4	Single-unit trucks ⁵	96.6	98.5	97.7	97.8
Other, not reported, and not applicable	6.0	4.1	5.0	.7	2 axles	95.8	97.5	96.5	96.5
BODY TYPE					3 axles or more .....	.8	.9	1.2	1.4
Pickup, minivan, other light vans, and sport utility	95.4	94.9	93.8	91.8	Trailer/axles not specified	V	N	N	N
Flatbed, stake, platform, and low boy	1.3	1.7	1.8	3.1	Combinations	3.4	1.5	2.3	2.2
Van ²	1.1	.8	.9	1.1	3 axles	1.3	.2	.4	.3
Service, utility .....	.1	.1	.1	.2	4 axles	1.2	.5	.8	.5
Van, step, walk-in, or multistop .....	.3	.6	.7	1.0	5 axles or more .....	.8	.9	1.1	1.4
Dump .....	.7	.8	1.2	1.3	Trailer/axles not specified .....	.1	V	V	V
Tank for liquids, gases, or dry bulk .....	.3	.4	.4	.5	RANGE OF OPERATION				
Other and not applicable .....	.7	.7	.9	1.0	50 miles or less	70.1	77.9	75.2	74.1
VEHICLE SIZE					51 to 200 miles	6.7	9.9	12.5	14.7
Light	95.3	96.3	94.6	94.5	201 miles or more	5.5	7.7	5.9	6.2
Medium	2.1	1.1	2.3	1.8	Off-the-road, not reported, and not applicable	17.8	4.5	6.4	5.1
Light-heavy .....	.5	.7	.6	.9	FUEL TYPE				
Heavy-heavy	2.1	2.0	2.5	2.7	Gasoline	86.6	90.7	90.9	91.2
ANNUAL MILES					All other fuels	10.1	9.3	8.9	8.8
Less than 5,000 ³	24.8	28.2	27.7	35.2	Other, not reported, and not applicable	3.2	V	.3	V
5,000 to 9,999	31.1	24.3	28.4	28.5					
10,000 to 19,999	36.5	37.3	33.6	26.5					
20,000 to 29,999	5.7	7.3	7.2	6.9					
30,000 or more	1.9	2.9	3.1	2.9					

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

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

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

³Includes vehicles not in use.

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

⁵Excludes truck-tractors not in use.

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

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

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

Vehicular and operational characteristics	2002	1997	Vehicular and operational characteristics	2002	1997
Total	100.0	100.0	MODEL YEAR		
BUSINESS¹			1 to 2 years old	5.3	6.2
Agriculture, forestry, fishing, or hunting	5.6	8.0	3 to 4 years old	8.9	6.5
Mining	3.6	3.5	Over 4 years old	85.9	87.3
Construction	28.9	38.6	VEHICLE ACQUISITION		
Manufacturing	2.8	1.8	New	31.3	28.8
Wholesale and retail trade	11.8	15.8	Used	63.9	64.7
For-hire transportation or warehousing	19.1	12.6	Not reported ⁴	4.8	6.5
Utilities and all services	12.5	8.6	TRUCK TYPE		
Personal transportation	2.6	5.6	Single-unit trucks ⁵	75.8	78.5
Other, not reported, and not applicable	13.1	5.5	2 axles	57.8	60.3
BODY TYPE			3 axles or more	17.9	18.2
Flatbed, stake, platform, and low boy	28.8	33.1	Trailer/axles not specified .....	.1	N
Van ²	23.1	16.7	Combinations	24.2	21.5
Service, utility	3.0	2.3	3 axles .....	.9	.3
Van, step, walk-in, or multistop	7.1	11.9	4 axles	2.4	4.0
Dump	15.7	15.0	5 axles or more	18.1	17.2
Tank for liquids, gases, or dry bulk	7.5	7.7	Trailer/axles not specified	2.9	V
Other and not applicable	14.7	13.2	RANGE OF OPERATION		
VEHICLE SIZE			50 miles or less	67.2	67.5
Light	19.5	29.7	51 to 200 miles	8.6	10.8
Medium	22.8	18.1	201 miles or more	6.2	8.2
Light-heavy	10.9	13.1	Off-the-road, not reported, and not applicable	17.9	13.5
Heavy-heavy	46.7	39.1	FUEL TYPE		
ANNUAL MILES			Gasoline	28.9	40.3
Less than 5,000 ³	49.7	49.1	All other fuels	64.2	59.0
5,000 to 9,999	17.8	18.2	Other, not reported, and not applicable	6.9	.7
10,000 to 19,999	16.2	15.9			
20,000 to 29,999	6.1	6.9			
30,000 or more	10.2	9.8			

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	274.2	248.4	10.4	2 542.2	2 451.6	3.7	9.3	9.9	-6.1
BUSINESS¹									
For-hire transportation or warehousing	3.6	3.1	14.8	99.1	92.3	7.4	27.8	29.7	-6.4
Vehicle leasing or rental	S	S	S	S	S	S	S	S	S
Agriculture, forestry, fishing, or hunting	3.0	11.6	-74.1	S	63.0	S	S	5.4	S
Mining	S	1.2	S	S	S	S	S	S	S
Utilities	S	1.8	S	4.7	S	S	S	S	S
Construction	11.7	18.4	-36.7	115.9	221.4	-47.6	9.9	12.0	-17.3
Manufacturing	2.0	2.1	-1.4	9.3	S	S	4.5	S	S
Wholesale trade	2.1	3.8	-43.4	S	48.5	S	S	12.8	S
Retail trade	5.6	6.9	-18.1	53.8	55.7	-3.4	9.6	8.1	17.9
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	S	N	N	S	N	N	S	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	S	N	N	S	N	N	S	N	N
Other services	4.6	N	N	42.0	N	N	9.2	N	N
Personal transportation	217.3	175.7	23.7	2 026.0	1 748.2	15.9	9.3	9.9	-6.3
Not reported	6.3	V	N	54.4	V	N	8.6	V	N
Not applicable ²	8.9	9.0	-1.0	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks	271.5	246.2	10.3	2 460.9	2 375.1	3.6	9.1	9.6	-6.1
Pickup	139.9	138.6	1.0	1 267.1	1 270.8	-3	9.1	9.2	-1.2
Minivan	24.1	16.1	49.4	227.7	216.2	5.3	9.4	13.4	-29.5
Other light vans	11.2	16.9	-33.6	66.0	141.6	-53.4	5.9	8.4	-29.8
Sport utility	86.4	64.1	34.7	827.7	662.1	25.0	9.6	10.3	-7.2
Armored	S	N	N	S	N	N	S	N	N
Beverage	S	S	S	S	S	S	S	S	S
Concrete mixer .....	.3	.2	41.5	2.4	.8	200.2	8.9	4.2	112.1
Concrete pumper	S	S	N	S	N	N	S	N	N
Crane .....	.1	.3	-80.9	.1	S	N	1.0	S	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	1.5	1.5	-2	12.4	11.5	7.9	8.1	7.5	8.2
Flatbed, stake, or platform	2.9	3.5	-16.6	14.3	16.3	-12.6	4.9	4.7	4.8
Low boy	V	V	V	V	.3	V	V	V	.3
Pole, logging, pulpwood, or pipe	S	.1	S	S	.1	S	S	1.5	S
Service, utility .....	.4	.3	28.8	2.1	1.5	37.1	5.5	5.2	6.4
Service, other .....	.5	.3	50.6	3.6	2.2	63.7	7.1	6.5	8.7
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	V	V	N	V	V	N	V	V	N
Tank, liquids or gases .....	.8	.8	-7.1	6.5	6.6	-1.6	8.4	7.9	5.9
Tow/Wrecker .....	.3	.3	17.1	2.3	3.5	-34.0	7.3	12.9	-43.7
Trash, garbage, or recycling .....	.2	.2	-12.7	1.6	2.1	-26.9	8.5	10.2	-16.2
Vacuum .....	.1	N	N	.5	N	N	10.3	N	N
Van, basic enclosed	1.4	.8	79.1	14.3	6.4	124.1	10.3	8.3	25.2
Van, insulated nonrefrigerated .....	.1	.2	-20.6	.8	13.9	-93.9	6.5	84.1	-92.3
Van, insulated refrigerated .....	.1	.1	-44.8	.4	2.3	-81.6	6.1	18.4	-66.7
Van, open top	S	S	S	S	S	S	S	S	S
Van, step, walk-in, or multistop .....	.9	1.5	-40.9	8.0	13.4	-40.4	9.0	8.9	.8
Van, other .....	.2	N	N	1.4	N	N	5.9	N	N
Other	V	N	N	V	N	N	V	N	N
Truck-tractors	2.7	2.2	20.3	81.3	76.5	6.3	30.3	34.3	-11.7
Automobile carrier	S	V	S	S	S	S	S	S	S
Beverage	S	S	S	S	S	S	S	S	S
Curtainside .....	.1	N	N	.4	N	N	7.4	N	N
Dump .....	.4	.4	20.5	7.0	8.1	-14.0	16.1	22.6	-28.7
Flatbed, stake, or platform .....	.5	.3	77.5	12.9	6.0	114.2	24.6	20.3	20.7
Livestock	V	S	S	V	S	S	V	S	S
Low boy .....	.2	.3	-51.3	2.1	5.4	-60.8	13.1	16.2	-19.4
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	S	S	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe .....	.1	V	N	2.0	S	S	28.5	S	S
Tank, dry bulk	S	V	S	S	S	S	S	S	S
Tank, liquids or gases .....	.2	.1	36.5	7.5	7.0	6.6	47.6	61.0	-21.9
Van, basic enclosed .....	.6	.5	16.9	19.0	12.5	52.1	33.0	25.4	30.0
Van, drop-frame	V	.1	N	S	1.3	S	S	12.5	S
Van, insulated nonrefrigerated .....	.2	.1	178.1	14.0	4.1	240.4	68.2	55.8	22.4
Van, insulated refrigerated .....	.2	S	S	13.5	S	S	57.9	S	S
Other	S	N	N	S	N	N	S	N	N
Not applicable ³ .....	.1	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	59.0	62.8	-6.0	131.7	137.8	-4.4	2.2	2.2	1.7
5,000 to 9,999	85.3	60.4	41.1	596.9	404.7	47.5	7.0	6.7	4.5
10,000 to 19,999	100.1	92.7	8.0	1 217.2	1 172.4	3.8	12.2	12.7	-3.8
20,000 to 29,999	15.7	18.1	-13.6	347.4	403.4	-13.9	22.2	22.3	-3
30,000 to 49,999	3.3	5.6	-41.2	106.4	198.2	-46.3	32.2	35.3	-8.7
50,000 to 74,999	S	.2	S	S	11.6	S	S	57.1	S
75,000 or more .....	.4	1.3	-70.7	41.1	123.6	-66.8	107.7	94.8	13.6
Not applicable ²	8.9	7.2	23.1	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	S	4.0	S	S	28.8	S	S	7.3	S
50 miles or less	192.1	193.6	-7	1 772.7	1 786.2	-8	9.2	9.2	V
51 to 100 miles	14.4	17.8	-18.7	190.9	266.9	-28.5	13.2	15.0	-12.0
101 to 200 miles	3.8	6.8	-43.7	35.6	76.0	-53.2	9.3	11.2	-16.7
201 to 500 miles	4.4	9.6	-53.8	78.3	130.9	-40.2	17.7	13.7	29.3
501 miles or more	10.7	9.5	12.3	140.7	162.8	-13.6	13.1	17.1	-23.0
Not reported	38.2	7.2	429.8	306.5	V	N	8.0	V	N
Not applicable ²	8.9	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	S	N	N	12.4	N	N	S	N	N
Operated in Mexico	S	N	N	S	N	N	S	N	N
Operated within the home base state	230.4	N	N	2 202.5	N	N	9.6	N	N
Operated in states other than the home base state	4.1	N	N	69.9	N	N	16.9	N	N
Not reported	30.0	N	N	250.5	N	N	8.4	N	N
Not applicable ²	8.9	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	166.0	N	N	1 764.3	N	N	10.6	N	N
7 to 11	50.7	N	N	518.0	N	N	10.2	N	N
2 to 6	38.0	N	N	229.7	N	N	6.0	N	N
1 or less	10.6	N	N	23.4	N	N	2.2	N	N
Vehicle not used	8.9	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	261.3	239.1	9.2	2 365.9	2 311.0	2.4	9.1	9.7	-6.3
Medium	5.7	2.7	114.3	59.9	20.2	196.0	10.5	7.6	38.1
Light-heavy	1.4	1.6	-17.0	7.6	22.9	-67.0	5.5	13.9	-60.3
Heavy-heavy	5.9	4.9	18.6	108.9	97.5	11.7	18.6	19.8	-5.8
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	200.6	219.4	-8.6	1 760.0	2 053.9	-14.3	8.8	9.4	-6.3
6,001 to 8,500	53.4	N	N	529.4	N	N	9.9	N	N
8,501 to 10,000	7.3	N	N	76.5	N	N	10.5	N	N
10,001 to 14,000	3.7	1.5	143.8	40.5	14.1	186.7	11.1	9.4	17.6
14,001 to 16,000	1.3	.6	123.4	S	2.6	S	S	4.4	S
16,001 to 19,500 .....	.8	.6	30.0	6.9	3.5	97.2	9.0	6.0	51.7
19,501 to 26,000	1.4	1.6	-17.0	7.6	22.9	-67.0	5.5	13.9	-60.3
26,001 to 33,000 .....	.7	.6	15.5	5.2	3.2	63.5	7.1	5.0	41.6
33,001 to 40,000 .....	.7	.7	1.4	4.7	6.0	-20.4	6.3	8.1	-21.5
40,001 to 50,000	1.3	1.4	-6.3	11.8	S	S	8.7	S	S
50,001 to 60,000	1.1	.6	69.5	17.0	8.7	94.7	15.9	13.8	14.9
60,001 to 80,000	1.0	.9	10.9	25.1	18.4	36.1	25.9	21.1	22.7
80,001 to 100,000 .....	.8	.5	65.0	33.9	17.0	100.1	44.0	36.3	21.3
100,001 to 130,000 .....	.1	.1	21.3	7.9	8.4	-6.2	56.0	72.4	-22.7
130,001 or more .....	.1	V	N	3.2	2.7	17.5	44.9	V	N
TOTAL LENGTH (FEET)									
Less than 20.0	223.8	235.3	-4.9	2 005.4	2 255.7	-11.1	9.0	9.6	-6.5
20.0 to 27.9	29.4	7.4	299.6	289.2	51.0	467.2	9.8	6.9	41.9
28.0 to 35.9	12.5	2.9	333.1	107.6	S	S	8.6	S	S
36.0 to 40.9	5.0	.2	2 082.2	47.0	1.4	3 168.9	9.3	6.2	49.8
41.0 to 44.9 .....	.2	.1	18.5	.9	1.7	-43.9	5.6	11.8	-52.7
45.0 to 49.9	S	.1	S	S	1.1	S	S	11.8	S
50.0 to 54.9 .....	.5	.4	17.0	4.6	5.1	-9.8	9.9	12.9	-22.9
55.0 to 59.9 .....	.6	.8	-18.3	12.0	12.0	.1	19.5	15.9	22.6
60.0 to 64.9 .....	.5	.6	-29.6	9.2	S	S	20.3	S	S
65.0 to 69.9 .....	.4	.3	31.4	12.8	7.7	66.2	33.6	26.6	26.5
70.0 to 74.9 .....	.3	.1	134.4	19.1	5.3	263.3	56.2	36.3	55.0
75.0 to 79.9 .....	.1	N	N	4.9	N	N	86.3	N	N
80.0 or more .....	.2	N	N	19.2	N	N	80.0	N	N
MILES PER GALLON									
Less than 5	1.4	1.8	-22.8	30.6	55.9	-45.2	22.2	31.2	-29.0
5 to 6.9	2.5	2.7	-5.8	51.9	33.2	56.3	20.7	12.5	65.9
7 to 8.9	6.1	3.7	63.8	48.3	31.7	52.3	7.9	8.5	-7.0
9 to 10.9	23.7	21.9	8.1	169.0	236.2	-28.4	7.1	10.8	-33.8
11 to 12.9	34.6	41.6	-16.6	354.9	314.5	12.8	10.2	7.6	35.3
13 to 14.9	28.7	39.3	-27.0	262.3	389.8	-32.7	9.1	9.9	-7.8
15 or more	118.4	135.1	-12.3	1 187.7	1 370.8	-13.4	10.0	10.1	-1.2
15 to 20.9	101.4	103.2	-1.8	1 030.2	1 122.1	-8.2	10.2	10.9	-6.5
21 to 24.9	12.5	23.1	-45.9	115.3	186.7	-38.2	9.2	8.1	14.3
25 or more	4.5	8.7	-48.1	42.1	62.0	-32.1	9.3	7.1	30.8
Not reported	49.9	2.3	2 051.9	430.8	19.4	2 118.3	8.6	8.4	3.1
Not applicable ²	8.9	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003 .....	.1	N	N	S	N	N	S	N	N
2002	16.8	N	N	215.1	N	N	12.8	N	N
2001	24.2	N	N	258.7	N	N	10.7	N	N
2000	15.8	N	N	186.5	N	N	11.8	N	N
1999	21.8	N	N	284.7	N	N	13.1	N	N
1998	12.2	S	S	141.8	S	S	11.6	S	S
1997	17.1	8.8	93.7	174.0	113.2	53.7	10.2	12.9	-20.7
1996	13.1	12.2	7.1	128.5	180.1	-28.6	9.8	14.8	-33.4
1995	18.4	14.6	25.5	213.6	223.1	-4.3	11.6	15.2	-23.7
1994	13.7	22.1	-38.1	120.3	283.1	-57.5	8.8	12.8	-31.3
1993	16.0	9.3	72.6	162.7	146.5	11.1	10.2	15.8	-35.6
Pre-1993	105.2	181.4	-42.0	654.9	1 505.5	-56.5	6.2	8.3	-25.0
VEHICLE ACQUISITION									
New	101.0	82.9	21.7	1 088.9	961.1	13.3	10.8	11.6	-6.9
Used	147.4	157.6	-6.5	1 256.8	1 337.8	-6.1	8.5	8.5	.5
Not reported	25.9	7.9	227.4	196.5	152.7	28.7	7.6	19.3	-60.7
LEASE CHARACTERISTICS									
Leased	8.0	N	N	97.2	N	N	12.2	N	N
Lessee	6.0	N	N	74.9	N	N	12.5	N	N
Vehicle only .....	.3	N	N	8.9	N	N	28.5	N	N
Vehicle with driver	S	N	N	S	N	N	S	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ⁴	5.7	N	N	64.6	N	N	11.4	N	N
Lessor	S	N	N	S	N	N	S	N	N
Vehicle only .....	.2	N	N	4.3	N	N	21.3	N	N
Vehicle with driver	V	N	N	1.8	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ⁴	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	155.9	N	N	1 463.3	N	N	9.4	N	N
Not reported	110.3	N	N	981.7	N	N	8.9	N	N
Length of leasing agreement:									
Leased	8.0	N	N	97.2	N	N	12.2	N	N
1 to 11 months .....	.1	N	N	1.7	N	N	18.1	N	N
12 months or more .....	.5	N	N	14.2	N	N	30.0	N	N
Not reported	V	N	N	S	N	N	S	N	N
Not applicable ⁴	7.4	N	N	79.6	N	N	10.8	N	N
Provisions of lease ⁵ :									
Financing only .....	.4	N	N	7.4	N	N	19.1	N	N
Full maintenance .....	.1	N	N	2.3	N	N	23.1	N	N
Payment of taxes .....	.1	N	N	3.5	N	N	32.5	N	N
Obtaining licenses and permits .....	.1	N	N	4.4	N	N	38.0	N	N
Recordkeeping	V	N	N	1.5	N	N	V	N	N
Fuel contract	V	N	N	1.6	N	N	V	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	42.0	N	N	372.0	N	N	8.9	N	N
Motor carrier	3.1	N	N	81.8	N	N	26.3	N	N
Owner operator	1.5	N	N	32.1	N	N	21.5	N	N
Rental	S	N	N	S	N	N	S	N	N
Personal transportation	217.3	N	N	2 026.0	N	N	9.3	N	N
Not applicable ²	8.9	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	1.2	N	N	39.1	N	N	32.5	N	N
Common	1.7	N	N	46.5	N	N	27.9	N	N
Not reported .....	.6	N	N	7.1	N	N	12.0	N	N
Not applicable ⁶	270.7	N	N	2 449.5	N	N	9.0	N	N
Type of service:									
Truckload	1.8	.7	165.4	53.3	33.2	60.6	29.3	48.4	-39.5
Less-than truckload	1.0	.9	16.7	31.9	S	S	31.4	S	S
Not reported .....	.6	N	N	7.4	N	N	11.8	N	N
Not applicable ⁶	270.7	N	N	2 449.5	N	N	9.0	N	N
Source of hauls:									
Shippers or receivers	2.2	N	N	70.4	N	N	31.8	N	N
Brokers .....	.2	N	N	4.6	N	N	29.5	N	N
Centralized markets or exchanges	V	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	1.1	N	N	15.9	N	N	15.0	N	N
Not applicable ⁶	270.7	N	N	2 449.5	N	N	9.0	N	N
HAZARDOUS MATERIALS CARRIED⁷									
Carrying hazardous materials	1.3	1.1	23.2	37.9	28.0	35.4	28.4	25.9	9.8
Not carrying hazardous materials	8.6	10.0	-13.3	101.0	109.2	-7.5	11.7	11.0	6.7
Not reported	1.2	2.2	-46.8	9.9	27.1	-63.3	8.6	12.5	-31.0
Not applicable ⁸	263.1	N	N	2 393.4	N	N	9.1	N	N
EQUIPMENT TYPE^{5 9}									
Aerial work platform/bucket .....	.3	N	N	1.2	N	N	4.7	N	N
Air bag(s) (safety device only)	132.3	37.8	249.6	1 454.2	481.9	201.8	11.0	12.7	-13.7
Air compressor (except air brakes) .....	.6	N	N	9.7	N	N	15.0	N	N
Air-conditioning	157.9	104.6	51.0	1 673.6	1 285.0	30.2	10.6	12.3	-13.7
Air springs	1.0	N	N	36.1	N	N	34.8	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE^{5 9}—Con.									
Antilock brake system	140.2	91.0	54.1	1 553.5	1 123.6	38.3	11.1	12.4	-10.3
Collision warning system .....	.1	N	N	S	N	N	S	N	N
Computerized drive train control unit	25.8	N	N	292.9	N	N	11.4	N	N
Crane .....	.4	N	N	2.1	N	N	5.1	N	N
Electronic vehicle identification device .....	.1	.1	14.3	4.7	2.3	107.0	72.5	40.0	81.1
Engine retarder/brake	3.0	2.3	26.3	80.3	68.4	17.4	27.1	29.2	-7.1
Front-wheel drive	212.6	38.4	454.2	2 011.6	420.3	378.6	9.5	11.0	-13.6
Hoist	1.2	N	N	9.4	N	N	7.7	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.) .....	.1	N	N	4.6	N	N	32.8	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate .....	.9	N	N	9.9	N	N	10.8	N	N
Mounting bar for snowplow	8.3	N	N	51.5	N	N	6.2	N	N
Navigational system	V	V	N	V	V	N	V	V	N
Power take-off	3.2	N	N	35.0	N	N	10.9	N	N
Radial tires	169.4	198.8	-14.8	1 649.6	2 099.4	-21.4	9.7	10.6	-7.8
Reflective material in addition to those required by law	1.0	1.9	-43.8	20.5	30.3	-32.4	19.5	16.3	20.3
Road speed governor	1.4	1.8	-25.5	37.1	47.8	-22.3	27.0	25.9	4.2
Toolbox	23.2	N	N	216.2	N	N	9.3	N	N
Trip recorder or on-board computer with communication capabilities	6.5	N	N	72.6	N	N	11.2	N	N
Trip recorder or on-board computer without communication capabilities	39.6	N	N	484.5	N	N	12.2	N	N
Vehicle control aids for handicapped drivers	V	V	N	V	V	N	V	V	N
Wheelchair lift	S	V	S	S	V	S	S	V	S
Winch	3.6	N	N	25.5	N	N	7.2	N	N
Transmission type:									
Automatic	189.2	N	N	1 752.3	N	N	9.3	N	N
Manual	65.9	N	N	632.8	N	N	9.6	N	N
Semiautomated manual	S	N	N	S	N	N	S	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	18.4	N	N	152.8	N	N	8.3	N	N
Braking system:									
Hydraulic (standard)	3.4	3.1	10.7	23.2	21.5	8.0	6.8	6.9	-2.5
Hydraulic with power assist	2.5	3.0	-16.2	17.3	19.3	-10.4	6.8	6.3	7.0
Air	5.9	5.7	2.9	105.5	99.9	5.6	18.0	17.5	2.6
Other	V	.2	N	V	1.6	N	V	10.5	N
Not reported	7	N	N	7.7	N	N	11.3	N	N
Not applicable ¹⁰	261.7	N	N	2 388.5	N	N	9.1	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	237.6	225.3	5.5	2 186.8	2 120.4	3.1	9.2	9.4	-2.2
Diesel	27.1	21.8	24.4	330.4	325.6	1.5	12.2	14.9	-18.4
Natural gas	V	N	N	V	N	N	V	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	S	N	N	S	N	N	S	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ²	8.9	N	N	S	N	N	S	N	N
Cylinders¹¹:									
4 cylinders	33.9	36.0	-5.8	302.9	318.6	-4.9	8.9	8.9	.9
6 cylinders	112.4	98.3	14.4	1 112.7	1 046.3	6.3	9.9	10.6	-7.0
8 cylinders	120.8	102.9	17.5	1 088.1	1 034.6	5.2	9.0	10.1	-10.5
Other	7.1	11.3	-37.2	38.5	52.0	-26.0	5.4	4.6	17.7
Cubic inch displacement¹¹:									
Gasoline fuel	237.6	225.3	5.5	2 186.8	2 120.4	3.1	9.2	9.4	-2.2
Less than 200	58.7	72.0	-18.4	548.2	629.3	-12.9	9.3	8.7	6.8
200 to 299	80.0	45.6	75.3	776.2	520.8	49.0	9.7	11.4	-15.0
300 to 349	45.4	33.9	34.1	433.7	325.6	33.2	9.5	9.6	-7
350 to 399	40.6	52.2	-22.2	339.3	510.3	-33.5	8.4	9.8	-14.5
400 or more	9.2	9.7	-5.3	70.1	68.4	2.4	7.7	7.1	8.1
Not available	3.7	11.9	-68.8	19.3	65.9	-70.7	5.2	5.5	-6.2
Diesel fuel	27.1	21.8	24.4	330.4	325.6	1.5	12.2	14.9	-18.4
Less than 400	9.6	7.8	22.2	77.9	66.1	17.9	8.1	8.4	-3.5
400 to 599	12.8	9.0	41.2	150.4	155.7	-3.4	11.8	17.2	-31.6
600 to 799	1.2	.9	35.1	23.0	13.7	67.5	18.8	15.1	24.0
800 or more	1.9	1.8	6.9	54.6	72.0	-24.2	28.9	40.7	-29.1
Not available	1.7	2.2	-26.1	24.4	18.0	35.3	14.7	8.0	83.1
Other fuel	S	S	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	S	S	S	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ²	8.9	N	N	S	N	N	S	N	N
REFUELING LOCATION									
Gas station	231.1	N	N	2 207.7	N	N	9.6	N	N
Truck stop	3.0	N	N	59.6	N	N	20.1	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	9.6	N	N	89.9	N	N	9.3	N	N
Other company's/contractor's facility not open to the public	1.6	N	N	16.5	N	N	10.1	N	N
Other	S	N	N	S	N	N	S	N	N
Not reported	19.5	N	N	154.7	N	N	8.0	N	N
Not applicable ²	8.9	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	10.0	3.8	162.7	41.4	S	S	4.1	S	S
Company-owned maintenance facility	19.0	16.3	16.5	211.1	156.4	34.9	11.1	9.6	15.8
General repair business or private mechanic	107.6	78.8	36.6	1 059.6	811.4	30.6	9.8	10.3	-4.4
Dealership service department	59.5	37.5	58.4	599.9	438.1	36.9	10.1	11.7	-13.5
Leasing company	V	S	S	V	S	S	V	S	S
Individual not employed/paid by any maintenance type facility									
Other	103.8	140.9	-26.3	1 041.7	1 368.7	-23.9	10.0	9.7	3.3
Not reported	V	3.0	N	V	38.3	N	V	13.0	N
Not applicable ²	22.3	9.8	127.1	182.2	78.1	133.2	8.2	8.0	2.7
.....	8.9	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	196.0	20.3	866.6	1 799.4	200.6	797.2	9.2	9.9	-7.2
Company-owned maintenance facility	2.7	6.3	-56.7	33.1	46.7	-29.1	12.1	7.4	63.7
General repair business or private mechanic	19.2	49.6	-61.3	173.9	470.8	-63.1	9.1	9.5	-4.5
Dealership service department	12.4	26.8	-53.8	170.6	340.3	-49.9	13.8	12.7	8.6
Leasing company	V	S	S	V	S	S	V	S	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility .....	.1	5.9	-98.2	2.8	78.0	-96.4	26.9	13.3	102.1
Other	15.2	29.9	-49.0	206.3	280.0	-26.3	13.5	9.4	44.4
Not reported	V	S	S	V	S	S	V	S	S
Not applicable ²	8.9	118.5	S	S	1 112.4	S	S	9.4	S
.....	8.9	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	265.0	244.6	8.3	2 411.1	2 330.5	3.5	9.1	9.5	-4.5
3 axles	262.6	242.3	8.4	2 392.2	2 314.1	3.4	9.1	9.6	-4.6
4 axles	2.2	2.3	-1.7	16.9	16.2	4.3	7.6	7.2	6.1
5 axles or more .....	.1	V	N	1.8	.2	1 110.8	18.1	V	N
Not reported	S	N	N	S	N	N	S	N	N
.....	S	V	S	S	V	N	S	V	S
Combinations									
Single-unit trucks with trailer	9.3	3.8	143.1	131.1	121.1	8.3	14.2	31.8	-55.4
3 axles	6.7	1.6	325.6	49.9	S	S	7.4	S	S
4 axles	3.5	S	S	24.3	S	S	7.0	S	S
5 axles or more	3.0	S	S	21.5	S	S	7.1	S	S
Not reported .....	.2	.2	-11.3	3.4	2.8	21.6	20.9	15.2	37.0
Truck-tractors with single trailer	2.3	2.1	10.5	61.9	64.8	-4.5	26.8	31.0	-13.5
3 axles .....	.1	S	S	S	S	S	S	S	S
4 axles .....	.2	.2	-19.6	1.0	3.5	-70.5	5.8	15.8	-63.3
5 axles or more	1.9	1.8	1.5	57.7	60.8	-5.1	30.9	33.0	-6.5
Not reported .....	.2	N	N	2.7	N	N	12.8	N	N
Truck-tractors with double trailers .....	.2	.1	70.2	18.9	11.7	61.7	78.6	82.7	-5.0
5 axles	V	V	N	V	V	N	V	V	N
6 axles	S	V	S	S	V	S	S	V	S
7 axles	V	.1	N	2.7	5.4	-49.2	V	79.7	N
8 axles or more .....	.2	.1	158.8	15.5	6.3	145.9	81.3	85.5	-5.0
Not reported	S	N	N	S	N	N	N	N	N
Truck-tractors with triple trailers	S	V	S	V	V	S	S	V	S
7 axles	V	V	N	V	V	V	V	V	N
8 axles	V	V	N	V	V	N	V	V	N
9 axles	V	V	N	V	V	N	V	V	N
10 axles or more	S	V	S	S	V	S	S	V	S
Not reported	V	N	N	V	N	N	V	N	N
Driving axles:									
1	55.6	100.5	-44.7	420.1	884.6	-52.5	7.6	8.8	-14.1
2	218.5	147.8	47.9	2 121.7	1 566.6	35.4	9.7	10.6	-8.4
3 or more	V	.2	N	S	.4	N	S	2.8	S
Not reported .....	.1	V	N	.2	V	N	3.0	V	N
Total liftable axles and locations ¹² :									
None	12.3	5.2	138.1	149.2	58.4	155.4	12.2	11.3	7.3
1 .....	.2	.1	58.1	4.3	1.7	145.5	21.4	13.8	55.3
Forward of the drive axle .....	.1	N	N	2.3	N	N	27.3	N	N
Below the chassis	S	N	N	S	N	N	S	N	N
Beyond the chassis	V	N	N	.2	N	N	V	N	N
Not reported .....	.1	N	N	1.2	N	N	19.0	N	N
2 or more	S	V	S	S	.2	S	S	V	S
Forward of the drive axle	S	N	N	S	N	N	S	N	N
Below the chassis	V	N	N	V	N	N	V	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	.2	N	N	V	N	N
Not applicable ¹⁰	261.7	N	N	2 388.5	N	N	9.1	N	N
Total liftable axles and number of braking axles:									
None	12.3	5.2	138.1	149.2	58.4	155.4	12.2	11.3	7.3
1 .....	.2	.1	58.1	4.3	1.7	145.5	21.4	13.8	55.3
0 braking	S	N	N	S	N	N	S	N	N
1 braking .....	.2	N	N	4.1	N	N	23.0	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	S	V	S	S	.2	S	S	V	S
0 braking	V	N	N	V	N	N	V	N	N
1 braking	V	N	N	V	N	N	V	N	N
2 or more braking	S	N	N	S	N	N	S	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	.2	N	N	V	N	N
Not applicable ¹⁰	261.7	N	N	2 388.5	N	N	9.1	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
CAB TYPE									
Conventional cab	11.2	9.5	17.8	138.8	103.6	34.0	12.4	10.9	13.7
With sleeper .....	.9	N	N	47.1	N	N	55.0	N	N
Without sleeper	10.2	N	N	88.4	N	N	8.7	N	N
Not reported .....	.1	N	N	3.4	N	N	29.1	N	N
Cab over engine	1.3	1.6	-22.8	14.5	14.6	-8	11.4	8.9	28.5
With sleeper .....	.1	N	N	3.7	N	N	28.8	N	N
Without sleeper	1.1	N	N	10.3	N	N	9.2	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	S	.4	S	S	S	S	S	S	S
Cab beside engine	S	.1	S	S	S	S	S	S	S
Not reported .....	.1	N	N	.2	N	N	3.9	N	N
Not applicable ¹⁰	261.7	N	N	2 388.5	N	N	9.1	N	N

