

Colorado: 2002

Issued September 2004

EC02TV-CO

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**, and **Kathleen R. Walsh**.

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**, TIPS Senior Software Engineer, was responsible for the design and development of the Table Image Processing System, under the supervision of **Robert J. Bateman**, Assistant Division Chief for Information Systems.

Kim D. Ottenstein and **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 Colorado is 2,695 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 Colorado, approximately 79.4 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	12.7	12.3	12.0	8.8
Agriculture, forestry, fishing, or hunting	2.9	6.2	6.0	8.7	3 to 4 years old	14.6	14.1	11.5	18.5
Mining	S	S	.7	.7	Over 4 years old	72.7	73.5	76.5	72.7
Construction	8.2	9.8	8.5	8.0	VEHICLE ACQUISITION				
Manufacturing	S	.6	1.3	.4	New	37.8	33.2	36.5	42.0
Wholesale and retail trade	1.9	4.4	4.5	4.4	Used	55.9	58.3	59.1	55.2
For-hire transportation or warehousing .....	.7	.6	.7	1.1	Not reported ⁴	6.3	8.5	4.5	2.8
Utilities and all services	5.0	6.2	6.3	5.4	TRUCK TYPE				
Personal transportation	73.5	68.8	69.8	70.6	Single-unit trucks ⁵	96.4	96.7	96.9	98.3
Other, not reported, and not applicable	6.7	2.9	2.1	.7	2 axles	95.8	95.9	95.9	97.2
BODY TYPE					3 axles or more .....	.6	.8	1.0	1.1
Pickup, minivan, other light vans, and sport utility	95.8	93.7	93.0	92.1	Trailer/axles not specified	V	N	N	N
Flatbed, stake, platform, and low boy	1.1	1.8	2.3	2.9	Combinations	3.6	3.3	3.1	1.7
Van ² .....	.9	1.0	1.2	.9	3 axles .....	.9	.6	.6	.6
Service, utility .....	.2	.2	.2	.2	4 axles	2.2	1.8	1.4	.9
Van, step, walk-in, or multistop .....	.3	.4	.5	.8	5 axles or more .....	.4	.8	1.1	.2
Dump .....	.8	.7	.8	.9	Trailer/axles not specified	V	V	V	V
Tank for liquids, gases, or dry bulk .....	.2	.4	.4	.3	RANGE OF OPERATION				
Other and not applicable .....	.7	1.8	1.7	2.0	50 miles or less	73.1	69.8	74.9	75.4
VEHICLE SIZE					51 to 200 miles	10.0	17.2	14.0	14.4
Light	95.9	94.2	93.5	94.5	201 miles or more	4.6	5.2	5.9	4.4
Medium	1.6	2.4	2.6	2.2	Off-the-road, not reported, and not applicable	12.3	7.7	5.2	5.8
Light-heavy .....	.7	.9	1.1	1.4	FUEL TYPE				
Heavy-heavy	1.7	2.4	2.8	1.9	Gasoline	88.2	94.0	95.5	96.6
ANNUAL MILES					All other fuels	8.4	5.9	4.5	3.4
Less than 5,000 ³	21.0	22.4	23.2	31.0	Other, not reported, and not applicable	3.3	.1	V	V
5,000 to 9,999	21.9	22.4	24.2	25.2					
10,000 to 19,999	40.2	36.9	38.2	32.4					
20,000 to 29,999	11.4	12.3	9.4	8.2					
30,000 or more	5.6	5.9	5.0	3.2					

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

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

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	5.0	8.4
Agriculture, forestry, fishing, or hunting	21.0	23.8	3 to 4 years old	12.6	10.4
Mining	1.4	1.6	Over 4 years old	82.4	81.2
Construction	25.2	22.8	VEHICLE ACQUISITION		
Manufacturing	3.6	2.2	New	34.9	31.3
Wholesale and retail trade	10.4	12.8	Used	61.3	57.4
For-hire transportation or warehousing	7.6	7.1	Not reported ⁴	3.8	11.3
Utilities and all services	17.7	19.0	TRUCK TYPE		
Personal transportation	S	3.4	Single-unit trucks ⁵	83.0	79.1
Other, not reported, and not applicable	12.8	7.3	2 axles	67.6	65.8
BODY TYPE			3 axles or more	15.1	13.3
Flatbed, stake, platform, and low boy	26.1	28.3	Trailer/axles not specified .....	.2	N
Van ²	22.3	16.2	Combinations	17.0	20.9
Service, utility	5.2	3.0	3 axles	2.2	2.3
Van, step, walk-in, or multistop	7.5	6.6	4 axles	3.9	5.4
Dump	18.0	11.0	5 axles or more	9.8	13.2
Tank for liquids, gases, or dry bulk	5.5	5.9	Trailer/axles not specified	1.1	V
Other and not applicable	15.4	29.0	RANGE OF OPERATION		
VEHICLE SIZE			50 miles or less	62.5	53.8
Light	17.6	24.5	51 to 200 miles	15.0	21.4
Medium	24.0	22.9	201 miles or more	2.2	10.9
Light-heavy	14.6	14.6	Off-the-road, not reported, and not applicable	20.3	13.9
Heavy-heavy	40.8	38.0	FUEL TYPE		
ANNUAL MILES			Gasoline	35.4	48.8
Less than 5,000 ³	42.3	38.1	All other fuels	58.1	49.8
5,000 to 9,999	15.1	15.9	Other, not reported, and not applicable	6.4	1.4
10,000 to 19,999	19.2	21.7			
20,000 to 29,999	12.8	8.9			
30,000 or more	10.6	15.5			

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

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

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

³Includes vehicles not in use.

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

⁵Excludes truck-tractors not in use.