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

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

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

³Truck-tractors not in use.

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

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

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

⁷Distributed miles data are available in Table 8.

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

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

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

¹¹Data were derived from administrative records.

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

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

Note: Table 2b provides estimated measures of sampling variability. The Introduction gives information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to this information on the Internet may be found at www.census.gov/svsd/www/02vehinv.html.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
Total .....	.9	3.1	3.5	3.4	4.1	5.6	3.3	3.7	4.7
BUSINESS									
For-hire transportation or warehousing	23.3	25.0	39.2	21.5	26.8	36.9	14.3	23.0	25.3
Vehicle leasing or rental	S	S	S	S	S	S	S	S	S
Agriculture, forestry, fishing, or hunting	38.3	30.8	12.7	S	26.6	S	S	32.5	S
Mining	S	44.4	S	S	S	S	S	S	S
Utilities	S	40.7	S	47.6	S	S	S	S	S
Construction	18.2	11.8	13.7	22.6	16.0	14.5	10.9	9.0	11.7
Manufacturing	47.9	39.1	61.0	35.8	S	S	30.9	S	S
Wholesale trade	45.8	27.9	30.3	S	33.2	S	S	20.2	S
Retail trade	28.7	21.0	29.1	38.0	22.0	42.4	25.7	9.8	32.4
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	S	N	N	S	N	N	S	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	S	N	N	S	N	N	S	N	N
Other services	32.8	N	N	40.0	N	N	20.6	N	N
Personal transportation	2.3	3.8	5.5	4.3	5.3	8.0	3.6	3.5	4.7
Not reported	28.5	N	N	35.0	N	N	20.0	N	N
Not applicable ¹	23.7	38.6	44.8	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks .....	.9	3.1	3.6	3.5	4.2	5.7	3.4	3.8	4.8
Pickup	1.3	4.6	4.8	5.1	5.9	7.8	4.9	6.1	7.8
Minivan	13.7	14.1	29.4	16.5	15.6	23.9	9.2	6.7	8.0
Other light vans	21.4	13.7	16.8	29.6	17.6	16.1	20.5	11.1	16.4
Sport utility	4.6	8.0	12.5	7.5	10.1	15.7	5.9	4.8	7.1
Armored	S	N	N	S	N	N	S	N	N
Beverage	S	S	S	S	S	S	S	S	S
Concrete mixer	14.5	15.6	30.2	31.6	23.2	117.5	28.0	17.2	69.6
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	46.1	19.2	9.5	49.1	S	S	37.0	S	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	6.7	6.5	9.3	11.0	10.7	16.6	9.6	9.9	14.9
Flatbed, stake, or platform	5.8	5.5	6.6	10.8	9.8	12.7	9.3	8.2	13.0
Low boy	N	37.2	N	N	49.1	N	N	31.7	N
Pole, logging, pulpwood, or pipe	S	39.3	S	S	40.6	S	S	35.1	S
Service, utility	19.2	23.9	39.4	28.5	41.6	69.2	20.8	33.5	41.9
Service, other	16.0	21.7	40.7	21.3	32.4	63.4	14.0	25.2	31.4
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	N	N	N	N	N	N	N	N	N
Tank, liquids or gases	10.5	10.5	13.8	16.6	16.8	23.2	13.5	11.8	19.0
Tow/Wrecker	19.2	22.6	34.7	31.4	39.3	33.2	24.1	30.8	22.0
Trash, garbage, or recycling	21.2	18.3	24.4	23.1	22.8	23.7	15.1	15.3	18.0
Vacuum	34.9	N	N	47.0	N	N	31.5	N	N
Van, basic enclosed	9.0	13.6	29.3	13.6	18.0	50.6	10.4	13.0	20.9
Van, insulated nonrefrigerated	30.7	22.1	30.0	38.7	25.0	2.8	28.3	7.5	2.3
Van, insulated refrigerated	38.9	37.8	30.0	39.9	42.0	10.6	21.5	16.0	8.9
Van, open top	S	S	S	S	S	S	S	S	S
Van, step, walk-in, or multistop	12.0	10.0	9.2	18.4	15.4	14.3	14.0	11.8	18.5
Van, other	24.9	N	N	33.3	N	N	22.2	N	N
Other	N	N	N	N	N	N	N	N	N
Truck-tractors	3.3	7.5	9.8	6.5	27.6	30.1	6.0	20.9	19.2
Automobile carrier	S	40.8	S	S	S	S	S	S	S
Beverage	S	N	N	S	S	S	S	S	S
Curtainside	32.6	N	N	42.3	N	N	26.7	N	N
Dump	11.6	11.4	19.6	17.8	17.5	21.5	13.2	13.3	13.4
Flatbed, stake, or platform	10.6	12.6	29.2	17.5	21.4	59.3	14.8	17.3	27.5
Livestock	N	S	S	N	S	S	N	S	S
Low boy	18.9	11.8	10.9	32.5	20.1	15.0	26.5	16.2	25.1
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	S	S	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe	29.2	40.8	N	43.4	S	S	32.0	S	S
Tank, dry bulk	S	45.6	S	S	S	S	S	S	S
Tank, liquids or gases	20.7	20.7	39.9	24.5	24.1	36.6	15.3	12.1	15.2
Van, basic enclosed	10.1	10.6	17.1	16.0	14.9	33.3	12.9	11.7	22.7
Van, drop-frame	46.1	21.9	N	S	25.8	S	S	13.6	S
Van, insulated nonrefrigerated	16.7	26.1	86.2	18.5	30.5	121.6	8.1	15.8	21.8
Van, insulated refrigerated	15.7	S	S	21.3	S	S	14.6	S	S
Other	S	N	N	S	N	N	S	N	N
Not applicable ²	21.5	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	8.4	8.0	10.9	10.4	8.0	12.5	5.9	6.3	8.8
5,000 to 9,999	6.7	8.4	15.1	6.9	7.9	15.5	1.7	2.1	2.8
10,000 to 19,999	6.0	7.4	10.3	6.1	7.1	9.7	1.5	1.5	2.0
20,000 to 29,999	18.2	13.5	19.5	18.3	13.6	19.6	2.0	1.6	2.6
30,000 to 49,999	38.6	24.2	26.8	37.9	24.4	24.2	2.4	3.5	3.9
50,000 to 74,999	S	20.7	S	S	20.1	S	S	2.2	S
75,000 or more	11.9	41.4	12.6	12.3	39.5	13.7	3.1	7.1	8.9
Not applicable ¹	23.7	46.8	64.6	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	S	24.5	S	S	43.6	S	S	35.3	S
50 miles or less	3.0	3.4	4.5	4.9	4.0	6.3	3.8	3.4	5.1
51 to 100 miles	18.9	13.6	18.9	25.8	19.2	23.0	17.7	13.4	19.5
101 to 200 miles	36.6	22.5	24.2	31.0	27.3	19.4	14.1	16.2	17.9
201 to 500 miles	34.2	46.3	26.6	31.3	42.3	31.4	12.9	11.6	22.5
501 miles or more	22.3	18.9	32.8	24.0	27.4	31.5	15.1	23.1	21.3
Not reported	11.2	46.8	255.0	12.2	N	N	5.0	N	N
Not applicable ¹	23.7	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	S	N	N	37.9	N	N	S	N	N
Operated in Mexico	S	N	N	S	N	N	S	N	N
Operated within the home base state	2.1	N	N	4.1	N	N	3.6	N	N
Operated in states other than the home base state	36.5	N	N	37.5	N	N	19.3	N	N
Not reported	12.9	N	N	14.3	N	N	6.4	N	N
Not applicable ¹	23.7	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	3.7	N	N	4.9	N	N	3.4	N	N
7 to 11	9.4	N	N	12.2	N	N	8.1	N	N
2 to 6	10.9	N	N	16.3	N	N	12.1	N	N
1 or less	21.8	N	N	37.1	N	N	29.1	N	N
Vehicle not used	23.7	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	1.0	3.2	3.7	3.7	4.3	5.8	3.5	3.9	4.9
Medium	22.5	15.7	58.7	31.1	30.2	128.3	16.3	16.6	32.1
Light-heavy	9.1	8.7	10.4	15.0	16.2	7.3	12.0	14.7	7.5
Heavy-heavy	2.2	3.7	5.1	5.0	21.7	24.8	5.0	18.7	18.2
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2.7	3.7	4.2	4.5	4.5	5.4	3.6	3.7	4.9
6,001 to 8,500	9.1	N	N	13.4	N	N	9.8	N	N
8,501 to 10,000	25.8	N	N	31.0	N	N	14.6	N	N
10,001 to 14,000	31.3	26.9	100.6	42.4	42.5	172.2	23.2	18.4	34.9
14,001 to 16,000	45.1	16.1	107.0	S	28.4	S	S	25.2	S
16,001 to 19,500	13.1	16.0	26.9	22.5	23.7	64.5	18.2	17.5	38.2
19,501 to 26,000	9.1	8.7	10.4	15.0	16.2	7.3	12.0	14.7	7.5
26,001 to 33,000	12.2	11.3	19.2	18.7	18.4	42.9	14.4	14.4	28.8
33,001 to 40,000	10.9	8.5	14.0	15.6	14.6	17.1	12.2	11.9	13.4
40,001 to 50,000	6.2	11.5	12.3	10.7	S	S	9.1	S	S
50,001 to 60,000	7.0	9.5	20.0	13.8	15.8	40.9	12.0	13.9	21.1
60,001 to 80,000	7.5	6.8	11.2	13.0	11.1	23.2	10.9	8.7	17.1
80,001 to 100,000	8.0	9.8	20.8	11.5	13.5	35.4	8.4	9.3	15.2
100,001 to 130,000	20.4	20.6	35.2	24.9	23.1	31.9	14.4	10.5	13.8
130,001 or more	29.0	40.7	N	38.0	42.3	66.8	24.6	11.2	N
TOTAL LENGTH (FEET)									
Less than 20.0	2.1	3.3	3.7	4.5	4.2	5.5	4.0	3.7	5.1
20.0 to 27.9	12.1	5.7	53.4	14.6	12.3	108.1	6.8	7.9	14.8
28.0 to 35.9	19.2	18.6	115.8	21.8	S	S	10.8	S	S
36.0 to 40.9	32.0	18.7	808.8	38.7	24.6	1 499.0	22.1	16.4	41.2
41.0 to 44.9	22.4	29.2	43.6	34.6	40.9	30.0	27.6	35.5	21.3
45.0 to 49.9	S	33.5	S	S	34.3	S	S	28.8	S
50.0 to 54.9	12.2	13.7	21.4	15.5	16.8	20.6	11.8	14.2	14.2
55.0 to 59.9	9.5	7.8	10.0	15.6	13.3	20.6	12.8	10.8	20.5
60.0 to 64.9	12.1	24.4	19.1	18.0	S	S	13.8	S	S
65.0 to 69.9	12.0	12.7	23.0	17.3	18.9	42.5	12.4	14.0	23.6
70.0 to 74.9	12.8	18.4	52.5	17.4	23.6	106.4	11.8	14.7	29.2
75.0 to 79.9	32.6	N	N	41.1	N	N	25.3	N	N
80.0 or more	15.4	N	N	16.4	N	N	5.9	N	N
MILES PER GALLON									
Less than 5	6.9	10.2	9.5	10.7	37.6	21.4	9.4	29.5	22.0
5 to 6.9	5.3	5.3	7.0	8.7	8.0	18.5	7.9	7.4	18.0
7 to 8.9	25.0	17.9	50.4	27.3	20.8	52.4	14.1	12.4	17.5
9 to 10.9	14.3	11.8	20.0	16.9	21.6	19.6	9.0	17.8	13.2
11 to 12.9	11.9	11.2	13.6	14.5	12.5	21.6	8.2	11.7	19.3
13 to 14.9	13.3	11.7	12.9	16.2	13.4	14.2	9.3	6.4	10.4
15 or more	5.2	5.7	6.7	7.6	6.4	8.6	5.5	4.5	7.0
15 to 20.9	5.9	6.7	8.8	8.5	7.6	10.5	6.1	5.1	7.4
21 to 24.9	20.8	12.0	13.0	22.8	14.5	16.7	9.5	8.1	14.3
25 or more	35.1	39.7	27.5	45.2	36.3	39.3	29.0	20.5	46.5
Not reported	9.5	23.5	546.2	10.8	16.1	431.3	5.5	27.2	28.6
Not applicable ¹	23.7	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	46.3	N	N	S	N	N	S	N	N
2002	17.7	N	N	21.0	N	N	12.0	N	N
2001	14.5	N	N	15.8	N	N	6.9	N	N
2000	18.2	N	N	19.8	N	N	9.5	N	N
1999	15.3	N	N	16.1	N	N	6.8	N	N
1998	20.8	S	S	22.9	S	S	10.8	S	S
1997	17.4	20.0	51.4	17.9	23.2	45.0	6.8	13.1	11.7
1996	20.1	16.7	28.0	22.6	20.0	21.5	11.6	13.5	11.8
1995	16.8	15.2	28.4	22.5	20.5	29.1	15.2	14.2	15.8
1994	19.6	12.2	14.3	22.0	13.6	11.0	10.9	6.3	8.7
1993	18.1	19.4	45.8	20.4	22.6	33.8	9.6	12.1	9.9
Pre-1993	5.7	4.8	4.3	9.5	6.1	4.9	7.5	4.7	6.7
VEHICLE ACQUISITION									
New	5.9	5.3	9.7	7.1	7.2	11.4	4.3	5.0	6.1
Used	4.2	5.6	6.5	6.8	6.9	9.1	5.4	5.2	7.5
Not reported	13.9	20.3	80.6	15.1	24.4	36.9	6.5	12.8	5.7
LEASE CHARACTERISTICS									
Leased	25.3	N	N	28.3	N	N	17.5	N	N
Lessee	29.6	N	N	34.5	N	N	21.6	N	N
Vehicle only	17.8	N	N	23.5	N	N	20.4	N	N
Vehicle with driver	S	N	N	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ³	31.3	N	N	39.8	N	N	24.7	N	N
Lessor	S	N	N	S	N	N	S	N	N
Vehicle only	19.1	N	N	27.9	N	N	22.9	N	N
Vehicle with driver	34.8	N	N	41.6	N	N	23.0	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ³	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	4.0	N	N	6.2	N	N	4.9	N	N
Not reported	5.5	N	N	6.9	N	N	4.2	N	N
Length of leasing agreement:									
Leased	25.3	N	N	28.3	N	N	17.5	N	N
1 to 11 months	25.5	N	N	37.6	N	N	27.8	N	N
12 months or more	13.8	N	N	18.0	N	N	15.4	N	N
Not reported	45.7	N	N	S	N	N	S	N	N
Not applicable ³	27.4	N	N	34.4	N	N	20.9	N	N
Provisions of lease:									
Financing only	16.1	N	N	21.6	N	N	18.4	N	N
Full maintenance	24.6	N	N	35.4	N	N	25.4	N	N
Payment of taxes	23.7	N	N	34.5	N	N	25.2	N	N
Obtaining licenses and permits	25.1	N	N	38.1	N	N	32.1	N	N
Recordkeeping	34.9	N	N	48.5	N	N	33.6	N	N
Fuel contract	34.9	N	N	46.6	N	N	30.9	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	9.9	N	N	13.3	N	N	8.6	N	N
Motor carrier	19.1	N	N	18.7	N	N	5.3	N	N
Owner operator	38.0	N	N	23.4	N	N	18.8	N	N
Rental	S	N	N	S	N	N	S	N	N
Personal transportation	2.3	N	N	4.3	N	N	3.6	N	N
Not applicable ¹	23.7	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	7.3	N	N	10.1	N	N	7.8	N	N
Common	7.1	N	N	9.8	N	N	8.3	N	N
Not reported	12.2	N	N	17.5	N	N	14.8	N	N
Not applicable ⁴ .....	.9	N	N	3.5	N	N	3.4	N	N
Type of service:									
Truckload	5.8	9.9	30.4	8.8	13.0	25.2	7.6	8.9	7.1
Less-than truckload	9.7	19.5	25.4	11.5	S	S	9.0	S	S
Not reported	12.3	N	N	17.5	N	N	14.3	N	N
Not applicable ⁴ .....	.9	N	N	3.5	N	N	3.4	N	N
Source of hauls:									
Shippers or receivers	5.7	N	N	7.5	N	N	6.3	N	N
Brokers	19.4	N	N	32.1	N	N	25.6	N	N
Centralized markets or exchanges	41.4	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	9.0	N	N	13.8	N	N	12.0	N	N
Not applicable ⁴ .....	.9	N	N	3.5	N	N	3.4	N	N
HAZARDOUS MATERIALS CARRIED⁵									
Carrying hazardous materials	7.6	8.4	13.9	10.0	10.8	19.9	8.4	8.8	13.4
Not carrying hazardous materials	2.3	2.4	2.9	5.2	19.4	18.6	4.9	17.9	19.8
Not reported	9.7	7.4	6.5	14.4	14.2	7.4	11.7	13.1	12.1
Not applicable ⁶ .....	.9	N	N	3.6	N	N	3.5	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE ⁷									
Aerial work platform/bucket	23.0	N	N	34.5	N	N	25.0	N	N
Air bag(s) (safety device only)	4.6	9.0	35.3	6.1	9.9	35.2	4.0	4.9	5.4
Air compressor (except air brakes)	11.8	N	N	16.8	N	N	14.1	N	N
Air-conditioning	3.9	5.8	10.5	5.0	7.2	11.4	3.4	4.4	4.8
Air springs	7.4	N	N	10.6	N	N	8.4	N	N
Antilock brake system	4.4	6.7	12.4	5.8	7.9	13.6	3.8	4.3	5.2
Collision warning system	45.5	N	N	S	N	N	S	N	N
Computerized drive train control unit	14.1	N	N	16.8	N	N	9.3	N	N
Crane	16.7	N	N	26.8	N	N	20.5	N	N
Electronic vehicle identification device	35.3	49.6	69.6	38.5	48.7	128.4	28.3	35.7	82.5
Engine retarder/brake	3.5	7.4	10.3	6.4	30.8	36.9	5.8	24.4	23.3
Front-wheel drive	2.4	14.0	78.5	4.5	17.2	84.9	3.8	8.9	8.3
Hoist	8.9	N	N	13.0	N	N	10.9	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	25.4	N	N	37.2	N	N	33.8	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	11.1	N	N	15.1	N	N	10.9	N	N
Mounting bar for snowplow	25.4	N	N	37.0	N	N	26.6	N	N
Navigational system	N	N	N	N	N	N	N	N	N
Power take-off	4.6	N	N	8.0	N	N	7.3	N	N
Radial tires	3.6	3.9	4.6	5.3	4.9	5.7	4.0	3.9	5.1
Reflective material in addition to those required by law	9.0	6.9	6.4	14.9	10.5	12.3	12.9	9.1	19.0
Road speed governor	7.9	10.5	9.8	10.9	43.9	35.1	9.3	36.0	38.7
Toolbox	14.0	N	N	17.2	N	N	11.3	N	N
Trip recorder or on-board computer with communication capabilities	28.9	N	N	29.1	N	N	12.6	N	N
Trip recorder or on-board computer without communication capabilities	11.0	N	N	12.7	N	N	6.8	N	N
Vehicle control aids for handicapped drivers	N	N	N	N	N	N	N	N	N
Wheelchair lift	S	N	S	S	N	S	S	N	S
Winch	35.9	N	N	40.8	N	N	20.7	N	N
Transmission type:									
Automatic	3.0	N	N	4.9	N	N	3.9	N	N
Manual	7.7	N	N	10.5	N	N	7.7	N	N
Semiautomated manual	S	N	N	S	N	N	S	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	16.6	N	N	17.2	N	N	5.7	N	N
Braking system:									
Hydraulic (standard)	5.1	6.1	8.8	9.5	12.1	16.6	8.1	10.5	13.0
Hydraulic with power assist	6.3	6.2	7.4	11.7	10.2	13.9	9.9	8.3	13.8
Air	2.3	3.6	4.4	5.1	21.2	23.0	5.0	18.6	19.8
Other	N	32.9	N	N	49.3	N	N	36.3	N
Not reported	12.5	N	N	20.9	N	N	17.9	N	N
Not applicable ⁹	.9	N	N	3.6	N	N	3.5	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	1.8	3.5	4.2	3.9	4.5	6.1	3.5	3.8	5.1
Diesel	11.6	10.2	19.2	12.6	15.4	20.2	8.0	12.2	11.9
Natural gas	N	N	N	N	N	N	N	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	S	N	N	S	N	N	S	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹	23.7	N	N	S	N	N	S	N	N
Cylinders ⁹ :									
4 cylinders	12.1	12.6	16.5	14.3	14.0	19.0	7.6	9.9	12.6
6 cylinders	5.2	6.9	9.9	6.9	7.5	10.9	4.9	5.1	6.6
8 cylinders	4.9	5.2	8.4	7.3	7.8	11.2	5.4	5.8	7.0
Other	22.8	30.3	23.8	30.9	25.5	29.6	19.2	34.0	45.9
Cubic inch displacement ⁹ :									
Gasoline fuel	1.8	3.5	4.2	3.9	4.5	6.1	3.5	3.8	5.1
Less than 200	8.7	10.2	11.0	11.7	11.6	14.4	7.8	7.5	11.5
200 to 299	6.8	7.7	18.0	8.2	9.2	18.4	4.8	5.0	5.9
300 to 349	10.2	9.5	18.7	13.8	12.2	24.6	9.4	7.6	12.0
350 to 399	10.8	9.3	11.1	13.5	11.5	11.8	8.1	6.4	8.8
400 or more	23.1	18.0	27.8	30.6	24.9	40.4	20.0	17.6	28.8
Not available	34.6	29.8	14.3	46.6	48.2	19.6	23.0	51.4	52.8
Diesel fuel	11.6	10.2	19.2	12.6	15.4	20.2	8.0	12.2	11.9
Less than 400	22.9	20.2	37.3	30.6	24.3	46.1	20.3	13.7	23.6
400 to 599	18.6	17.8	36.4	23.0	27.6	34.7	12.3	20.2	16.2
600 to 799	6.8	7.9	14.1	12.8	12.8	30.4	11.2	10.9	19.3
800 or more	4.4	9.3	11.0	7.7	29.3	23.0	6.5	20.9	15.5
Not available	6.0	4.5	5.6	12.9	9.9	21.9	12.0	9.4	27.8
Other fuel	S	S	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	S	S	S	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹	23.7	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	2.0	N	N	4.1	N	N	3.6	N	N
Truck stop	33.9	N	N	29.7	N	N	16.0	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	19.3	N	N	21.5	N	N	13.7	N	N
Other company's/contractor's facility not open to the public	48.7	N	N	38.3	N	N	22.8	N	N
Other	S	N	N	S	N	N	S	N	N
Not reported	16.3	N	N	17.3	N	N	6.5	N	N
Not applicable ¹	23.7	N	N	S	N	N	S	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	23.2	30.3	100.3	35.4	S	S	26.6	S	S
Company-owned maintenance facility	14.1	11.9	21.5	15.7	17.5	31.7	9.5	14.9	20.5
General repair business or private mechanic ..	5.6	5.5	10.7	6.8	7.1	12.9	4.1	4.6	5.9
Dealership service department	8.6	9.0	19.7	9.7	10.5	19.5	4.9	5.5	6.4
Leasing company	N	S	S	N	S	S	N	S	S
Individual not employed/paid by any maintenance type facility									
Other	5.8	5.8	6.1	8.3	7.4	8.5	6.0	5.4	8.4
Not reported	N	34.9	N	N	49.4	N	N	35.2	N
Not applicable ¹	15.2	35.7	88.1	16.0	24.5	68.1	5.9	36.0	37.5
Extensive repairs performed by:									
None performed	2.9	12.8	126.9	4.5	16.6	154.1	3.5	10.4	10.2
Company-owned maintenance facility	35.6	17.8	17.2	32.3	21.3	27.4	8.9	15.5	29.2
General repair business or private mechanic ..	16.3	7.5	6.9	18.6	9.7	7.8	10.6	6.3	11.8
Dealership service department	20.7	10.9	10.8	20.4	13.1	12.1	8.0	8.2	12.5
Leasing company	N	S	S	N	S	S	N	S	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	31.0	24.0	.7	38.3	44.3	2.1	30.2	38.6	99.0
Other	18.6	14.4	12.0	29.1	17.4	25.0	22.3	13.8	37.8
Not reported	N	S	S	N	S	S	N	S	S
Not applicable ¹	S	7.0	S	S	7.8	S	S	5.5	S
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	1.1	3.1	3.6	3.6	4.1	5.7	3.5	3.6	4.8
3 axles	1.2	3.2	3.7	3.7	4.1	5.7	3.5	3.6	4.8
4 axles	4.2	4.1	5.8	8.6	7.6	11.9	7.6	6.8	10.8
5 axles or more	24.5	32.0	N	40.9	44.5	731.8	32.8	31.1	N
Not reported	S	N	N	S	N	N	S	N	N
Combinations									
Single-unit trucks with trailer	20.4	17.2	64.9	12.1	32.5	37.6	12.0	24.2	12.0
3 axles	28.2	40.4	209.4	30.0	S	S	13.4	S	S
4 axles	40.1	S	S	43.1	S	S	15.9	S	S
5 axles or more	42.6	S	S	49.7	S	S	24.8	S	S
Not reported	19.1	16.1	22.2	25.8	27.0	45.4	17.3	21.8	38.2
Truck-tractors with single trailer	S	N	N	S	N	N	S	N	N
3 axles	3.9	8.0	9.8	7.6	32.4	31.8	6.8	25.3	22.7
4 axles	42.2	S	S	S	S	S	S	S	S
5 axles or more	22.7	14.8	21.7	34.6	28.0	13.1	25.4	23.7	12.8
Not reported	4.3	9.0	10.1	8.1	34.5	33.6	7.0	26.4	25.6
Truck-tractors with double trailers	17.8	N	N	27.8	N	N	20.1	N	N
5 axles	15.4	18.6	41.1	16.6	20.3	42.4	6.4	8.1	9.8
6 axles	N	N	N	N	N	N	N	N	N
7 axles	S	N	S	S	N	S	S	N	S
8 axles or more	41.3	27.3	N	45.2	31.7	28.1	18.9	16.1	N
Not reported	17.3	26.1	81.1	18.5	26.8	80.0	6.5	5.9	8.3
Truck-tractors with triple trailers	S	N	N	S	N	N	S	N	N
7 axles	S	N	S	S	N	S	S	N	S
8 axles	N	N	N	N	N	N	N	N	N
9 axles	N	N	N	N	N	N	N	N	N
10 axles or more	S	N	S	S	N	S	S	N	S
Not reported	N	N	N	N	N	N	N	N	N
Driving axles:									
1	8.6	7.6	6.3	12.0	8.7	7.0	8.2	7.6	9.6
2	2.4	4.1	7.1	4.2	5.7	9.6	3.6	3.7	4.7
3 or more	46.3	25.7	N	S	33.5	S	S	29.9	S
Not reported	30.8	N	N	35.4	N	N	17.3	N	N
Total liftable axles and locations:									
None	1.2	3.9	9.6	4.0	6.3	19.0	3.9	5.8	7.5
1	17.3	23.5	46.0	28.8	35.6	112.4	23.1	31.7	60.9
Forward of the drive axle	26.4	N	N	42.0	N	N	32.7	N	N
Below the chassis	S	N	N	S	N	N	S	N	N
Beyond the chassis	41.3	N	N	45.8	N	N	19.9	N	N
Not reported	30.8	N	N	49.7	N	N	39.1	N	N
2 or more	S	40.6	S	S	43.6	S	S	17.1	S
Forward of the drive axle	S	N	N	S	N	N	S	N	N
Below the chassis	N	N	N	N	N	N	N	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	34.9	N	N	40.8	N	N	20.9	N	N
Not applicable ⁸ .....	.9	N	N	3.6	N	N	3.5	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
TRUCK TYPE AND AXLE ARRANGEMENT—Con.									
Total liftable axles and number of braking axles:									
None	1.2	3.9	9.6	4.0	6.3	19.0	3.9	5.8	7.5
1	17.3	23.5	46.0	28.8	35.6	112.4	23.1	31.7	60.9
0 braking	S	N	N	S	N	N	S	N	N
1 braking	18.3	N	N	29.8	N	N	23.6	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	S	40.6	S	S	43.6	S	S	17.1	S
0 braking	N	N	N	N	N	N	N	N	N
1 braking	N	N	N	N	N	N	N	N	N
2 or more braking	S	N	N	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	34.9	N	N	40.8	N	N	20.9	N	N
Not applicable ⁸ .....	.9	N	N	3.6	N	N	3.5	N	N
CAB TYPE									
Conventional cab	1.5	2.1	3.0	4.2	4.5	8.3	4.1	4.3	6.8
With sleeper	7.5	N	N	10.1	N	N	7.0	N	N
Without sleeper	1.7	N	N	4.5	N	N	4.2	N	N
Not reported	25.0	N	N	41.7	N	N	34.2	N	N
Cab over engine	7.7	8.1	8.6	13.5	13.0	18.6	11.4	11.1	20.5
With sleeper	21.5	N	N	37.0	N	N	30.1	N	N
Without sleeper	8.3	N	N	13.3	N	N	10.3	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	S	40.7	S	S	S	S	S	S	S
Cab beside engine	S	48.5	S	S	S	S	S	S	S
Not reported	38.0	N	N	41.4	N	N	12.8	N	N
Not applicable ⁹ .....	.9	N	N	3.6	N	N	3.5	N	N