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

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
Total	1 677.4	1 422.0	18.0	19 748.7	17 332.3	13.9	11.8	12.2	-3.4
BUSINESS¹									
For-hire transportation or warehousing	12.3	8.7	41.1	256.3	461.8	-44.5	20.9	53.2	-60.7
Vehicle leasing or rental	19.4	12.2	59.9	285.2	225.6	26.4	14.7	18.6	-21.0
Agriculture, forestry, fishing, or hunting	49.3	88.0	-44.0	251.8	936.0	-73.1	5.1	10.6	-52.0
Mining	S	S	S	S	S	S	S	S	S
Utilities	14.1	15.5	-9.0	S	241.4	S	S	15.6	S
Construction	137.7	139.2	-1.0	2 238.5	2 320.7	-3.5	16.3	16.7	-2.5
Manufacturing	S	8.8	S	95.5	76.7	24.5	S	8.7	S
Wholesale trade	S	17.8	S	106.6	469.4	-77.3	S	26.4	S
Retail trade	25.2	45.1	-44.1	510.9	798.5	-36.0	20.3	17.7	14.5
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	14.0	N	N	110.4	N	N	7.9	N	N
Arts, entertainment, or recreation services	S	N	N	S	N	N	S	N	N
Accommodation or food services	S	N	N	S	N	N	S	N	N
Other services	29.5	N	N	489.1	N	N	16.6	N	N
Personal transportation	1 233.0	978.3	26.0	14 142.6	10 286.4	37.5	11.5	10.5	9.1
Not reported	36.5	V	N	443.2	V	N	12.2	V	N
Not applicable ²	56.0	28.7	94.7	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks	1 668.7	1 408.5	18.5	19 576.9	16 745.2	16.9	11.7	11.9	-1.3
Pickup	736.3	697.9	5.5	7 913.8	8 193.2	-3.4	10.7	11.7	-8.5
Minivan	136.4	135.3	.9	1 976.3	1 989.3	-7	14.5	14.7	-1.5
Other light vans	98.9	76.4	29.5	1 022.9	916.8	11.6	10.3	12.0	-13.9
Sport utility	634.6	422.8	50.1	7 999.5	4 833.6	65.5	12.6	11.4	10.3
Armored	S	N	N	S	N	N	S	N	N
Beverage .....	.8	.7	12.4	13.8	11.1	24.3	17.3	15.7	10.6
Concrete mixer	2.1	1.8	14.3	37.9	35.5	6.6	18.0	19.3	-6.8
Concrete pumper .....	.2	.5	N	4.3	N	N	19.2	N	N
Crane .....	.6	.5	10.2	S	6.2	S	S	11.3	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	11.0	8.4	31.1	66.2	64.5	2.6	6.0	7.7	-21.7
Flatbed, stake, or platform	16.1	19.7	-18.1	176.5	188.1	-6.1	10.9	9.6	14.5
Low boy	S	1.1	S	S	12.2	S	S	11.3	S
Pole, logging, pulpwood, or pipe	S	.2	S	S	S	S	S	S	S
Service, utility	3.7	2.7	39.8	42.7	17.8	139.5	11.5	6.7	71.3
Service, other	2.7	6.1	-55.2	31.7	57.3	-44.6	11.6	9.4	23.5
Street sweeper .....	.1	N	N	S	N	N	S	N	N
Tank, dry bulk .....	.4	S	S	1.7	S	S	4.4	S	S
Tank, liquids or gases	3.2	4.0	-20.1	21.1	30.5	-30.7	6.7	7.7	-13.3
Tow/Wrecker .....	.9	2.4	-62.9	18.0	42.8	-57.9	20.5	18.0	13.5
Trash, garbage, or recycling	1.9	1.6	20.6	39.4	45.0	-12.4	20.8	28.7	-27.3
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	6.9	8.3	-16.2	90.4	118.6	-23.8	13.1	14.4	-9.1
Van, insulated nonrefrigerated .....	.4	S	S	S	S	S	S	S	S
Van, insulated refrigerated .....	.8	1.1	-28.6	15.8	29.5	-46.6	20.0	26.7	-25.2
Van, open top	4.0	9.0	-55.1	7.8	15.0	-47.7	1.9	1.7	16.7
Van, step, walk-in, or multistop	5.3	6.0	-10.3	68.5	95.3	-28.1	12.8	16.0	-19.8
Van, other .....	.7	N	N	12.7	N	N	17.7	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	8.7	13.6	-36.1	171.9	587.0	-70.7	19.8	43.3	-54.2
Automobile carrier	S	.2	S	S	9.7	S	S	61.4	S
Beverage .....	.3	.7	-53.0	5.9	11.6	-49.0	17.2	15.9	8.4
Curtainside	S	N	N	S	N	N	S	N	N
Dump	1.8	1.5	20.9	44.1	48.9	-9.7	24.0	32.1	-25.3
Flatbed, stake, or platform	1.7	2.0	-16.0	18.1	77.0	-76.5	10.8	38.6	-72.1
Livestock .....	.2	.5	-57.0	1.0	18.2	-94.4	4.4	33.8	-87.1
Low boy .....	.7	.9	-15.6	15.1	17.5	-13.4	20.3	19.7	2.6
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	1.0	1.6	-32.4	10.7	46.6	-77.0	10.2	30.0	-66.0
Pole, logging, pulpwood, or pipe	S	.2	S	S	S	S	S	S	S
Tank, dry bulk	S	.4	S	S	27.1	S	S	65.8	S
Tank, liquids or gases .....	.3	.7	-57.9	8.0	48.2	-83.4	28.6	72.3	-60.5
Van, basic enclosed	1.4	2.5	-42.9	52.2	139.7	-62.6	36.3	55.6	-34.6
Van, drop-frame	S	.4	S	S	13.4	S	S	32.6	S
Van, insulated nonrefrigerated	V	S	S	V	15.6	N	V	S	S
Van, insulated refrigerated .....	.5	1.5	-67.2	12.0	104.0	-88.5	25.1	71.3	-64.9
Other	V	N	N	V	N	N	V	N	N
Not applicable ³ .....	.3	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	296.7	290.5	2.1	585.1	543.4	7.7	2.0	1.9	5.4
5,000 to 9,999	366.8	319.1	14.9	2 592.7	2 150.5	20.6	7.1	6.7	4.9
10,000 to 19,999	674.2	524.5	28.5	8 957.4	6 912.0	29.6	13.3	13.2	.8
20,000 to 29,999	190.5	175.0	8.8	4 227.2	3 915.0	8.0	22.2	22.4	-.8
30,000 to 49,999	84.6	59.9	41.3	2 919.6	2 137.3	36.6	34.5	35.7	-3.3
50,000 to 74,999	S	18.8	S	S	1 099.6	S	S	58.6	S
75,000 or more .....	.3	5.4	-93.7	35.3	574.4	-93.8	103.0	105.7	-2.5
Not applicable ²	56.0	28.7	94.9	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	25.1	81.5	-69.2	195.7	531.6	-63.2	7.8	6.5	19.7
50 miles or less	1 225.4	992.7	23.4	14 804.2	11 463.8	29.1	12.1	11.5	4.6
51 to 100 miles	121.9	191.2	-36.3	1 661.7	2 919.4	-43.1	13.6	15.3	-10.7
101 to 200 miles	46.5	53.4	-12.8	880.9	1 073.9	-18.0	18.9	20.1	-5.9
201 to 500 miles	21.5	25.5	-15.7	386.4	635.7	-39.2	18.0	25.0	-27.9
501 miles or more	55.5	49.1	13.2	487.3	708.0	-31.2	8.8	14.4	-39.2
Not reported	125.5	28.7	337.2	1 324.2	V	N	10.5	V	N
Not applicable ²	56.0	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	V	N	N	V	N	N	V	N	N
Operated in Mexico	V	N	N	V	N	N	V	N	N
Operated within the home base state	1 447.5	N	N	17 531.4	N	N	12.1	N	N
Operated in states other than the home base state	55.9	N	N	853.0	N	N	15.3	N	N
Not reported	118.0	N	N	1 356.0	N	N	11.5	N	N
Not applicable ²	56.0	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	1 099.2	N	N	14 794.4	N	N	13.5	N	N
7 to 11	264.1	N	N	3 420.2	N	N	13.0	N	N
2 to 6	198.9	N	N	1 454.0	N	N	7.3	N	N
1 or less	59.3	N	N	71.8	N	N	1.2	N	N
Vehicle not used	56.0	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	1 608.5	1 340.2	20.0	18 959.2	15 814.6	19.9	11.8	11.8	-1
Medium	27.4	34.6	-21.0	277.0	555.2	-50.1	10.1	16.0	-36.9
Light-heavy	12.5	13.1	-4.4	145.5	149.1	-2.4	11.6	11.4	2.1
Heavy-heavy	29.0	34.1	-14.8	367.1	813.4	-54.9	12.6	23.9	-47.0
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	1 220.1	1 207.1	1.1	13 785.6	14 159.9	-2.6	11.3	11.7	-3.7
6,001 to 8,500	306.6	N	N	4 184.5	N	N	13.6	N	N
8,501 to 10,000	81.8	N	N	989.1	N	N	12.1	N	N
10,001 to 14,000	19.5	20.2	-3.5	176.3	325.3	-45.8	9.0	16.1	-43.8
14,001 to 16,000	3.8	5.7	-34.7	43.1	S	S	11.5	S	S
16,001 to 19,500	4.1	8.6	-52.8	57.5	S	S	14.1	S	S
19,501 to 26,000	12.5	13.1	-4.4	145.5	149.1	-2.4	11.6	11.4	2.1
26,001 to 33,000	5.6	8.5	-34.2	47.7	74.9	-36.3	8.5	8.8	-3.2
33,001 to 40,000	3.8	3.9	-2.4	33.1	52.2	-36.5	8.8	13.5	-35.0
40,001 to 50,000	5.4	6.4	-15.3	49.0	115.6	-57.6	9.1	18.2	-50.0
50,001 to 60,000	6.7	6.1	10.2	76.0	112.9	-32.6	11.3	18.5	-38.9
60,001 to 80,000	5.8	7.8	-26.2	132.9	408.7	-67.5	23.0	52.2	-55.9
80,001 to 100,000	1.6	1.4	15.9	23.8	49.0	-51.4	14.5	34.5	-58.1
100,001 to 130,000 .....	.1	V	N	S	V	S	S	V	S
130,001 or more	V	V	N	V	V	N	V	V	N
TOTAL LENGTH (FEET)									
Less than 20.0	1 405.5	1 336.2	5.2	16 134.4	15 688.2	2.8	11.5	11.7	-2.2
20.0 to 27.9	156.9	36.4	331.3	1 959.7	386.9	406.5	12.5	10.6	17.4
28.0 to 35.9	76.8	32.5	136.7	1 195.6	617.6	93.6	15.6	19.0	-18.2
36.0 to 40.9	17.6	3.1	461.0	178.9	52.2	242.9	10.2	16.7	-38.9
41.0 to 44.9	S	1.3	S	S	30.1	S	S	23.4	S
45.0 to 49.9	S	.8	S	S	18.0	S	S	23.0	S
50.0 to 54.9	1.5	1.5	-3.6	26.5	39.2	-32.4	18.1	25.8	-29.9
55.0 to 59.9	2.6	3.2	-19.4	49.3	113.7	-56.7	19.0	35.3	-46.2
60.0 to 64.9	2.2	3.7	-39.9	44.9	175.1	-74.3	20.4	47.7	-57.3
65.0 to 69.9 .....	.9	2.3	-62.7	17.0	133.5	-87.3	19.9	58.6	-66.0
70.0 to 74.9 .....	.3	.8	-64.4	2.1	61.8	-96.6	7.4	78.2	-90.6
75.0 to 79.9	V	N	N	V	N	N	V	N	N
80.0 or more	V	N	N	V	N	N	V	N	N
MILES PER GALLON									
Less than 5	7.0	11.3	-38.4	101.1	239.5	-57.8	14.5	21.2	-31.4
5 to 6.9	13.6	24.8	-45.3	169.1	548.5	-69.2	12.5	22.1	-43.6
7 to 8.9	10.6	28.1	-62.3	115.8	335.9	-65.5	10.9	12.0	-8.7
9 to 10.9	106.9	159.6	-33.0	1 147.6	1 303.4	-11.9	10.7	8.2	31.5
11 to 12.9	140.3	174.6	-19.7	1 280.9	2 109.4	-39.3	9.1	12.1	-24.4
13 to 14.9	104.9	169.4	-38.1	987.6	2 020.1	-51.1	9.4	11.9	-21.1
15 or more	1 047.0	840.1	24.6	13 477.1	10 675.6	26.2	12.9	12.7	1.3
15 to 20.9	838.5	639.6	31.1	10 575.2	8 135.4	30.0	12.6	12.7	-8
21 to 24.9	123.0	150.5	-18.3	1 678.7	2 051.5	-18.2	13.6	13.6	.1
25 or more	85.5	49.9	71.4	1 223.2	488.8	150.2	14.3	9.8	46.0
Not reported	191.1	14.1	1 252.2	2 461.2	100.0	2 360.7	12.9	7.1	82.0
Not applicable ²	56.0	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	S	N	N	S	N	N	S	N	N
2002	59.3	N	N	856.4	N	N	14.4	N	N
2001	152.9	N	N	2 648.5	N	N	17.3	N	N
2000	121.0	N	N	2 019.2	N	N	16.7	N	N
1999	124.1	N	N	1 518.4	N	N	12.2	N	N
1998	122.2	S	S	1 835.6	S	S	15.0	S	S
1997	119.7	64.8	84.7	1 773.5	1 140.9	55.5	14.8	17.6	-15.8
1996	115.2	110.2	4.5	1 630.2	1 479.8	10.2	14.2	13.4	5.4
1995	123.6	96.8	27.7	1 622.1	1 833.8	-11.5	13.1	18.9	-30.7
1994	99.3	104.3	-4.8	1 137.6	2 103.2	-45.9	11.5	20.2	-43.2
1993	74.1	80.0	-7.3	810.1	1 355.5	-40.2	10.9	17.0	-35.5
Pre-1993	566.0	965.7	-41.4	3 894.4	9 416.9	-58.6	6.9	9.8	-29.4
VEHICLE ACQUISITION									
New	634.2	471.7	34.5	8 398.9	6 434.9	30.5	13.2	13.6	-2.9
Used	937.5	829.6	13.0	10 129.3	8 928.3	13.5	10.8	10.8	.4
Not reported	105.6	120.7	-12.5	1 220.6	1 969.0	-38.0	11.6	16.3	-29.1
LEASE CHARACTERISTICS									
Leased	108.7	N	N	1 904.0	N	N	17.5	N	N
Lessee	96.6	N	N	1 721.1	N	N	17.8	N	N
Vehicle only	4.3	N	N	94.3	N	N	22.0	N	N
Vehicle with driver	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ⁴	92.3	N	N	1 626.8	N	N	17.6	N	N
Lessor	1.8	N	N	49.4	N	N	26.7	N	N
Vehicle only	1.8	N	N	48.5	N	N	27.0	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	V	N	N	V	N	N	V	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	899.1	N	N	10 827.4	N	N	12.0	N	N
Not reported	669.5	N	N	7 017.3	N	N	10.5	N	N
Length of leasing agreement:									
Leased	108.7	N	N	1 904.0	N	N	17.5	N	N
1 to 11 months	S	N	N	S	N	N	S	N	N
12 months or more	6.0	N	N	140.3	N	N	23.4	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ⁴	102.6	N	N	1 759.9	N	N	17.2	N	N
Provisions of lease ⁵ :									
Financing only	4.8	N	N	112.8	N	N	23.5	N	N
Full maintenance	2.1	N	N	49.6	N	N	23.4	N	N
Payment of taxes	2.1	N	N	48.2	N	N	23.1	N	N
Obtaining licenses and permits	1.8	N	N	43.7	N	N	23.6	N	N
Recordkeeping	1.3	N	N	31.7	N	N	24.7	N	N
Fuel contract .....	.8	N	N	20.1	N	N	25.5	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	345.4	N	N	4 882.6	N	N	14.1	N	N
Motor carrier	13.6	N	N	198.8	N	N	14.7	N	N
Owner operator	S	N	N	S	N	N	S	N	N
Rental	20.0	N	N	295.1	N	N	14.8	N	N
Personal transportation	1 233.1	N	N	14 142.7	N	N	11.5	N	N
Not applicable ²	56.0	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	2.1	N	N	43.6	N	N	20.4	N	N
Common	4.9	N	N	91.0	N	N	18.4	N	N
Not reported	2.1	N	N	30.5	N	N	14.5	N	N
Not applicable ⁶	1 668.2	N	N	19 583.5	N	N	11.7	N	N
Type of service:									
Truckload	3.5	3.0	18.1	73.0	181.7	-59.8	20.7	60.8	-66.0
Less-than truckload	3.8	3.2	17.9	62.7	128.6	-51.2	16.6	40.2	-58.6
Not reported	1.9	N	N	29.5	N	N	15.6	N	N
Not applicable ⁶	1 668.2	N	N	19 583.5	N	N	11.7	N	N
Source of hauls:									
Shippers or receivers	4.7	N	N	93.5	N	N	19.7	N	N
Brokers .....	.5	N	N	8.2	N	N	17.8	N	N
Centralized markets or exchanges .....	.3	N	N	7.1	N	N	20.5	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	3.6	N	N	56.5	N	N	15.5	N	N
Not applicable ⁶	1 668.2	N	N	19 583.5	N	N	11.7	N	N
HAZARDOUS MATERIALS CARRIED⁷									
Carrying hazardous materials	2.5	3.6	-30.1	40.3	115.3	-65.1	15.9	31.7	-50.0
Not carrying hazardous materials	54.3	71.9	-24.4	657.4	1 087.6	-39.6	12.1	15.1	-20.0
Not reported	6.5	12.9	-49.6	74.1	163.5	-54.7	11.4	12.6	-10.1
Not applicable ⁸	1 614.0	N	N	18 976.9	N	N	11.8	N	N
EQUIPMENT TYPE^{5 9}									
Aerial work platform/bucket	1.4	N	N	10.8	N	N	7.8	N	N
Air bag(s) (safety device only)	909.2	319.6	184.5	12 817.8	5 163.4	148.2	14.1	16.2	-12.7
Air compressor (except air brakes)	4.1	N	N	54.2	N	N	13.3	N	N
Air-conditioning	1 275.4	894.0	42.7	16 355.4	12 896.0	26.8	12.8	14.4	-11.1
Air springs	4.2	N	N	81.6	N	N	19.2	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE^{5 9}—Con.									
Antilock brake system	927.9	558.1	66.2	13 064.1	8 580.8	52.2	14.1	15.4	-8.4
Collision warning system	1.0	N	N	15.2	N	N	15.7	N	N
Computerized drive train control unit	206.4	N	N	2 812.3	N	N	13.6	N	N
Crane	2.1	N	N	27.2	N	N	12.9	N	N
Electronic vehicle identification device .....	.8	.8	2.0	20.4	28.2	-27.9	25.7	36.5	-29.4
Engine retarder/brake	13.4	14.0	-4.8	219.5	516.9	-57.5	16.4	36.9	-55.4
Front-wheel drive	1 126.2	280.3	301.8	13 386.0	4 008.9	233.9	11.9	14.3	-16.9
Hoist	13.2	N	N	78.0	N	N	5.9	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	1.1	N	N	24.0	N	N	21.3	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	4.6	N	N	75.9	N	N	16.4	N	N
Mounting bar for snowplow	28.6	N	N	S	N	N	S	N	N
Navigational system	S	S	S	S	14.6	S	S	S	S
Power take-off	23.0	N	N	232.9	N	N	10.1	N	N
Radial tires	1 118.8	1 149.5	-2.7	13 130.3	14 902.4	-11.9	11.7	13.0	-9.5
Reflective material in addition to those required by law	7.7	14.9	-48.3	109.4	373.9	-70.7	14.2	25.0	-43.4
Road speed governor	13.5	16.9	-20.1	225.3	496.1	-54.6	16.6	29.3	-43.1
Toolbox	163.6	N	N	2 393.5	N	N	14.6	N	N
Trip recorder or on-board computer with communication capabilities	60.4	N	N	746.8	N	N	12.4	N	N
Trip recorder or on-board computer without communication capabilities	268.2	N	N	3 575.1	N	N	13.3	N	N
Vehicle control aids for handicapped drivers	S	S	S	S	S	S	S	S	S
Wheelchair lift	V	S	S	V	S	S	V	S	S
Winch	27.3	N	N	247.1	N	N	9.1	N	N
Transmission type:									
Automatic	1 113.3	N	N	13 621.9	N	N	12.2	N	N
Manual	498.4	N	N	5 445.7	N	N	10.9	N	N
Semiautomated manual .....	.4	N	N	S	N	N	S	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	61.7	N	N	656.8	N	N	10.6	N	N
Braking system:									
Hydraulic (standard)	24.1	20.9	15.2	231.7	184.9	25.3	9.6	8.9	8.7
Hydraulic with power assist	17.6	28.9	-39.3	177.6	288.8	-38.5	10.1	10.0	1.3
Air	25.7	31.1	-17.3	365.1	824.6	-55.7	14.2	26.5	-46.4
Other	V	.6	N	V	S	S	V	S	S
Not reported	3.7	N	N	61.8	N	N	16.5	N	N
Not applicable ¹⁰	1 606.3	N	N	18 912.4	N	N	11.8	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	1 480.1	1 336.5	10.7	17 808.9	15 598.3	14.2	12.0	11.7	3.1
Diesel	123.1	76.0	62.0	1 664.9	1 669.1	-3	13.5	22.0	-38.4
Natural gas	V	N	N	V	N	N	V	N	N
Propane .....	.8	N	N	6.0	N	N	7.2	N	N
Alcohol fuels	V	N	N	V	N	N	V	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	17.3	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	56.0	N	N	S	N	N	S	N	N
Cylinders ¹¹ :									
4 cylinders	177.0	216.6	-18.3	1 945.6	2 425.3	-19.8	11.0	11.2	-1.8
6 cylinders	760.5	556.8	36.6	10 262.8	7 576.6	35.5	13.5	13.6	-8
8 cylinders	679.7	597.5	13.8	7 163.6	7 126.3	.5	10.5	11.9	-11.6
Other	60.2	51.1	17.8	376.7	204.0	84.7	6.3	4.0	56.7
Cubic inch displacement ¹¹ :									
Gasoline fuel:									
Less than 200	1 480.1	1 336.5	10.7	17 808.9	15 598.3	14.2	12.0	11.7	3.1
200 to 299	379.8	373.3	1.7	4 518.9	4 340.0	4.1	11.9	11.6	2.4
300 to 349	523.8	333.2	57.2	7 461.4	4 352.1	71.4	14.2	13.1	9.1
350 to 399	206.1	198.4	3.9	2 047.1	2 347.5	-12.8	9.9	11.8	-16.0
400 or more	238.2	282.6	-15.7	2 890.5	3 289.5	-12.1	12.1	11.6	4.2
Not available	95.4	80.0	19.2	773.2	984.8	-21.5	8.1	12.3	-34.2
Diesel fuel:	36.8	68.9	-46.6	117.7	284.4	-58.6	3.2	4.1	-22.5
Less than 400	123.1	76.0	62.0	1 664.9	1 669.1	-3	13.5	22.0	-38.4
400 to 599	42.6	22.7	87.6	438.6	387.1	13.3	10.3	17.1	-39.6
600 to 799	61.9	29.1	113.0	944.9	579.8	63.0	15.3	19.9	-23.5
800 or more	6.9	4.8	42.5	149.0	150.8	-1.2	21.7	31.3	-30.7
Not available	6.1	9.0	-31.9	96.9	398.3	-75.7	15.8	44.2	-64.3
Other fuel	5.6	10.4	-46.1	35.6	153.1	-76.8	6.4	14.8	-56.9
Not reported	18.1	8.2	119.9	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	56.0	N	N	S	N	N	S	N	N
REFUELING LOCATION									
Gas station	1 480.0	N	N	18 305.1	N	N	12.4	N	N
Truck stop	15.6	N	N	219.0	N	N	14.1	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	67.3	N	N	580.0	N	N	8.6	N	N
Other company's/contractor's facility not open to the public	S	N	N	51.4	N	N	S	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	52.6	N	N	584.8	N	N	11.1	N	N
Not applicable ²	56.0	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁵									
General maintenance performed by:									
None performed	66.7	9.6	595.2	359.6	S	S	5.4	S	S
Company-owned maintenance facility	138.9	107.7	29.0	1 976.7	1 678.7	17.8	14.2	15.6	-8.7
General repair business or private mechanic	691.0	500.1	38.2	9 470.5	6 677.8	41.8	13.7	13.4	2.6
Dealership service department	412.8	327.5	26.0	5 677.5	4 761.8	19.2	13.8	14.5	-5.4
Leasing company	1.2	S	S	22.4	70.7	-68.3	18.7	S	S
Individual not employed/paid by any maintenance type facility									
Other	616.3	719.2	-14.3	6 745.1	7 936.7	-15.0	10.9	11.0	-8
Not reported	V	16.1	N	V	96.2	N	V	6.0	N
Not applicable ²	59.4	27.1	118.8	706.6	320.8	120.2	11.9	11.8	.7
Extensive repairs performed by:									
None performed	1 312.8	97.4	1 248.3	15 561.9	963.1	1 515.9	11.9	9.9	19.8
Company-owned maintenance facility	14.8	43.3	-65.8	S	592.8	S	S	13.7	S
General repair business or private mechanic	132.9	262.1	-49.3	1 814.9	3 302.2	-45.0	13.7	12.6	8.4
Dealership service department	81.7	179.1	-54.4	1 471.2	3 040.8	-51.6	18.0	17.0	6.0
Leasing company	S	S	S	S	61.8	S	S	S	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	S	33.2	S	S	504.8	S	S	15.2	S
Other	63.2	151.6	-58.3	789.1	1 315.4	-40.0	12.5	8.7	44.0
Not reported	V	16.1	N	V	S	S	V	S	S
Not applicable ²	S	681.6	S	S	8 221.9	S	S	12.1	S
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	1 617.5	1 375.5	17.6	18 889.8	16 126.0	17.1	11.7	11.7	-4
3 axles	1 606.3	1 363.5	17.8	18 759.6	15 968.0	17.5	11.7	11.7	-3
4 axles	9.9	11.5	-13.6	107.1	149.0	-28.1	10.8	13.0	-16.8
5 axles or more	1.1	.5	135.3	22.7	9.0	152.0	21.1	19.7	7.1
Not reported	S	N	N	S	N	N	S	N	N
Combinations									
Single-unit trucks with trailer	59.9	46.6	28.6	858.9	1 206.3	-28.8	14.3	25.9	-44.7
3 axles	51.5	33.0	56.2	687.0	619.2	10.9	13.3	18.8	-29.0
4 axles	14.5	S	S	S	S	S	S	S	S
5 axles or more	36.1	23.7	52.3	423.8	477.4	-11.2	11.7	20.1	-41.7
Not reported .....	.9	1.5	-40.5	15.0	30.2	-50.3	16.5	19.8	-16.6
Truck-tractors with single trailer									
3 axles	8.3	13.3	-37.5	171.1	568.6	-69.9	20.5	42.6	-51.8
4 axles .....	.7	1.4	-45.9	11.5	31.2	-63.1	15.7	23.0	-31.7
5 axles or more	1.1	1.9	-43.9	28.5	49.7	-42.6	26.9	26.3	2.2
Not reported	6.1	10.1	-40.1	119.9	487.7	-75.4	19.8	48.2	-58.9
Truck-tractors with double trailers									
5 axles .....	.5	N	N	11.1	N	N	22.5	N	N
6 axles	S	2	S	S	18.5	S	S	83.2	S
7 axles	S	S	S	S	S	S	S	S	S
8 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	V	N	V	V	N	V	V	N
Truck-tractors with triple trailers									
7 axles	V	V	N	V	V	N	V	V	N
8 axles	V	V	N	V	V	N	V	V	N
9 axles	V	V	N	V	V	N	V	V	N
10 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	V	N	V	V	N
Driving axles:									
1	527.5	659.9	-20.1	6 015.6	7 359.5	-18.3	11.4	11.2	2.3
2	1 149.6	761.8	50.9	13 731.7	9 962.0	37.8	11.9	13.1	-8.7
3 or more .....	.2	.3	-43.2	S	10.8	S	S	35.1	S
Not reported .....	.2	V	N	S	V	S	S	V	S
Total liftable axles and locations ¹² :									
None	69.5	30.1	130.6	808.8	470.7	71.8	11.6	15.6	-25.5
1	1.4	1.0	45.6	26.8	13.3	101.9	18.7	13.5	38.7
Forward of the drive axle .....	.1	N	N	S	N	N	S	N	N
Below the chassis	S	N	N	S	N	N	S	N	N
Beyond the chassis	1.0	N	N	21.6	N	N	20.6	N	N
Not reported .....	.1	N	N	2.2	N	N	17.6	N	N
2 or more	S	S	S	S	S	S	S	S	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 applicable ¹⁰	1 606.3	N	N	18 912.4	N	N	11.8	N	N
Total liftable axles and number of braking axles:									
None	69.5	30.1	130.6	808.8	470.7	71.8	11.6	15.6	-25.5
1	1.4	1.0	45.6	26.8	13.3	101.9	18.7	13.5	38.7
0 braking .....	.1	N	N	2.3	N	N	18.5	N	N
1 braking	1.3	N	N	24.5	N	N	18.7	N	N
Not reported	V	N	N	V	N	N	V	N	N
2 or more	S	S	S	S	S	S	S	S	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 applicable ¹⁰	1 606.3	N	N	18 912.4	N	N	11.8	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
CAB TYPE									
Conventional cab	62.1	67.1	-7.4	712.3	1 059.4	-32.8	11.5	15.8	-27.4
With sleeper	1.6	N	N	23.0	N	N	14.1	N	N
Without sleeper	60.5	N	N	689.3	N	N	11.4	N	N
Not reported	V	N	N	V	N	N	V	N	N
Cab over engine	8.8	9.7	-9.2	124.0	157.0	-21.1	14.1	16.2	-13.1
With sleeper .....	.8	N	N	S	N	N	S	N	N
Without sleeper	8.0	N	N	119.2	N	N	14.9	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	V	2.6	N	V	50.1	N	V	19.4	N
Cab beside engine	S	.7	S	S	S	S	S	S	S
Not reported .....	.2	N	N	S	N	N	S	N	N
Not applicable ¹⁰	1 606.3	N	N	18 912.4	N	N	11.8	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.