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

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

²Truck-tractors not in use.

³Lessees or lessors of pickups, minivans, other light vans, and sport utilities.

⁴Includes pickups, minivans, other light vans, and sport utilities; all other vehicles that are private, rental, or used for personal transportation; and vehicles not in use.

⁵Distributed miles data are available in Table 8.

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

⁷Pickups, minivans, other light vans, and sport utilities, in the Equipment Type section, were only required to report for aerial work platform/bucket, air bag(s), air-conditioning, antilock brake system, computerized drive train control unit, front-wheel drive, mounting bar for snowplow, radial tires, toolbox, trip recorder, vehicle control aids for handicapped drivers, wheelchair lift, and winch.

⁸Pickups, minivans, other light vans, and sport utilities.

⁹Data were derived from administrative records.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
Total	12.5	12.6	-6	153.7	160.9	-4.4	12.3	12.7	-3.8
BUSINESS¹									
For-hire transportation or warehousing	2.4	1.6	51.3	75.3	70.0	7.6	31.4	44.1	-28.9
Vehicle leasing or rental .....	.2	.1	101.8	2.9	1.4	102.2	12.8	12.8	.2
Agriculture, forestry, fishing, or hunting .....	.7	1.0	-31.1	5.2	6.8	-23.2	7.4	6.7	11.4
Mining .....	.5	.4	3.9	5.1	7.5	-31.4	11.3	17.0	-33.9
Utilities .....	.3	.3	.4	1.8	1.8	.4	5.4	5.4	V
Construction	3.6	4.9	-25.7	28.8	37.0	-22.2	8.0	7.6	4.7
Manufacturing .....	.3	.2	50.1	5.0	2.5	96.4	14.4	11.0	30.8
Wholesale trade .....	.4	.8	-43.7	4.9	12.6	-61.1	11.0	16.0	-30.9
Retail trade	1.0	1.2	-14.4	11.0	12.9	-14.8	10.7	10.7	-5
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services .....	.4	N	N	2.4	N	N	6.3	N	N
Arts, entertainment, or recreation services .....	.1	N	N	.6	N	N	5.4	N	N
Accommodation or food services .....	.1	N	N	1.0	N	N	7.2	N	N
Other services .....	.6	N	N	3.3	N	N	5.6	N	N
Personal transportation .....	.3	.7	-54.0	1.3	2.7	-50.8	4.1	3.8	7.0
Not reported .....	.6	V	N	4.5	V	N	7.9	V	N
Not applicable ² .....	.9	.6	47.1	.6	.1	488.8	.7	.2	300.3
BODY TYPE									
Single-unit trucks	9.9	10.4	-5.1	72.4	84.3	-14.2	7.3	8.1	-9.5
Armored	S	N	N	S	N	N	S	N	N
Beverage	S	S	S	S	S	S	S	S	S
Concrete mixer .....	.3	.2	41.5	2.4	.8	200.2	8.9	4.2	112.1
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane .....	.1	.3	-80.9	.1	S	S	1.0	S	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	1.5	1.5	-.2	12.4	11.5	7.9	8.1	7.5	8.2
Flatbed, stake, or platform	2.9	3.5	-16.6	14.3	16.3	-12.6	4.9	4.7	4.8
Low boy	V	V	N	V	.3	N	V	V	N
Pole, logging, pulpwood, or pipe	S	.1	S	S	.1	S	S	1.5	S
Service, utility .....	.4	.3	28.8	2.1	1.5	37.1	5.5	5.2	6.4
Service, other .....	.5	.3	50.6	3.6	2.2	63.7	7.1	6.5	8.7
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	V	V	N	V	V	N	V	V	N
Tank, liquids or gases .....	.8	.8	-7.1	6.5	6.6	-1.6	8.4	7.9	5.9
Tow/Wrecker .....	.3	.3	17.1	2.3	3.5	-34.0	7.3	12.9	-43.7
Trash, garbage, or recycling .....	.2	.2	-12.7	1.6	2.1	-26.9	8.5	10.2	-16.2
Vacuum .....	.1	N	N	.5	N	N	10.3	N	N
Van, basic enclosed	1.4	.8	79.1	14.3	6.4	124.1	10.3	8.3	25.2
Van, insulated nonrefrigerated .....	.1	.2	-20.6	.8	13.9	-93.9	6.5	84.1	-92.3
Van, insulated refrigerated .....	.1	.1	-44.8	.4	2.3	-81.6	6.1	18.4	-66.7
Van, open top	S	S	S	S	S	S	S	S	S
Van, step, walk-in, or multistop .....	.9	1.5	-40.9	8.0	13.4	-40.4	9.0	8.9	.8
Van, other .....	.2	N	N	1.4	N	N	5.9	N	N
Other	V	N	N	V	N	N	V	N	N
Truck-tractors	2.7	2.2	20.3	81.3	76.5	6.3	30.3	34.3	-11.7
Automobile carrier	S	V	S	S	S	S	S	S	S
Beverage	S	S	S	S	S	S	S	S	S
Curtainside .....	.1	N	N	.4	N	N	7.4	N	N
Dump .....	.4	.4	20.5	7.0	8.1	-14.0	16.1	22.6	-28.7
Flatbed, stake, or platform .....	.5	.3	77.5	12.9	6.0	114.2	24.6	20.3	20.7
Livestock	V	S	S	V	S	S	V	S	S
Low boy .....	.2	.3	-51.3	2.1	5.4	-60.8	13.1	16.2	-19.4
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	S	S	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe .....	.1	V	N	2.0	S	S	28.5	S	S
Tank, dry bulk	S	V	S	S	S	S	S	S	S
Tank, liquids or gases .....	.2	.1	36.5	7.5	7.0	6.6	47.6	61.0	-21.9
Van, basic enclosed .....	.6	.5	16.9	19.0	12.5	52.1	33.0	25.4	30.0
Van, drop-frame	V	.1	N	S	1.3	S	S	12.5	S
Van, insulated nonrefrigerated .....	.2	.1	178.1	14.0	4.1	240.4	68.2	55.8	22.4
Van, insulated refrigerated .....	.2	S	S	13.5	S	S	57.9	S	S
Other	S	N	N	S	N	N	S	N	N
Not applicable ³ .....	.1	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	5.4	5.9	-8.1	9.8	10.2	-4.0	1.8	1.7	4.5
5,000 to 9,999	2.2	2.3	-3.0	15.2	14.6	3.8	6.8	6.4	7.1
10,000 to 19,999	2.0	2.0	1.2	27.6	26.7	3.3	13.6	13.3	2.1
20,000 to 29,999 .....	.8	.9	-12.5	16.9	19.7	-13.9	22.2	22.6	-1.6
30,000 to 49,999 .....	.4	.5	-4.9	16.2	16.6	-2.3	36.7	35.8	2.7
50,000 to 74,999 .....	.5	.2	122.7	26.3	11.6	127.3	58.3	57.1	2.0
75,000 or more .....	.4	.6	-33.3	41.1	61.5	-33.2	107.7	107.6	.1
Not applicable ² .....	.9	.3	148.6	.6	V	N	.7	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road .....	.4	1.4	-68.8	2.6	9.0	-70.6	6.3	6.6	-5.7
50 miles or less	8.4	8.5	-1.1	73.3	71.3	2.8	8.7	8.4	4.0
51 to 100 miles .....	.7	1.0	-25.6	11.4	11.7	-2.3	15.9	12.1	31.2
101 to 200 miles .....	.4	.4	-8.2	10.2	6.1	67.9	28.3	15.5	82.9
201 to 500 miles .....	.4	.5	-27.6	18.1	16.3	11.0	47.1	30.7	53.2
501 miles or more .....	.4	.5	-21.9	26.1	46.5	-43.8	65.9	91.6	-28.0
Not reported	1.0	.3	181.1	11.3	V	N	11.6	V	N
Not applicable ² .....	.9	N	N	.6	N	N	.7	N	N
PRIMARY JURISDICTION									
Operated in Canada .....	.2	N	N	8.3	N	N	46.1	N	N
Operated in Mexico	S	N	N	S	N	N	S	N	N
Operated within the home base state	10.6	N	N	126.6	N	N	11.9	N	N
Operated in states other than the home base state .....	.1	N	N	9.8	N	N	84.0	N	N
Not reported .....	.7	N	N	8.1	N	N	11.3	N	N
Not applicable ² .....	.9	N	N	.6	N	N	.7	N	N
MONTHS OPERATED									
12	5.0	N	N	95.3	N	N	19.2	N	N
7 to 11	2.2	N	N	35.0	N	N	15.6	N	N
2 to 6	3.6	N	N	21.9	N	N	6.1	N	N
1 or less .....	.9	N	N	.9	N	N	1.0	N	N
Vehicle not used .....	.9	N	N	.6	N	N	.7	N	N
VEHICLE SIZE									
Light	2.5	3.7	-34.6	13.3	26.0	-48.9	5.4	6.9	-21.8
Medium	2.9	2.3	25.2	24.0	14.5	65.6	8.4	6.3	32.3
Light-heavy	1.4	1.6	-17.0	7.6	22.9	-67.0	5.5	13.9	-60.3
Heavy-heavy	5.9	4.9	18.6	108.9	97.5	11.7	18.6	19.8	-5.8
AVERAGE WEIGHT (POUNDS)									
Less than 6,001 .....	.4	.8	-47.5	1.6	5.7	-71.8	3.7	6.8	-46.2
6,001 to 8,500	1.0	N	N	5.4	N	N	5.4	N	N
8,501 to 10,000	1.0	N	N	6.3	N	N	6.2	N	N
10,001 to 14,000	1.4	1.1	23.2	11.6	8.4	38.4	8.4	7.5	12.4
14,001 to 16,000 .....	.7	.6	24.0	5.4	2.6	111.0	7.5	4.4	70.2
16,001 to 19,500 .....	.8	.6	30.0	6.9	3.5	97.2	9.0	6.0	51.7
19,501 to 26,000	1.4	1.6	-17.0	7.6	22.9	-67.0	5.5	13.9	-60.3
26,001 to 33,000 .....	.7	.6	15.5	5.2	3.2	63.5	7.1	5.0	41.6
33,001 to 40,000 .....	.7	.7	1.4	4.7	6.0	-20.4	6.3	8.1	-21.5
40,001 to 50,000	1.3	1.4	-6.3	11.8	S	S	8.7	S	S
50,001 to 60,000	1.1	.6	69.5	17.0	8.7	94.7	15.9	13.8	14.9
60,001 to 80,000	1.0	.9	10.9	25.1	18.4	36.1	25.9	21.1	22.7
80,001 to 100,000 .....	.8	.5	65.0	33.9	17.0	100.1	44.0	36.3	21.3
100,001 to 130,000 .....	.1	.1	21.3	7.9	8.4	-6.2	56.0	72.4	-22.7
130,001 or more .....	.1	V	N	3.2	2.7	17.5	44.9	V	N
TOTAL LENGTH (FEET)									
Less than 20.0	2.4	.7	257.5	14.0	6.1	130.7	5.8	9.0	-35.5
20.0 to 27.9	4.7	6.9	-32.3	30.1	44.5	-32.4	6.4	6.4	-2
28.0 to 35.9	2.1	2.1	-3.1	19.1	28.2	-32.2	9.2	13.2	-30.0
36.0 to 40.9 .....	.4	.2	89.2	4.5	1.4	209.9	10.2	6.2	63.8
41.0 to 44.9 .....	.2	.1	18.5	.9	1.7	-43.9	5.6	11.8	-52.7
45.0 to 49.9 .....	.2	.1	126.0	3.3	1.1	200.2	15.7	11.8	32.8
50.0 to 54.9 .....	.5	.4	17.0	4.6	5.1	-9.8	9.9	12.9	-22.9
55.0 to 59.9 .....	.6	.8	-18.3	12.0	12.0	.1	19.5	15.9	22.6
60.0 to 64.9 .....	.5	.6	-29.6	9.2	S	S	20.3	S	S
65.0 to 69.9 .....	.4	.3	31.4	12.8	7.7	66.2	33.6	26.6	26.5
70.0 to 74.9 .....	.3	.1	134.4	19.1	5.3	263.3	56.2	36.3	55.0
75.0 to 79.9 .....	.1	N	N	4.9	N	N	86.3	N	N
80.0 or more .....	.2	N	N	19.2	N	N	80.0	N	N
MILES PER GALLON									
Less than 5	1.4	1.8	-22.8	30.6	55.9	-45.2	22.2	31.2	-29.0
5 to 6.9	2.5	2.7	-5.8	51.9	33.2	56.3	20.7	12.5	65.9
7 to 8.9	2.0	2.5	-20.4	18.1	22.8	-20.3	9.0	9.0	.1
9 to 10.9	1.9	2.1	-10.9	13.1	14.7	-11.3	6.9	6.9	-4
11 to 12.9 .....	.9	1.0	-8.7	7.1	8.8	-19.5	7.5	8.6	-11.8
13 to 14.9 .....	.2	.3	-39.0	1.2	2.2	-48.1	5.9	7.0	-14.9
15 or more .....	.4	.6	-40.2	2.7	4.0	-31.7	7.3	6.4	14.2
15 to 20.9 .....	.4	.6	-39.6	2.7	3.9	-29.9	7.3	6.3	16.1
21 to 24.9	V	S	S	V	S	S	V	S	S
25 or more	V	V	N	V	V	N	V	V	N
Not reported	2.4	1.5	55.1	28.4	19.2	47.9	12.0	12.6	-4.7
Not applicable ² .....	.9	N	N	.6	N	N	.7	N	N

See footnotes at end of table.

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

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

Vehicle and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003 .....	.1	N	N	S	N	N	S	N	N
2002 .....	.3	N	N	9.7	N	N	36.3	N	N
2001 .....	.3	N	N	8.9	N	N	26.3	N	N
2000 .....	.4	N	N	13.3	N	N	30.9	N	N
1999 .....	.7	N	N	23.3	N	N	34.2	N	N
1998 .....	.3	S	S	7.1	S	S	24.2	S	S
1997 .....	.5	2	162.6	14.1	7.0	100.1	26.6	35.0	-23.8
1996 .....	.5	6	-17.0	8.9	S	S	18.4	S	S
1995 .....	.7	4	65.6	9.7	12.6	-23.3	14.7	31.7	-53.7
1994 .....	.5	4	12.0	6.9	9.8	-29.8	14.6	23.2	-37.4
1993 .....	.5	3	73.6	5.1	6.2	-17.8	10.8	22.8	-52.7
Pre-1993	7.9	10.7	-26.8	45.6	90.1	-49.4	5.8	8.4	-30.9
VEHICLE ACQUISITION									
New	3.9	3.6	7.9	81.8	86.9	-5.9	20.9	23.9	-12.8
Used	8.0	8.2	-1.9	62.8	61.7	1.8	7.8	7.6	3.8
Not reported .....	.6	.8	-26.0	9.1	12.3	-25.7	15.0	15.0	.4
LEASE CHARACTERISTICS									
Leased .....	.6	N	N	17.6	N	N	28.9	N	N
Lessee .....	.3	N	N	10.3	N	N	31.4	N	N
Vehicle only .....	.3	N	N	8.9	N	N	28.5	N	N
Vehicle with driver .....	.3	N	N	S	N	N	S	N	N
Not reported .....	.V	N	N	V	N	N	V	N	N
Lessor .....	.3	N	N	6.1	N	N	24.1	N	N
Vehicle only .....	.2	N	N	4.3	N	N	21.3	N	N
Vehicle with driver .....	.V	N	N	1.8	N	N	V	N	N
Not reported .....	.V	N	N	V	N	N	V	N	N
Not reported .....	.S	N	N	S	N	N	S	N	N
Not leased	7.9	N	N	95.5	N	N	12.1	N	N
Not reported	4.0	N	N	40.6	N	N	10.1	N	N
Length of leasing agreement:									
Leased .....	.6	N	N	17.6	N	N	28.9	N	N
1 to 11 months .....	.1	N	N	1.7	N	N	18.1	N	N
12 months or more .....	.5	N	N	14.2	N	N	30.0	N	N
Not reported .....	.V	N	N	S	N	N	S	N	N
Provisions of lease ⁴ :									
Financing only .....	.4	N	N	7.4	N	N	19.1	N	N
Full maintenance .....	.1	N	N	2.3	N	N	23.1	N	N
Payment of taxes .....	.1	N	N	3.5	N	N	32.5	N	N
Obtaining licenses and permits .....	.1	N	N	4.4	N	N	38.0	N	N
Recordkeeping .....	.V	N	N	1.5	N	N	V	N	N
Fuel contract .....	.V	N	N	1.6	N	N	V	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	7.7	N	N	56.2	N	N	7.3	N	N
Motor carrier	2.5	N	N	67.3	N	N	26.6	N	N
Owner operator .....	.9	N	N	25.3	N	N	27.3	N	N
Rental .....	.2	N	N	2.9	N	N	12.7	N	N
Personal transportation .....	.3	N	N	1.3	N	N	4.1	N	N
Not applicable ² .....	.9	N	N	.6	N	N	.7	N	N
For-hire characteristics:									
Type of carrier:									
Contract	1.2	N	N	39.1	N	N	32.5	N	N
Common	1.7	N	N	46.5	N	N	27.9	N	N
Not reported .....	.6	N	N	7.1	N	N	12.0	N	N
Not applicable ⁵	9.1	N	N	61.0	N	N	6.7	N	N
Type of service:									
Truckload	1.8	7	165.4	53.3	33.2	60.6	29.3	48.4	-39.5
Less-than truckload	1.0	.9	16.7	31.9	S	S	31.4	S	S
Not reported .....	.6	N	N	7.4	N	N	11.8	N	N
Not applicable ⁵	9.1	N	N	61.0	N	N	6.7	N	N
Source of hauls:									
Shippers or receivers	2.2	N	N	70.4	N	N	31.8	N	N
Brokers .....	.2	N	N	4.6	N	N	29.5	N	N
Centralized markets or exchanges .....	.V	N	N	S	N	N	S	N	N
Other .....	.V	N	N	V	N	N	V	N	N
Not reported	1.1	N	N	15.9	N	N	15.0	N	N
Not applicable ⁵	9.1	N	N	61.0	N	N	6.7	N	N
HAZARDOUS MATERIALS CARRIED⁶									
Carrying hazardous materials	1.3	1.1	23.2	37.9	28.0	35.4	28.4	25.9	9.8
Not carrying hazardous materials	8.6	10.0	-13.3	101.0	109.2	-7.5	11.7	11.0	6.7
Not reported	1.2	1.6	-26.5	9.9	23.6	-58.0	8.6	15.1	-42.8
Not applicable ⁷	1.4	N	N	4.9	N	N	3.4	N	N
EQUIPMENT TYPE⁴									
Aerial work platform/bucket .....	.3	N	N	1.2	N	N	4.7	N	N
Air bag(s) (safety device only) .....	.8	.6	22.8	14.6	22.8	-36.0	18.4	35.3	-47.9
Air compressor (except air brakes) .....	.6	N	N	9.7	N	N	15.0	N	N
Air-conditioning	2.4	1.8	28.7	65.9	65.9	-1	27.7	35.7	-22.3
Air springs	1.0	N	N	36.1	N	N	34.8	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE⁴—Con.									
Antilock brake system	2.2	.9	137.9	57.2	16.7	243.0	25.4	17.6	44.2
Collision warning system .....	.1	N	N	S	N	N	S	N	N
Computerized drive train control unit .....	.1	N	N	3.6	N	N	32.2	N	N
Crane .....	.4	N	N	2.1	N	N	5.1	N	N
Electronic vehicle identification device .....	.1	.1	14.3	4.7	2.3	107.0	72.5	40.0	81.1
Engine retarder/brake	3.0	2.3	26.3	80.3	68.4	17.4	27.1	29.2	-7.1
Front-wheel drive	V	V	N	V	V	N	V	V	N
Hoist	1.2	N	N	9.4	N	N	7.7	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.) .....	.1	N	N	4.6	N	N	32.8	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate .....	.9	N	N	9.9	N	N	10.8	N	N
Mounting bar for snowplow .....	.3	N	N	1.0	N	N	3.8	N	N
Navigational system	V	V	N	V	V	N	V	V	N
Power take-off	3.2	N	N	35.0	N	N	10.9	N	N
Radial tires	7.1	8.6	-17.1	108.0	127.8	-15.5	15.2	14.9	1.9
Reflective material in addition to those required by law	1.0	1.9	-43.8	20.5	30.3	-32.4	19.5	16.3	20.3
Road speed governor	1.4	1.8	-25.5	37.1	47.8	-22.3	27.0	25.9	4.2
Toolbox	3.0	N	N	41.8	N	N	13.7	N	N
Trip recorder or on-board computer with communication capabilities .....	.2	N	N	8.7	N	N	40.9	N	N
Trip recorder or on-board computer without communication capabilities .....	.4	N	N	20.5	N	N	57.5	N	N
Vehicle control aids for handicapped drivers	V	V	N	V	V	N	V	V	N
Wheelchair lift	V	V	N	V	V	N	V	V	N
Winch .....	.7	N	N	5.3	N	N	7.7	N	N
Transmission type:									
Automatic	4.0	N	N	31.4	N	N	7.8	N	N
Manual	8.0	N	N	112.0	N	N	14.1	N	N
Semiautomated manual .....	.1	N	N	S	N	N	S	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported .....	.5	N	N	7.9	N	N	15.4	N	N
Braking system:									
Hydraulic (standard)	3.4	3.1	10.7	23.2	21.5	8.0	6.8	6.9	-2.5
Hydraulic with power assist	2.5	3.0	-16.2	17.3	19.3	-10.4	6.8	6.3	7.0
Air	5.9	5.7	2.9	105.5	99.9	5.6	18.0	17.5	2.6
Other	V	.2	N	V	1.6	N	V	10.5	N
Not reported .....	.7	N	N	7.7	N	N	11.3	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	3.6	5.1	-28.8	21.1	28.2	-25.2	5.8	5.6	5.0
Diesel	8.0	7.3	9.5	131.4	131.4	.1	16.4	18.0	-8.7
Natural gas	V	N	N	V	N	N	V	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	V	N	N	V	N	N	V	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ² .....	.9	N	N	.6	N	N	.7	N	N
Cylinders ⁸ :									
4 cylinders .....	.2	.1	136.8	1.8	.9	102.2	9.9	11.6	-14.6
6 cylinders	5.2	4.1	24.7	109.3	103.8	5.3	21.2	25.1	-15.5
8 cylinders	4.7	4.9	-2.4	30.7	36.8	-16.5	6.5	7.6	-14.4
Other	2.5	3.6	-30.6	11.9	19.4	-38.7	4.8	5.5	-11.6
Cubic inch displacement ⁸ :									
Gasoline fuel	3.6	5.1	-28.8	21.1	28.2	-25.2	5.8	5.6	5.0
Less than 200	V	S	S	V	S	S	V	S	S
200 to 299 .....	.1	.2	-27.1	1.0	1.4	-31.7	7.5	8.0	-6.4
300 to 349 .....	.1	.2	-45.0	.7	.7	S	7.2	S	S
350 to 399	1.6	2.3	-32.0	10.2	14.8	-31.0	6.5	6.4	1.4
400 or more	1.0	.8	25.3	7.9	7.1	11.0	7.8	8.8	-11.4
Not available .....	.8	1.6	-49.0	1.4	4.1	-67.1	1.7	2.6	-35.6
Diesel fuel	8.0	7.3	9.5	131.4	131.4	.1	16.4	18.0	-8.7
Less than 400 .....	.9	.8	17.2	7.2	7.6	-5.4	7.9	9.8	-19.3
400 to 599	2.3	1.6	44.3	22.2	19.9	11.4	9.6	12.4	-22.8
600 to 799	1.2	.9	35.1	23.0	13.7	67.5	18.8	15.1	24.0
800 or more	1.9	1.8	6.9	54.6	72.0	-24.2	28.9	40.7	-29.1
Not available	1.7	2.2	-26.1	24.4	18.0	35.3	14.7	8.0	83.1
Other fuel .....	.1	.1	-63.8	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	N	N	S	N	N	S	N	N
Not applicable ² .....	.9	N	N	.6	N	N	.7	N	N
REFUELING LOCATION									
Gas station	6.1	N	N	65.7	N	N	10.7	N	N
Truck stop	1.2	N	N	32.7	N	N	26.6	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	3.4	N	N	40.3	N	N	11.9	N	N
Other company's/contractor's facility not open to the public .....	.5	N	N	8.6	N	N	16.9	N	N
Other	S	N	N	S	N	N	S	N	N
Not reported4	N	N	5.9	N	N	13.3	N	N
Not applicable ²9	N	N	.6	N	N	.7	N	N

See footnotes at end of table.