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

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

³Truck-tractors not in use.

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

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

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

⁷Distributed miles data are available in Table 8.

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

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

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

¹¹Data were derived from administrative records.

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

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

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

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
Total .....	.6	.8	1.2	3.3	3.4	5.4	3.3	3.3	4.5
BUSINESS									
For-hire transportation or warehousing	39.8	27.4	68.2	45.2	30.7	30.3	15.0	6.1	6.4
Vehicle leasing or rental	39.0	36.6	85.5	37.9	42.0	71.5	11.3	19.7	17.9
Agriculture, forestry, fishing, or hunting	21.6	13.5	14.3	35.8	21.8	11.3	27.1	15.8	15.1
Mining	S	S	S	S	S	S	S	S	S
Utilities	42.2	32.1	48.2	S	41.6	S	S	17.0	S
Construction	14.2	11.3	17.9	16.9	13.8	21.1	8.4	7.6	11.0
Manufacturing	S	44.7	S	44.2	34.3	69.7	S	26.3	S
Wholesale trade	S	30.4	S	48.8	35.1	13.7	S	21.6	S
Retail trade	33.1	20.3	21.7	40.4	24.0	30.1	22.1	13.0	29.3
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	42.4	N	N	32.5	N	N	25.1	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	32.6	N	N	41.9	N	N	25.8	N	N
Personal transportation	2.6	2.6	4.7	4.4	4.4	8.6	3.5	3.7	5.6
Not reported	29.4	N	N	37.2	N	N	22.9	N	N
Not applicable ¹	23.4	26.0	68.1	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks .....	.6	.8	1.2	3.3	3.5	5.7	3.3	3.4	4.7
Pickup	1.2	1.4	1.9	5.8	5.6	7.8	5.7	5.4	7.2
Minivan	14.6	11.3	18.6	16.1	12.6	20.3	6.7	5.5	8.6
Other light vans	17.5	15.9	30.7	26.1	28.3	43.0	19.3	23.4	26.1
Sport utility	3.9	4.6	9.1	6.2	7.0	15.5	4.8	5.5	8.0
Armored	S	N	N	S	N	N	S	N	N
Beverage	30.2	39.2	55.6	35.3	44.5	70.6	17.3	28.2	36.6
Concrete mixer	10.7	13.5	19.6	12.0	16.1	21.4	7.3	7.6	9.9
Concrete pumper	32.5	N	N	46.5	N	N	33.3	N	N
Crane	34.6	30.2	50.6	S	41.3	S	S	23.2	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	6.8	9.1	14.9	10.5	12.4	16.7	9.1	10.9	11.1
Flatbed, stake, or platform	5.8	13.1	11.7	9.2	20.0	20.7	7.0	10.1	14.1
Low boy	S	32.3	S	S	42.5	S	S	28.3	S
Pole, logging, pulpwood, or pipe	S	34.7	S	S	S	S	S	S	S
Service, utility	14.3	20.5	34.9	18.4	23.2	70.8	11.5	12.2	28.7
Service, other	16.3	39.3	19.1	21.7	29.8	20.4	13.9	18.5	28.5
Street sweeper	48.9	N	N	S	N	N	S	N	N
Tank, dry bulk	35.2	S	S	42.1	S	S	34.5	S	S
Tank, liquids or gases	14.0	14.5	16.1	22.7	20.4	21.2	17.8	15.5	20.5
Tow/Wrecker	28.9	21.3	13.3	41.8	30.0	21.7	28.1	21.5	40.2
Trash, garbage, or recycling	14.8	16.4	26.6	16.1	16.8	20.4	10.2	8.5	9.7
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	9.5	10.5	11.9	12.5	14.4	14.5	8.5	10.3	12.1
Van, insulated nonrefrigerated	41.0	S	S	S	S	S	S	S	S
Van, insulated refrigerated	29.2	28.7	29.2	31.3	29.4	22.9	14.8	14.8	15.7
Van, open top	11.8	9.6	6.8	25.7	13.8	15.3	23.2	11.2	30.0
Van, step, walk-in, or multistop	11.5	19.1	20.0	14.9	19.5	17.7	10.0	7.8	10.2
Van, other	32.9	N	N	42.3	N	N	26.3	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	4.7	3.3	3.7	9.3	5.8	3.2	7.7	4.7	4.2
Automobile carrier	S	43.9	S	S	48.7	S	S	21.1	S
Beverage	33.6	20.2	18.4	35.6	22.8	21.6	19.5	10.7	24.1
Curtainside	S	N	N	S	N	N	S	N	N
Dump	10.7	13.7	21.0	15.8	18.5	22.0	11.6	12.4	12.7
Flatbed, stake, or platform	11.5	11.8	13.8	19.4	16.5	6.0	15.7	11.5	5.4
Livestock	32.5	23.6	17.3	44.7	37.7	3.3	30.5	29.5	5.5
Low boy	17.8	18.2	21.5	24.6	27.5	31.9	16.9	20.5	27.3
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	14.9	13.5	13.6	38.6	23.5	10.4	35.5	19.2	13.7
Pole, logging, pulpwood, or pipe	S	43.9	S	S	S	S	S	S	S
Tank, dry bulk	S	27.0	S	S	32.5	S	S	18.0	S
Tank, liquids or gases	29.4	21.1	15.3	38.8	25.9	7.8	25.2	14.9	11.6
Van, basic enclosed	17.4	12.9	12.4	24.4	15.9	10.9	16.4	9.6	12.4
Van, drop-frame	S	27.0	S	S	33.0	S	S	18.9	S
Van, insulated nonrefrigerated	N	S	S	N	45.8	N	N	S	S
Van, insulated refrigerated	30.6	14.0	11.0	35.5	16.8	4.5	22.1	9.4	8.4
Other	N	N	N	N	N	N	N	N	N
Not applicable ²	35.8	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	9.2	7.5	12.2	12.1	9.5	16.5	7.6	5.5	9.9
5,000 to 9,999	8.4	7.3	12.8	8.7	7.5	13.9	2.1	1.6	2.8
10,000 to 19,999	5.4	5.1	9.5	5.6	5.2	9.9	1.4	1.3	1.9
20,000 to 29,999	12.3	10.5	17.6	12.4	10.6	17.6	1.4	1.5	2.0
30,000 to 49,999	19.0	17.8	36.8	19.2	18.0	35.9	3.1	2.5	3.8
50,000 to 74,999	S	31.7	S	S	32.0	S	S	4.2	S
75,000 or more	33.6	40.6	3.3	36.0	38.5	3.2	5.0	2.8	5.6
Not applicable ¹	23.4	26.1	68.2	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	33.3	15.4	11.3	46.2	25.9	19.5	27.7	19.0	40.2
50 miles or less	2.7	2.6	4.7	4.6	4.4	8.2	3.7	3.6	5.4
51 to 100 miles	15.6	9.8	11.7	17.4	12.2	12.1	8.2	7.6	10.0
101 to 200 miles	26.2	19.5	28.5	31.6	25.1	33.1	17.7	17.1	23.2
201 to 500 miles	38.9	26.5	39.7	42.3	37.3	34.3	17.5	30.5	25.3
501 miles or more	24.3	20.5	36.0	27.8	21.1	24.0	14.9	13.7	12.3
Not reported	15.6	26.1	132.8	18.7	N	N	10.8	N	N
Not applicable ¹	23.4	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	N	N	N	N	N	N	N	N	N
Operated in Mexico	N	N	N	N	N	N	N	N	N
Operated within the home base state	1.9	N	N	3.7	N	N	3.3	N	N
Operated in states other than the home base state	24.1	N	N	30.2	N	N	18.6	N	N
Not reported	16.0	N	N	21.1	N	N	13.9	N	N
Not applicable ¹	23.4	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	3.2	N	N	4.7	N	N	3.4	N	N
7 to 11	10.3	N	N	12.4	N	N	6.9	N	N
2 to 6	11.9	N	N	18.5	N	N	14.0	N	N
1 or less	22.0	N	N	38.5	N	N	31.3	N	N
Vehicle not used	23.4	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light .....	.7	.9	1.4	3.5	3.7	6.1	3.4	3.6	4.9
Medium	21.9	16.8	21.8	16.1	28.7	16.4	9.9	15.7	11.7
Light-heavy	7.0	8.1	10.2	12.2	16.7	20.2	9.9	14.6	18.0
Heavy-heavy	2.8	3.1	3.6	4.4	4.3	2.8	4.1	4.4	3.2
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2.7	1.6	3.1	4.7	4.1	6.0	3.9	3.8	5.2
6,001 to 8,500	9.4	N	N	12.2	N	N	7.6	N	N
8,501 to 10,000	19.2	N	N	23.8	N	N	13.6	N	N
10,001 to 14,000	30.6	23.6	37.3	24.4	37.0	24.0	12.0	20.2	13.2
14,001 to 16,000	13.2	41.4	28.4	17.1	S	S	11.8	S	S
16,001 to 19,500	13.2	28.2	14.7	18.5	S	S	12.6	S	S
19,501 to 26,000	7.0	8.1	10.2	12.2	16.7	20.2	9.9	14.6	18.0
26,001 to 33,000	10.7	10.2	9.7	15.6	14.8	13.7	11.6	12.1	16.3
33,001 to 40,000	11.4	11.7	15.9	17.3	15.8	14.9	14.4	13.1	12.6
40,001 to 50,000	8.0	8.3	9.8	12.2	11.0	7.0	10.3	9.2	6.9
50,001 to 60,000	6.1	6.9	10.2	9.5	10.3	9.4	7.4	8.4	6.8
60,001 to 80,000	5.9	5.6	6.0	8.8	7.8	3.8	6.8	5.5	3.9
80,001 to 100,000	11.6	14.2	21.3	17.5	22.3	13.8	13.1	17.2	9.1
100,001 to 130,000	43.8	N	N	S	N	S	S	N	S
130,001 or more	N	N	N	N	N	N	N	N	N
TOTAL LENGTH (FEET)									
Less than 20.0	1.9	1.0	2.3	4.1	3.7	5.7	3.6	3.6	5.0
20.0 to 27.9	12.9	11.5	74.7	16.5	17.2	120.4	9.3	9.0	15.2
28.0 to 35.9	19.1	21.1	67.4	24.1	28.1	71.6	13.9	14.3	16.3
36.0 to 40.9	38.9	13.9	231.8	36.0	14.7	133.2	19.4	12.2	14.0
41.0 to 44.9	S	19.2	S	S	29.0	S	S	24.8	S
45.0 to 49.9	S	25.8	S	S	33.7	S	S	19.2	S
50.0 to 54.9	15.1	15.4	20.8	19.6	19.6	18.7	16.1	11.3	13.8
55.0 to 59.9	10.7	9.9	11.8	14.5	16.9	9.6	10.3	11.9	8.5
60.0 to 64.9	10.9	9.3	8.6	17.2	11.9	5.4	13.4	9.1	6.9
65.0 to 69.9	16.6	12.0	7.7	26.8	14.0	3.8	21.0	9.9	7.9
70.0 to 74.9	29.4	19.3	12.5	44.1	22.5	1.7	32.7	11.4	3.3
75.0 to 79.9	N	N	N	N	N	N	N	N	N
80.0 or more	N	N	N	N	N	N	N	N	N
MILES PER GALLON									
Less than 5	7.5	21.3	13.9	9.6	21.4	9.9	8.1	7.7	7.7
5 to 6.9	5.6	10.3	6.4	7.8	6.5	3.1	6.3	10.5	6.9
7 to 8.9	7.2	16.9	6.9	10.8	22.0	8.4	8.4	14.3	15.2
9 to 10.9	16.5	10.7	13.2	25.6	15.7	26.4	19.8	11.6	30.1
11 to 12.9	14.6	10.6	14.5	20.1	16.7	15.9	14.1	13.0	14.5
13 to 14.9	17.3	10.8	12.7	21.0	14.7	12.5	12.1	9.7	12.2
15 or more	3.4	3.2	5.8	4.9	5.1	8.9	3.6	4.0	5.4
15 to 20.9	4.5	4.3	8.1	5.9	6.2	11.1	3.9	4.5	5.9
21 to 24.9	15.9	11.5	16.1	18.6	15.2	19.7	9.6	9.9	13.8
25 or more	19.5	20.8	48.9	24.6	25.7	89.0	15.0	15.1	31.1
Not reported	12.2	17.7	290.1	15.3	13.7	506.9	9.3	20.4	40.8
Not applicable ¹	23.4	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicle and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	S	N	N	S	N	N	S	N	N
2002	23.3	N	N	24.7	N	N	9.0	N	N
2001	14.1	N	N	16.0	N	N	7.5	N	N
2000	15.9	N	N	18.8	N	N	10.4	N	N
1999	15.7	N	N	16.9	N	N	7.6	N	N
1998	15.9	S	S	17.6	S	S	7.6	S	S
1997	16.1	17.7	44.1	17.3	19.5	40.6	6.9	10.1	10.3
1996	16.5	13.4	22.2	19.3	14.2	26.4	10.1	6.1	12.4
1995	15.7	14.1	27.0	17.5	16.8	21.4	7.7	9.7	8.5
1994	17.7	13.9	21.4	20.9	18.3	15.0	11.4	12.1	9.5
1993	20.7	16.6	24.6	25.9	20.4	19.7	15.7	12.6	13.0
Pre-1993	6.1	2.7	3.9	11.0	4.8	5.0	9.1	4.0	7.1
VEHICLE ACQUISITION									
New	5.7	5.6	10.7	7.4	7.6	13.8	4.7	5.4	7.0
Used	4.0	3.3	5.9	6.2	5.8	9.7	4.8	4.8	6.8
Not reported	17.2	12.7	18.7	20.8	14.0	15.5	11.8	7.2	9.8
LEASE CHARACTERISTICS									
Leased	16.7	N	N	19.7	N	N	11.0	N	N
Lessee	17.9	N	N	21.4	N	N	12.0	N	N
Vehicle only	11.4	N	N	12.6	N	N	7.0	N	N
Vehicle with driver	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ³	18.7	N	N	22.6	N	N	12.7	N	N
Lessor	18.4	N	N	18.4	N	N	7.9	N	N
Vehicle only	18.8	N	N	18.6	N	N	8.0	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	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	4.2	N	N	6.0	N	N	4.3	N	N
Not reported	5.5	N	N	7.7	N	N	5.4	N	N
Length of leasing agreement:									
Leased	16.7	N	N	19.7	N	N	11.0	N	N
1 to 11 months	S	N	N	S	N	N	S	N	N
12 months or more	9.7	N	N	10.4	N	N	5.5	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ³	17.7	N	N	21.3	N	N	11.9	N	N
Provisions of lease:									
Financing only	10.8	N	N	11.6	N	N	5.9	N	N