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	A	B	C	D	E	F	G	H	I
MAINTENANCE⁴									
General maintenance performed by:									
None performed	.3	.1	122.2	.6	S	S	2.4	S	S
Company-owned maintenance facility	5.8	5.8	.2	81.3	85.1	-4.5	14.0	14.7	-4.7
General repair business or private mechanic	3.3	2.6	25.8	49.0	29.4	66.9	14.7	11.1	32.7
Dealership service department	.8	.7	4.5	22.8	14.9	52.8	29.2	20.0	46.2
Leasing company	V	S	S	V	S	S	V	S	S
Individual not employed/paid by any maintenance type facility:									
Other	2.5	4.4	-43.0	26.3	59.3	-55.7	10.5	13.5	-22.3
Not reported	V	S	S	V	S	S	V	S	S
Not applicable ²	.4	.6	-31.6	6.8	17.4	-61.0	17.8	31.2	-43.0
	.9	N	N	.6	N	N	.7	N	N
Extensive repairs performed by:									
None performed	8.8	.5	1 575.0	95.3	3.3	2 826.4	10.8	6.2	74.7
Company-owned maintenance facility	1.0	2.9	-64.1	15.1	25.4	-40.6	14.6	8.8	65.6
General repair business or private mechanic	.8	2.9	-70.8	17.3	34.2	-49.5	20.3	11.8	72.9
Dealership service department	.4	1.2	-68.5	20.6	43.1	-52.2	52.8	34.9	51.6
Leasing company	V	S	S	V	S	S	V	S	S
Component distributorship (engine, transmission, body, etc.):									
Individual not employed/paid by any repair type facility	.1	.3	-68.6	2.8	10.5	-73.3	26.9	31.6	-14.9
Other	.3	1.4	-76.8	3.4	10.6	-68.1	10.7	7.8	37.5
Not reported	V	S	S	V	S	S	V	S	S
Not applicable ²	.9	4.0	S	S	44.1	S	S	11.1	N
		N	N	.6	N	N	.7	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	9.6	9.9	-2.9	67.5	79.9	-15.5	7.0	8.1	-13.0
3 axles	7.3	7.6	-4.3	48.6	63.5	-23.4	6.7	8.4	-20.0
4 axles	2.2	2.3	-1.7	16.9	16.2	4.3	7.6	7.2	6.1
5 axles or more	.1	V	N	1.8	.2	1 110.8	18.1	V	N
Not reported	S	N	N	S	N	N	S	N	N
	S	V	S	S	V	S	S	V	S
Combinations:									
Single-unit trucks with trailer:	2.9	2.7	7.4	86.2	80.9	6.5	29.6	29.9	-9
3 axles	.4	.5	-26.2	4.9	4.4	10.3	13.9	9.3	49.4
4 axles	S	S	S	S	S	S	S	S	S
5 axles or more	.1	.3	-58.6	.6	1.5	-59.8	5.0	5.1	-3.0
Not reported	.2	.2	-11.3	3.4	2.8	21.6	20.9	15.2	37.0
	S	N	N	S	N	N	S	N	N
Truck-tractors with single trailer:	2.3	2.1	10.5	61.9	64.8	-4.5	26.8	31.0	-13.5
3 axles	.1	S	S	S	S	S	S	S	S
4 axles	.2	.2	-19.6	1.0	3.5	-70.5	5.8	15.8	-63.3
5 axles or more	1.9	1.8	1.5	57.7	60.8	-5.1	30.9	33.0	-6.5
Not reported	.2	N	N	2.7	N	N	12.8	N	N
	S	N	N	18.9	11.7	61.7	78.6	82.7	-5.0
Truck-tractors with double trailers:	.2	.1	70.2	1.9	11.7	61.7	78.6	82.7	-5.0
5 axles	V	V	N	V	V	N	V	V	N
6 axles	S	V	S	S	V	S	S	V	S
7 axles	V	.1	N	2.7	5.4	-49.2	V	79.7	N
8 axles or more	.2	.1	158.8	15.5	6.3	145.9	81.3	85.5	-5.0
Not reported	S	S	N	S	N	N	S	N	N
	S	V	S	S	V	S	S	V	S
Truck-tractors with triple trailers:	S	V	S	S	V	S	S	V	S
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	S	V	S	V	V	S	S	V	S
Not reported	V	N	N	V	N	N	V	N	N
Driving axles:									
1	6.5	7.4	-12.7	43.2	84.4	-48.8	6.7	11.4	-41.4
2	6.0	5.0	18.3	110.1	76.0	44.8	18.5	15.1	22.5
3 or more	V	.2	N	S	.4	S	S	2.8	S
Not reported	.1	V	N	.2	V	N	3.0	V	N
Total liftable axles and locations ⁹ :									
None	12.3	5.0	144.8	149.2	57.8	158.1	12.2	11.5	5.4
1	.2	.1	58.1	4.3	1.7	145.5	21.4	13.8	55.3
Forward of the drive axle	.1	N	N	2.3	N	N	27.3	N	N
Below the chassis	S	N	N	S	N	N	S	N	N
Beyond the chassis	V	N	N	.2	N	N	V	N	N
Not reported	.1	N	N	1.2	N	N	19.0	N	N
	S	V	S	S	.2	S	S	V	S
2 or more	S	V	S	S	N	N	S	N	N
Forward of the drive axle	S	N	N	S	N	N	S	N	N
Below the chassis	V	N	N	V	N	N	V	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	.2	N	N	V	N	N
Total liftable axles and number of braking axles:									
None	12.3	5.0	144.8	149.2	57.8	158.1	12.2	11.5	5.4
1	.2	.1	58.1	4.3	1.7	145.5	21.4	13.8	55.3
0 braking	S	N	N	S	N	N	S	N	N
1 braking	.2	N	N	4.1	N	N	23.0	N	N
2 or more	S	V	S	S	.2	S	S	V	S
0 braking	V	N	N	V	N	N	V	N	N
1 braking	V	N	N	V	N	N	V	N	N
2 or more braking	S	N	N	S	N	N	S	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	.2	N	N	V	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (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	11.2	9.5	17.8	138.8	103.6	34.0	12.4	10.9	13.7
With sleeper .....	.9	N	N	47.1	N	N	55.0	N	N
Without sleeper	10.2	N	N	88.4	N	N	8.7	N	N
Not reported .....	.1	N	N	3.4	N	N	29.1	N	N
Cab over engine	1.3	1.6	-22.8	14.5	14.6	-8	11.4	8.9	28.5
With sleeper .....	.1	N	N	3.7	N	N	28.8	N	N
Without sleeper	1.1	N	N	10.3	N	N	9.2	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	S	.4	S	S	S	S	S	S	S
Cab beside engine	S	.1	S	S	S	S	S	S	S
Not reported .....	.1	N	N	.2	N	N	3.9	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	1.1	1.6	2.0	3.9	13.4	13.3	3.9	12.3	12.4
BUSINESS									
For-hire transportation or warehousing	5.6	11.4	19.2	7.4	30.4	33.7	6.4	21.2	15.7
Vehicle leasing or rental	23.4	32.8	81.3	25.8	39.2	95.0	14.1	25.1	28.9
Agriculture, forestry, fishing, or hunting	12.4	11.4	11.6	21.4	16.8	20.9	19.3	14.9	27.2
Mining	14.7	14.2	21.2	24.1	21.1	22.0	20.8	19.9	19.0
Utilities	19.6	19.8	28.0	30.6	23.3	38.6	23.1	16.1	28.1
Construction	4.7	4.1	4.6	7.6	6.5	7.8	6.4	5.5	8.8
Manufacturing	15.9	20.1	38.4	25.4	34.0	83.3	21.4	28.1	46.2
Wholesale trade	15.3	13.1	11.3	20.0	16.3	10.0	13.6	12.1	12.6
Retail trade	10.1	10.5	12.5	14.2	16.4	18.5	11.3	13.0	17.1
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	16.1	N	N	19.7	N	N	15.5	N	N
Arts, entertainment, or recreation services	34.6	N	N	45.4	N	N	27.9	N	N
Accommodation or food services	31.7	N	N	41.4	N	N	24.2	N	N
Other services	14.3	N	N	17.6	N	N	11.8	N	N
Personal transportation	20.7	15.0	11.8	32.3	26.5	20.6	25.6	21.4	35.7
Not reported	14.4	N	N	22.5	N	N	19.3	N	N
Not applicable ¹	11.1	14.4	26.7	36.2	43.8	334.5	33.7	41.3	213.4
BODY TYPE									
Single-unit trucks	1.6	1.5	2.1	4.6	5.7	6.3	4.3	5.5	6.3
Armored	S	N	N	S	N	N	S	N	N
Beverage	S	S	S	S	S	S	S	S	S
Concrete mixer	14.5	15.6	30.2	31.6	23.2	117.5	28.0	17.2	69.6
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	46.1	19.2	9.5	49.1	S	S	37.0	S	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	6.7	6.5	9.3	11.0	10.7	16.6	9.6	9.9	14.9
Flatbed, stake, or platform	5.8	5.5	6.6	10.8	9.8	12.7	9.3	8.2	13.0
Low boy	N	37.2	N	N	49.1	N	N	31.7	N
Pole, logging, pulpwood, or pipe	S	39.3	S	S	40.6	S	S	35.1	S
Service, utility	19.2	23.9	39.4	28.5	41.6	69.2	20.8	33.5	41.9
Service, other	16.0	21.7	40.7	21.3	32.4	63.4	14.0	25.2	31.4
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	N	N	N	N	N	N	N	N	N
Tank, liquids or gases	10.5	10.5	13.8	16.6	16.8	23.2	13.5	11.8	19.0
Tow/Wrecker	19.2	22.6	34.7	31.4	39.3	33.2	24.1	30.8	22.0
Trash, garbage, or recycling	21.2	18.3	24.4	23.1	22.8	23.7	15.1	15.3	18.0
Vacuum	34.9	N	N	47.0	N	N	31.5	N	N
Van, basic enclosed	9.0	13.6	29.3	13.6	18.0	50.6	10.4	13.0	20.9
Van, insulated nonrefrigerated	30.7	22.1	30.0	38.7	25.0	2.8	28.3	7.5	2.3
Van, insulated refrigerated	38.9	37.8	30.0	39.9	42.0	10.6	21.5	16.0	8.9
Van, open top	S	S	S	S	S	S	S	S	S
Van, step, walk-in, or multistop	12.0	10.0	9.2	18.4	15.4	14.3	14.0	11.8	18.5
Van, other	24.9	N	N	33.3	N	N	22.2	N	N
Other	N	N	N	N	N	N	N	N	N
Truck-tractors	3.3	7.5	9.8	6.5	27.6	30.1	6.0	20.9	19.2
Automobile carrier	S	40.8	S	S	S	S	S	S	S
Beverage	S	S	S	S	S	S	S	S	S
Curtainside	32.6	N	N	42.3	N	N	26.7	N	N
Dump	11.6	11.4	19.6	17.8	17.5	21.5	13.2	13.3	13.4
Flatbed, stake, or platform	10.6	12.6	29.2	17.5	21.4	59.3	14.8	17.3	27.5
Livestock	N	S	S	N	S	S	N	S	S
Low boy	18.9	11.8	10.9	32.5	20.1	15.0	26.5	16.2	25.1
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	S	S	S	S	N	S	S	S	S
Pole, logging, pulpwood, or pipe	29.2	40.8	N	43.4	S	S	32.0	S	S
Tank, dry bulk	S	45.6	S	S	S	S	S	S	S
Tank, liquids or gases	20.7	20.7	39.9	24.5	24.1	36.6	15.3	12.1	15.2
Van, basic enclosed	10.1	10.6	17.1	16.0	14.9	33.3	12.9	11.7	22.7
Van, drop-frame	46.1	21.9	N	S	25.8	S	S	13.6	S
Van, insulated nonrefrigerated	16.7	26.1	86.2	18.5	30.5	121.6	8.1	15.8	21.8
Van, insulated refrigerated	15.7	S	S	21.3	S	S	14.6	S	S
Other	S	N	N	S	N	N	S	N	N
Not applicable ²	21.5	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	3.6	3.6	4.7	5.1	4.9	6.8	3.6	3.6	5.3
5,000 to 9,999	6.5	7.0	9.3	6.7	7.1	10.2	1.6	1.6	2.4
10,000 to 19,999	6.7	7.3	10.1	6.9	7.3	10.4	1.4	1.6	2.2
20,000 to 29,999	10.8	10.7	13.3	10.8	10.7	13.1	1.2	1.4	1.8
30,000 to 49,999	14.0	14.1	18.9	14.3	13.8	19.4	2.4	2.2	3.4
50,000 to 74,999	12.1	20.7	53.5	12.0	20.1	53.1	1.7	2.2	2.9
75,000 or more	11.9	27.4	19.9	12.3	34.7	24.6	3.1	7.9	8.5
Not applicable ¹	11.1	18.2	53.1	36.2	N	N	33.7	N	N

See footnotes at end of table.

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

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

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	14.7	8.5	5.3	29.0	13.0	9.3	25.9	11.8	26.8
50 miles or less	2.3	2.4	3.3	4.7	5.0	7.0	4.2	4.5	6.4
51 to 100 miles	11.6	10.9	11.9	17.0	14.8	22.0	13.5	12.5	24.1
101 to 200 miles	16.0	17.8	22.0	19.6	21.9	49.4	16.3	19.8	47.0
201 to 500 miles	15.6	14.4	15.4	16.9	15.3	25.3	13.3	13.8	29.4
501 miles or more	13.4	31.2	26.5	15.0	45.6	27.0	10.4	16.8	14.2
Not reported	10.1	18.2	58.6	17.0	N	N	15.2	N	N
Not applicable	11.1	N	N	36.2	N	N	33.7	N	N
PRIMARY JURISDICTION									
Operated in Canada	24.3	N	N	28.2	N	N	24.4	N	N
Operated in Mexico	S	N	N	S	N	N	S	N	N
Operated within the home base state	1.7	N	N	4.1	N	N	3.9	N	N
Operated in states other than the home base state	26.8	N	N	28.2	N	N	21.2	N	N
Not reported	11.6	N	N	17.8	N	N	15.2	N	N
Not applicable ¹	11.1	N	N	36.2	N	N	33.7	N	N
MONTHS OPERATED									
12	3.8	N	N	6.0	N	N	5.2	N	N
7 to 11	6.1	N	N	8.9	N	N	7.7	N	N
2 to 6	4.8	N	N	8.5	N	N	7.6	N	N
1 or less	10.7	N	N	17.7	N	N	15.3	N	N
Vehicle not used	11.1	N	N	36.2	N	N	33.7	N	N
VEHICLE SIZE									
Light	6.5	5.2	5.4	11.5	10.0	7.8	9.6	8.5	10.0
Medium	5.8	7.4	11.8	10.2	14.2	28.9	8.3	12.1	19.5
Light-heavy	9.1	8.7	10.4	15.0	16.2	7.3	12.0	14.7	7.5
Heavy-heavy	2.2	3.7	5.1	5.0	21.7	24.8	5.0	18.7	18.2
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	17.9	14.0	11.9	33.2	24.8	11.7	27.9	20.4	18.6
6,001 to 8,500	11.2	N	N	20.1	N	N	17.0	N	N
8,501 to 10,000	11.2	N	N	16.2	N	N	11.8	N	N
10,001 to 14,000	9.2	11.5	18.1	12.6	21.2	34.1	8.8	17.6	22.1
14,001 to 16,000	13.4	16.1	26.0	25.3	28.4	80.3	21.4	25.2	56.3
16,001 to 19,500	13.1	16.0	26.9	22.5	23.7	64.5	18.2	17.5	38.2
19,501 to 26,000	9.1	8.7	10.4	15.0	16.2	7.3	12.0	14.7	7.5
26,001 to 33,000	12.2	11.3	19.2	18.7	18.4	42.9	14.4	14.4	28.8
33,001 to 40,000	10.9	8.5	14.0	15.6	14.6	17.1	12.2	11.9	13.4
40,001 to 50,000	6.2	11.5	12.3	10.7	S	S	9.1	S	S
50,001 to 60,000	7.0	9.5	20.0	13.8	15.8	40.9	12.0	13.9	21.1
60,001 to 80,000	7.5	6.8	11.2	13.0	11.1	23.2	10.9	8.7	17.1
80,001 to 100,000	8.0	9.8	20.8	11.5	13.5	35.4	8.4	9.3	15.2
100,001 to 130,000	20.4	20.6	35.2	24.9	23.1	31.9	14.4	10.5	13.8
130,001 or more	29.0	40.7	N	38.0	42.3	66.8	24.6	11.2	N
TOTAL LENGTH (FEET)									
Less than 20.0	6.5	15.7	60.8	11.6	23.3	60.0	9.6	17.1	12.6
20.0 to 27.9	4.0	2.9	3.4	7.4	6.7	6.8	6.2	6.1	8.7
28.0 to 35.9	6.7	6.7	9.2	10.9	13.4	11.7	8.9	12.2	10.5
36.0 to 40.9	14.4	18.7	44.6	23.5	24.6	105.3	18.1	16.4	40.0
41.0 to 44.9	22.4	29.2	43.6	34.6	40.9	30.0	27.6	35.5	21.3
45.0 to 49.9	20.1	33.5	88.2	29.5	34.3	135.9	23.4	28.8	49.2
50.0 to 54.9	12.2	13.7	21.4	15.5	16.8	20.6	11.8	14.2	14.2
55.0 to 59.9	9.5	7.8	10.0	15.6	13.3	20.6	12.8	10.8	20.5
60.0 to 64.9	12.1	24.4	19.1	18.0	S	S	13.8	S	S
65.0 to 69.9	12.0	12.7	23.0	17.3	18.9	42.5	12.4	14.0	23.6
70.0 to 74.9	12.8	18.4	52.5	17.4	23.6	106.4	11.8	14.7	29.2
75.0 to 79.9	32.6	N	N	41.1	N	N	25.3	N	N
80.0 or more	15.4	N	N	16.4	N	N	5.9	N	N
MILES PER GALLON									
Less than 5	6.9	10.2	9.5	10.7	37.6	21.4	9.4	29.5	22.0
5 to 6.9	5.3	5.3	7.0	8.7	8.0	18.5	7.9	7.4	18.0
7 to 8.9	7.0	6.6	7.6	11.5	11.1	12.7	9.8	9.2	13.5
9 to 10.9	7.6	7.7	9.7	12.7	12.0	15.5	10.2	9.5	13.9
11 to 12.9	11.3	11.9	15.0	17.3	27.0	25.8	13.1	24.3	24.3
13 to 14.9	26.4	21.6	20.8	35.9	30.7	24.5	25.2	22.5	28.8
15 or more	18.7	15.4	14.5	32.3	21.0	26.3	25.8	14.3	33.6
15 to 20.9	18.7	15.5	14.7	32.3	21.4	27.1	25.8	14.6	34.4
21 to 24.9	N	S	S	N	S	S	N	S	S
25 or more	N	N	N	N	N	N	N	N	N
Not reported	6.0	8.6	16.2	9.9	16.3	28.2	8.6	15.0	16.5
Not applicable ¹	11.1	N	N	36.2	N	N	33.7	N	N

See footnotes at end of table.

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

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

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	46.3	N	N	S	N	N	S	N	N
2002	16.7	N	N	21.8	N	N	16.3	N	N
2001	17.8	N	N	20.9	N	N	16.6	N	N
2000	15.7	N	N	19.9	N	N	16.2	N	N
1999	12.0	N	N	14.4	N	N	11.7	N	N
1998	18.3	S	S	23.3	S	S	18.3	S	S
1997	14.1	20.8	66.1	18.9	22.6	59.0	16.1	18.6	18.8
1996	14.7	28.2	26.4	19.6	S	S	15.5	S	S
1995	12.7	19.0	37.8	18.2	26.6	24.8	15.1	19.8	11.5
1994	14.5	17.3	25.3	17.9	20.3	19.0	13.4	14.0	12.1
1993	15.8	22.0	46.9	21.1	24.5	26.6	16.1	21.4	12.7
Pre-1993	2.5	1.7	2.2	5.3	4.4	3.5	4.9	4.2	4.5
VEHICLE ACQUISITION									
New	4.4	6.5	8.5	6.6	24.6	24.0	5.8	20.6	18.6
Used	2.5	2.6	3.5	5.7	5.6	8.1	5.4	5.3	7.8
Not reported	12.8	12.2	13.0	21.3	14.8	19.3	18.1	10.3	20.9
LEASE CHARACTERISTICS									
Leased	11.8	N	N	16.1	N	N	13.8	N	N
Lessee	17.2	N	N	22.2	N	N	19.1	N	N
Vehicle only	17.8	N	N	23.5	N	N	20.4	N	N
Vehicle with driver	S	N	N	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Lessor	16.7	N	N	23.1	N	N	18.2	N	N
Vehicle only	19.1	N	N	27.9	N	N	22.9	N	N
Vehicle with driver	34.8	N	N	41.6	N	N	23.0	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	2.5	N	N	5.2	N	N	4.9	N	N
Not reported	4.5	N	N	8.8	N	N	8.0	N	N
Length of leasing agreement:									
Leased	11.8	N	N	16.1	N	N	13.8	N	N
1 to 11 months	25.5	N	N	37.6	N	N	27.8	N	N
12 months or more	13.8	N	N	18.0	N	N	15.4	N	N
Not reported	45.7	N	N	S	N	N	S	N	N
Provisions of lease:									
Financing only	16.1	N	N	21.6	N	N	18.4	N	N
Full maintenance	24.6	N	N	35.4	N	N	25.4	N	N
Payment of taxes	23.7	N	N	34.5	N	N	25.2	N	N
Obtaining licenses and permits	25.1	N	N	38.1	N	N	32.1	N	N
Recordkeeping	34.9	N	N	48.5	N	N	33.6	N	N
Fuel contract	34.9	N	N	46.6	N	N	30.9	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	2.6	N	N	5.3	N	N	4.8	N	N
Motor carrier	5.3	N	N	7.4	N	N	6.4	N	N
Owner operator	9.3	N	N	13.2	N	N	11.2	N	N
Rental	22.8	N	N	25.3	N	N	13.8	N	N
Personal transportation	20.7	N	N	32.3	N	N	25.6	N	N
Not applicable ¹	11.1	N	N	36.2	N	N	33.7	N	N
For-hire characteristics:									
Type of carrier:									
Contract	7.3	N	N	10.1	N	N	7.8	N	N
Common	7.1	N	N	9.8	N	N	8.3	N	N
Not reported	12.2	N	N	17.5	N	N	14.8	N	N
Not applicable ³	2.1	N	N	5.0	N	N	4.6	N	N
Type of service:									
Truckload	5.8	9.9	30.4	8.8	13.0	25.2	7.6	8.9	7.1
Less-than truckload	9.7	19.5	25.4	11.5	S	S	9.0	S	S
Not reported	12.3	N	N	17.5	N	N	14.3	N	N
Not applicable ³	2.1	N	N	5.0	N	N	4.6	N	N
Source of hauls:									
Shippers or receivers	5.7	N	N	7.5	N	N	6.3	N	N
Brokers	19.4	N	N	32.1	N	N	25.6	N	N
Centralized markets or exchanges	41.4	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	9.0	N	N	13.8	N	N	12.0	N	N
Not applicable ³	2.1	N	N	5.0	N	N	4.6	N	N
HAZARDOUS MATERIALS CARRIED⁴									
Carrying hazardous materials	7.6	8.4	13.9	10.0	10.8	19.9	8.4	8.8	13.4
Not carrying hazardous materials	2.3	2.4	2.9	5.2	19.4	18.6	4.9	17.9	19.8
Not reported	9.7	8.7	9.6	14.4	16.0	9.0	11.7	14.8	10.8
Not applicable ⁵	8.8	N	N	18.0	N	N	15.7	N	N

See footnotes at end of table.

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

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

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	23.0	N	N	34.5	N	N	25.0	N	N
Air bag(s) (safety device only)	12.2	11.2	20.3	18.0	12.5	14.0	15.3	10.1	9.5
Air compressor (except air brakes)	11.8	N	N	16.8	N	N	14.1	N	N
Air-conditioning	5.7	10.4	15.3	7.7	32.1	33.0	6.8	24.1	19.5
Air springs	7.4	N	N	10.6	N	N	8.4	N	N
Antilock brake system	6.4	11.3	30.9	8.7	14.7	58.5	7.4	11.3	19.4
Collision warning system	45.5	N	N	S	N	N	S	N	N
Computerized drive train control unit	31.1	N	N	35.3	N	N	24.0	N	N
Crane	16.7	N	N	26.8	N	N	20.5	N	N
Electronic vehicle identification device	35.3	49.6	69.6	38.5	48.7	128.4	28.3	35.7	82.5
Engine retarder/brake	3.5	7.4	10.3	6.4	30.8	36.9	5.8	24.4	23.3
Front-wheel drive	N	N	N	N	N	N	N	N	N
Hoist	8.9	N	N	13.0	N	N	10.9	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	25.4	N	N	37.2	N	N	33.8	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	11.1	N	N	15.1	N	N	10.9	N	N
Mounting bar for snowplow	22.3	N	N	30.1	N	N	19.5	N	N
Navigational system	N	N	N	N	N	N	N	N	N
Power take-off	4.6	N	N	8.0	N	N	7.3	N	N
Radial tires	2.8	3.0	3.4	5.1	16.7	14.7	4.7	14.9	16.0
Reflective material in addition to those required by law	9.0	6.9	6.4	14.9	10.5	12.3	12.9	9.1	19.0
Road speed governor	7.9	10.5	9.8	10.9	43.9	35.1	9.3	36.0	38.7
Toolbox	5.4	N	N	9.1	N	N	8.2	N	N
Trip recorder or on-board computer with communication capabilities	23.0	N	N	27.7	N	N	24.5	N	N
Trip recorder or on-board computer without communication capabilities	13.1	N	N	14.8	N	N	8.5	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	12.8	N	N	19.7	N	N	15.0	N	N
Transmission type:									
Automatic	4.5	N	N	7.7	N	N	6.4	N	N
Manual	2.4	N	N	4.9	N	N	4.9	N	N
Semiautomated manual	41.4	N	N	S	N	N	S	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	13.7	N	N	22.5	N	N	19.6	N	N
Braking system:									
Hydraulic (standard)	5.1	6.1	8.8	9.5	12.1	16.6	8.1	10.5	13.0
Hydraulic with power assist	6.3	6.2	7.4	11.7	10.2	13.9	9.9	8.3	13.8
Air	2.3	3.6	4.4	5.1	21.2	23.0	5.0	18.6	19.8
Other	N	32.9	N	N	49.3	N	N	36.3	N
Not reported	12.5	N	N	20.9	N	N	17.9	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	4.9	3.9	4.4	9.0	8.6	9.3	7.6	7.7	11.4
Diesel	2.3	3.2	4.3	4.5	16.3	17.0	4.3	14.4	13.7
Natural gas	N	N	N	N	N	N	N	N	N
Propane	S	N	N	S	N	N	S	N	N
Alcohol fuels	N	N	N	N	N	N	N	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	S	N	N	S	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹	11.1	N	N	36.2	N	N	33.7	N	N
Cylinders ⁶ :									
4 cylinders	19.2	32.6	89.6	24.5	35.4	87.0	17.4	16.7	20.6
6 cylinders	3.1	5.3	7.7	5.2	20.6	22.4	4.9	17.1	15.0
8 cylinders	3.8	4.1	5.5	7.7	8.3	9.4	6.6	7.2	8.4
Other	5.8	4.7	5.2	12.3	8.8	9.3	11.4	8.3	12.5
Cubic inch displacement ⁶ :									
Gasoline fuel									
Less than 200	N	S	S	N	S	S	N	S	S
200 to 299	34.0	32.2	34.1	46.8	41.1	42.5	32.2	25.6	38.5
300 to 349	39.3	31.0	27.5	49.8	S	S	30.5	S	S
350 to 399	8.6	7.6	7.8	11.9	12.4	11.9	8.5	9.8	13.1
400 or more	11.2	13.9	22.3	18.4	21.9	31.8	14.7	16.7	19.7
Not available	12.6	9.4	8.0	22.8	19.7	9.9	19.5	17.2	16.8
Diesel fuel									
Less than 400	2.3	3.2	4.3	4.5	16.3	17.0	4.3	14.4	13.7
400 to 599	11.3	13.1	20.3	17.7	18.7	24.4	13.8	15.5	16.8
600 to 799	6.7	9.0	16.2	10.3	17.6	22.7	7.8	14.7	12.9
800 or more	6.8	7.9	14.1	12.8	12.8	30.4	11.2	10.9	19.3
Not available	4.4	9.3	11.0	7.7	29.3	23.0	6.5	20.9	15.5
Other fuel	6.0	4.5	5.6	12.9	9.9	21.9	12.0	9.4	27.8
Less than 400	46.2	34.1	20.8	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	11.1	N	N	36.2	N	N	33.7	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
REFUELING LOCATION									
Gas station	3.2	N	N	6.2	N	N	5.5	N	N
Truck stop	8.1	N	N	12.2	N	N	10.8	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	4.6	N	N	8.1	N	N	7.3	N	N
Other company's/contractor's facility not open to the public	13.2	N	N	21.4	N	N	19.0	N	N
Other	S	N	N	S	N	N	S	N	N
Not reported	15.2	N	N	22.6	N	N	18.8	N	N
Not applicable ¹	11.1	N	N	36.2	N	N	33.7	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	21.5	37.9	96.9	35.6	S	S	29.6	S	S
Company-owned maintenance facility	3.3	4.3	5.4	5.9	24.8	24.3	5.4	22.2	21.8
General repair business or private mechanic	5.1	6.6	10.4	8.4	10.2	22.1	7.5	8.5	15.0
Dealership service department	11.3	13.2	18.1	14.7	16.6	33.8	12.1	13.3	26.3
Leasing company	N	S	S	N	S	S	N	S	S
Individual not employed/paid by any maintenance type facility:									
Other	6.1	5.6	4.7	10.9	35.4	16.4	9.9	32.1	26.1
Not reported	16.1	13.8	14.5	25.5	20.7	12.8	22.1	17.5	16.1
Not applicable ¹	11.1	N	N	36.2	N	N	33.7	N	N
Extensive repairs performed by:									
None performed	2.2	16.4	276.9	5.0	25.4	757.3	4.7	23.1	41.2
Company-owned maintenance facility	9.2	5.5	3.8	14.2	8.0	9.7	12.2	6.7	23.0
General repair business or private mechanic	10.6	5.9	3.5	16.2	8.3	9.2	13.7	6.8	26.4
Dealership service department	13.6	14.9	6.3	15.0	48.7	24.3	10.4	37.0	58.2
Leasing company	N	S	S	N	S	S	N	S	S
Component distributorship (engine, transmission, body, etc.):									
Individual not employed/paid by any repair type facility	31.0	17.6	11.2	38.3	19.2	11.5	30.2	16.0	29.1
Other	16.5	9.4	4.4	25.3	14.9	9.4	23.0	13.4	36.6
Not reported	N	S	S	N	S	S	N	S	S
Not applicable ¹	11.1	4.9	S	36.2	10.0	S	S	9.3	S
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	1.7	1.7	2.3	4.8	5.9	6.4	4.5	5.7	6.3
3 axles	2.2	2.2	2.9	5.9	7.3	7.2	5.5	6.9	7.1
4 axles	4.2	4.1	5.8	8.6	7.6	11.9	7.6	6.8	10.8
5 axles or more	24.5	32.0	N	40.9	44.5	731.8	32.8	31.1	N
Not reported	S	N	N	S	N	N	S	N	N
Combinations:									
Single-unit trucks with trailer:	3.5	6.6	8.1	6.2	26.1	28.5	5.8	20.7	21.3
3 axles	16.7	15.3	16.8	21.2	20.8	32.7	17.6	18.1	37.7
4 axles	S	S	S	S	S	S	S	S	S
5 axles or more	34.6	23.3	17.3	49.7	34.3	24.3	35.1	25.9	42.3
Not reported	19.1	16.1	22.2	25.8	27.0	45.4	17.3	21.8	38.2
Truck-tractors with single trailer:	S	N	N	S	N	N	S	N	N
3 axles	3.9	8.0	9.8	7.6	32.4	31.8	6.8	25.3	22.7
4 axles	42.2	S	S	S	S	S	S	S	S
5 axles or more	22.7	14.8	21.7	34.6	28.0	13.1	25.4	23.7	12.8
Not reported	4.3	9.0	10.1	8.1	34.5	33.6	7.0	26.4	25.6
Truck-tractors with double trailers:	17.8	N	N	27.8	N	N	20.1	N	N
5 axles	15.4	18.6	41.1	16.6	20.3	42.4	6.4	8.1	9.8
6 axles	N	N	N	N	N	N	N	N	N
7 axles	S	N	S	S	N	S	S	N	S
8 axles or more	41.3	27.3	N	45.2	31.7	28.1	18.9	16.1	N
Not reported	17.3	26.1	81.1	18.5	26.8	80.0	6.5	5.9	8.3
Truck-tractors with triple trailers:	S	N	N	S	N	N	S	N	N
7 axles	N	N	N	N	N	N	N	N	N
8 axles	N	N	N	N	N	N	N	N	N
9 axles	N	N	N	N	N	N	N	N	N
10 axles or more	S	N	S	S	N	S	S	N	S
Not reported	N	N	N	N	N	N	N	N	N
Driving axles:									
1	2.7	3.2	3.7	6.6	25.2	13.3	6.0	23.2	14.0
2	2.5	2.9	4.5	5.0	5.2	10.4	4.9	5.0	8.6
3 or more	46.3	25.7	N	S	33.5	S	S	29.9	S
Not reported	30.8	N	N	35.4	N	N	17.3	N	N
Total liftable axles and locations:									
None	1.2	3.9	10.0	4.0	6.3	19.3	3.9	5.8	7.4
1	17.3	23.5	46.0	28.8	35.6	112.4	23.1	31.7	60.9
Forward of the drive axle	26.4	N	N	42.0	N	N	32.7	N	N
Below the chassis	S	N	N	S	N	N	S	N	N
Beyond the chassis	41.3	N	N	45.8	N	N	19.9	N	N
Not reported	30.8	N	N	49.7	N	N	39.1	N	N
2 or more	S	40.6	S	S	43.6	S	S	17.1	S
Forward of the drive axle	S	N	N	S	N	N	S	N	N
Below the chassis	N	N	N	N	N	N	N	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	34.9	N	N	40.8	N	N	20.9	N	N

See footnotes at end of table.

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

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

Vehicle and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
TRUCK TYPE AND AXLE ARRANGEMENT—Con.									
Total liftable axles and number of braking axles:									
None	1.2	3.9	10.0	4.0	6.3	19.3	3.9	5.8	7.4
1	17.3	23.5	46.0	28.8	35.6	112.4	23.1	31.7	60.9
0 braking	S	N	N	S	N	N	S	N	N
1 braking	18.3	N	N	29.8	N	N	23.6	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	S	40.6	S	S	43.6	S	S	17.1	S
0 braking	N	N	N	N	N	N	N	N	N
1 braking	N	N	N	N	N	N	N	N	N
2 or more braking	N	N	N	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	34.9	N	N	40.8	N	N	20.9	N	N
CAB TYPE									
Conventional cab	1.5	2.1	3.0	4.2	4.5	8.3	4.1	4.3	6.8
With sleeper	7.5	N	N	10.1	N	N	7.0	N	N
Without sleeper	1.7	N	N	4.5	N	N	4.2	N	N
Not reported	25.0	N	N	41.7	N	N	34.2	N	N
Cab over engine	7.7	8.1	8.6	13.5	13.0	18.6	11.4	11.1	20.5
With sleeper	21.5	N	N	37.0	N	N	30.1	N	N
Without sleeper	8.3	N	N	13.3	N	N	10.3	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	S	40.7	S	S	S	S	S	S	S
Cab beside engine	S	48.5	S	S	S	S	S	S	S
Not reported	38.0	N	N	41.4	N	N	12.8	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	274.2	261.3	5.7	1.4	5.9	X
Coefficient of variation (percent) .....	.9	1.0	22.5	9.1	2.2	X
BUSINESS¹						
For-hire transportation or warehousing	3.6	S	.5	.3	1.5	23.3
Vehicle leasing or rental	S	S	.1	S	.1	S
Agriculture, forestry, fishing, or hunting	3.0	2.5	.1	.1	.3	38.3
Mining	S	S	.1	.1	.3	S
Utilities	S	S	S	.1	S	S
Construction	11.7	8.2	1.3	.3	1.8	18.2
Manufacturing	2.0	S	.1	S	.2	47.9
Wholesale trade	2.1	S	.1	.1	.5	45.8
Retail trade	5.6	3.7	S	.1	2.5	28.7
Information services	S	S	V	S	V	S
Waste management, landscaping, or administrative/support services	S	S	.1	.1	.2	S
Arts, entertainment, or recreation services	S	S	S	V	V	S
Accommodation or food services	S	S	S	S	S	S
Other services	4.6	4.1	.2	.1	.2	32.8
Personal transportation	217.3	216.0	S	S	S	2.3
Not reported	6.3	5.9	.1	S	.2	28.5
Not applicable ²	8.9	8.3	.2	.1	.3	23.7
BODY TYPE						
Single-unit trucks	271.5	261.3	5.7	1.3	3.2	.9
Pickup	139.9	138.2	S	V	V	1.3
Minivan	24.1	24.1	V	V	V	13.7
Other light vans	11.2	10.1	S	V	V	21.4
Sport utility	86.4	86.4	V	V	V	4.6
Armored	S	V	S	V	V	S
Beverage	S	V	V	S	S	S
Concrete mixer .....	.3	V	V	S	V	14.5
Concrete pumper	S	V	S	V	V	S
Crane .....	.1	S	V	S	S	46.1
Curtainside	S	V	V	V	S	S
Dump	1.5	.1	.2	.1	1.2	6.7
Flatbed, stake, or platform	2.9	1.1	.8	.5	.5	5.8
Low boy	V	V	V	V	V	N
Pole, logging, pulpwood, or pipe	S	S	V	V	S	S
Service, utility .....	.4	.1	.1	S	.1	19.2
Service, other .....	.5	.2	.2	.1	.1	16.0
Street sweeper	S	V	S	V	V	S
Tank, dry bulk	V	V	V	V	V	N
Tank, liquids or gases .....	.8	S	.1	.1	.6	10.5
Tow/Wrecker .....	.3	.1	.2	.1	S	19.2
Trash, garbage, or recycling .....	.2	V	S	S	.1	21.2
Vacuum .....	.1	V	S	V	V	34.9
Van, basic enclosed	1.4	.2	.7	.3	.2	9.0
Van, insulated nonrefrigerated .....	.1	.1	S	S	S	30.7
Van, insulated refrigerated .....	.1	S	S	S	S	38.9
Van, open top	S	S	V	V	S	S
Van, step, walk-in, or multistop .....	.9	.5	.4	V	V	12.0
Van, other .....	.2	.1	.1	S	V	24.9
Other	V	V	V	V	V	N
Truck-tractors	2.7	V	V	.1	2.6	3.3
Automobile carrier	S	V	V	V	S	S
Beverage	S	V	V	V	S	S
Curtainside .....	.1	V	V	V	V	32.6
Dump .....	.4	V	V	V	.4	11.6
Flatbed, stake, or platform .....	.5	V	V	V	.5	10.6
Livestock	V	V	V	V	V	N
Low boy .....	.2	V	V	V	V	18.9
Mobile home toter	S	V	V	V	S	S
Open top	S	V	V	V	S	S
Pole, logging, pulpwood, or pipe .....	.1	V	V	V	.1	29.2
Tank, dry bulk	S	V	V	V	S	S
Tank, liquids or gases .....	.2	V	V	V	.2	20.7
Van, basic enclosed .....	.6	V	V	V	.6	10.1
Van, drop-frame	V	V	V	V	V	46.1
Van, insulated nonrefrigerated .....	.2	V	V	V	.2	16.7
Van, insulated refrigerated .....	.2	V	V	V	.2	15.7
Other	S	V	V	V	S	S
Not applicable ³ .....	.1	V	V	V	.1	21.5
ANNUAL MILES						
Less than 5,000	59.0	54.3	1.9	.7	2.1	8.4
5,000 to 9,999	85.3	83.5	.6	.2	1.0	6.7
10,000 to 19,999	100.1	97.3	1.7	.2	.9	6.0
20,000 to 29,999	15.7	13.8	S	.1	.5	18.2
30,000 to 49,999	3.3	2.9	.1	S	.3	38.6
50,000 to 74,999	S	S	S	S	.4	S
75,000 or more .....	.4	V	V	V	.4	11.9
Not applicable ²	8.9	8.3	.2	.1	.3	23.7
PRIMARY RANGE OF OPERATION						
Off-the-road	S	S	.1	S	.2	S
50 miles or less	192.1	183.2	4.3	1.0	3.6	3.0
51 to 100 miles	14.4	13.9	.1	.1	.4	18.9
101 to 200 miles	3.8	3.5	S	S	.3	36.6
201 to 500 miles	4.4	4.1	.1	S	.3	34.2
501 miles or more	10.7	9.7	S	S	.3	22.3
Not reported	38.2	37.4	.3	.1	.4	11.2
Not applicable ²	8.9	8.3	.2	.1	.3	23.7

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	Vehicle size					Coefficient of variation of total (percent)
	Total	Light	Medium	Light-heavy	Heavy-heavy	
PRIMARY JURISDICTION						
Operated in Canada.....	S	S	S	S	.1	S
Operated in Mexico.....	S	V	V	S	V	S
Operated within the home base state.....	230.4	219.0	5.3	1.1	5.0	2.1
Operated in states other than the home base state.....	4.1	4.0	S	V	.1	36.5
Not reported.....	30.0	29.4	.2	.1	.3	12.9
Not applicable ²	8.9	8.3	.2	.1	.3	23.7
MONTHS OPERATED						
12.....	166.0	160.8	2.7	.4	2.1	3.7
7 to 11.....	50.7	47.1	2.2	.1	1.3	9.4
2 to 6.....	38.0	35.1	.6	.5	1.8	10.9
1 or less.....	10.6	10.0	.2	.1	.4	21.8
Vehicle not used.....	8.9	8.3	.2	.1	.3	23.7
AVERAGE WEIGHT (POUNDS)						
Less than 6,001.....	200.6	200.6	N	N	N	2.7
6,001 to 8,500.....	53.4	53.4	N	N	N	9.1
8,501 to 10,000.....	7.3	7.3	N	N	N	25.8
10,001 to 14,000.....	3.7	N	3.7	N	N	31.3
14,001 to 16,000.....	1.3	N	1.3	N	N	45.1
16,001 to 19,500.....	.8	N	.8	N	N	13.1
19,501 to 26,000.....	1.4	N	N	1.4	N	9.1
26,001 to 33,000.....	.7	N	N	N	.7	12.2
33,001 to 40,000.....	.7	N	N	N	.7	10.9
40,001 to 50,000.....	1.3	N	N	N	1.3	6.2
50,001 to 60,000.....	1.1	N	N	N	1.1	7.0
60,001 to 80,000.....	1.0	N	N	N	1.0	7.5
80,001 to 100,000.....	.8	N	N	N	.8	8.0
100,001 to 130,000.....	.1	N	N	N	.1	20.4
130,001 or more.....	.1	N	N	N	.1	29.0
TOTAL LENGTH (FEET)						
Less than 20.0.....	223.8	221.9	1.6	.1	.2	2.1
20.0 to 27.9.....	29.4	25.4	1.9	.7	1.5	12.1
28.0 to 35.9.....	12.5	9.9	S	.4	1.1	19.2
36.0 to 40.9.....	5.0	4.1	S	.1	.3	32.0
41.0 to 44.9.....	.2	V	S	S	.1	22.4
45.0 to 49.9.....	S	V	S	S	.2	S
50.0 to 54.9.....	.5	V	V	S	.5	12.2
55.0 to 59.9.....	.6	V	V	V	.6	9.5
60.0 to 64.9.....	.5	V	V	S	.4	12.1
65.0 to 69.9.....	.4	V	V	V	.4	12.0
70.0 to 74.9.....	.3	V	V	V	.3	12.8
75.0 to 79.9.....	.1	V	V	V	.1	32.6
80.0 or more.....	.2	V	V	V	.2	15.4
MILES PER GALLON						
Less than 5.....	1.4	.1	.1	.1	1.2	6.9
5 to 6.9.....	2.5	.1	.4	.1	1.9	5.3
7 to 8.9.....	6.1	4.4	.5	.4	.7	25.0
9 to 10.9.....	23.7	21.9	1.1	.3	4.4	14.3
11 to 12.9.....	34.6	34.1	.3	.1	2.2	11.9
13 to 14.9.....	28.7	28.0	S	S	.6	13.3
15 or more.....	118.4	116.5	S	S	S	5.2
15 to 20.9.....	101.4	99.4	S	S	S	5.9
21 to 24.9.....	12.5	12.5	V	V	V	20.8
25 or more.....	4.5	4.5	V	V	V	35.1
Not reported.....	49.9	47.8	.5	.3	1.2	9.5
Not applicable ²	8.9	8.3	.2	.1	.3	23.7
MODEL YEAR						
2003.....	.1	S	V	V	S	46.3
2002.....	16.8	16.0	S	S	S	17.7
2001.....	24.2	23.9	.1	S	S	14.5
2000.....	15.8	15.4	.1	S	S	18.2
1999.....	21.8	20.6	S	S	.3	15.3
1998.....	12.2	12.0	.1	S	.1	20.8
1997.....	17.1	15.5	S	S	.2	17.4
1996.....	13.1	12.6	.2	S	.3	20.1
1995.....	18.4	17.8	.2	.1	.3	16.8
1994.....	13.7	13.3	.1	V	.2	19.6
1993.....	16.0	15.6	.2	S	.2	18.1
Pre-1993.....	105.2	98.3	2.1	1.1	3.6	5.7
VEHICLE ACQUISITION						
New.....	101.0	96.0	2.8	.3	1.9	5.9
Used.....	147.4	139.9	2.8	1.1	3.6	4.2
Not reported.....	25.9	25.4	.2	S	.3	13.9
LEASE CHARACTERISTICS						
Leased.....	8.0	7.4	.1	S	.4	25.3
Lessee.....	6.0	5.7	.1	S	.2	29.6
Vehicle only.....	.3	S	.1	S	S	17.8
Vehicle with driver.....	S	V	V	V	S	N
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	5.7	5.7	V	V	V	31.3
Lessor.....	S	S	S	S	S	S
Vehicle only.....	.2	S	S	S	S	19.1
Vehicle with driver.....	V	V	V	V	S	34.8
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	S	S	V	V	V	S
Not leased.....	S	S	S	V	S	S
Not reported.....	155.9	146.7	4.7	.8	3.8	4.0
Not reported.....	110.3	107.1	1.0	.5	1.7	5.5

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
LEASE CHARACTERISTICS—Con.						
Length of leasing agreement:						
Leased	8.0	7.4	.1	S	.4	25.3
1 to 11 months	.1	V	V	V	.1	25.5
12 months or more	.5	.1	.1	V	.3	13.8
Not reported	V	V	S	V	V	45.7
Not applicable ⁴	7.4	7.4	V	V	V	27.4
Provisions of lease ⁵ :						
Financing only	.4	.1	.1	S	.2	16.1
Full maintenance	.1	V	S	V	.1	24.6
Payment of taxes	.1	V	S	S	.1	23.7
Obtaining licenses and permits	.1	V	S	S	.1	25.1
Recordkeeping	V	V	V	V	V	34.9
Fuel contract	V	V	V	S	V	34.9
PRIMARY OPERATOR CLASSIFICATION						
Private	42.0	34.5	3.6	.8	3.2	9.9
Motor carrier	3.1	S	.5	.2	1.6	19.1
Owner operator	1.5	S	.1	.1	.7	38.0
Rental	S	S	.1	S	.1	S
Personal transportation	217.3	216.0	S	S	S	2.3
Not applicable ²	8.9	8.3	.2	.1	.3	23.7
For-hire characteristics:						
Type of carrier:						
Contract	1.2	S	.1	.1	1.0	7.3
Common	1.7	.1	.3	.2	1.0	7.1
Not reported	.6	S	.2	.1	.3	12.2
Not applicable ⁶	270.7	261.0	5.1	1.0	3.6	.9
Type of service:						
Truckload	1.8	S	.2	.2	1.4	5.8
Less-than truckload	1.0	.1	.3	.1	.5	9.7
Not reported	.6	.1	.2	.1	.3	12.3
Not applicable ⁶	270.7	261.0	5.1	1.0	3.6	.9
Source of hauls:						
Shippers or receivers	2.2	.2	.4	.2	1.4	5.7
Brokers	.2	V	S	S	.1	19.4
Centralized markets or exchanges	V	V	V	V	V	41.4
Other	V	V	V	V	V	N
Not reported	1.1	.1	.2	.1	.7	9.0
Not applicable ⁶	270.7	261.0	5.1	1.0	3.6	.9
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	1.3	.1	.1	.1	1.0	7.6
Not carrying hazardous materials	8.6	1.6	2.1	.9	4.1	2.3
Not reported	1.2	.4	.2	.2	.4	9.7
Not applicable ⁸	263.1	259.2	3.3	.2	.4	.9
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	.3	S	.1	S	.1	23.0
Air bag(s) (safety device only)	132.3	130.1	2.0	S	.2	4.6
Air compressor (except air brakes)	.6	S	.2	.1	.4	11.8
Air-conditioning	157.9	153.6	2.7	.1	1.5	3.9
Air springs	1.0	S	S	.1	.9	7.4
Antilock brake system	140.2	137.3	1.7	.1	1.0	4.4
Collision warning system	.1	V	S	S	S	45.5
Computerized drive train control unit	25.8	25.7	S	V	V	14.1
Crane	.4	S	.1	.1	.2	16.7
Electronic vehicle identification device	.1	V	S	V	V	35.3
Engine retarder/brake	3.0	S	.1	.1	2.7	3.5
Front-wheel drive	212.6	210.8	S	V	V	2.4
Hoist	1.2	.2	.3	.2	.6	8.9
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	.1	V	V	V	.1	25.4
Internet access	S	V	V	V	S	S
Lift gate	.9	.2	.4	.2	.1	11.1
Mounting bar for snowplow	8.3	8.2	.1	V	.1	25.4
Navigational system	V	V	V	V	V	N
Power take-off	3.2	.2	.4	.3	2.3	4.6
Radial tires	169.4	161.4	3.8	.6	3.6	3.6
Reflective material in addition to those required by law	1.0	.1	.3	.1	.6	9.0
Road speed governor	1.4	S	.4	.1	.8	7.9
Toolbox	23.2	20.2	1.2	.3	1.4	14.0
Trip recorder or on-board computer with communication capabilities	6.5	6.3	.1	S	.1	28.9
Trip recorder or on-board computer without communication capabilities	39.6	39.2	S	V	.3	11.0
Vehicle control aids for handicapped drivers	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	S
Winch	3.6	3.0	.2	.1	.2	35.9
Transmission type:						
Automatic	189.2	183.9	4.4	.3	.6	3.0
Manual	65.9	58.8	1.2	1.0	4.9	7.7
Semiautomated manual	S	S	V	S	V	S
Automated manual	S	V	V	V	S	S
Not reported	18.4	17.9	.1	.1	.3	16.6
Braking system:						
Hydraulic (standard)	3.4	1.3	1.3	.5	.3	5.1
Hydraulic with power assist	2.5	1.0	.9	.3	.3	6.3
Air	5.9	S	.4	.5	5.0	2.3
Other	V	V	V	V	V	N
Not reported	.7	.1	.2	.1	.3	12.5
Not applicable ¹⁰	261.7	258.8	2.9	V	V	.9