Full maintenance	17.4	N	N	17.6	N	N	8.3	N	N
Payment of taxes	17.3	N	N	17.4	N	N	8.2	N	N
Obtaining licenses and permits	18.4	N	N	18.3	N	N	8.0	N	N
Recordkeeping	22.6	N	N	22.3	N	N	8.8	N	N
Fuel contract	27.9	N	N	27.3	N	N	12.5	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	8.2	N	N	11.2	N	N	7.2	N	N
Motor carrier	36.0	N	N	28.8	N	N	15.5	N	N
Owner operator	S	N	N	S	N	N	S	N	N
Rental	37.9	N	N	36.7	N	N	11.0	N	N
Personal transportation	2.6	N	N	4.4	N	N	3.5	N	N
Not applicable ¹	23.4	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	16.4	N	N	18.0	N	N	13.2	N	N
Common	10.8	N	N	12.8	N	N	7.8	N	N
Not reported	17.2	N	N	24.8	N	N	18.0	N	N
Not applicable ⁴ .....	.6	N	N	3.3	N	N	3.3	N	N
Type of service:									
Truckload	11.2	11.4	18.9	14.4	12.9	7.8	10.3	8.8	4.6
Less-than truckload	13.6	15.6	24.4	14.9	16.9	11.0	8.2	11.2	5.7
Not reported	18.1	N	N	25.7	N	N	18.2	N	N
Not applicable ⁴ .....	.6	N	N	3.3	N	N	3.3	N	N
Source of hauls:									
Shippers or receivers	11.3	N	N	12.7	N	N	8.1	N	N
Brokers	35.0	N	N	39.6	N	N	22.9	N	N
Centralized markets or exchanges	39.1	N	N	39.8	N	N	17.3	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	12.3	N	N	17.4	N	N	12.6	N	N
Not applicable ⁴ .....	.6	N	N	3.3	N	N	3.3	N	N
HAZARDOUS MATERIALS CARRIED⁵									
Carrying hazardous materials	16.2	14.0	15.0	19.8	15.3	8.7	14.0	13.5	9.7
Not carrying hazardous materials	1.9	1.6	1.9	4.0	3.8	3.3	3.6	3.6	4.1
Not reported	9.8	10.4	7.2	13.6	17.5	10.1	9.7	14.1	15.4
Not applicable ⁶ .....	.6	N	N	3.4	N	N	3.4	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE ⁷									
Aerial work platform/bucket	23.4	N	N	29.6	N	N	16.8	N	N
Air bag(s) (safety device only)	4.0	7.0	23.0	5.2	8.3	24.4	3.4	4.5	4.9
Air compressor (except air brakes)	11.2	N	N	16.3	N	N	12.5	N	N
Air-conditioning	2.4	2.9	5.4	4.0	4.7	7.9	3.3	3.7	4.4
Air springs	8.4	N	N	12.1	N	N	9.3	N	N
Antilock brake system	4.0	4.7	10.3	5.2	6.4	12.5	3.3	4.2	4.9
Collision warning system	27.7	N	N	31.4	N	N	16.9	N	N
Computerized drive train control unit	11.8	N	N	13.5	N	N	6.4	N	N
Crane	18.1	N	N	22.9	N	N	13.8	N	N
Electronic vehicle identification device	24.8	30.9	40.4	28.1	30.1	29.7	17.6	20.2	18.9
Engine retarder/brake	4.1	4.5	5.8	6.4	6.0	3.7	5.1	5.0	3.2
Front-wheel drive	3.1	7.9	33.9	4.9	10.2	37.7	3.9	6.3	6.2
Hoist	6.3	N	N	12.9	N	N	11.5	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	21.9	N	N	24.9	N	N	17.4	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	11.8	N	N	14.7	N	N	8.7	N	N
Mounting bar for snowplow	33.6	N	N	S	N	N	S	N	N
Navigational system	S	S	S	S	49.0	S	S	S	S
Power take-off	4.1	N	N	6.7	N	N	5.9	N	N
Radial tires	3.2	2.0	3.6	4.9	3.8	5.5	3.8	3.4	4.6
Reflective material in addition to those required by law	8.3	6.6	5.5	11.1	7.9	4.0	7.6	6.6	5.7
Road speed governor	6.0	5.7	6.6	7.7	6.6	4.6	5.4	5.8	4.5
Toolbox	12.8	N	N	17.1	N	N	11.6	N	N
Trip recorder or on-board computer with communication capabilities	23.0	N	N	26.4	N	N	13.3	N	N
Trip recorder or on-board computer without communication capabilities	10.3	N	N	11.9	N	N	6.1	N	N
Vehicle control aids for handicapped drivers	S	S	S	S	S	S	S	S	S
Wheelchair lift	N	S	S	N	S	S	N	S	S
Winch	33.1	N	N	46.0	N	N	34.8	N	N
Transmission type:									
Automatic	3.0	N	N	4.7	N	N	3.6	N	N
Manual	6.6	N	N	9.8	N	N	7.3	N	N
Semiautomated manual	43.3	N	N	S	N	N	S	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	22.3	N	N	27.8	N	N	17.3	N	N
Braking system:									
Hydraulic (standard)	4.3	5.9	8.4	8.5	12.3	18.7	7.3	10.6	14.0
Hydraulic with power assist	5.5	5.4	4.7	9.0	8.6	7.7	7.2	6.3	9.7
Air	3.0	3.0	3.6	4.9	4.8	3.0	4.1	4.6	3.3
Other	N	34.5	N	N	S	S	N	S	S
Not reported	13.3	N	N	15.5	N	N	9.0	N	N
Not applicable ⁹	.6	N	N	3.5	N	N	3.4	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	1.6	1.1	2.1	3.7	3.7	6.0	3.4	3.6	5.1
Diesel	12.9	11.2	27.8	14.3	11.7	18.5	8.3	6.4	6.5
Natural gas	N	N	N	N	N	N	N	N	N
Propane	31.2	N	N	42.5	N	N	28.9	N	N
Alcohol fuels	N	N	N	N	N	N	N	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	44.1	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	23.4	N	N	S	N	N	S	N	N
Cylinders ⁹ :									
4 cylinders	13.1	9.3	13.1	17.2	12.0	16.8	11.3	7.7	13.4
6 cylinders	4.7	4.6	8.9	5.9	6.3	11.7	3.8	4.7	6.0
8 cylinders	5.2	4.5	7.9	8.1	7.3	11.0	6.2	5.7	7.4
Other	20.2	14.2	29.1	32.6	20.2	70.7	22.3	17.7	44.6
Cubic inch displacement ⁹ :									
Gasoline fuel	1.6	1.1	2.1	3.7	3.7	6.0	3.4	3.6	5.1
Less than 200	8.3	6.6	10.8	10.2	8.9	14.1	6.0	6.0	8.7
200 to 299	6.4	6.8	14.6	7.8	9.1	20.6	4.6	6.2	8.5
300 to 349	12.0	9.9	16.1	15.1	13.7	17.8	9.3	9.3	11.0
350 to 399	10.9	7.8	11.3	15.7	11.9	17.3	11.1	8.9	14.9
400 or more	17.6	15.4	27.9	22.2	22.3	24.7	14.2	16.3	14.2
Not available	26.2	14.9	16.1	36.9	34.8	21.0	23.6	30.3	29.8
Diesel fuel	12.9	11.2	27.8	14.3	11.7	18.5	8.3	6.4	6.5
Less than 400	25.0	26.7	68.7	24.3	33.7	47.1	10.4	20.8	14.0
400 to 599	20.2	21.1	62.2	23.0	25.1	55.4	12.9	10.0	12.5
600 to 799	5.9	7.3	13.4	7.5	10.6	12.9	5.2	7.6	6.4
800 or more	5.4	4.8	4.9	9.3	7.1	2.8	7.9	5.5	3.4
Not available	7.8	6.6	5.5	14.1	10.7	4.1	12.9	10.2	7.1
Other fuel	42.1	48.5	141.2	S	S	S	S	S	S
Less than 400	S	S	S	S	S	S	S	S	S
400 or more	S	49.6	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	23.4	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
REFUELING LOCATION									
Gas station	1.6	N	N	3.7	N	N	3.3	N	N
Truck stop	38.2	N	N	43.2	N	N	26.2	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	17.5	N	N	18.2	N	N	12.3	N	N
Other company's/contractor's facility not open to the public	S	N	N	24.6	N	N	S	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	24.8	N	N	27.4	N	N	11.3	N	N
Not applicable ¹	23.4	N	N	S	N	N	S	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	21.9	46.8	359.2	33.2	S	S	24.8	S	S
Company-owned maintenance facility	13.5	11.6	23.0	16.7	13.7	25.5	10.3	9.4	12.7
General repair business or private mechanic ..	5.3	5.3	10.4	7.0	7.6	14.6	4.5	5.5	7.3
Dealership service department	7.7	7.2	13.3	9.2	8.9	15.3	5.1	5.4	7.0
Leasing company	23.8	S	S	26.4	21.1	10.7	14.9	S	S
Individual not employed/paid by any maintenance type facility									
Other	5.8	3.7	5.9	8.0	6.3	8.6	5.3	5.0	7.2
Other	N	37.2	N	N	44.9	N	N	25.4	N
Not reported	23.4	26.0	76.5	27.6	29.7	89.3	14.4	16.2	21.9
Not applicable ¹	23.4	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	2.4	14.5	198.2	4.3	19.9	329.5	3.6	13.5	16.7
Company-owned maintenance facility	40.1	17.4	15.0	S	16.7	S	S	10.4	S
General repair business or private mechanic ..	15.0	8.1	8.7	18.8	12.2	12.3	11.3	9.2	15.9
Dealership service department	19.6	10.1	10.1	21.8	11.8	12.0	9.8	6.7	12.5
Leasing company	S	S	S	S	45.6	S	S	S	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	S	24.2	S	S	24.2	S	S	12.1	S
Other	22.6	11.2	10.5	28.4	18.3	20.3	17.0	14.4	32.2
Other	N	37.2	N	N	S	S	N	S	S
Not reported	S	4.1	S	S	6.2	S	S	4.6	S
Not applicable ¹	23.4	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
1 axle	1.0	1.0	1.6	3.5	3.6	5.9	3.3	3.5	4.8
2 axles	1.0	1.0	1.7	3.5	3.7	5.9	3.3	3.5	4.8
3 axles	4.3	5.4	6.0	7.4	7.4	7.5	6.4	6.3	7.4
4 axles	14.5	25.2	68.5	16.4	28.4	82.7	7.6	13.2	16.3
5 axles or more	S	N	N	S	N	N	S	N	N
Not reported	43.8	N	N	S	N	N	S	N	S
Combinations									
Single-unit trucks with trailer	21.0	16.9	34.7	25.4	15.4	21.2	16.3	8.8	10.3
3 axles	24.4	23.8	53.3	31.7	29.5	48.0	20.2	14.9	17.9
4 axles	47.0	S	S	S	S	S	S	S	S
5 axles or more	29.5	28.8	62.7	36.5	36.0	45.5	22.2	18.4	16.8
Not reported	16.1	19.7	15.1	20.2	24.3	15.7	12.2	20.3	19.7
Truck-tractors with single trailer	4.7	3.4	3.6	9.4	5.9	3.3	7.7	4.8	4.3
3 axles	28.0	17.6	17.9	32.8	26.9	15.6	12.5	19.5	15.8
4 axles	20.0	15.3	14.1	39.2	28.9	28.0	29.0	20.4	36.2
5 axles or more	5.1	3.9	3.8	9.1	6.3	2.7	7.7	4.9	3.8
Not reported	22.0	N	N	32.5	N	N	24.0	N	N
Truck-tractors with double trailers	S	37.0	S	S	44.2	S	S	24.2	S
5 axles	S	S	S	S	S	S	S	S	S
6 axles	N	S	S	N	S	S	N	S	S
7 axles	N	49.1	N	N	N	S	N	S	S
8 axles or more	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Truck-tractors with triple trailers	N	N	N	N	N	N	N	N	N
7 axles	N	N	N	N	N	N	N	N	N
8 axles	N	N	N	N	N	N	N	N	N
9 axles	N	N	N	N	N	N	N	N	N
10 axles or more	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Driving axles:									
1	6.4	4.0	6.1	9.1	7.1	9.4	6.4	5.7	8.7
2	3.0	3.6	7.1	4.8	5.2	9.8	3.8	3.9	5.0
3 or more	36.9	31.0	27.4	S	45.2	S	S	32.2	S
Not reported	39.9	N	N	S	N	S	S	N	S
Total liftable axles and locations:									
None .....	.9	4.3	10.1	3.4	7.3	13.8	3.3	6.6	5.5
1	13.4	27.7	44.9	14.3	26.4	60.6	8.5	24.0	35.3
Forward of the drive axle	43.8	N	N	S	N	N	S	N	N
Below the chassis	S	N	N	S	N	N	S	N	N
Beyond the chassis	14.7	N	N	16.1	N	N	6.5	N	N
Not reported	43.7	N	N	45.8	N	N	13.6	N	N
2 or more	S	S	S	S	S	S	S	S	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	43.8	N	N	S	N	N	S	N	N
Not applicable ⁶ .....	.6	N	N	3.5	N	N	3.4	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
TRUCK TYPE AND AXLE ARRANGEMENT—Con.									
Total liftable axles and number of braking axles:									
None .....	.9	4.3	10.1	3.4	7.3	13.8	3.3	6.6	5.5
1	13.4	27.7	44.9	14.3	26.4	60.6	8.5	24.0	35.3
0 braking	43.7	N	N	47.1	N	N	17.5	N	N
1 braking	14.2	N	N	15.1	N	N	9.1	N	N
Not reported	N	N	N	N	N	N	N	N	N
2 or more	S	S	S	S	S	S	S	S	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	43.8	N	N	S	N	N	S	N	N
Not applicable ⁸ .....	.6	N	N	3.5	N	N	3.4	N	N
CAB TYPE									
Conventional cab	1.3	2.1	2.3	3.7	4.1	3.7	3.5	3.8	3.8
With sleeper	11.6	N	N	18.0	N	N	13.9	N	N
Without sleeper	1.4	N	N	3.9	N	N	3.6	N	N
Not reported	N	N	N	N	N	N	N	N	N
Cab over engine	6.7	7.9	9.5	9.4	11.0	11.4	6.9	8.3	9.4
With sleeper	17.7	N	N	S	N	N	S	N	N
Without sleeper	7.2	N	N	9.6	N	N	6.9	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	N	18.6	N	N	23.4	N	N	14.7	N