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	237.6	233.7	3.1	.5	.3	1.8
Diesel	27.1	18.7	2.4	.8	5.2	11.6
Natural gas	V	V	V	V	V	N
Propane	S	V	S	V	S	S
Alcohol fuels	S	S	V	V	V	S
Electricity	V	V	V	V	V	N
Combination	S	V	S	V	V	S
Other	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ²	8.9	8.3	.2	.1	.3	23.7
Cylinders ¹¹ :						
4 cylinders	33.9	33.7	.1	S	V	12.1
6 cylinders	112.4	106.9	1.2	.5	3.9	5.2
8 cylinders	120.8	115.8	3.9	.5	.6	4.9
Other	7.1	4.9	.5	.4	1.4	22.8
Cubic inch displacement ¹¹ :						
Gasoline fuel	237.6	233.7	3.1	.5	.3	1.8
Less than 200	58.7	58.7	V	V	V	8.7
200 to 299	80.0	79.9	.1	V	V	6.8
300 to 349	45.4	44.8	S	S	V	10.2
350 to 399	40.6	38.6	1.7	.1	.1	10.8
400 or more	9.2	8.6	.4	.1	.1	23.1
Not available	3.7	3.1	.3	.2	.1	34.6
Diesel fuel	27.1	18.7	2.4	.8	5.2	11.6
Less than 400	9.6	8.3	S	.2	.1	22.9
400 to 599	12.8	10.3	1.4	.4	.7	18.6
600 to 799	1.2	S	V	.1	1.2	6.8
800 or more	1.9	V	S	S	1.9	4.4
Not available	1.7	S	.1	.2	1.4	6.0
Other fuel	S	S	S	V	V	S
Less than 400	S	S	S	V	V	S
400 or more	S	V	S	V	S	S
Not available	S	V	V	V	S	S
Not reported	S	V	V	V	S	S
Not applicable ²	8.9	8.3	.2	.1	.3	23.7
REFUELING LOCATION						
Gas station	231.1	223.8	4.7	.7	1.9	2.0
Truck stop	3.0	S	.1	.2	.9	33.9
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	9.6	6.6	.5	.3	2.2	19.3
Other company's/contractor's facility not open to the public	1.6	S	.1	S	4.4	48.7
Other	S	S	V	V	S	S
Not reported	19.5	19.1	.1	.2	.2	16.3
Not applicable ²	8.9	8.3	.2	.1	.3	23.7
MAINTENANCE⁵						
General maintenance performed by:						
None performed	10.0	9.9	.1	S	V	23.2
Company-owned maintenance facility	19.0	13.9	1.2	.6	3.3	14.1
General repair business or private mechanic	107.6	103.9	2.0	.3	1.3	5.6
Dealership service department	59.5	57.7	S	.1	.4	8.6
Leasing company	V	V	V	V	V	N
Individual not employed/paid by any maintenance type facility	103.8	100.1	2.3	.3	1.1	5.8
Other	V	V	V	V	V	N
Not reported	22.3	21.9	.1	S	.2	15.2
Not applicable ²	8.9	8.3	.2	.1	.3	23.7
Extensive repairs performed by:						
None performed	196.0	186.7	4.5	1.1	3.8	2.9
Company-owned maintenance facility	2.7	S	.2	S	.7	35.6
General repair business or private mechanic	19.2	18.5	.2	S	.5	16.3
Dealership service department	12.4	12.0	S	S	.3	20.7
Leasing company	V	V	V	V	V	N
Component distributorship (engine, transmission, body, etc.)	.1	S	S	V	.1	31.0
Individual not employed/paid by any repair type facility	15.2	14.4	S	V	.2	18.6
Other	V	V	V	V	V	N
Not reported	S	S	S	V	S	S
Not applicable ²	8.9	8.3	.2	.1	.3	23.7
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	265.0	256.0	4.5	1.3	3.1	1.1
2 axles	262.6	256.0	4.5	1.2	.9	1.2
3 axles	2.2	V	V	.1	2.0	4.2
4 axles	.1	V	V	V	.1	24.5
5 axles or more	S	V	V	V	S	S
Not reported	S	V	V	V	S	S
Combinations	9.3	5.2	S	.1	2.8	20.4
Single-unit trucks with trailer	6.7	5.2	S	S	.2	28.2
3 axles	3.5	3.5	S	V	V	40.1
4 axles	3.0	S	S	S	.1	42.6
5 axles or more	.2	V	S	S	.1	19.1
Not reported	S	V	S	V	S	S
Truck-tractors with single trailer	2.3	V	V	S	2.3	3.9
3 axles	.1	V	V	S	S	42.2
4 axles	.2	V	V	V	.2	22.7
5 axles or more	1.9	V	V	V	1.9	4.3
Not reported	.2	V	V	V	.2	17.8
Truck-tractors with double trailers	.2	V	V	V	.2	15.4
5 axles	V	V	V	V	V	N
6 axles	V	V	V	V	S	S
7 axles	V	V	V	V	V	41.3
8 axles or more	.2	V	V	V	.2	17.3
Not reported	S	V	V	V	S	S
Truck-tractors with triple trailers	S	V	V	V	S	S
7 axles	V	V	V	V	V	N
8 axles	V	V	V	V	V	N
9 axles	V	V	V	V	V	N
10 axles or more	V	V	V	V	S	S
Not reported	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
TRUCK TYPE AND AXLE ARRANGEMENT—Con.						
Driving axles:						
1	55.6	49.8	3.5	1.1	1.1	8.6
2	218.5	211.5	2.2	.2	4.6	2.4
3 or more	V	V	V	V	V	46.3
Not reported .....	.1	V	V	V	.1	30.8
Total liftable axles and locations ¹² :						
None	12.3	2.5	2.9	1.4	5.6	1.2
1 .....	.2	V	V	V	.2	17.3
Forward of the drive axle .....	.1	V	V	V	.1	26.4
Below the chassis	S	V	V	V	S	S
Beyond the chassis	V	V	V	V	V	41.3
Not reported .....	.1	V	V	V	.1	30.8
2 or more	S	V	V	V	S	S
Forward of the drive axle	S	V	V	V	S	S
Below the chassis	V	V	V	V	V	N
Beyond the chassis	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Not reported	V	V	V	V	V	34.9
Not applicable ¹⁰	261.7	258.8	2.9	V	V	.9
Total liftable axles and number of braking axles:						
None	12.3	2.5	2.9	1.4	5.6	1.2
1 .....	.2	V	V	V	.2	17.3
0 braking	S	V	V	V	S	S
1 braking .....	.2	V	V	V	.2	18.3
Not reported	S	V	V	V	S	S
2 or more	S	V	V	V	S	S
0 braking	V	V	V	V	V	N
1 braking	V	V	V	V	V	N
2 or more braking	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Not reported	V	V	V	V	V	34.9
Not applicable ¹⁰	261.7	258.8	2.9	V	V	.9
CAB TYPE						
Conventional cab	11.2	2.3	2.4	1.2	5.3	1.5
With sleeper .....	.9	V	V	V	.9	7.5
Without sleeper	10.2	2.3	2.4	1.1	4.3	1.7
Not reported .....	.1	V	V	S	.1	25.0
Cab over engine	1.3	.2	.4	.2	.5	7.7
With sleeper .....	.1	V	V	S	.1	21.5
Without sleeper	1.1	.2	.4	.2	.4	8.3
Not reported	S	V	V	V	S	S
Cab forward of engine	S	V	V	S	S	S
Cab beside engine	S	V	V	V	S	S
Not reported .....	.1	V	S	S	V	38.0
Not applicable ¹⁰	261.7	258.8	2.9	V	V	.9

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

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

²Vehicles not in use.

³Truck-tractors not in use.

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

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

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

⁷Distributed miles data are available in Table 8.

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

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

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

¹¹Data were derived from administrative records.

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

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

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

Table 5. Trucks by Truck Type: 2002

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
Total	274.2	265.0	9.3	6.7	2.3	.2	S	X
Coefficient of variation (percent) .....	.9	1.1	20.4	28.2	3.9	15.4	S	X
BUSINESS¹								
For-hire transportation or warehousing	3.6	2.2	1.3	S	1.1	.2	S	23.3
Vehicle leasing or rental	S	S	V	V	.1	V	V	S
Agriculture, forestry, fishing, or hunting	3.0	2.8	.2	S	.1	V	V	38.3
Mining	S	S	.1	S	.1	S	V	S
Utilities	S	S	S	S	S	V	V	S
Construction	11.7	10.3	1.4	S	.6	S	V	18.2
Manufacturing	2.0	S	.1	S	.1	V	V	47.9
Wholesale trade	2.1	2.1	V	V	V	V	V	45.8
Retail trade	5.6	5.5	.1	S	.1	V	V	28.7
Information services	S	S	V	V	V	V	V	S
Waste management, landscaping, or administrative/support services	S	S	S	S	V	V	V	S
Arts, entertainment, or recreation services	S	S	S	S	V	V	V	S
Accommodation or food services	S	S	S	V	S	V	V	S
Other services	4.6	4.6	S	V	S	V	V	32.8
Personal transportation	217.3	212.1	5.2	V	S	V	V	2.3
Not reported	6.3	6.2	.1	V	.1	S	V	28.5
Not applicable ²	8.9	8.9	V	V	V	V	V	23.7
BODY TYPE								
Single-unit trucks	271.5	264.8	6.7	6.7	N	N	N	.9
Pickup	139.9	134.7	5.2	5.2	N	N	N	1.3
Minivan	24.1	23.6	S	S	N	N	N	13.7
Other light vans	11.2	10.7	S	S	N	N	N	21.4
Sport utility	86.4	86.4	V	V	N	N	N	4.6
Armored	S	S	V	V	N	N	N	S
Beverage	S	S	V	V	N	N	N	S
Concrete mixer .....	.3	.3	V	V	N	N	N	14.5
Concrete pumper	S	S	V	V	N	N	N	S
Crane .....	.1	.1	V	V	N	N	N	46.1
Curtainside	S	S	V	V	N	N	N	S
Dump	1.5	1.4	.2	.2	N	N	N	6.7
Flatbed, stake, or platform	2.9	2.8	.1	.1	N	N	N	5.8
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 .....	.4	.3	.1	.1	N	N	N	19.2
Service, other .....	.5	.5	V	V	N	N	N	16.0
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk	V	V	V	V	N	N	N	N
Tank, liquids or gases .....	.8	.7	V	V	N	N	N	10.5
Tow/Wrecker .....	.3	.3	V	V	N	N	N	19.2
Trash, garbage, or recycling .....	.2	.2	V	V	N	N	N	21.2
Vacuum .....	.1	.1	V	V	N	N	N	34.9
Van, basic enclosed	1.4	1.4	S	S	N	N	N	9.0
Van, insulated nonrefrigerated .....	.1	.1	S	S	N	N	N	30.7
Van, insulated refrigerated .....	.1	.1	V	V	N	N	N	38.9
Van, open top	S	S	V	V	N	N	N	S
Van, step, walk-in, or multistop .....	.9	.9	V	V	N	N	N	12.0
Van, other .....	.2	.2	V	V	N	N	N	24.9
Other	V	V	V	V	N	N	N	N
Truck-tractors	2.7	.1	2.6	N	2.3	.2	S	3.3
Automobile carrier	S	N	S	N	S	V	V	S
Beverage	S	N	S	N	S	V	V	S
Curtainside .....	.1	N	.1	N	.1	V	V	32.6
Dump .....	.4	N	.4	N	.4	S	V	11.6
Flatbed, stake, or platform .....	.5	N	.5	N	.5	S	V	10.6
Livestock	V	N	V	N	V	V	V	N
Low boy .....	.2	N	.2	N	.2	V	S	18.9
Mobile home toter	S	N	S	N	S	V	V	S
Open top	S	N	S	N	S	V	V	S
Pole, logging, pulpwood, or pipe .....	.1	N	.1	N	.1	V	V	29.2
Tank, dry bulk	S	N	S	N	S	V	V	S
Tank, liquids or gases .....	.2	N	.2	N	.1	V	V	20.7
Van, basic enclosed .....	.6	N	.6	N	.6	S	V	10.1
Van, drop-frame	V	N	V	N	V	V	V	46.1
Van, insulated nonrefrigerated .....	.2	N	.2	N	.1	.1	V	16.7
Van, insulated refrigerated .....	.2	N	.2	N	.2	S	V	15.7
Other	S	N	S	N	S	V	V	S
Not applicable ³ .....	.1	.1	V	N	V	V	V	21.5
ANNUAL MILES								
Less than 5,000	59.0	57.1	2.0	S	.7	S	V	8.4
5,000 to 9,999	85.3	82.0	3.3	3.0	.3	V	V	6.7
10,000 to 19,999	100.1	97.3	2.7	2.3	.4	S	V	6.0
20,000 to 29,999	15.7	15.3	.4	V	.3	S	V	18.2
30,000 to 49,999	3.3	3.1	.2	S	.2	S	V	38.6
50,000 to 74,999	S	S	.3	V	.2	.1	S	S
75,000 or more .....	.4	V	.4	V	.3	.1	V	11.9
Not applicable ²	8.9	8.9	V	V	V	V	V	23.7

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination			Truck-tractor with triple trailers		
			Total	Single-unit truck with trailer	Truck-tractor with single trailer			Truck-tractor with double trailers
PRIMARY RANGE OF OPERATION								
Off-the-road	S	S	.1	V	.1	V	V	S
50 miles or less	192.1	187.6	4.5	3.2	1.3	V	V	3.0
51 to 100 miles	14.4	13.0	S	S	.2	V	V	18.9
101 to 200 miles	3.8	3.0	S	S	.2	S	V	36.6
201 to 500 miles	4.4	4.2	.2	V	.1	.1	V	34.2
501 miles or more	10.7	9.8	S	S	.3	.1	S	22.3
Not reported	38.2	36.9	S	S	.2	S	V	11.2
Not applicable ²	8.9	8.9	V	V	V	V	V	23.7
PRIMARY JURISDICTION								
Operated in Canada	S	S	.1	V	.1	V	V	S
Operated in Mexico	S	V	S	S	V	V	V	S
Operated within the home base state	230.4	221.5	8.9	6.7	2.0	.2	V	2.1
Operated in states other than the home base state	4.1	4.1	.1	V	.1	S	V	36.5
Not reported	30.0	29.8	.2	S	.2	S	S	12.9
Not applicable ²	8.9	8.9	V	V	V	V	V	23.7
MONTHS OPERATED								
12	166.0	161.8	4.1	3.0	1.0	.2	S	3.7
7 to 11	50.7	48.8	1.9	S	.5	.1	V	9.4
2 to 6	38.0	35.5	2.5	S	.7	S	V	10.9
1 or less	10.6	9.9	S	S	.1	S	V	21.8
Vehicle not used	8.9	8.9	V	V	V	V	V	23.7
VEHICLE SIZE								
Light	261.3	256.0	5.2	5.2	V	V	V	1.0
Medium	5.7	4.5	S	S	V	V	V	22.5
Light-heavy	1.4	1.3	.1	S	V	V	V	9.1
Heavy-heavy	5.9	3.1	2.8	.2	2.3	.2	S	2.2
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	200.6	198.9	S	S	V	V	V	2.7
6,001 to 8,500	53.4	49.9	3.5	3.5	V	V	V	9.1
8,501 to 10,000	7.3	7.3	S	S	V	V	V	25.8
10,001 to 14,000	3.7	3.1	S	S	V	V	V	31.3
14,001 to 16,000	1.3	.7	S	S	V	V	V	45.1
16,001 to 19,500	.8	.7	S	S	V	V	V	13.1
19,501 to 26,000	1.4	1.3	.1	S	S	V	V	9.1
26,001 to 33,000	.7	.6	.1	S	.1	V	V	12.2
33,001 to 40,000	.7	.6	.2	S	.1	V	V	10.9
40,001 to 50,000	1.3	1.1	.3	V	.2	S	V	6.2
50,001 to 60,000	1.1	.7	.3	S	.3	V	V	7.0
60,001 to 80,000	1.0	.1	.9	S	.8	S	V	7.5
80,001 to 100,000	.8	V	.8	.1	.5	.2	V	8.0
100,001 to 130,000	.1	S	.1	S	.1	S	V	20.4
130,001 or more	.1	V	.1	V	S	V	S	29.0
TOTAL LENGTH (FEET)								
Less than 20.0	223.8	223.8	V	V	V	V	V	2.1
20.0 to 27.9	29.4	28.3	S	S	V	V	V	12.1
28.0 to 35.9	12.5	8.4	4.1	4.1	V	V	V	19.2
36.0 to 40.9	5.0	4.3	S	S	.1	V	V	32.0
41.0 to 44.9	.2	.1	.1	S	V	V	V	22.4
45.0 to 49.9	S	.1	S	S	.1	V	V	S
50.0 to 54.9	.5	.1	.4	.1	.3	S	V	12.2
55.0 to 59.9	.6	V	.6	S	.6	V	V	9.5
60.0 to 64.9	.5	V	.5	.1	.4	V	V	12.1
65.0 to 69.9	.4	V	.4	V	.4	V	V	12.0
70.0 to 74.9	.3	V	.3	V	.3	V	V	12.8
75.0 to 79.9	.1	V	.1	S	V	V	V	32.6
80.0 or more	.2	V	.2	V	V	.2	S	15.4
MILES PER GALLON								
Less than 5	1.4	.6	.8	.1	.6	.1	S	6.9
5 to 6.9	2.5	1.6	.9	.1	.7	.1	V	5.3
7 to 8.9	6.1	5.7	.4	.1	.3	S	V	25.0
9 to 10.9	23.7	23.0	S	S	.1	S	V	14.3
11 to 12.9	34.6	33.4	S	S	S	V	V	11.9
13 to 14.9	28.7	26.4	2.3	2.3	S	V	V	13.3
15 or more	118.4	116.1	2.3	2.3	V	V	V	5.2
15 to 20.9	101.4	99.0	2.3	2.3	V	V	V	5.9
21 to 24.9	12.5	12.5	V	V	V	V	V	20.8
25 or more	4.5	4.5	V	V	V	V	V	35.1
Not reported	49.9	49.3	.6	S	.5	.1	V	9.5
Not applicable ²	8.9	8.9	V	V	V	V	V	23.7

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
MODEL YEAR								
2003	.1	S	S	S	S	S	V	46.3
2002	16.8	16.7	.1	S	.1	S	V	17.7
2001	24.2	24.1	.1	S	.1	S	S	14.5
2000	15.8	15.1	S	S	.1	S	V	18.2
1999	21.8	21.0	S	S	.1	.1	V	15.3
1998	12.2	12.1	.1	S	.1	S	V	20.8
1997	17.1	15.2	S	S	.1	S	V	17.4
1996	13.1	13.0	.1	V	.1	S	V	20.1
1995	18.4	17.6	S	S	.2	V	V	16.8
1994	13.7	13.6	.1	S	.1	S	V	19.6
1993	16.0	15.9	.1	S	.1	S	V	18.1
Pre-1993	105.2	100.8	4.3	3.1	1.3	V	V	5.7
VEHICLE ACQUISITION								
New	101.0	97.0	3.9	3.0	.8	.2	S	5.9
Used	147.4	142.2	5.1	3.7	1.4	V	V	4.2
Not reported	25.9	25.7	.2	S	.1	S	V	13.9
LEASE CHARACTERISTICS								
Leased	8.0	7.7	.3	S	.2	V	S	25.3
Lessee	6.0	5.9	.1	S	.1	S	S	29.6
Vehicle only	.3	.2	.1	S	.1	S	S	17.8
Vehicle with driver	S	V	S	V	S	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	5.7	5.7	V	V	V	V	V	31.3
Lessor	S	S	.1	S	.1	S	V	S
Vehicle only	.2	.1	.1	S	.1	S	V	19.1
Vehicle with driver	V	S	V	S	S	S	V	34.8
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	S	S	V	V	V	V	V	S
Not reported	S	S	S	V	S	V	V	S
Not leased	155.9	147.8	8.2	6.6	1.4	.2	V	4.0
Not reported	110.3	109.5	.8	.1	.7	V	V	5.5
Length of leasing agreement:								
Leased	8.0	7.7	.3	S	.2	V	S	25.3
1 to 11 months	.1	V	.1	S	V	S	V	25.5
12 months or more	.5	.3	.2	S	.1	S	S	13.8
Not reported	V	S	S	V	S	S	V	45.7
Not applicable ⁴	7.4	7.4	V	V	V	V	V	27.4
Provisions of lease ⁵ :								
Financing only	.4	.3	.1	S	.1	S	S	16.1
Full maintenance	.1	V	.1	S	V	V	V	24.6
Payment of taxes	.1	V	.1	V	.1	S	V	23.7
Obtaining licenses and permits	.1	.1	.1	V	.1	S	V	25.1
Recordkeeping	V	S	V	S	V	V	V	34.9
Fuel contract	V	S	V	V	S	V	V	34.9
PRIMARY OPERATOR CLASSIFICATION								
Private	42.0	39.7	2.3	S	.9	V	V	9.9
Motor carrier	3.1	1.9	1.8	S	1.0	.2	S	19.1
Owner operator	1.5	S	.5	V	.4	V	V	38.0
Rental	S	S	V	V	V	V	V	S
Personal transportation	217.3	212.1	5.2	5.2	S	V	V	2.3
Not applicable ²	8.9	8.9	V	V	V	V	V	23.7
For-hire characteristics:								
Type of carrier:								
Contract	1.2	.4	.8	V	.7	.1	V	7.3
Common	1.7	1.0	.7	S	.5	.2	S	7.1
Not reported	.6	.4	.2	S	.2	S	V	12.2
Not applicable ⁶	270.7	263.2	7.5	6.6	.9	V	V	.9
Type of service:								
Truckload	1.8	.7	1.1	.1	.9	.1	S	5.8
Less-than truckload	1.0	.6	.4	V	.3	.1	V	9.7
Not reported	.6	.4	.2	S	.2	S	V	12.3
Not applicable ⁶	270.7	263.2	7.5	6.6	.9	V	V	.9
Source of hauls:								
Shippers or receivers	2.2	1.0	1.2	S	1.0	.2	S	5.7
Brokers	.2	V	.1	S	.1	V	V	19.4
Centralized markets or exchanges	V	S	.5	V	S	S	V	41.4
Other	V	V	V	V	V	V	V	N
Not reported	1.1	.7	.4	V	.3	V	V	9.0
Not applicable ⁶	270.7	263.2	7.5	6.6	.9	V	V	.9
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	1.3	.7	.7	V	.5	.1	V	7.6
Not carrying hazardous materials	8.6	6.7	2.0	.3	1.6	.1	S	2.3
Not reported	1.2	.9	.2	S	.2	S	V	9.7
Not applicable ⁸	263.1	256.7	6.4	6.4	V	V	V	.9
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	.3	.3	V	V	V	V	V	23.0
Air bag(s) (safety device only)	132.3	128.7	3.6	3.5	.1	V	V	4.6
Air compressor (except air brakes)	.6	.4	.2	.1	.2	V	V	11.8
Air-conditioning	157.9	152.8	5.1	4.1	.8	.1	S	3.9
Air springs	1.0	.3	.7	.1	.6	V	S	7.4

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
EQUIPMENT TYPE^{5 9}—Con.								
Antilock brake system	140.2	136.6	3.6	3.0	.5	.1	S	4.4
Collision warning system	.1	.1	V	V	V	V	V	45.5
Computerized drive train control unit	25.8	25.2	S	S	S	S	S	14.1
Crane	.4	.4	S	S	V	V	V	16.7
Electronic vehicle identification device	.1	S	V	V	V	V	V	35.3
Engine retarder/brake	3.0	1.2	1.8	.1	1.4	.2	S	3.5
Front-wheel drive	212.6	206.8	5.8	5.8	V	V	V	2.4
Hoist	1.2	1.1	.1	.1	V	V	V	8.9
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	.1	S	.1	S	.1	V	V	25.4
Internet access	S	V	S	V	S	V	V	S
Lift gate	.9	.9	S	S	V	V	V	11.1
Mounting bar for snowplow	8.3	7.7	S	S	V	V	V	25.4
Navigational system	V	V	V	V	V	V	V	N
Power take-off	3.2	2.5	.7	.2	.5	V	V	4.6
Radial tires	169.4	163.3	6.1	4.3	1.7	.2	S	3.6
Reflective material in addition to those required by law	1.0	.7	.3	.1	.2	S	V	9.0
Road speed governor	1.4	.8	.6	.1	.5	.1	S	7.9
Toolbox	23.2	22.4	.8	.2	.6	S	S	14.0
Trip recorder or on-board computer with communication capabilities	6.5	6.4	.1	S	V	S	V	28.9
Trip recorder or on-board computer without communication capabilities	39.6	38.8	S	S	.1	.1	S	11.0
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	3.6	3.5	.1	S	V	V	V	35.9
Transmission type:								
Automatic	189.2	184.4	4.8	4.7	.1	V	V	3.0
Manual	65.9	61.6	4.3	2.0	2.0	.2	S	7.7
Semiautomated manual	S	S	S	V	S	V	V	S
Automated manual	S	V	S	V	V	V	V	S
Not reported	18.4	18.2	.2	S	.2	S	V	16.6
Braking system:								
Hydraulic (standard)	3.4	3.4	.1	.1	V	V	V	5.1
Hydraulic with power assist	2.5	2.4	.1	.1	.1	V	V	6.3
Air	5.9	3.3	2.5	.2	2.1	.2	S	2.3
Other	V	V	V	V	V	V	V	N
Not reported	.7	.5	.2	V	.2	S	V	12.5
Not applicable ¹⁰	261.7	255.3	6.3	6.3	.7	V	V	.9
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	237.6	232.3	5.3	5.3	S	V	V	1.8
Diesel	27.1	23.1	4.0	S	2.3	.2	S	11.6
Natural gas	V	V	V	V	V	V	V	N
Propane	S	S	S	S	V	V	V	S
Alcohol fuels	S	S	V	V	V	V	V	S
Electricity	V	V	V	V	V	V	V	N
Combination	S	S	S	V	S	V	V	S
Other	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	8.9	8.9	V	V	V	V	V	23.7
Cylinders¹¹:								
4 cylinders	33.9	33.9	S	S	V	V	V	12.1
6 cylinders	112.4	109.0	3.4	S	1.8	.2	S	5.2
8 cylinders	120.8	115.4	5.4	5.3	.1	V	V	4.9
Other	7.1	6.7	.4	S	.4	S	V	22.8
Cubic inch displacement¹¹:								
Gasoline fuel								
Less than 200	237.6	232.3	5.3	5.3	S	V	V	1.8
200 to 299	58.7	58.7	V	V	V	V	V	8.7
300 to 349	80.0	78.9	S	S	V	V	V	6.8
350 to 399	45.4	44.3	S	S	V	V	V	10.2
400 or more	40.6	37.7	2.9	2.9	V	V	V	10.8
Not available	9.2	9.1	S	S	V	V	V	23.1
Diesel fuel								
Less than 400	3.7	3.7	S	S	V	V	V	34.6
400 to 599	27.1	23.1	4.0	S	2.3	.2	S	11.6
600 to 799	9.6	8.4	S	S	S	V	V	22.9
800 or more	12.8	12.6	S	S	.1	V	V	18.6
Not available	1.2	.7	.5	S	.4	S	V	6.8
Other fuel	1.9	.5	1.4	.1	1.1	.2	S	4.4
Not reported	1.7	1.0	.7	.1	.6	.1	V	6.0
Other fuel	S	S	S	S	S	V	V	S
Less than 400	S	S	V	V	V	V	V	S
400 or more	S	S	S	S	S	V	V	S
Not available	S	S	V	V	V	V	V	S
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	8.9	8.9	V	V	V	V	V	23.7
REFUELING LOCATION								
Gas station	231.1	223.7	7.4	6.5	.7	.1	V	2.0
Truck stop	3.0	2.3	.6	V	.5	V	S	33.9
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	9.6	8.7	.9	.1	.8	V	V	19.3
Other company's/contractor's facility not open to the public	1.6	S	.2	S	.2	V	V	48.7
Other	S	S	V	V	V	V	V	S
Not reported	19.5	19.3	.2	S	.1	S	V	16.3
Not applicable ²	8.9	8.9	V	V	V	V	V	23.7

See footnotes at end of table.

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

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

Vehicular and operational characteristics	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	10.0	9.4	S	S	S	V	V	23.2
Company-owned maintenance facility	19.0	16.7	2.3	S	1.4	.2	V	14.1
General repair business or private mechanic	107.6	103.4	4.2	3.6	.6	V	S	5.6
Dealership service department	59.5	58.1	S	S	.2	S	V	8.6
Leasing company	V	V	V	V	V	V	V	N
Individual not employed/paid by any maintenance type facility	103.8	99.8	4.0	3.6	.4	S	V	5.8
Other	V	V	V	V	V	V	V	N
Not reported	22.3	22.1	.2	S	.1	S	V	15.2
Not applicable ²	8.9	8.9	V	V	V	V	V	23.7
Extensive repairs performed by:								
None performed	196.0	188.9	7.1	5.5	1.5	.1	S	2.9
Company-owned maintenance facility	2.7	2.4	.3	S	.3	S	V	35.6
General repair business or private mechanic	19.2	17.8	S	S	.2	S	V	16.3
Dealership service department	12.4	12.1	.3	S	.1	.1	V	20.7
Leasing company	V	V	V	V	V	V	V	N
Component distributorship (engine, transmission, body, etc.)	.1	.1	.1	V	V	S	V	31.0
Individual not employed/paid by any repair type facility	15.2	14.5	S	S	.1	V	V	18.6
Other	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	8.9	8.9	V	V	V	V	V	23.7
AXLE ARRANGEMENT								
Driving axles:								
1	55.6	54.6	S	S	.3	V	V	8.6
2	218.5	210.3	8.2	6.0	2.0	.2	S	2.4
3 or more	V	S	S	V	S	V	V	46.3
Not reported	.1	S	V	S	V	V	V	30.8
Total liftable axles and locations ¹² :								
None	12.3	9.5	2.8	.4	2.2	.2	V	1.2
1	.2	.1	.1	V	.1	V	S	17.3
Forward of the drive axle	.1	V	.1	V	.1	V	S	26.4
Below the chassis	S	S	S	V	S	V	V	S
Beyond the chassis	V	V	V	V	V	V	V	41.3
Not reported	.1	.1	S	V	S	V	V	30.8
2 or more	S	S	V	V	V	V	V	S
Forward of the drive axle	S	S	V	V	V	V	V	S
Below the chassis	V	V	V	V	V	V	V	N
Beyond the chassis	S	S	V	V	V	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not reported	V	S	V	V	V	V	V	34.9
Not applicable ¹⁰	261.7	255.3	6.3	6.3	V	V	V	.9
Total liftable axles and number of braking axles:								
None	12.3	9.5	2.8	.4	2.2	.2	V	1.2
1	.2	.1	.1	V	.1	V	S	17.3
0 braking	S	V	S	V	S	V	V	S
1 braking	.2	.1	.1	V	.1	V	S	18.3
Not reported	S	V	S	V	S	V	V	S
2 or more	S	S	V	V	V	V	V	S
0 braking	V	V	V	V	V	V	V	N
1 braking	V	V	V	V	V	V	V	N
2 or more braking	S	S	V	V	V	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not reported	V	S	V	V	V	V	V	34.9
Not applicable ¹⁰	261.7	255.3	6.3	6.3	V	V	V	.9
CAB TYPE								
Conventional cab	11.2	8.5	2.7	.3	2.1	.2	S	1.5
With sleeper	.9	S	.8	V	.7	.1	V	7.5
Without sleeper	10.2	8.5	1.7	.3	1.3	.1	S	1.7
Not reported	.1	S	.1	V	.1	S	V	25.0
Cab over engine	1.3	1.0	.2	V	.2	S	V	7.7
With sleeper	.1	S	.1	V	.1	S	V	21.5
Without sleeper	1.1	1.0	.1	V	.1	V	V	8.3
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	S	S	V	V	V	V	V	S
Not reported	.1	S	S	V	V	V	V	38.0
Not applicable ¹⁰	261.7	255.3	6.3	6.3	V	V	V	.9

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

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

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

³Truck-tractors not in use.