Cab beside engine	S	37.9	S	S	S	S	S	S	S
Not reported	37.0	N	N	S	N	N	S	N	N
Not applicable ⁹ .....	.6	N	N	3.5	N	N	3.4	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	71.1	89.7	-20.7	836.3	1 399.3	-40.2	11.8	15.6	-24.6
BUSINESS¹									
For-hire transportation or warehousing	5.4	6.4	-15.2	101.9	323.4	-68.5	18.8	50.7	-62.8
Vehicle leasing or rental	2.4	3.4	-30.3	52.5	59.7	-12.0	22.0	17.4	26.2
Agriculture, forestry, fishing, or hunting	14.9	21.3	-29.9	60.9	140.0	-56.5	4.1	6.6	-37.9
Mining	1.0	1.5	-32.6	13.7	11.6	17.5	13.9	8.0	74.3
Utilities	3.8	4.4	-15.1	41.6	32.0	29.9	11.0	7.2	53.0
Construction	17.9	20.5	-12.7	220.4	270.2	-18.4	12.3	13.2	-6.5
Manufacturing	2.6	2.0	29.3	47.7	39.8	19.8	18.6	20.1	-7.3
Wholesale trade	2.8	4.5	-38.0	55.5	152.0	-63.5	19.7	33.5	-41.2
Retail trade	4.6	6.9	-33.4	85.6	127.3	-32.7	18.6	18.4	1.0
Information services .....	.7	N	N	8.0	N	N	11.1	N	N
Waste management, landscaping, or administrative/support services	3.7	N	N	60.7	N	N	16.2	N	N
Arts, entertainment, or recreation services .....	.5	N	N	1.9	N	N	4.0	N	N
Accommodation or food services	1.8	N	N	28.5	N	N	16.0	N	N
Other services	2.1	N	N	28.6	N	N	13.5	N	N
Personal transportation	S	3.0	S	S	S	S	S	S	S
Not reported	2.2	V	N	26.8	V	N	12.4	V	N
Not applicable ²	4.5	3.1	45.9	.5	S	S	.1	S	S
BODY TYPE									
Single-unit trucks	62.4	76.1	-18.0	664.4	812.3	-18.2	10.6	10.7	-2
Armored	S	N	N	S	N	N	S	N	N
Beverage .....	.8	.7	12.4	13.8	11.1	24.3	17.3	15.7	10.6
Concrete mixer	2.1	1.8	14.3	37.9	35.5	6.6	18.0	19.3	-6.8
Concrete pumper .....	.2	N	N	4.3	N	N	19.2	N	N
Crane .....	.6	.5	10.2	S	6.2	S	S	11.3	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	11.0	8.4	31.1	66.2	64.5	2.6	6.0	7.7	-21.7
Flatbed, stake, or platform	16.1	19.7	-18.1	176.5	188.1	-6.1	10.9	9.6	14.5
Low boy	S	1.1	S	S	12.2	S	S	11.3	S
Pole, logging, pulpwood, or pipe	S	.2	S	S	S	S	S	S	S
Service, utility	3.7	2.7	39.8	42.7	17.8	139.5	11.5	6.7	71.3
Service, other	2.7	6.1	-55.2	31.7	57.3	-44.6	11.6	9.4	23.5
Street sweeper .....	.1	N	N	S	N	N	S	N	N
Tank, dry bulk .....	.4	S	S	1.7	S	S	4.4	S	S
Tank, liquids or gases	3.2	4.0	-20.1	21.1	30.5	-30.7	6.7	7.7	-13.3
Tow/Wrecker .....	.9	2.4	-62.9	18.0	42.8	-57.9	20.5	18.0	13.5
Trash, garbage, or recycling	1.9	1.6	20.6	39.4	45.0	-12.4	20.8	28.7	-27.3
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	6.9	8.3	-16.2	90.4	118.6	-23.8	13.1	14.4	-9.1
Van, insulated nonrefrigerated .....	.4	S	S	S	S	S	S	S	S
Van, insulated refrigerated .....	.8	1.1	-28.6	15.8	29.5	-46.6	20.0	26.7	-25.2
Van, open top	4.0	9.0	-55.1	7.8	15.0	-47.7	1.9	1.7	16.7
Van, step, walk-in, or multistop	5.3	6.0	-10.3	68.5	95.3	-28.1	12.8	16.0	-19.8
Van, other .....	.7	N	N	12.7	N	N	17.7	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	8.7	13.6	-36.1	171.9	587.0	-70.7	19.8	43.3	-54.2
Automobile carrier	S	.2	S	S	9.7	S	S	61.4	S
Beverage .....	.3	.7	-53.0	5.9	11.6	-49.0	17.2	15.9	8.4
Curtainside	S	N	N	S	N	N	S	N	N
Dump	1.8	1.5	20.9	44.1	48.9	-9.7	24.0	32.1	-25.3
Flatbed, stake, or platform	1.7	2.0	-16.0	18.1	77.0	-76.5	10.8	38.6	-72.1
Livestock .....	.2	.5	-57.0	1.0	18.2	-94.4	4.4	33.8	-87.1
Low boy .....	.7	.9	-15.6	15.1	17.5	-13.4	20.3	19.7	2.6
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	1.0	1.6	-32.4	10.7	46.6	-77.0	10.2	30.0	-66.0
Pole, logging, pulpwood, or pipe	S	.2	S	S	S	S	S	S	S
Tank, dry bulk	S	4	S	S	27.1	S	S	65.8	S
Tank, liquids or gases .....	.3	.7	-57.9	8.0	48.2	-83.4	28.6	72.3	-60.5
Van, basic enclosed	1.4	2.5	-42.9	52.2	139.7	-62.6	36.3	55.6	-34.6
Van, drop-frame	S	.4	S	S	13.4	S	S	32.6	S
Van, insulated nonrefrigerated	V	S	S	V	15.6	N	V	S	S
Van, insulated refrigerated .....	.5	1.5	-67.2	12.0	104.0	-88.5	25.1	71.3	-64.9
Other	V	N	N	V	N	N	V	N	N
Not applicable ³ .....	.3	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	25.5	31.1	-17.9	39.6	45.4	-12.7	1.6	1.5	6.3
5,000 to 9,999	10.8	14.3	-24.5	76.0	94.6	-19.7	7.1	6.6	6.4
10,000 to 19,999	13.6	19.4	-29.9	189.9	264.7	-28.3	13.9	13.6	2.3
20,000 to 29,999	9.1	8.0	14.7	212.5	186.0	14.3	23.3	23.4	-4
30,000 to 49,999	5.8	7.6	-24.1	202.9	276.5	-26.6	35.2	36.4	-3.3
50,000 to 74,999	1.4	3.0	-53.1	79.5	175.9	-54.8	56.4	58.6	-3.7
75,000 or more .....	.3	3.3	-89.5	35.3	356.2	-90.1	103.0	109.6	-6.0
Not applicable ²	4.5	3.1	47.4	.5	V	N	.1	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	4.6	9.4	-51.7	16.0	23.9	-32.9	3.5	2.5	38.9
50 miles or less	44.4	48.2	-7.9	521.0	540.4	-3.6	11.7	11.2	4.7
51 to 100 miles	8.6	15.4	-44.4	138.8	282.7	-50.9	16.2	18.3	-11.8
101 to 200 miles	2.1	3.8	-45.3	38.7	142.7	-72.9	18.8	37.9	-50.4
201 to 500 miles .....	.9	5.3	-82.6	20.3	211.7	-90.4	21.9	39.8	-45.0
501 miles or more .....	.7	S	S	S	198.0	S	S	S	S
Not reported	5.4	3.1	75.2	78.4	V	N	14.6	V	N
Not applicable ²	4.5	N	N	.5	N	N	.1	N	N
PRIMARY JURISDICTION									
Operated in Canada	V	N	N	V	N	N	V	N	N
Operated in Mexico	V	N	N	V	N	N	V	N	N
Operated within the home base state	60.9	N	N	745.3	N	N	12.2	N	N
Operated in states other than the home base state	1.2	N	N	27.0	N	N	22.3	N	N
Not reported	4.5	N	N	63.4	N	N	14.1	N	N
Not applicable ²	4.5	N	N	.5	N	N	.1	N	N
MONTHS OPERATED									
12	34.3	N	N	609.7	N	N	17.8	N	N
7 to 11	10.7	N	N	133.0	N	N	12.5	N	N
2 to 6	13.7	N	N	84.9	N	N	6.2	N	N
1 or less	7.8	N	N	8.1	N	N	1.0	N	N
Vehicle not used	4.5	N	N	.5	N	N	.1	N	N
VEHICLE SIZE									
Light	12.5	22.0	-43.1	114.8	235.0	-51.1	9.2	10.7	-14.2
Medium	17.0	20.5	-17.0	208.9	201.9	3.5	12.3	9.8	24.7
Light-heavy	12.5	13.1	-4.4	145.5	149.1	-2.4	11.6	11.4	2.1
Heavy-heavy	29.0	34.1	-14.8	367.1	813.4	-54.9	12.6	23.9	-47.0
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	1.5	6.0	-74.1	13.6	39.1	-65.2	8.8	6.6	34.4
6,001 to 8,500	4.8	N	N	46.2	N	N	9.7	N	N
8,501 to 10,000	6.2	N	N	55.0	N	N	8.9	N	N
10,001 to 14,000	9.2	10.8	-14.4	108.3	113.4	-4.6	11.8	10.5	11.5
14,001 to 16,000	3.8	3.4	9.0	43.1	35.5	21.5	11.5	10.3	11.4
16,001 to 19,500	4.1	6.3	-35.6	57.5	53.0	8.6	14.1	8.4	68.5
19,501 to 26,000	12.5	13.1	-4.4	145.5	149.1	-2.4	11.6	11.4	2.1
26,001 to 33,000	5.6	8.5	-34.2	47.7	74.9	-36.3	8.5	8.8	-3.2
33,001 to 40,000	3.8	3.9	-2.4	33.1	52.2	-36.5	8.8	13.5	-35.0
40,001 to 50,000	5.4	6.4	-15.3	49.0	115.6	-57.6	9.1	18.2	-50.0
50,001 to 60,000	6.7	6.1	10.2	76.0	112.9	-32.6	11.3	18.5	-38.9
60,001 to 80,000	5.8	7.8	-26.2	132.9	408.7	-67.5	23.0	52.2	-55.9
80,001 to 100,000	1.6	1.4	15.9	23.8	49.0	-51.4	14.5	34.5	-58.1
100,001 to 130,000 .....	.1	V	N	S	V	S	S	V	S
130,001 or more	V	V	N	V	V	N	V	V	N
TOTAL LENGTH (FEET)									
Less than 20.0	18.6	31.7	-41.2	195.4	309.6	-36.9	10.5	9.8	7.4
20.0 to 27.9	26.8	29.5	-9.2	239.1	287.7	-16.9	8.9	9.8	-8.5
28.0 to 35.9	11.8	11.7	.4	152.5	162.5	-6.1	13.0	13.9	-6.5
36.0 to 40.9	3.8	3.0	24.8	67.2	52.2	28.8	17.9	17.3	3.2
41.0 to 44.9	1.6	1.3	21.5	19.5	30.1	-35.1	12.5	23.4	-46.6
45.0 to 49.9	1.2	.8	54.8	22.8	18.0	27.0	18.9	23.0	-17.9
50.0 to 54.9	1.5	1.5	-3.6	26.5	39.2	-32.4	18.1	25.8	-29.9
55.0 to 59.9	2.6	3.2	-19.4	49.3	113.7	-56.7	19.0	35.3	-46.2
60.0 to 64.9	2.2	3.7	-39.9	44.9	175.1	-74.3	20.4	47.7	-57.3
65.0 to 69.9 .....	.9	2.3	-62.7	17.0	133.5	-87.3	19.9	58.6	-66.0
70.0 to 74.9 .....	.3	.8	-64.4	2.1	61.8	-96.6	7.4	78.2	-90.6
75.0 to 79.9	V	N	N	V	N	N	V	N	N
80.0 or more	V	N	N	V	N	N	V	N	N
MILES PER GALLON									
Less than 5	7.0	9.0	-22.7	101.1	193.3	-47.7	14.5	21.5	-32.4
5 to 6.9	13.6	22.5	-39.7	169.1	543.9	-68.9	12.5	24.2	-48.5
7 to 8.9	10.6	18.7	-43.3	115.8	226.1	-48.8	10.9	12.1	-9.7
9 to 10.9	10.9	13.9	-21.6	128.5	154.9	-17.1	11.8	11.2	5.8
11 to 12.9	6.6	7.6	-13.2	82.0	83.3	-1.6	12.4	10.9	13.3
13 to 14.9	2.0	1.7	18.2	26.1	16.2	61.5	12.9	9.4	36.6
15 or more	3.4	6.0	-42.5	39.8	85.7	-53.6	11.6	14.4	-19.3
15 to 20.9	3.4	5.8	-41.0	39.8	84.6	-52.9	11.6	14.5	-20.3
21 to 24.9	V	V	N	V	V	N	V	V	N
25 or more	V	S	S	V	S	S	V	S	S
Not reported	12.5	10.3	21.1	173.4	96.0	80.7	13.9	9.3	49.2
Not applicable ²	4.5	N	N	.5	N	N	.1	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	S	N	N	S	N	N	S	N	N
2002	1.2	N	N	32.1	N	N	27.8	N	N
2001	2.3	N	N	43.2	N	N	18.6	N	N
2000	4.6	N	N	109.4	N	N	23.7	N	N
1999	4.3	N	N	110.3	N	N	25.5	N	N
1998	2.4	S	S	46.9	S	S	19.7	S	S
1997	3.2	4.1	-21.8	69.6	136.3	-48.9	21.5	32.9	-34.7
1996	2.2	3.1	-28.7	39.4	109.1	-63.9	17.7	34.9	-49.3
1995	4.0	5.8	-30.3	54.7	159.5	-65.7	13.6	27.7	-50.8
1994	3.4	3.6	-6.0	52.9	116.5	-54.6	15.7	32.6	-51.7
1993	2.3	1.7	30.3	27.1	60.6	-55.3	12.0	35.0	-65.7
Pre-1993	41.1	71.1	-42.2	248.3	815.1	-69.5	6.0	11.5	-47.3
VEHICLE ACQUISITION									
New	24.8	28.1	-11.5	445.5	598.1	-25.5	17.9	21.3	-15.8
Used	43.6	51.5	-15.4	353.6	516.1	-31.5	8.1	10.0	-19.0
Not reported	2.7	10.1	-73.6	37.1	285.1	-87.0	13.9	28.2	-50.7
LEASE CHARACTERISTICS									
Leased	6.2	N	N	144.1	N	N	23.4	N	N
Lessee	4.3	N	N	94.3	N	N	22.0	N	N
Vehicle only	4.3	N	N	94.3	N	N	22.0	N	N
Vehicle with driver	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Lessor	1.8	N	N	49.4	N	N	26.7	N	N
Vehicle only	1.8	N	N	48.5	N	N	27.0	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 leased	42.8	N	N	478.9	N	N	11.2	N	N
Not reported	22.1	N	N	213.3	N	N	9.7	N	N
Length of leasing agreement:									
Leased	6.2	N	N	144.1	N	N	23.4	N	N
1 to 11 months	S	N	N	S	N	N	S	N	N
12 months or more	6.0	N	N	140.3	N	N	23.4	N	N
Not reported	V	N	N	V	N	N	V	N	N
Provisions of lease ⁴ :									
Financing only	4.8	N	N	112.8	N	N	23.5	N	N
Full maintenance	2.1	N	N	49.6	N	N	23.4	N	N
Payment of taxes	2.1	N	N	48.2	N	N	23.1	N	N
Obtaining licenses and permits	1.8	N	N	43.7	N	N	23.6	N	N
Recordkeeping	1.3	N	N	31.7	N	N	24.7	N	N
Fuel contract .....	.8	N	N	20.1	N	N	25.5	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	54.2	N	N	606.5	N	N	11.2	N	N
Motor carrier	6.7	N	N	126.8	N	N	18.9	N	N
Owner operator	2.5	N	N	38.4	N	N	15.6	N	N
Rental	2.9	N	N	62.4	N	N	21.2	N	N