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

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

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

⁷Distributed miles data are available in Table 8.

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

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

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

¹¹Data were derived from administrative records.

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

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

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

Table 6. Truck Miles by Vehicle Size: 2002

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
Total	2 542.2	2 365.9	59.9	7.6	108.9	X
Coefficient of variation (percent)	3.4	3.7	31.1	15.0	5.0	X
BUSINESS¹						
For-hire transportation or warehousing	99.1	S	8.4	2.6	62.9	21.5
Vehicle leasing or rental	S	S	1.7	S	1.1	S
Agriculture, forestry, fishing, or hunting	S	S	1.0	2	3.6	S
Mining	S	S	S	S	4.0	S
Utilities	4.7	S	S	S	.4	47.6
Construction	115.9	87.1	S	.9	18.0	22.6
Manufacturing	9.3	S	S	S	3.9	35.8
Wholesale trade	S	S	1.1	.6	2.9	S
Retail trade	53.8	S	S	1.0	6.3	38.0
Information services	S	S	V	S	V	S
Waste management, landscaping, or administrative/support services	S	S	S	S	1.6	S
Arts, entertainment, or recreation services	S	S	S	S	V	S
Accommodation or food services	S	S	S	V	S	S
Other services	42.0	39.6	.8	S	1.2	40.0
Personal transportation	2 026.0	2 006.6	S	S	S	4.3
Not reported	54.4	50.7	.7	S	2.8	35.0
Not applicable ²	S	S	.4	S	S	S
BODY TYPE						
Single-unit trucks	2 460.9	2 365.9	59.9	7.4	27.8	3.5
Pickup	1 267.1	1 242.7	V	V	V	5.1
Minivan	227.7	227.7	V	V	V	16.5
Other light vans	66.0	54.5	S	V	V	29.6
Sport utility	827.7	827.7	V	V	V	7.5
Armored	S	V	S	V	V	S
Beverage	S	V	V	S	S	S
Concrete mixer	2.4	V	V	S	2.4	31.6
Concrete pumper	S	V	S	V	S	S
Crane .....	.1	S	V	S	S	49.1
Curtainside	S	V	V	V	S	S
Dump	12.4	S	.6	.6	11.1	11.0
Flatbed, stake, or platform	14.3	6.1	3.3	1.9	3.0	10.8
Low boy	V	V	V	V	V	N
Pole, logging, pulpwood, or pipe	S	S	V	V	S	S
Service, utility	2.1	S	1.0	S	S	28.5
Service, other	3.6	1.4	1.5	.4	S	21.3
Street sweeper	S	V	S	V	V	S
Tank, dry bulk	V	V	V	V	V	N
Tank, liquids or gases	6.5	S	S	S	5.5	16.6
Tow/Wrecker	2.3	S	1.6	S	S	31.4
Trash, garbage, or recycling	1.6	V	S	S	1.5	23.1
Vacuum .....	.5	V	S	V	.3	47.0
Van, basic enclosed	14.3	1.2	8.5	2.2	2.3	13.6
Van, insulated nonrefrigerated .....	.8	S	S	S	S	38.7
Van, insulated refrigerated .....	.4	S	S	S	S	39.9
Van, open top	S	S	V	V	S	S
Van, step, walk-in, or multistop	8.0	2.7	5.2	V	S	18.4
Van, other	1.4	V	.7	S	V	33.3
Other	V	V	V	V	V	N
Truck-tractors	81.3	V	V	S	81.1	6.5
Automobile carrier	S	V	V	V	S	S
Beverage	S	V	V	V	S	S
Curtainside .....	.4	V	V	V	.4	42.3
Dump	7.0	V	V	V	7.0	17.8
Flatbed, stake, or platform	12.9	V	V	V	12.9	17.5
Livestock	V	V	V	V	V	N
Low boy	2.1	V	V	V	2.1	32.5
Mobile home toter	S	V	V	V	S	S
Open top	S	V	V	V	S	S
Pole, logging, pulpwood, or pipe	2.0	V	V	V	2.0	43.4
Tank, dry bulk	S	V	V	V	S	S
Tank, liquids or gases	7.5	V	V	V	7.5	24.5
Van, basic enclosed	19.0	V	V	S	18.9	16.0
Van, drop-frame	S	V	V	V	S	S
Van, insulated nonrefrigerated	14.0	V	V	V	14.0	18.5
Van, insulated refrigerated	13.5	V	V	V	13.5	21.3
Other	S	V	V	V	S	S
Not applicable ³	V	V	V	V	V	N
ANNUAL MILES						
Less than 5,000	131.7	123.5	3.0	1.1	4.1	10.4
5,000 to 9,999	596.9	584.8	4.1	1.5	6.5	6.9
10,000 to 19,999	1 217.2	1 182.2	19.9	2.5	12.5	6.1
20,000 to 29,999	347.4	309.6	S	1.2	10.2	18.3
30,000 to 49,999	106.4	90.4	4.4	S	10.9	37.9
50,000 to 74,999	S	S	S	S	23.6	S
75,000 or more	41.1	V	V	V	41.1	12.3
Not applicable ²	S	S	.4	S	S	S
PRIMARY RANGE OF OPERATION						
Off-the-road	S	S	S	S	1.9	S
50 miles or less	1 772.7	1 686.1	40.7	5.5	40.4	4.9
51 to 100 miles	190.9	180.4	2.8	S	6.9	25.8
101 to 200 miles	35.6	25.7	S	S	9.1	31.0
201 to 500 miles	78.3	60.5	S	S	16.6	31.3
501 miles or more	140.7	103.0	S	S	25.5	24.0
Not reported	306.5	295.8	1.8	S	8.4	12.2
Not applicable ²	S	S	.4	S	S	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Vehicle size				Coefficient of variation of total (percent)	
	Total	Light	Medium	Light-heavy		Heavy-heavy
PRIMARY JURISDICTION						
Operated in Canada	12.4	S	S	S	7.3	37.9
Operated in Mexico	S	V	V	S	V	S
Operated within the home base state	2 202.5	2 052.6	57.5	6.4	86.0	4.1
Operated in states other than the home base state	69.9	60.1	S	V	9.6	37.5
Not reported	250.5	242.8	1.2	S	5.9	14.3
Not applicable ²	S	S	.4	S	S	S
MONTHS OPERATED						
12	1 764.3	1 658.3	36.2	4.3	65.5	4.9
7 to 11	518.0	468.5	S	S	27.5	12.2
2 to 6	229.7	210.3	2.4	1.8	15.3	16.3
1 or less	23.4	22.6	S	.1	.5	37.1
Vehicle not used	S	S	.4	S	S	S
AVERAGE WEIGHT (POUNDS)						
Less than 6,001	1 760.0	1 760.0	N	N	N	4.5
6,001 to 8,500	529.4	529.4	N	N	N	13.4
8,501 to 10,000	76.5	76.5	N	N	N	31.0
10,001 to 14,000	40.5	N	40.5	N	N	42.4
14,001 to 16,000	S	N	S	N	N	S
16,001 to 19,500	6.9	N	6.9	N	N	22.5
19,501 to 26,000	7.6	N	N	7.6	N	15.0
26,001 to 33,000	5.2	N	N	N	5.2	18.7
33,001 to 40,000	4.7	N	N	N	4.7	15.6
40,001 to 50,000	11.8	N	N	N	11.8	10.7
50,001 to 60,000	17.0	N	N	N	17.0	13.8
60,001 to 80,000	25.1	N	N	N	25.1	13.0
80,001 to 100,000	33.9	N	N	N	33.9	11.5
100,001 to 130,000	7.9	N	N	N	7.9	24.9
130,001 or more	3.2	N	N	N	3.2	38.0
TOTAL LENGTH (FEET)						
Less than 20.0	2 005.4	1 996.0	8.4	5	6	4.5
20.0 to 27.9	289.2	255.5	S	4.0	9.2	14.6
28.0 to 35.9	107.6	83.0	S	2.3	11.1	21.8
36.0 to 40.9	47.0	31.4	S	S	2.9	38.7
41.0 to 44.9 .....	.9	V	S	S	.7	34.6
45.0 to 49.9	S	V	S	S	2.7	S
50.0 to 54.9	4.6	V	V	V	4.5	15.5
55.0 to 59.9	12.0	V	V	V	12.0	15.6
60.0 to 64.9	9.2	V	V	V	9.2	18.0
65.0 to 69.9	12.8	V	V	V	12.8	17.3
70.0 to 74.9	19.1	V	V	V	19.1	17.4
75.0 to 79.9	4.9	V	V	V	4.9	41.1
80.0 or more	19.2	V	V	V	19.2	16.4
MILES PER GALLON						
Less than 5	30.6	S	S	2	29.9	10.7
5 to 6.9	51.9	4	3.1	8	47.7	8.7
7 to 8.9	48.3	32.8	4.3	2.3	8.8	27.3
9 to 10.9	169.0	159.2	6.4	1.2	2.2	16.9
11 to 12.9	354.9	350.4	3.1	6	9	14.5
13 to 14.9	282.3	254.7	S	S	6	16.2
15 or more	1 187.7	1 157.1	S	S	6	7.6
15 to 20.9	1 030.2	999.6	S	S	S	8.5
21 to 24.9	115.3	115.3	V	V	V	22.8
25 or more	42.1	42.1	V	V	V	45.2
Not reported	430.8	404.9	4.3	2.3	19.2	10.8
Not applicable ²	S	S	.4	S	S	S
MODEL YEAR						
2003	S	V	V	V	S	S
2002	215.1	194.8	S	S	8.7	21.0
2001	258.7	250.4	1.4	S	6.9	15.8
2000	186.5	173.8	2.2	S	10.5	19.8
1999	284.7	250.8	S	S	18.3	16.1
1998	141.8	135.1	S	S	5.0	22.9
1997	174.0	148.9	S	S	10.7	17.9
1996	128.5	120.0	1.9	S	6.3	22.6
1995	213.6	205.0	1.8	.7	6.1	22.5
1994	120.3	114.5	1.0	V	4.8	22.0
1993	162.7	158.4	.9	S	2.9	20.4
Pre-1993	654.9	614.3	8.5	4.5	27.6	9.5
VEHICLE ACQUISITION						
New	1 088.9	982.7	42.2	2.5	61.5	7.1
Used	1 256.8	1 193.9	16.2	5.0	41.7	6.8
Not reported	196.5	189.3	S	S	5.7	15.1
LEASE CHARACTERISTICS						
Leased	97.2	80.2	1.1	S	15.5	28.3
Lessee	74.9	69.1	S	S	9.2	34.5
Vehicle only	8.9	S	S	S	7.6	23.5
Vehicle with driver	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Not applicable ⁴	64.6	64.6	V	V	V	39.8
Lessor	S	S	S	S	S	S
Vehicle only	4.3	S	S	S	5.2	S
Vehicle with driver	1.8	V	V	V	3.8	27.9
Not reported	V	V	V	V	1.4	41.6
Not applicable ⁴	S	S	V	V	V	N
Not reported	S	S	S	V	S	S
Not leased	1 463.3	1 340.2	50.7	5.3	67.1	6.2
Not reported	981.7	945.5	8.0	1.9	26.3	6.9

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	97.2	80.2	1.1	S	15.5	28.3
1 to 11 months	1.7	V	V	V	1.7	37.6
12 months or more	14.2	S	1.0	S	12.2	18.0
Not reported	S	V	S	V	S	S
Not applicable ⁴	79.6	79.6	V	V	V	34.4
Provisions of lease ⁵ :						
Financing only	7.4	S	.8	S	6.0	21.6
Full maintenance	2.3	V	S	V	1.9	35.4
Payment of taxes	3.5	V	S	S	2.7	34.5
Obtaining licenses and permits	4.4	V	S	S	4.1	38.1
Recordkeeping	1.5	V	V	V	1.5	48.5
Fuel contract	1.6	V	V	S	S	46.6
PRIMARY OPERATOR CLASSIFICATION						
Private	372.0	309.5	29.6	3.7	29.1	13.3
Motor carrier	81.8	S	7.5	1.9	56.1	18.7
Owner operator	32.1	S	S	1.4	22.4	23.4
Rental	S	S	1.7	S	1.2	S
Personal transportation	2 026.0	2 006.6	S	S	6.6	4.3
Not applicable ²	S	S	.4	S	S	S
For-hire characteristics:						
Type of carrier:						
Contract	39.1	S	3.4	S	34.8	10.1
Common	46.5	1.4	4.5	2.4	38.3	9.8
Not reported	7.1	S	1.2	S	5.4	17.5
Not applicable ⁶	2 449.5	2 364.1	50.8	4.2	30.4	3.5
Type of service:						
Truckload	53.3	S	2.2	1.4	49.5	8.8
Less-than truckload	31.9	1.0	5.3	1.6	24.0	11.5
Not reported	7.4	S	1.5	S	5.0	17.5
Not applicable ⁶	2 449.5	2 364.1	50.8	4.2	30.4	3.5
Source of hauls:						
Shippers or receivers	70.4	1.3	7.2	2.6	59.3	7.5
Brokers	4.6	V	S	S	4.5	32.1
Centralized markets or exchanges	S	V	V	V	S	S
Other	V	V	V	V	V	N
Not reported	15.9	S	1.7	.7	12.9	13.8
Not applicable ⁶	2 449.5	2 364.1	50.8	4.2	30.4	3.5
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	37.9	.4	1.2	1.3	34.9	10.0
Not carrying hazardous materials	101.0	10.0	18.7	4.8	67.6	5.2
Not reported	9.9	2.4	1.4	1.0	5.1	14.4
Not applicable ⁸	2 393.4	2 353.1	38.5	S	1.3	3.6
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	1.2	S	S	S	S	34.5
Air bag(s) (safety device only)	1 454.2	1 417.3	S	S	7.8	6.1
Air compressor (except air brakes)	9.7	S	1.1	S	8.1	16.8
Air-conditioning	1 673.6	1 575.1	41.3	1.1	56.1	5.0
Air springs	36.1	S	S	S	34.8	10.6
Antilock brake system	1 553.5	1 482.9	S	1.9	41.8	5.8
Collision warning system	S	V	S	S	S	S
Computerized drive train control unit	292.9	289.7	S	V	2.3	16.8
Crane	2.1	V	1.0	S	.9	26.8
Electronic vehicle identification device	4.7	V	S	V	4.6	38.5
Engine retarder/brake	80.3	S	1.1	S	78.8	6.4
Front-wheel drive	2 011.6	1 987.2	S	V	V	4.5
Hoist	9.4	.6	1.4	.7	6.7	13.0
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	4.6	V	V	V	4.6	37.2
Internet access	S	V	V	V	S	S
Lift gate	9.9	.8	4.6	2.0	2.5	15.1
Mounting bar for snowplow	51.5	51.2	S	V	S	37.0
Navigational system	V	V	V	V	V	N
Power take-off	35.0	.5	2.0	1.6	30.9	8.0
Radial tires	1 649.6	1 526.5	38.9	4.6	79.7	5.3
Reflective material in addition to those required by law	20.5	S	3.3	S	16.0	14.9
Road speed governor	37.1	V	5.8	.8	30.5	10.9
Toolbox	216.2	177.6	6.0	2.3	30.3	17.2
Trip recorder or on-board computer with communication capabilities	72.6	63.9	S	S	7.1	29.1
Trip recorder or on-board computer without communication capabilities	484.5	464.0	S	V	20.4	12.7
Vehicle control aids for handicapped drivers	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	S
Winch	25.5	S	2.1	S	1.6	40.8
Transmission type:						
Automatic	1 752.3	1 695.3	49.3	2.0	5.6	4.9
Manual	632.8	523.5	9.4	5.2	94.7	10.5
Semiautomated manual	S	S	V	S	S	S
Automated manual	S	V	V	V	S	S
Not reported	152.8	145.1	1.1	S	6.3	17.2
Braking system:						
Hydraulic (standard)	23.2	8.6	10.6	1.8	2.3	9.5
Hydraulic with power assist	17.3	3.9	8.3	2.5	2.5	11.7
Air	105.5	S	2.9	3.0	99.5	5.1
Other	V	V	V	V	V	N
Not reported	7.7	.7	2.2	S	4.6	20.9
Not applicable ¹⁰	2 388.5	2 352.6	S	V	V	3.6

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	
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	2 186.8	2 156.0	27.7	1.5	1.5	3.9
Diesel	330.4	186.0	31.6	5.9	106.9	12.6
Natural gas	V	V	V	V	V	N
Propane	S	V	S	V	S	S
Alcohol fuels	S	S	V	V	V	S
Electricity	V	V	V	V	V	N
Combination	S	V	S	V	S	S
Other	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ²	S	S	.4	S	S	S
Cylinders ¹¹ :						
4 cylinders	302.9	301.6	1.1	S	V	14.3
6 cylinders	1 112.7	998.3	13.2	3.6	97.6	6.9
8 cylinders	1 088.1	1 038.8	44.0	2.7	2.6	7.3
Other	38.5	27.2	1.5	1.1	8.8	30.9
Cubic inch displacement ¹¹ :						
Gasoline fuel	2 186.8	2 156.0	27.7	1.5	1.5	3.9
Less than 200	548.2	548.2	V	V	V	11.7
200 to 299	776.2	775.4	S	V	V	8.2
300 to 349	433.7	422.3	S	S	V	13.8
350 to 399	339.3	326.5	S	8	.7	13.5
400 or more	70.1	65.5	3.7	S	.5	30.6
Not available	19.3	18.1	.6	3	S	46.6
Diesel fuel	330.4	186.0	31.6	5.9	106.9	12.6
Less than 400	77.9	65.7	S	1.0	.4	30.6
400 to 599	150.4	119.8	S	3.4	6.5	23.0
600 to 799	23.0	S	V	S	22.5	12.8
800 or more	54.6	V	S	S	54.2	7.7
Not available	24.4	S	.1	9	23.4	12.9
Other fuel	S	S	S	V	S	S
Less than 400	S	S	S	V	V	S
400 or more	S	V	S	V	S	S
Not available	S	V	V	V	S	S
Not reported	S	V	V	V	S	S
Not applicable ²	S	S	.4	S	S	S
REFUELING LOCATION						
Gas station	2 207.7	2 116.4	51.7	4.5	35.0	4.1
Truck stop	59.6	S	1.7	9	29.8	29.7
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	89.9	52.2	4.1	1.3	32.3	21.5
Other company's/contractor's facility not open to the public	16.5	S	S	S	7.5	38.3
Other	S	S	V	V	S	S
Not reported	154.7	149.1	1.0	S	4.8	17.3
Not applicable ²	S	S	.4	S	S	S
MAINTENANCE⁵						
General maintenance performed by:						
None performed	41.4	40.8	S	S	S	35.4
Company-owned maintenance facility	211.1	134.8	10.8	2.9	62.5	15.7
General repair business or private mechanic	1 009.0	1 009.0	16.1	2.3	32.1	6.8
Dealership service department	599.9	560.3	S	V	17.4	9.7
Leasing company	V	V	V	V	V	N
Individual not employed/paid by any maintenance type facility	1 041.7	993.2	S	2.3	18.2	8.3
Other	V	V	V	V	V	N
Not reported	182.2	175.6	1.0	S	5.2	16.0
Not applicable ²	S	S	.4	S	S	S
Extensive repairs performed by:						
None performed	1 799.4	1 689.9	42.4	6.2	60.9	4.5
Company-owned maintenance facility	33.1	S	1.3	S	12.4	32.3
General repair business or private mechanic	173.9	158.6	2.5	S	12.5	18.6
Dealership service department	170.6	150.1	S	S	20.1	20.4
Leasing company	V	V	V	V	V	N
Component distributorship (engine, transmission, body, etc.)	2.8	S	S	V	2.5	38.3
Individual not employed/paid by any repair type facility	206.3	191.4	S	V	3.3	29.1
Other	V	V	V	V	V	N
Not reported	S	S	S	V	S	S
Not applicable ²	S	S	.4	S	S	S
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	2 411.1	2 333.5	46.8	7.1	23.6	3.6
2 axles	2 392.2	2 333.3	46.8	6.4	5.7	3.7
3 axles	16.9	S	S	.7	16.0	8.6
4 axles	1.8	V	V	V	1.8	40.9
5 axles or more	S	V	V	V	S	S
Not reported	S	V	V	V	S	S
Combinations	131.1	32.4	S	S	85.3	12.1
Single-unit trucks with trailer	49.9	32.4	S	S	4.1	30.0
3 axles	24.3	24.2	S	V	V	43.1
4 axles	21.5	S	S	S	S	49.7
5 axles or more	3.4	V	S	S	3.3	25.8
Not reported	S	V	S	V	S	S
Truck-tractors with single trailer	61.9	V	V	S	61.8	7.6
3 axles	S	V	V	S	S	S
4 axles	1.0	V	V	V	1.0	34.6
5 axles or more	57.7	V	V	V	57.7	8.1
Not reported	2.7	V	V	V	2.7	27.8
Truck-tractors with double trailers	18.9	V	V	V	18.9	16.6
5 axles	V	V	V	V	V	N
6 axles	S	V	V	V	S	S
7 axles	2.7	V	V	V	2.7	45.2
8 axles or more	15.5	V	V	V	15.5	18.5
Not reported	S	V	V	V	S	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
TRUCK TYPE AND AXLE ARRANGEMENT—Con.						
Combinations—Con.						
Truck-tractors with triple trailers	S	V	V	V	S	S
7 axles	V	V	V	V	V	N
8 axles	V	V	V	V	V	N
9 axles	V	V	V	V	V	N
10 axles or more	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Driving axles:						
1	420.1	374.6	32.4	6.1	7.0	12.0
2	2 121.7	1 991.3	S	1.5	101.5	4.2
3 or more	S	V	V	V	S	S
Not reported .....	.2	V	V	V	.2	35.4
Total liftable axles and locations ¹² :						
None	149.2	13.3	24.0	7.6	104.4	4.0
1	4.3	V	V	V	4.3	28.8
Forward of the drive axle	2.3	V	V	V	2.3	42.0
Below the chassis	S	V	V	V	S	S
Beyond the chassis .....	.2	V	V	V	.2	45.8
Not reported	1.2	V	V	V	1.2	49.7
2 or more	S	V	V	V	S	S
Forward of the drive axle	S	V	V	V	S	S
Below the chassis	V	V	V	V	V	N
Beyond the chassis	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Not reported .....	.2	V	V	V	.2	40.8
Not applicable ¹⁰	2 388.5	2 352.6	S	V	V	3.6
Total liftable axles and number of braking axles:						
None	149.2	13.3	24.0	7.6	104.4	4.0
1	4.3	V	V	V	4.3	28.8
0 braking	S	V	V	V	S	S
1 braking	4.1	V	V	V	4.1	29.8
Not reported	S	V	V	V	S	S
2 or more	S	V	V	V	S	S
0 braking	V	V	V	V	V	N
1 braking	V	V	V	V	V	N
2 or more braking	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Not reported .....	.2	V	V	V	.2	40.8
Not applicable ¹⁰	2 388.5	2 352.6	S	V	V	3.6
CAB TYPE						
Conventional cab	138.8	12.1	19.1	6.5	101.2	4.2
With sleeper	47.1	V	V	V	47.1	10.1
Without sleeper	88.4	12.1	19.1	6.5	50.7	4.5
Not reported	3.4	V	V	V	3.4	41.7
Cab over engine	14.5	1.2	4.8	1.0	7.5	13.5
With sleeper	3.7	V	V	V	3.7	37.0
Without sleeper	10.3	1.2	4.8	1.0	3.3	13.3
Not reported	S	V	V	V	S	S
Cab forward of engine	S	V	V	S	S	S
Cab beside engine	S	V	V	V	S	S
Not reported .....	.2	V	S	S	.1	41.4
Not applicable ¹⁰	2 388.5	2 352.6	S	V	V	3.6

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

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

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	2 542.2	2 411.1	131.1	49.9	61.9	18.9	S	X
Coefficient of variation (percent)	3.4	3.6	12.1	30.0	7.6	16.6	S	X
BUSINESS¹								
For-hire transportation or warehousing	99.1	S	62.1	S	43.1	17.5	S	21.5
Vehicle leasing or rental	S	S	S	V	S	V	V	S
Agriculture, forestry, fishing, or hunting	S	S	3.0	S	2.8	V	V	S
Mining	S	S	3.2	S	2.4	S	V	S
Utilities	4.7	4.6	S	S	S	V	V	47.6
Construction	115.9	100.6	15.3	S	7.2	S	V	22.6
Manufacturing	9.3	7.4	1.9	S	1.0	V	V	35.8
Wholesale trade	S	S	S	S	S	V	V	S
Retail trade	53.8	51.4	2.4	S	2.4	V	V	38.0
Information services	S	S	V	V	V	V	V	S
Waste management, landscaping, or administrative/support services	S	S	S	S	V	V	V	S
Arts, entertainment, or recreation services	S	S	S	S	V	V	V	S
Accommodation or food services	S	S	S	V	S	V	V	S
Other services	42.0	42.0	S	V	S	V	V	40.0
Personal transportation	2 026.0	1 989.5	36.5	36.5	S	V	V	4.3
Not reported	54.4	52.1	2.3	V	1.8	S	V	35.0
Not applicable ²	S	S	V	V	V	V	V	S
BODY TYPE								
Single-unit trucks	2 460.9	2 411.1	49.9	49.9	N	N	N	3.5
Pickup	1 267.1	1 232.2	34.9	34.9	N	N	N	5.1
Minivan	227.7	221.6	S	S	N	N	N	16.5
Other light vans	66.0	62.1	S	S	N	N	N	29.6
Sport utility	827.7	827.7	V	V	N	N	N	7.5
Armored	S	S	V	V	N	N	N	S
Beverage	S	S	V	V	N	N	N	S
Concrete mixer	2.4	2.4	V	V	N	N	N	31.6
Concrete pumper	S	S	V	V	N	N	N	S
Crane .....	.1	.1	V	V	N	N	N	49.1
Curtainside	S	S	V	V	N	N	N	S
Dump	12.4	9.8	2.7	2.7	N	N	N	11.0
Flatbed, stake, or platform	14.3	13.8	.5	.5	N	N	N	10.8
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	2.1	1.8	S	S	N	N	N	28.5
Service, other	3.6	3.6	V	V	N	N	N	21.3
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk	V	V	V	V	N	N	N	N
Tank, liquids or gases	6.5	5.5	S	S	N	N	N	16.6
Tow/Wrecker	2.3	2.3	V	V	N	N	N	31.4
Trash, garbage, or recycling	1.6	1.6	V	V	N	N	N	23.1
Vacuum .....	.5	.5	V	V	N	N	N	47.0
Van, basic enclosed	14.3	13.9	S	S	N	N	N	13.6
Van, insulated nonrefrigerated .....	.8	.8	S	S	N	N	N	38.7
Van, insulated refrigerated .....	.4	.4	V	V	N	N	N	39.9
Van, open top	S	S	V	V	N	N	N	S
Van, step, walk-in, or multistop	8.0	8.0	V	V	N	N	N	18.4
Van, other	1.4	1.4	V	V	N	N	N	33.3
Other	V	V	V	V	N	N	N	N
Truck-tractors	81.3	V	81.3	N	61.9	18.9	S	6.5
Automobile carrier	S	N	S	N	S	V	V	S
Beverage	S	N	S	N	S	V	V	S
Curtainside .....	.4	N	.4	N	.4	V	V	42.3
Dump	7.0	N	7.0	N	6.3	S	V	17.8
Flatbed, stake, or platform	12.9	N	12.9	N	10.9	S	V	17.5
Livestock	V	N	V	N	V	V	V	N
Low boy	2.1	N	2.1	N	1.7	V	V	32.5
Mobile home toter	S	N	S	N	S	V	V	S
Open top	S	N	S	N	S	V	V	S
Pole, logging, pulpwood, or pipe	2.0	N	2.0	N	2.0	V	V	43.4
Tank, dry bulk	S	N	S	N	S	V	V	S
Tank, liquids or gases	7.5	N	7.5	N	5.5	1.9	V	24.5
Van, basic enclosed	19.0	N	19.0	N	17.5	S	V	16.0
Van, drop-frame	S	N	S	N	S	V	V	S
Van, insulated nonrefrigerated	14.0	N	14.0	N	3.3	10.6	V	18.5
Van, insulated refrigerated	13.5	N	13.5	N	11.4	S	V	21.3
Other	S	N	S	N	S	V	V	S
Not applicable ³	V	V	V	N	V	V	V	N
ANNUAL MILES								
Less than 5,000	131.7	128.0	3.7	S	1.6	S	V	10.4
5,000 to 9,999	596.9	575.5	21.4	19.1	2.4	V	V	6.9
10,000 to 19,999	1 217.2	1 186.5	30.7	25.4	5.2	S	V	6.1
20,000 to 29,999	347.4	339.4	8.0	.9	7.0	S	V	18.3
30,000 to 49,999	106.4	100.2	6.2	S	5.7	S	V	37.9
50,000 to 74,999	S	S	20.1	2.1	12.1	5.4	S	S
75,000 or more	41.1	V	41.1	V	28.1	13.0	V	12.3
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	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination			Truck-tractor with triple trailers		
			Total	Single-unit truck with trailer	Truck-tractor with single trailer			Truck-tractor with double trailers
PRIMARY RANGE OF OPERATION								
Off-the-road	S	S	S	V	S	V	V	S
50 miles or less	1 772.7	1 726.2	46.5	27.2	16.9	2.4	V	4.9
51 to 100 miles	190.9	175.1	15.7	S	5.4	V	V	25.8
101 to 200 miles	35.6	23.8	11.8	S	6.4	V	V	31.0
201 to 500 miles	78.3	62.5	15.8	V	5.5	10.2	V	31.3
501 miles or more	140.7	113.5	27.2	S	20.8	3.7	S	24.0
Not reported	306.5	293.7	12.8	S	5.7	S	V	12.2
Not applicable ²	S	S	V	V	V	V	V	S
PRIMARY JURISDICTION								
Operated in Canada	12.4	S	7.2	V	7.2	V	V	37.9
Operated in Mexico	S	V	S	S	V	V	V	S
Operated within the home base state	2 202.5	2 092.8	109.7	49.6	42.5	17.6	V	4.1
Operated in states other than the home base state	69.9	60.4	9.5	V	8.7	S	V	37.5
Not reported	250.5	245.9	4.5	S	3.5	S	S	14.3
Not applicable ²	S	S	V	V	V	V	V	S
MONTHS OPERATED								
12	1 764.3	1 681.8	82.5	29.9	39.1	13.1	S	4.9
7 to 11	518.0	488.8	29.2	S	15.0	4.4	V	12.2
2 to 6	229.7	210.8	19.0	S	7.6	S	V	16.3
1 or less	23.4	23.0	.4	S	.3	S	V	37.1
Vehicle not used	S	S	V	V	V	V	V	S
VEHICLE SIZE								
Light	2 365.9	2 333.5	32.4	32.4	V	V	V	3.7
Medium	59.9	46.8	S	S	V	V	V	31.1
Light-heavy	7.6	7.1	S	S	S	V	V	15.0
Heavy-heavy	108.9	23.6	85.3	4.1	61.8	18.9	S	5.0
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	1 760.0	1 745.4	S	S	V	V	V	4.5
6,001 to 8,500	529.4	511.8	17.6	17.6	V	V	V	13.4
8,501 to 10,000	76.5	76.4	S	S	V	V	V	31.0
10,001 to 14,000	40.5	34.7	S	S	V	V	V	42.4
14,001 to 16,000	S	5.3	S	S	V	V	V	S
16,001 to 19,500	6.9	6.8	S	S	V	V	V	22.5
19,501 to 26,000	7.6	7.1	S	S	S	V	V	15.0
26,001 to 33,000	5.2	4.4	.8	S	.8	V	V	18.7
33,001 to 40,000	4.7	3.0	1.8	S	1.6	V	V	15.6
40,001 to 50,000	11.8	7.6	4.2	S	3.3	S	V	10.7
50,001 to 60,000	17.0	7.4	9.6	S	8.9	V	V	13.8
60,001 to 80,000	25.1	.9	24.1	S	22.9	S	V	13.0
80,001 to 100,000	33.9	V	33.9	1.4	19.0	13.6	V	11.5
100,001 to 130,000	7.9	S	7.7	S	5.3	S	V	24.9
130,001 or more	3.2	V	3.2	V	S	2.6	S	38.0
TOTAL LENGTH (FEET)								
Less than 20.0	2 005.4	2 005.4	V	V	V	V	V	4.5
20.0 to 27.9		277.0	S	S	V	V	V	14.6
28.0 to 35.9	107.6	84.5	23.1	22.8	S	V	V	21.8
36.0 to 40.9	47.0	41.7	S	S	1.8	V	V	38.7
41.0 to 44.9	.9	.3	S	S	S	V	V	34.6
45.0 to 49.9	S	1.7	S	S	.7	V	V	S
50.0 to 54.9	4.6	.4	4.1	.3	3.7	S	V	15.5
55.0 to 59.9	12.0	V	12.0	S	11.7	V	V	15.6
60.0 to 64.9	9.2	V	9.2	S	8.3	V	V	18.0
65.0 to 69.9	12.8	V	12.8	1.0	11.9	V	V	17.3
70.0 to 74.9	19.1	V	19.1	S	18.1	V	V	17.4
75.0 to 79.9	4.9	V	4.9	S	4.9	V	V	41.1
80.0 or more	19.2	V	19.2	V	V	18.7	S	16.4
MILES PER GALLON								
Less than 5	30.6	5.1	25.5	S	17.9	6.3	S	10.7
5 to 6.9	51.9	13.1	38.8	2.6	29.5	6.8	V	8.7
7 to 8.9	48.3	43.2	5.1	S	3.8	S	V	27.3
9 to 10.9	169.0	165.2	S	S	.7	S	V	16.9
11 to 12.9	354.9	344.7	S	S	S	V	V	14.5
13 to 14.9	262.3	247.3	S	S	S	V	V	16.2
15 or more	1 187.7	1 170.2	S	S	S	V	V	7.6
15 to 20.9	1 030.2	1 012.8	S	S	V	V	V	8.5
21 to 24.9		115.3	V	V	V	V	V	22.8
25 or more	42.1	42.1	V	V	V	V	V	45.2
Not reported	430.8	415.5	15.3	S	9.9	4.9	V	10.8
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
MODEL YEAR								
2003	S	V	S	S	S	S	V	S
2002	215.1	206.8	8.3	S	6.8	S	V	21.0
2001	258.7	253.1	5.6	S	4.2	S	S	15.8
2000	186.5	172.7	13.9	S	8.2	S	V	19.8
1999	284.7	261.6	23.1	S	7.7	8.6	V	16.1
1998	141.8	137.4	4.5	S	3.0	S	V	22.9
1997	174.0	148.1	25.9	S	7.6	S	V	17.9
1996	128.5	124.2	4.3	V	3.0	S	V	22.6
1995	213.6	205.3	8.3	S	4.7	V	V	22.5
1994	120.3	117.2	3.2	S	2.2	S	V	22.0
1993	162.7	160.7	2.0	S	1.2	S	V	20.4
Pre-1993	654.9	624.0	30.9	16.4	12.6	1.8	V	9.5
VEHICLE ACQUISITION								
New	1 088.9	1 011.5	77.4	28.4	33.8	14.7	S	7.1
Used	1 256.8	1 207.2	49.6	21.3	24.6	3.6	V	6.8
Not reported	196.5	192.3	4.2	S	3.5	S	V	15.1
LEASE CHARACTERISTICS								
Leased	97.2	83.6	13.7	S	10.9	S	S	28.3
Lessee	74.9	66.4	8.5	S	6.6	S	S	34.5
Vehicle only	8.9	1.8	7.1	S	5.3	S	S	23.5
Vehicle with driver	S	V	S	V	S	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	64.6	64.6	V	V	V	V	V	39.8
Lessor	S	S	4.1	S	3.2	S	V	S
Vehicle only	4.3	1.5	2.8	S	2.6	S	V	27.9
Vehicle with driver	1.8	S	S	S	S	S	V	41.6
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	S	S	V	V	V	V	V	S
Not reported	S	S	S	V	S	V	V	S
Not leased	1 463.3	1 366.7	96.6	47.1	34.8	14.6	V	6.2
Not reported	981.7	960.8	20.9	1.9	16.3	2.7	V	6.9
Length of leasing agreement:								
Leased	97.2	83.6	13.7	S	10.9	S	S	28.3
1 to 11 months	1.7	S	1.5	S	1.3	S	V	37.6
12 months or more	14.2	3.6	10.6	S	8.5	S	S	18.0
Not reported	S	S	S	V	S	S	V	S
Not applicable ⁴	79.6	79.6	V	V	V	V	V	34.4
Provisions of lease ⁵ :								
Financing only	7.4	2.2	5.2	S	4.1	S	S	21.6
Full maintenance	2.3	.6	1.7	S	S	V	V	35.4
Payment of taxes	3.5	.9	2.6	V	2.5	S	V	34.5
Obtaining licenses and permits	4.4	S	3.9	V	3.3	S	V	38.1
Recordkeeping	1.5	S	S	S	S	V	V	48.5
Fuel contract	1.6	S	S	V	S	V	V	46.6
PRIMARY OPERATOR CLASSIFICATION								
Private	372.0	349.6	22.5	S	11.5	V	V	13.3
Motor carrier	81.8	30.6	51.3	S	32.8	16.7	S	18.7
Owner operator	32.1	S	20.5	1.2	17.2	S	V	23.4
Rental	S	S	S	V	S	V	V	S
Personal transportation	2 026.0	1 989.5	36.5	S	S	V	V	4.3
Not applicable ²	S	S	V	V	V	V	V	S
For-hire characteristics:								
Type of carrier:								
Contract	39.1	6.7	32.4	1.3	25.5	5.7	V	10.1
Common	46.5	11.7	34.8	S	21.8	12.3	S	9.8
Not reported	7.1	2.5	4.6	S	2.7	S	V	17.5
Not applicable ⁶	2 449.5	2 390.2	59.3	47.4	11.9	V	V	3.5
Type of service:								
Truckload	53.3	8.9	44.4	1.5	36.7	5.8	S	8.8
Less-than truckload	31.9	9.0	22.9	V	10.7	12.2	V	11.5
Not reported	7.4	2.9	4.5	S	2.7	S	V	17.5
Not applicable ⁶	2 449.5	2 390.2	59.3	47.4	11.9	V	V	3.5
Source of hauls:								
Shippers or receivers	70.4	15.2	55.2	S	37.8	16.2	S	7.5
Brokers	4.6	S	4.3	S	3.9	V	V	32.1
Centralized markets or exchanges	S	S	S	V	S	V	V	S
Other	V	V	V	V	V	V	V	N
Not reported	15.9	5.2	10.6	1.4	7.5	1.7	V	13.8
Not applicable ⁶	2 449.5	2 390.2	59.3	47.4	11.9	V	V	3.5
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	37.9	6.8	31.1	1.4	22.3	7.4	V	10.0
Not carrying hazardous materials	101.0	50.3	50.7	3.1	36.2	11.0	S	5.2
Not reported	9.9	6.3	3.7	S	3.0	S	V	14.4
Not applicable ⁸	2 393.4	2 347.7	45.7	45.3	S	V	V	3.6
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	1.2	1.2	V	V	V	V	V	34.5
Air bag(s) (safety device only)	1 454.2	1 416.4	37.8	31.3	6.5	V	V	6.1
Air compressor (except air brakes)	9.7	4.4	5.3	S	4.6	V	V	16.8
Air-conditioning	1 673.6	1 587.0	86.7	39.0	39.4	7.8	S	5.0
Air springs	36.1	5.3	30.8	2.4	24.7	3.3	S	10.6

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				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
EQUIPMENT TYPE^{5 9}—Con.								
Antilock brake system	1 553.5	1 490.1	63.4	27.2	29.5	6.3	S	5.8
Collision warning system	S	S	V	V	V	V	V	S
Computerized drive train control unit	292.9	284.5	S	S	S	S	S	16.8
Crane	2.1	2.1	S	S	S	V	V	26.8
Electronic vehicle identification device	4.7	S	4.5	V	4.5	V	V	38.5
Engine retarder/brake	80.3	11.5	68.8	3.4	46.6	18.4	S	6.4
Front-wheel drive	2 011.6	1 970.5	41.1	41.1	V	V	V	4.5
Hoist	9.4	7.6	1.8	1.8	V	V	V	13.0
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	4.6	S	4.5	S	4.3	V	V	37.2
Internet access	S	V	S	V	S	V	V	S
Lift gate	9.9	9.1	S	S	V	V	V	15.1
Mounting bar for snowplow	51.5	45.6	S	S	V	V	V	37.0
Navigation system	V	V	V	V	V	V	V	N
Power take-off	35.0	17.4	17.6	2.4	13.3	1.9	V	8.0
Radial tires	1 649.6	1 557.0	92.5	30.3	50.8	10.9	S	5.3
Reflective material in addition to those required by law	20.5	7.0	13.5	2.7	9.9	S	V	14.9
Road speed governor	37.1	8.7	28.4	1.9	22.3	3.7	S	10.9
Toolbox	216.2	190.9	25.4	2.6	20.3	S	S	17.2
Trip recorder or on-board computer with communication capabilities	72.6	65.7	6.9	S	5.0	S	V	29.1
Trip recorder or on-board computer without communication capabilities	484.5	459.0	25.5	S	7.3	10.6	S	12.7
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	25.5	24.9	S	S	S	V	V	40.8
Transmission type:								
Automatic	1 752.3	1 710.7	41.6	40.3	1.3	V	V	4.9
Manual	632.8	550.1	82.7	9.1	54.7	18.4	S	10.5
Semiautomated manual	S	S	S	V	S	V	V	S
Automated manual	S	V	S	V	S	V	V	S
Not reported	152.8	147.7	5.1	S	4.1	S	V	17.2
Braking system:								
Hydraulic (standard)	23.2	22.5	S	.2	S	V	V	9.5
Hydraulic with power assist	17.3	15.5	1.8	.4	1.4	V	V	11.7
Air	105.5	25.8	79.6	4.3	56.5	18.4	S	5.1
Other	V	V	V	V	V	V	V	N
Not reported	7.7	3.7	4.0	V	3.5	S	V	20.9
Not applicable ¹⁰	2 388.5	2 343.5	45.0	45.0	V	V	V	3.6
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	2 186.8	2 150.7	36.1	36.0	S	V	V	3.9
Diesel	330.4	235.4	94.9	13.8	61.8	18.9	S	12.6
Natural gas	V	V	V	V	V	V	V	N
Propane	S	S	S	S	V	V	V	S
Alcohol fuels	S	S	V	V	V	V	V	S
Electricity	V	V	V	V	V	V	V	N
Combination	S	S	S	V	S	V	V	S
Other	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
Cylinders¹¹:								
4 cylinders	302.9	302.9	S	S	V	V	V	14.3
6 cylinders	1 112.7	1 020.5	92.2	S	56.9	18.8	S	6.9
8 cylinders	1 088.1	1 054.3	33.9	33.4	S	V	V	7.3
Other	38.5	33.4	5.1	S	4.6	S	V	30.9
Cubic inch displacement¹¹:								
Gasoline fuel	2 186.8	2 150.7	36.1	36.0	S	V	V	3.9
Less than 200	548.2	548.2	V	V	V	V	V	11.7
200 to 299	776.2	765.4	S	S	V	V	V	8.2
300 to 349	433.7	428.1	S	S	V	V	V	13.8
350 to 399	339.3	320.0	S	S	V	V	V	13.5
400 or more	70.1	69.9	S	S	S	V	V	30.6
Not available	19.3	19.2	S	S	V	V	V	46.6
Diesel fuel	330.4	235.4	94.9	13.8	61.8	18.9	S	12.6
Less than 400	77.9	68.5	S	S	S	V	V	30.6
400 to 599	150.4	148.1	2.3	S	1.9	V	V	23.0
600 to 799	23.0	6.8	16.2	S	13.3	S	V	12.8
800 or more	54.6	7.4	47.2	2.3	30.7	13.7	S	7.7
Not available	24.4	4.5	19.8	.4	15.8	3.6	V	12.9
Other fuel	S	S	S	S	S	V	V	S
Less than 400	S	S	V	V	V	V	V	S
400 or more	S	S	S	S	S	V	V	S
Not available	S	S	V	V	V	V	V	S
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
REFUELING LOCATION								
Gas station	2 207.7	2 134.3	73.4	47.2	14.7	11.5	V	4.1
Truck stop	59.6	S	27.7	1.6	23.3	S	S	29.7
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	89.9	70.3	19.7	S	16.3	2.5	V	21.5
Other company's/contractor's facility not open to the public	16.5	S	6.6	S	4.4	S	V	38.3
Other	S	S	V	V	V	V	V	S
Not reported	154.7	151.0	3.8	S	3.2	S	V	17.3
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				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	41.4	41.3	S	S	S	V	V	35.4
Company-owned maintenance facility	211.1	160.6	50.5	S	30.8	14.7	V	15.7
General repair business or private mechanic	1 059.6	1 002.5	57.0	32.6	22.1	1.8	S	6.8
Dealership service department	599.9	572.4	27.5	S	14.3	S	V	9.7
Leasing company	V	V	V	V	V	V	V	N
Individual not employed/paid by any maintenance type facility								
Other	1 041.7	1 000.8	40.9	27.7	11.1	S	V	8.3
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	182.2	177.3	4.9	S	4.3	S	V	16.0
	S	S	V	V	V	V	V	S
Extensive repairs performed by:								
None performed	1 799.4	1 718.9	80.5	38.9	35.1	6.0	S	4.5
Company-owned maintenance facility	33.1	23.9	9.2	S	8.1	S	V	32.3
General repair business or private mechanic	173.9	153.9	20.0	S	8.9	S	V	18.6
Dealership service department	170.6	151.4	19.2	S	8.2	10.4	V	20.4
Leasing company	V	V	V	V	V	V	V	N
Component distributorship (engine, transmission, body, etc.)								
Individual not employed/paid by any repair type facility	2.8	S	2.3	V	2.2	S	V	38.3
Other	206.3	201.0	S	S	2.0	V	V	29.1
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	S	S	V	V	V	V	V	S
	S	S	V	V	V	V	V	S
AXLE ARRANGEMENT								
Driving axles:								
1	420.1	413.6	S	S	2.0	V	V	12.0
2	2 121.7	1 997.2	124.5	45.3	59.8	18.9	S	4.2
3 or more	S	S	S	V	S	V	V	S
Not reported	.2	S	.1	S	.1	V	V	35.4
Total liftable axles and locations ¹² :								
None	149.2	65.6	83.6	4.9	59.9	18.9	V	4.0
1	4.3	1.8	2.4	V	2.0	V	S	28.8
Forward of the drive axle	2.3	V	2.3	V	1.8	V	S	42.0
Below the chassis	S	S	S	V	S	V	V	S
Beyond the chassis	.2	V	V	V	V	V	V	45.8
Not reported	1.2	S	S	V	S	V	V	49.7
2 or more	S	S	V	V	V	V	V	S
Forward of the drive axle	S	S	V	V	V	V	V	S
Below the chassis	V	V	V	V	V	V	V	N
Beyond the chassis	S	S	V	V	V	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not reported	.2	S	.1	V	.1	V	V	40.8
Not applicable ¹⁰	2 388.5	2 343.5	45.0	45.0	V	V	V	3.6
Total liftable axles and number of braking axles:								
None	149.2	65.6	83.6	4.9	59.9	18.9	V	4.0
1	4.3	1.8	2.4	V	2.0	V	S	28.8
0 braking	S	V	S	V	V	V	V	S
1 braking	4.1	1.8	2.3	V	1.8	V	S	29.8
Not reported	S	S	S	V	S	V	V	S
2 or more	S	S	V	V	V	V	V	S
0 braking	V	V	V	V	V	V	V	N
1 braking	V	V	V	V	V	V	V	N
2 or more braking	S	S	V	V	V	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not reported	.2	S	.1	V	.1	V	V	40.8
Not applicable ¹⁰	2 388.5	2 343.5	45.0	45.0	V	V	V	3.6
CAB TYPE								
Conventional cab								
With sleeper	138.8	57.8	81.0	4.4	58.4	17.8	S	4.2
Without sleeper	47.1	V	47.1	V	34.8	12.2	V	10.1
Not reported	88.4	57.8	30.6	4.4	20.7	5.0	S	4.5
	3.4	V	3.4	V	2.8	S	V	41.7
Cab over engine								
With sleeper	14.5	9.4	5.1	S	3.5	S	V	13.5
Without sleeper	3.7	V	3.7	V	2.6	S	V	37.0
Not reported	10.3	9.4	1.0	S	S	V	V	13.3
	S	V	S	V	S	V	V	S
Cab forward of engine								
Cab beside engine	S	S	V	V	V	V	V	S
Not reported	S	S	V	V	V	V	V	S
Not applicable ¹⁰	.2	S	S	V	S	V	V	41.4
	2 388.5	2 343.5	45.0	45.0	V	V	V	3.6

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

¹Comparability of estimates may vary across survey years due to changes in category definitions.
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	2 542.2	153.7	3.4	3.9		
TRAILER CONFIGURATION						
No trailer pulled	2 350.6	69.1	3.5	4.6		
Single trailer pulled	168.2	67.3	13.5	6.7		
Double trailers pulled	16.4	16.4	14.0	14.0		
Triple trailers pulled	S	S	S	S		
Not applicable ¹	S	.6	S	36.2		
RANGE OF OPERATION						
Off-the-road	44.5	3.2	31.8	16.4		
50 miles or less	1 621.3	69.3	4.5	4.4		
51 to 100 miles	226.8	15.0	17.0	12.3		
101 to 200 miles	85.0	11.6	13.5	14.9		
201 to 500 miles	103.5	19.0	18.6	13.7		
501 miles or more	147.9	23.8	20.2	14.5		
Not reported	306.5	11.3	12.2	17.0		
Not applicable ¹	S	.6	S	36.2		
JURISDICTION						
Operated in Canada	18.9	7.0	22.3	23.9		
Operated in Mexico	S	S	S	S		
Operated within the home base state	2 192.8	127.1	4.1	4.0		
Operated in states other than the home base state	72.9	10.8	25.2	23.7		
Not reported	250.5	8.1	14.3	17.8		
Not applicable ¹	S	.6	S	36.2		
OPERATOR CLASSIFICATION						
Private	367.4	56.6	12.6	5.3		
Motor carrier	76.5	66.3	14.8	7.5		
Owner operator	33.9	25.6	22.6	13.1		
Rental	S	3.0	S	24.9		
Personal transportation	2 034.1	1.6	4.2	28.5		
Not applicable ¹	S	.6	S	36.2		
For-hire characteristics:						
Type of carrier:						
Contract	38.0	38.0	9.4	9.4		
Common	47.6	47.6	9.1	9.1		
Not reported	7.1	7.1	17.5	17.5		
Not applicable ^{2 3}	2 449.5	61.0	3.5	5.0		
Type of service:						
Truckload	32.3	32.3	10.7	10.7		
Less-than truckload	53.0	53.0	8.5	8.5		
Not reported	7.4	7.4	17.5	17.5		
Not applicable ^{2 3}	2 449.5	61.0	3.5	5.0		
PRODUCTS CARRIED⁴						
Animals and fish, live	S	S	S	S		
Animal feed and products of animal origin	S	S	S	S		
Grains, cereal	S	S	S	S		
All other agricultural products	2.0	2.0	43.1	43.1		
Basic chemicals	2.6	1.5	47.1	34.7		
Fertilizers and fertilizer materials	S	S	S	S		
Pharmaceutical products	S	S	S	S		
All other chemical products and preparations	2.1	1.3	44.9	38.2		
Alcoholic beverages	S	.8	S	29.9		
Bakery and milled grain products	2.8	2.6	37.1	39.5		
Meat, seafood, and their preparations	3.7	3.5	30.2	32.0		
Tobacco products .....	.1	.1	46.8	46.8		
All other prepared foodstuffs	15.7	7.2	39.0	24.1		
Logs and other wood in the rough	1.6	1.4	30.3	31.8		
Paper or paperboard articles	S	.9	S	26.3		
Printed products	S	S	S	S		
Pulp, newsprint, paper, and paperboard	S	S	S	S		
Wood products	12.2	3.2	29.1	20.4		
Articles of base metal	36.2	4.9	35.0	22.6		
Base metal in primary or semifinished forms	S	1.6	S	36.1		
Nonmetallic mineral products	4.7	3.5	25.7	22.9		
Tools, nonpowered	54.4	8.2	28.7	12.7		
Tools, powered	64.4	6.6	25.7	15.4		
Electronic and other electrical equipment	2.0	1.8	33.5	35.4		
Furniture, mattresses, lamps, etc.	2.3	2.1	39.8	42.4		
Machinery	14.8	4.8	32.8	26.0		
Miscellaneous manufactured products	S	3.0	S	34.0		
Precision instruments and apparatus	S	.3	S	38.8		
Textile, leather, and related articles	S	S	S	S		
Vehicles, including parts	4.6	3.9	21.2	21.3		
All other transportation equipment	2.0	2.0	38.4	38.4		
Coal	V	V	N	N		
Crude petroleum	S	S	S	S		
Gravel or crushed stone	8.6	7.9	13.0	11.0		
Metallic ores and concentrates	S	S	S	S		
Monumental or building stone	S	S	S	S		
Natural sands .....	.8	.8	22.2	22.2		
All other nonmetallic minerals .....	.8	.8	39.9	39.9		
Fuel oils	5.0	4.2	22.4	17.1		
Gasoline and aviation turbine fuel	1.9	1.9	22.5	22.5		

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	1.0	.5	48.5	29.9
All other coal and refined petroleum products	1.8	1.4	33.2	28.7
Hazardous waste (EPA manifest)	S	S	S	S
All other waste and scrap (non-EPA manifest)	9.0	2.5	36.2	18.5
Recyclable products	S	S	S	S
Mail and courier parcels	5.5	4.0	29.8	26.7
Empty shipping containers	1.8	1.3	39.1	40.3
Passengers	S	.9	S	50.0
Mixed freight	22.3	22.3	13.3	13.3
Products, equipment, or materials not elsewhere classified .....	.6	.6	39.9	39.9
Products not specified	23.0	7.6	38.3	17.5
Not applicable ¹	S	.6	S	36.2
HAZARDOUS MATERIALS CARRIED⁴				
Division 1.1, Explosives .....	.5	.5	43.5	43.5
Division 1.2, Explosives	S	S	S	S
Division 1.3, Explosives	V	V	N	N
Division 1.4, Explosives .....	.4	.4	41.0	41.0
Division 1.5, Explosives	S	S	S	S
Division 1.6, Explosives	V	V	N	N
Division 2.1, Flammable gas	1.7	1.7	22.5	22.5
Division 2.2, Nonflammable gas	1.3	1.3	25.1	25.1
Division 2.3, Poison gas .....	.4	.4	34.4	34.4
Class 3, Flammable	5.8	5.8	13.5	13.5
Combustible liquid	2.7	2.7	22.1	22.1
Oxygen 2, Oxygen .....	.6	.6	24.6	24.6
Division 4.1, Flammable solid	S	S	S	S
Division 4.2, Spontaneously combustible	V	V	N	N
Division 4.3, Dangerous when wet	S	S	S	S
Division 5.1, Oxidizer .....	.3	.3	47.3	47.3
Division 5.2, Organic peroxide	V	V	N	N
Division 6.1, Poison inhalation hazard	S	S	S	S
Division 6.1, Poison .....	.3	.3	29.9	29.9
Class 7, Radioactive .....	.1	.1	29.3	29.3
Class 8, Corrosive	2.3	2.3	23.6	23.6
Class 9	1.2	1.2	48.1	48.1
Hazardous materials not specified	1.0	1.0	42.0	42.0
Not applicable ¹	S	.6	S	36.2

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

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

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

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

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

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

Appendix.

Approximating Unpublished Coefficients of Variation

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

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

Tables 4 and 5

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

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

where:

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

C = the number of trucks in the cell

STATE = the number of trucks in the state

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

Tables 6 and 7

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

Example

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

CV (retail light-sized trucks)=

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

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

Columns of predominately “large trucks:”

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

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

Rows of predominately “large-trucks:”

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

Annual Miles—75,000 miles or more

Vehicle Size—Light-heavy and Heavy-heavy

Average Weight—19,501 pounds or more

Total Length—50.0 or more

Miles per Gallon—Less than 5 and 5 to 6.9

Primary Operator Classification— Motor carrier, Owner operator

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

Hazardous Materials Carried—Carrying hazardous materials

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

Equipment Type, Braking system—All rows except Not applicable

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

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

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

Cab Type—All rows except Not applicable