Personal transportation	S	N	N	S	N	N	S	N	N
Not applicable ²	4.5	N	N	.5	N	N	.1	N	N
For-hire characteristics:									
Type of carrier:									
Contract	2.1	N	N	43.6	N	N	20.4	N	N
Common	4.9	N	N	91.0	N	N	18.4	N	N
Not reported	2.1	N	N	30.5	N	N	14.5	N	N
Not applicable ⁵	61.9	N	N	671.0	N	N	10.8	N	N
Type of service:									
Truckload	3.5	3.0	18.1	73.0	181.7	-59.8	20.7	60.8	-66.0
Less-than truckload	3.8	3.2	17.9	62.7	128.6	-51.2	16.6	40.2	-58.6
Not reported	1.9	N	N	29.5	N	N	15.6	N	N
Not applicable ⁵	61.9	N	N	671.0	N	N	10.8	N	N
Source of hauls:									
Shippers or receivers	4.7	N	N	93.5	N	N	19.7	N	N
Brokers .....	.5	N	N	8.2	N	N	17.8	N	N
Centralized markets or exchanges .....	.3	N	N	7.1	N	N	20.5	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	3.6	N	N	56.5	N	N	15.5	N	N
Not applicable ⁵	61.9	N	N	671.0	N	N	10.8	N	N
HAZARDOUS MATERIALS CARRIED⁶									
Carrying hazardous materials	2.5	3.6	-30.1	40.3	115.3	-65.1	15.9	31.7	-50.0
Not carrying hazardous materials	54.3	71.9	-24.4	657.4	1 087.6	-39.6	12.1	15.1	-20.0
Not reported	6.5	9.5	-31.4	74.1	150.3	-50.7	11.4	15.8	-28.1
Not applicable ⁷	7.7	N	N	64.5	N	N	8.4	N	N
EQUIPMENT TYPE⁴									
Aerial work platform/bucket	1.4	N	N	10.8	N	N	7.8	N	N
Air bag(s) (safety device only)	6.2	6.9	-9.9	125.7	238.7	-47.4	20.3	34.8	-41.6
Air compressor (except air brakes)	4.1	N	N	54.2	N	N	13.3	N	N
Air-conditioning	26.6	29.2	-9.2	510.2	842.1	-39.4	19.2	28.8	-33.3
Air springs	4.2	N	N	81.6	N	N	19.2	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	14.1	10.1	40.0	301.2	268.5	12.2	21.4	26.7	-19.9
Collision warning system	1.0	N	N	15.2	N	N	15.7	N	N
Computerized drive train control unit	1.4	N	N	27.7	N	N	20.1	N	N
Crane	2.1	N	N	27.2	N	N	12.9	N	N
Electronic vehicle identification device .....	.8	.8	2.0	20.4	28.2	-27.9	25.7	36.5	-29.4
Engine retarder/brake	13.4	14.0	-4.8	219.5	516.9	-57.5	16.4	36.9	-55.4
Front-wheel drive	V	S	S	V	S	S	V	S	S
Hoist	13.2	N	N	78.0	N	N	5.9	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	1.1	N	N	24.0	N	N	21.3	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	4.6	N	N	75.9	N	N	16.4	N	N
Mounting bar for snowplow	1.2	N	N	5.5	N	N	4.8	N	N
Navigational system	S	S	S	S	14.6	S	S	S	S
Power take-off	23.0	N	N	232.9	N	N	10.1	N	N
Radial tires	40.6	58.6	-30.8	569.2	1 167.1	-51.2	14.0	19.9	-29.6
Reflective material in addition to those required by law	7.7	14.9	-48.3	109.4	373.9	-70.7	14.2	25.0	-43.4
Road speed governor	13.5	16.9	-20.1	225.3	496.1	-54.6	16.6	29.3	-43.1
Toolbox	19.3	N	N	274.9	N	N	14.2	N	N
Trip recorder or on-board computer with communication capabilities	2.1	N	N	31.1	N	N	14.8	N	N
Trip recorder or on-board computer without communication capabilities	1.5	N	N	32.4	N	N	21.9	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	3.2	N	N	47.4	N	N	14.8	N	N
Transmission type:									
Automatic	18.4	N	N	246.4	N	N	13.4	N	N
Manual	49.1	N	N	532.4	N	N	10.9	N	N
Semiautomated manual .....	.4	N	N	S	N	N	S	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	3.1	N	N	48.8	N	N	15.7	N	N
Braking system:									
Hydraulic (standard)	24.1	20.9	15.2	231.7	184.9	25.3	9.6	8.9	8.7
Hydraulic with power assist	17.6	28.9	-39.3	177.6	288.8	-38.5	10.1	10.0	1.3
Air	25.7	31.1	-17.3	365.1	824.6	-55.7	14.2	26.5	-46.4
Other	V	.6	N	V	S	S	V	S	S
Not reported	3.7	N	N	61.8	N	N	16.5	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	25.2	43.7	-42.4	177.9	335.7	-47.0	7.1	7.7	-8.0
Diesel	40.3	43.3	-6.9	650.3	1 038.3	-37.4	16.1	24.0	-32.7
Natural gas	V	N	N	V	N	N	V	N	N
Propane .....	.8	N	N	6.0	N	N	7.2	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	4.5	N	N	.5	N	N	.1	N	N
Cylinders ⁸ :									
4 cylinders	2.5	1.5	65.9	41.5	27.9	48.4	16.7	18.7	-10.5
6 cylinders	29.0	29.3	-1.0	509.7	888.4	-42.6	17.6	30.4	-42.0
8 cylinders	24.6	32.7	-24.7	243.5	347.0	-29.8	9.9	10.6	-6.8
Other	15.0	26.2	-42.7	41.6	136.0	-69.4	2.8	5.2	-46.6
Cubic inch displacement ⁸ :									
Gasoline fuel	25.2	43.7	-42.4	177.9	335.7	-47.0	7.1	7.7	-8.0
Less than 200	S	S	S	S	S	S	S	S	S
200 to 299	1.0	.8	28.9	10.7	18.1	-40.8	10.4	22.7	-54.1
300 to 349 .....	.5	S	S	6.6	S	S	13.1	S	S
350 to 399	8.3	10.6	-21.8	67.3	109.8	-38.7	8.1	10.3	-21.7
400 or more	6.1	9.0	-31.7	67.9	119.7	-43.3	11.0	13.3	-16.9
Not available	9.0	18.8	-52.0	21.6	49.8	-56.7	2.4	2.7	-9.8
Diesel fuel	40.3	43.3	-6.9	650.3	1 038.3	-37.4	16.1	24.0	-32.7
Less than 400	8.2	6.4	27.9	125.9	112.4	12.1	15.3	17.5	-12.4
400 to 599	13.6	12.7	7.1	244.0	223.7	9.1	17.9	17.6	1.9
600 to 799	6.9	4.8	42.5	149.0	150.8	-1.2	21.7	31.3	-30.7
800 or more	6.1	9.0	-31.9	96.9	398.3	-75.7	15.8	44.2	-64.3
Not available	5.5	10.4	-46.9	34.5	153.1	-77.5	6.3	14.8	-57.6
Other fuel	1.0	1.3	-24.2	7.6	18.8	-59.7	7.5	14.1	-46.9
Less than 400 .....	.4	.5	-19.9	S	S	S	S	S	S
400 or more .....	.5	.5	1.9	S	S	S	10.3	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	4.5	N	N	.5	N	N	.1	N	N
REFUELING LOCATION									
Gas station	31.7	N	N	400.1	N	N	12.6	N	N
Truck stop	5.3	N	N	88.3	N	N	16.8	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	26.2	N	N	298.6	N	N	11.4	N	N
Other company's/contractor's facility not open to the public	2.6	N	N	41.1	N	N	16.0	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported .....	.9	N	N	7.7	N	N	8.5	N	N
Not applicable ²	4.5	N	N	.5	N	N	.1	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁴									
General maintenance performed by:									
None performed	1.7	.6	179.3	3.2	S	S	1.9	S	S
Company-owned maintenance facility	29.2	37.6	-22.3	452.2	730.0	-38.1	15.5	19.4	-20.3
General repair business or private mechanic	20.0	16.5	21.5	268.0	295.3	-9.3	13.4	17.9	-25.3
Dealership service department	5.7	6.1	-6.9	100.1	195.9	-48.9	17.6	32.1	-45.1
Leasing company	1.2	1.7	-27.2	22.4	62.3	-64.1	18.7	37.8	-50.6
Individual not employed/paid by any maintenance type facility									
Other	16.9	35.1	-51.9	120.0	341.2	-64.8	7.1	9.7	-26.9
Not reported	V	S	S	V	S	S	V	S	S
Not applicable ² .....	.9	4.5	-80.2	6.6	69.7	-90.5	7.4	15.3	-52.0
Not applicable ²	4.5	N	N	.5	N	N	.1	N	N
Extensive repairs performed by:									
None performed	49.3	2.2	2 124.8	582.4	11.4	5 013.3	11.8	5.1	129.8
Company-owned maintenance facility	4.5	20.7	-78.1	71.9	360.0	-80.0	15.9	17.4	-8.8
General repair business or private mechanic	6.4	15.6	-58.9	79.9	236.4	-66.2	12.5	15.1	-17.8
Dealership service department	3.0	11.3	-73.3	59.4	343.2	-82.7	19.8	30.5	-35.1
Leasing company	S	.9	S	S	35.6	S	S	39.4	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility .....	.2	4.0	-94.7	S	116.2	S	S	29.1	S
Other	1.5	10.6	-85.8	13.2	84.8	-84.5	8.8	8.0	9.1
Not reported	V	.1	N	V	S	S	V	S	S
Not applicable ²	S	31.5	S	S	396.7	S	S	12.6	S
Not applicable ²	4.5	N	N	.5	N	N	.1	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	59.3	70.9	-16.4	615.0	747.4	-17.7	10.4	10.5	-1.6
3 axles	48.2	59.0	-18.4	484.8	589.4	-17.8	10.1	10.0	.7
4 axles	9.9	11.5	-13.6	107.1	149.0	-28.1	10.8	13.0	-16.8
5 axles or more	1.1	.5	135.3	22.7	9.0	152.0	21.1	19.7	7.1
Not reported	S	N	N	S	N	N	S	N	N
Not reported .....	.1	V	N	S	V	S	S	V	S
Combinations									
Single-unit trucks with trailer	11.8	18.8	-37.1	221.3	651.9	-66.1	18.8	34.7	-46.0
3 axles	3.4	5.2	-34.0	49.4	64.9	-23.9	14.4	12.5	15.2
4 axles .....	.8	.7	18.4	7.5	5.5	38.0	9.0	7.7	16.6
5 axles or more	1.7	3.0	-43.1	26.8	29.2	-8.1	15.9	9.9	61.6
Not reported .....	.9	1.5	-40.5	15.0	30.2	-50.3	16.5	19.8	-16.6
Not reported	V	N	N	V	N	N	V	N	N
Truck-tractors with single trailer	8.3	13.3	-37.5	171.1	568.6	-69.9	20.5	42.6	-51.8
3 axles .....	.7	1.4	-45.9	11.5	31.2	-63.1	15.7	23.0	-31.7
4 axles	1.1	1.9	-43.9	28.5	49.7	-42.6	26.9	26.3	2.2
5 axles or more	6.1	10.1	-40.1	119.9	487.7	-75.4	19.8	48.2	-58.9
Not reported .....	.5	N	N	11.1	N	N	22.5	N	N
Truck-tractors with double trailers	S	2	S	S	18.5	S	S	83.2	S
5 axles	S	S	S	S	S	S	S	S	S
6 axles	V	S	S	V	S	S	V	S	S
7 axles	V	.1	N	V	S	S	V	S	S
8 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	V	N	V	N	N	V	V	N
Truck-tractors with triple trailers	V	V	N	V	V	N	V	V	N
7 axles	V	V	N	V	V	N	V	V	N
8 axles	V	V	N	V	V	N	V	V	N
9 axles	V	V	N	V	V	N	V	V	N
10 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	N	N	V	N	N
Driving axles:									
1	47.4	62.7	-24.4	489.1	652.5	-25.0	10.3	10.4	-.8
2	23.4	26.7	-12.4	345.7	736.0	-53.0	14.8	27.6	-46.4
3 or more .....	.2	.3	-43.2	S	10.8	S	S	35.1	S
Not reported .....	.2	V	N	S	V	S	S	V	S
Total liftable axles and locations ⁹ :									
None	69.5	29.7	133.7	808.8	470.0	72.1	11.6	15.8	-26.4
1	1.4	1.0	45.6	26.8	13.3	101.9	18.7	13.5	38.7
Forward of the drive axle .....	.1	N	N	S	N	N	S	N	N
Below the chassis	S	N	N	S	N	N	S	N	N
Beyond the chassis	1.0	N	N	21.6	N	N	20.6	N	N
Not reported .....	.1	N	N	2.2	N	N	17.6	N	N
2 or more	S	S	S	S	S	S	S	S	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 .....	.1	N	N	S	N	N	S	N	N
Total liftable axles and number of braking axles:									
None	69.5	29.7	133.7	808.8	470.0	72.1	11.6	15.8	-26.4
1	1.4	1.0	45.6	26.8	13.3	101.9	18.7	13.5	38.7
0 braking .....	.1	N	N	2.3	N	N	18.5	N	N
1 braking	1.3	N	N	24.5	N	N	18.7	N	N
Not reported	V	N	N	V	N	N	V	N	N
2 or more	S	S	S	S	S	S	S	S	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 .....	.1	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
CAB TYPE									
Conventional cab	62.1	67.1	-7.4	712.3	1 059.4	-32.8	11.5	15.8	-27.4
With sleeper	1.6	N	N	23.0	N	N	14.1	N	N
Without sleeper	60.5	N	N	689.3	N	N	11.4	N	N
Not reported	V	N	N	V	N	N	V	N	N
Cab over engine	8.8	9.7	-9.2	124.0	157.0	-21.1	14.1	16.2	-13.1
With sleeper .....	.8	N	N	S	N	N	S	N	N
Without sleeper	8.0	N	N	119.2	N	N	14.9	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	V	2.6	N	V	50.1	N	V	19.4	N
Cab beside engine	S	.7	S	S	S	S	S	S	S
Not reported .....	.2	N	N	S	N	N	S	N	N

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

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

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

³Truck-tractors not in use.

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

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

⁶Distributed miles data are available in Table 8.

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

⁸Data were derived from administrative records.

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

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

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

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
Total .....	.9	3.9	3.2	3.3	4.3	3.2	3.2	3.7	3.7
BUSINESS									
For-hire transportation or warehousing	11.0	9.4	12.3	13.2	9.8	5.2	8.5	7.1	4.1
Vehicle leasing or rental	16.3	28.8	23.1	17.1	25.9	27.3	8.5	11.9	18.4
Agriculture, forestry, fishing, or hunting	5.6	5.6	5.6	11.9	11.3	7.2	10.7	10.8	9.4
Mining	19.8	20.4	19.2	26.8	30.3	47.5	20.1	25.5	56.6
Utilities	13.6	15.2	17.3	18.2	20.7	35.8	12.3	16.1	31.0
Construction	5.1	12.5	11.8	7.1	13.8	12.6	5.3	5.3	7.0
Manufacturing	13.9	19.4	30.9	15.8	21.3	31.8	11.9	19.0	20.8
Wholesale trade	14.3	12.4	11.7	17.1	13.5	7.9	8.8	8.6	7.3
Retail trade	11.5	11.2	10.7	17.2	12.5	14.3	13.3	8.3	15.8
Information services	32.9	N	N	38.1	N	N	23.3	N	N
Waste management, landscaping, or administrative/support services	12.1	N	N	14.2	N	N	11.1	N	N
Arts, entertainment, or recreation services	37.9	N	N	47.0	N	N	25.4	N	N
Accommodation or food services	19.7	N	N	23.4	N	N	13.2	N	N
Other services	17.7	N	N	20.5	N	N	11.2	N	N
Personal transportation	S	16.9	S	S	S	S	S	S	S
Not reported	17.1	N	N	23.1	N	N	15.3	N	N
Not applicable ¹	11.4	16.3	29.0	49.3	S	S	48.8	S	S
BODY TYPE									
Single-unit trucks	1.2	4.6	3.9	3.6	6.4	6.0	3.4	4.5	5.6
Armored	S	N	N	S	N	N	S	N	N
Beverage	30.2	39.2	55.6	35.3	44.5	70.6	17.3	28.2	36.6
Concrete mixer	10.7	13.5	19.6	12.0	16.1	21.4	7.3	7.6	9.9
Concrete pumper	32.5	N	N	46.5	N	N	33.3	N	N
Crane	34.6	30.2	50.6	S	41.3	S	S	23.2	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	6.8	9.1	14.9	10.5	12.4	16.7	9.1	10.9	11.1
Flatbed, stake, or platform	5.8	13.1	11.7	9.2	20.0	20.7	7.0	10.1	14.1
Low boy	S	32.3	S	S	42.5	S	S	28.3	S
Pole, logging, pulpwood, or pipe	S	34.7	S	S	S	S	S	S	S
Service, utility	14.3	20.5	34.9	18.4	23.2	70.8	11.5	12.2	28.7
Service, other	16.3	39.3	19.1	21.7	29.8	20.4	13.9	18.5	28.5
Street sweeper	48.9	N	N	S	N	N	S	N	N
Tank, dry bulk	35.2	S	S	42.1	S	S	34.5	S	S
Tank, liquids or gases	14.0	14.5	16.1	22.7	20.4	21.2	17.8	15.5	20.5
Tow/Wrecker	28.9	21.3	13.3	41.8	30.0	21.7	28.1	21.5	40.2
Trash, garbage, or recycling	14.8	16.4	26.6	16.1	16.8	20.4	10.2	8.5	9.7
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	9.5	10.5	11.9	12.5	14.4	14.5	8.5	10.3	12.1
Van, insulated nonrefrigerated	41.0	S	S	S	S	S	S	S	S
Van, insulated refrigerated	29.2	28.7	29.2	31.3	29.4	22.9	14.8	14.8	15.7
Van, open top	11.8	9.6	6.8	25.7	13.8	15.3	23.2	11.2	30.0
Van, step, walk-in, or multistop	11.5	19.1	20.0	14.9	19.5	17.7	10.0	7.8	10.2
Van, other	32.9	N	N	42.3	N	N	26.3	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	4.7	3.3	3.7	9.3	5.8	3.2	7.7	4.7	4.2
Automobile carrier	S	43.9	S	S	48.7	S	S	21.1	S
Beverage	33.6	20.2	18.4	35.6	22.8	21.6	19.5	10.7	24.1
Curtainside	S	N	N	S	N	N	S	N	N
Dump	10.7	13.7	21.0	15.8	18.5	22.0	11.6	12.4	12.7
Flatbed, stake, or platform	11.5	11.8	13.8	19.4	16.5	6.0	15.7	11.5	5.4
Livestock	32.5	23.6	17.3	44.7	37.7	3.3	30.5	29.5	5.5
Low boy	17.8	18.2	21.5	24.6	27.5	31.9	16.9	20.5	27.3
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	14.9	13.5	13.6	38.6	23.5	10.4	35.5	19.2	13.7
Pole, logging, pulpwood, or pipe	S	43.9	S	S	S	S	S	S	S
Tank, dry bulk	S	27.0	S	S	32.5	S	S	18.0	S
Tank, liquids or gases	29.4	21.1	15.3	38.8	25.9	7.8	25.2	14.9	11.6
Van, basic enclosed	17.4	12.9	12.4	24.4	15.9	10.9	16.4	9.6	12.4
Van, drop-frame	S	27.0	S	S	33.0	S	S	18.9	S
Van, insulated nonrefrigerated	N	S	S	N	45.8	N	N	S	S
Van, insulated refrigerated	30.6	14.0	11.0	35.5	16.8	4.5	22.1	9.4	8.4
Other	N	N	N	N	N	N	N	N	N
Not applicable ²	35.8	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	4.0	4.3	4.8	6.0	6.4	7.6	4.5	4.8	7.0
5,000 to 9,999	7.1	17.5	14.3	7.3	16.2	14.3	1.7	2.1	2.9
10,000 to 19,999	6.2	13.9	10.7	6.4	14.3	11.3	1.5	1.4	2.1
20,000 to 29,999	7.9	9.6	14.3	7.9	9.7	14.3	1.0	1.3	1.6
30,000 to 49,999	9.4	9.4	10.1	9.3	9.4	9.7	1.2	1.4	1.8
50,000 to 74,999	16.3	12.5	9.6	16.0	12.4	9.1	1.9	1.5	2.3
75,000 or more	33.6	10.4	3.7	36.0	10.6	3.7	5.0	2.8	5.4
Not applicable ¹	11.4	16.4	29.5	49.3	N	N	48.8	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	10.8	9.0	6.8	18.0	18.7	17.4	15.1	16.8	31.4
50 miles or less	2.4	2.9	3.5	4.3	5.2	6.5	3.6	4.6	6.1
51 to 100 miles	7.9	16.2	10.0	10.1	11.0	7.3	7.1	12.5	12.7
101 to 200 miles	17.2	12.7	11.7	20.0	13.0	6.5	12.4	9.0	7.6
201 to 500 miles	26.7	19.3	5.7	32.2	13.3	3.3	21.9	13.6	14.2
501 miles or more	32.4	S	S	S	20.2	S	S	S	S
Not reported	10.4	16.4	34.0	14.0	N	N	9.3	N	N
Not applicable	11.4	N	N	49.3	N	N	48.8	N	N
PRIMARY JURISDICTION									
Operated in Canada	N	N	N	N	N	N	N	N	N
Operated in Mexico	N	N	N	N	N	N	N	N	N
Operated within the home base state	1.5	N	N	3.3	N	N	3.1	N	N
Operated in states other than the home base state	24.4	N	N	44.3	N	N	35.8	N	N
Not reported	11.6	N	N	15.8	N	N	10.9	N	N
Not applicable ¹	11.4	N	N	49.3	N	N	48.8	N	N
MONTHS OPERATED									
12	3.2	N	N	4.4	N	N	3.3	N	N
7 to 11	6.9	N	N	9.5	N	N	7.0	N	N
2 to 6	5.9	N	N	10.8	N	N	9.2	N	N
1 or less	8.4	N	N	17.9	N	N	16.3	N	N
Vehicle not used	11.4	N	N	49.3	N	N	48.8	N	N
VEHICLE SIZE									
Light	7.0	15.8	9.8	11.0	17.7	10.2	8.5	9.5	10.9
Medium	5.6	7.4	7.7	8.5	11.3	14.6	6.4	7.7	12.4
Light-heavy	7.0	8.1	10.2	12.2	16.7	20.2	9.9	14.6	18.0
Heavy-heavy	2.8	3.1	3.6	4.4	4.3	2.8	4.1	4.4	3.2
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	21.8	40.0	11.8	38.2	40.5	19.4	30.3	16.3	46.3
6,001 to 8,500	12.3	N	N	19.8	N	N	15.1	N	N
8,501 to 10,000	10.6	N	N	14.2	N	N	9.9	N	N
10,001 to 14,000	8.3	12.0	12.5	12.2	16.7	19.8	9.1	10.0	15.1
14,001 to 16,000	13.2	17.1	23.6	17.1	26.2	38.0	11.8	20.2	26.1
16,001 to 19,500	13.2	12.3	11.6	18.5	19.0	28.8	12.6	14.0	31.8
19,501 to 26,000	7.0	8.1	10.2	12.2	16.7	20.2	9.9	14.6	18.0
26,001 to 33,000	10.7	10.2	9.7	15.6	14.8	13.7	11.6	12.1	16.3
33,001 to 40,000	11.4	11.7	15.9	17.3	15.8	14.9	14.4	13.1	12.6
40,001 to 50,000	8.0	8.3	9.8	12.2	11.0	7.0	10.3	9.2	6.9
50,001 to 60,000	6.1	6.9	10.2	9.5	10.3	9.4	7.4	8.4	6.8
60,001 to 80,000	5.9	5.6	6.0	8.8	7.8	3.8	6.8	5.5	3.9
80,001 to 100,000	11.6	14.2	21.3	17.5	22.3	13.8	13.1	17.2	9.1
100,001 to 130,000	43.8	N	N	S	N	S	S	N	S
130,001 or more	N	N	N	N	N	N	N	N	N
TOTAL LENGTH (FEET)									
Less than 20.0	5.2	11.4	7.4	8.2	14.1	10.3	6.4	7.4	10.5
20.0 to 27.9	3.9	4.5	5.4	7.0	9.6	9.9	5.8	8.5	9.4
28.0 to 35.9	6.5	7.7	10.1	9.5	10.5	13.3	7.0	8.1	10.0
36.0 to 40.9	12.2	13.9	23.1	19.9	14.7	31.9	15.5	11.8	20.1
41.0 to 44.9	17.7	19.2	31.7	22.3	29.0	23.7	16.9	24.8	16.1
45.0 to 49.9	19.1	25.8	49.7	23.8	33.7	52.4	13.6	19.2	19.3
50.0 to 54.9	15.1	15.4	20.8	19.6	19.6	18.7	16.1	11.3	13.8
55.0 to 59.9	10.7	9.9	11.8	14.5	16.9	9.6	10.3	11.9	8.5
60.0 to 64.9	10.9	9.3	8.6	17.2	11.9	5.4	13.4	9.1	6.9
65.0 to 69.9	16.6	12.0	7.7	26.8	14.0	3.8	21.0	9.9	7.9
70.0 to 74.9	29.4	19.3	12.5	44.1	22.5	1.7	32.7	11.4	3.3
75.0 to 79.9	N	N	N	N	N	N	N	N	N
80.0 or more	N	N	N	N	N	N	N	N	N
MILES PER GALLON									
Less than 5	7.5	7.6	8.2	9.6	11.5	7.8	8.1	9.5	8.4
5 to 6.9	5.6	4.8	4.5	7.8	6.5	3.1	6.3	6.3	4.6
7 to 8.9	7.2	6.3	5.4	10.8	9.6	7.4	8.4	7.5	10.2
9 to 10.9	7.4	18.1	15.3	10.8	23.6	21.6	7.9	9.6	13.1
11 to 12.9	10.1	31.6	28.8	13.9	23.6	26.9	9.8	19.0	24.2
13 to 14.9	18.6	23.4	35.4	24.7	30.9	63.9	17.7	25.7	42.6
15 or more	13.9	18.6	13.4	18.8	21.9	13.4	12.5	11.2	13.5
15 to 20.9	13.9	19.0	13.9	18.8	22.2	13.7	12.5	11.3	13.4
21 to 24.9	N	N	N	N	N	N	N	N	N
25 or more	N	S	S	N	S	S	N	S	S
Not reported	6.5	8.6	13.1	10.4	14.2	31.7	8.0	12.5	22.2
Not applicable ¹	11.4	N	N	49.3	N	N	48.8	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	S	N	N	S	N	N	S	N	N
2002	22.4	N	N	23.2	N	N	11.3	N	N
2001	15.6	N	N	17.1	N	N	9.7	N	N
2000	11.5	N	N	12.1	N	N	6.9	N	N
1999	11.3	N	N	14.4	N	N	9.1	N	N
1998	16.1	S	S	16.7	S	S	7.3	S	S
1997	14.2	20.8	19.7	16.5	16.2	11.8	8.9	14.9	11.3
1996	16.7	15.2	16.1	17.3	15.6	8.4	9.3	12.3	7.8
1995	12.4	12.4	12.2	15.2	13.0	6.9	11.2	8.6	6.9
1994	12.5	15.3	18.6	14.2	15.4	9.5	9.0	9.4	6.3
1993	16.8	19.9	34.0	20.8	20.7	13.1	13.6	15.8	7.1
Pre-1993	2.7	5.0	3.3	6.3	6.4	2.7	5.7	4.7	3.9
VEHICLE ACQUISITION									
New	4.2	5.7	6.2	5.6	6.4	6.3	4.1	4.8	5.3
Used	2.5	5.2	4.9	5.4	7.0	6.0	4.9	6.4	6.5
Not reported	14.4	23.9	7.4	15.8	14.4	2.8	9.9	13.3	8.2
LEASE CHARACTERISTICS									
Leased	9.5	N	N	10.2	N	N	5.3	N	N
Lessee	11.4	N	N	12.6	N	N	7.0	N	N
Vehicle only	11.4	N	N	12.6	N	N	7.0	N	N
Vehicle with driver	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Lessor	18.4	N	N	18.4	N	N	7.9	N	N
Vehicle only	18.8	N	N	18.6	N	N	8.0	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 reported	S	N	N	S	N	N	S	N	N
Not leased	2.5	N	N	5.0	N	N	4.4	N	N
Not reported	4.5	N	N	7.5	N	N	6.2	N	N
Length of leasing agreement:									
Leased	9.5	N	N	10.2	N	N	5.3	N	N
1 to 11 months	S	N	N	S	N	N	S	N	N
12 months or more	9.7	N	N	10.4	N	N	5.5	N	N
Not reported	N	N	N	N	N	N	N	N	N
Provisions of lease:									
Financing only	10.8	N	N	11.6	N	N	5.9	N	N
Full maintenance	17.4	N	N	17.6	N	N	8.3	N	N
Payment of taxes	17.3	N	N	17.4	N	N	8.2	N	N
Obtaining licenses and permits	18.4	N	N	18.3	N	N	8.0	N	N
Recordkeeping	22.6	N	N	22.3	N	N	8.8	N	N
Fuel contract	27.9	N	N	27.3	N	N	12.5	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	1.9	N	N	4.1	N	N	3.7	N	N
Motor carrier	9.5	N	N	11.1	N	N	7.2	N	N
Owner operator	13.5	N	N	19.1	N	N	14.3	N	N
Rental	14.3	N	N	15.3	N	N	8.2	N	N
Personal transportation	S	N	N	S	N	N	S	N	N
Not applicable ¹	11.4	N	N	49.3	N	N	48.8	N	N
For-hire characteristics:									
Type of carrier:									
Contract	16.4	N	N	18.0	N	N	13.2	N	N
Common	10.8	N	N	12.8	N	N	7.8	N	N
Not reported	17.2	N	N	24.8	N	N	18.0	N	N
Not applicable ³	1.4	N	N	3.9	N	N	3.6	N	N
Type of service:									
Truckload	11.2	11.4	18.9	14.4	12.9	7.8	10.3	8.8	4.6
Less-than truckload	13.6	15.6	24.4	14.9	16.9	11.0	8.2	11.2	5.7
Not reported	18.1	N	N	25.7	N	N	18.2	N	N
Not applicable ³	1.4	N	N	3.9	N	N	3.6	N	N
Source of hauls:									
Shippers or receivers	11.3	N	N	12.7	N	N	8.1	N	N
Brokers	35.0	N	N	39.6	N	N	22.9	N	N
Centralized markets or exchanges	39.1	N	N	39.8	N	N	17.3	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	12.3	N	N	17.4	N	N	12.6	N	N
Not applicable ³	1.4	N	N	3.9	N	N	3.6	N	N
HAZARDOUS MATERIALS CARRIED⁴									
Carrying hazardous materials	16.2	14.0	15.0	19.8	15.3	8.7	14.0	13.5	9.7
Not carrying hazardous materials	1.9	1.6	1.9	4.0	3.8	3.3	3.6	3.6	4.1
Not reported	9.8	12.8	11.0	13.6	18.7	11.4	9.7	14.6	12.6
Not applicable ⁵	8.6	N	N	14.9	N	N	12.7	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	23.4	N	N	29.6	N	N	16.8	N	N
Air bag(s) (safety device only)	10.3	34.5	32.5	13.5	17.0	11.4	8.9	21.5	13.6
Air compressor (except air brakes)	11.2	N	N	16.3	N	N	12.5	N	N
Air-conditioning	3.8	11.8	11.2	4.8	6.4	4.8	3.2	8.4	6.0
Air springs	8.4	N	N	12.1	N	N	9.3	N	N
Antilock brake system	6.0	24.3	35.1	6.7	15.6	19.1	3.9	12.7	10.6
Collision warning system	27.7	N	N	31.4	N	N	16.9	N	N
Computerized drive train control unit	18.1	N	N	20.1	N	N	11.5	N	N
Crane	18.1	N	N	22.9	N	N	13.8	N	N
Electronic vehicle identification device	24.8	30.9	40.4	28.1	30.1	29.7	17.6	20.2	18.9
Engine retarder/brake	4.1	4.5	5.8	6.4	6.0	3.7	5.1	5.0	3.2
Front-wheel drive	N	S	S	N	S	S	N	S	S
Hoist	6.3	N	N	12.9	N	N	11.5	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	21.9	N	N	24.9	N	N	17.4	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	11.8	N	N	14.7	N	N	8.7	N	N
Mounting bar for snowplow	25.3	N	N	36.8	N	N	26.0	N	N
Navigational system	S	S	S	S	49.0	S	S	S	S
Power take-off	4.1	N	N	6.7	N	N	5.9	N	N
Radial tires	2.7	4.6	3.7	4.5	4.6	3.1	3.7	3.5	3.6
Reflective material in addition to those required by law	8.3	6.6	5.5	11.1	7.9	4.0	7.6	6.6	5.7
Road speed governor	6.0	5.7	6.6	7.7	6.6	4.6	5.4	5.8	4.5
Toolbox	5.0	N	N	7.2	N	N	5.2	N	N
Trip recorder or on-board computer with communication capabilities	17.8	N	N	19.2	N	N	10.3	N	N
Trip recorder or on-board computer without communication capabilities	19.6	N	N	22.7	N	N	17.6	N	N
Vehicle control aids for handicapped drivers	N	N	N	N	N	N	N	N	N
Wheelchair lift	N	N	N	N	N	N	N	N	N
Winch	14.0	N	N	21.8	N	N	16.6	N	N
Transmission type:									
Automatic	5.2	N	N	7.1	N	N	5.0	N	N
Manual	2.2	N	N	4.7	N	N	4.3	N	N
Semiautomated manual	43.3	N	N	S	N	N	S	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	14.4	N	N	17.6	N	N	10.6	N	N
Braking system:									
Hydraulic (standard)	4.3	5.9	8.4	8.5	12.3	18.7	7.3	10.6	14.0
Hydraulic with power assist	5.5	5.4	4.7	9.0	8.6	7.7	7.2	6.3	9.7
Air	3.0	3.0	3.6	4.9	4.8	3.0	4.1	4.6	3.3
Other	N	34.5	N	N	S	S	N	S	S
Not reported	13.3	N	N	15.5	N	N	9.0	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	4.1	8.3	5.3	8.4	13.9	8.6	7.2	9.2	10.8
Diesel	2.6	3.0	3.7	4.1	4.0	3.6	3.2	3.6	3.2
Natural gas	N	N	N	N	N	N	N	N	N
Propane	31.2	N	N	42.5	N	N	28.9	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	11.4	N	N	49.3	N	N	48.8	N	N
Cylinders ⁶ :									
4 cylinders	9.6	15.1	29.7	13.3	16.4	31.3	8.3	8.6	10.7
6 cylinders	3.4	4.2	5.3	4.8	4.6	3.8	3.6	3.9	3.1
8 cylinders	4.2	11.1	8.9	7.5	13.1	10.6	6.2	7.4	9.0
Other	5.5	4.7	4.1	13.6	13.9	6.0	12.4	13.5	9.8
Cubic inch displacement ⁶ :									
Gasoline fuel	4.1	8.3	5.3	8.4	13.9	8.6	7.2	9.2	10.8
Less than 200	S	S	S	S	S	S	S	S	S
200 to 299	27.8	37.8	60.5	30.2	43.6	31.4	12.6	20.5	11.1
300 to 349	40.4	S	S	48.3	S	S	26.5	S	S
350 to 399	9.0	23.3	19.6	14.8	31.7	21.5	12.0	11.8	13.2
400 or more	10.9	12.8	11.5	14.7	17.1	12.8	9.9	11.0	12.3
Not available	8.2	6.2	4.9	23.8	33.2	17.7	22.2	32.4	35.4
Diesel fuel	2.6	3.0	3.7	4.1	4.0	3.6	3.2	3.6	3.2
Less than 400	8.3	11.7	18.3	10.7	14.0	19.7	7.0	8.2	9.5
400 to 599	6.5	8.5	11.4	8.6	11.3	15.5	5.5	7.6	9.6
600 to 799	5.9	7.3	13.4	7.5	10.6	12.9	5.2	7.6	6.4
800 or more	5.4	4.8	4.9	9.3	7.1	2.8	7.9	5.5	3.4
Not available	7.8	6.6	5.4	14.3	10.7	4.0	13.2	10.2	7.1
Other fuel	28.4	29.3	30.9	39.0	37.3	21.7	26.8	21.6	18.3
Less than 400	44.3	47.1	51.8	S	S	S	S	S	S
400 or more	40.4	49.6	65.2	42.9	S	S	14.5	S	S
Not available	S	N	S	S	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹	11.4	N	N	49.3	N	N	48.8	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
REFUELING LOCATION									
Gas station	3.4	N	N	5.5	N	N	4.4	N	N
Truck stop	9.2	N	N	15.7	N	N	11.9	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	3.9	N	N	5.8	N	N	4.9	N	N
Other company's/contractor's facility not open to the public	15.2	N	N	17.9	N	N	11.5	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	23.8	N	N	34.1	N	N	23.4	N	N
Not applicable ¹	11.4	N	N	49.3	N	N	48.8	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	19.6	41.1	127.2	40.4	S	S	34.2	S	S
Company-owned maintenance facility	3.6	7.3	6.3	5.2	6.6	5.2	4.1	4.5	4.9
General repair business or private mechanic	4.9	6.8	10.2	7.0	10.1	11.1	5.1	8.5	7.4
Dealership service department	10.2	11.0	14.0	12.8	12.5	9.1	8.4	9.5	7.0
Leasing company	23.8	20.7	23.0	26.4	21.3	12.2	14.9	16.7	11.1
Individual not employed/paid by any maintenance type facility:									
Other	5.3	7.6	4.5	10.1	8.5	4.6	8.7	7.4	8.4
Not reported	N	S	S	N	S	S	N	S	S
Not reported	23.8	19.7	6.1	32.8	25.6	4.0	25.3	17.6	14.8
Not applicable ¹	11.4	N	N	49.3	N	N	48.8	N	N
Extensive repairs performed by:									
None performed	2.1	19.5	437.5	4.4	40.0	2 058.2	3.9	39.1	90.3
Company-owned maintenance facility	10.5	12.6	3.6	11.7	11.5	3.3	8.8	6.0	9.7
General repair business or private mechanic	9.6	6.6	4.8	13.2	9.2	5.4	9.5	7.6	10.0
Dealership service department	13.5	7.6	4.1	15.0	8.5	3.0	8.6	7.2	7.3
Leasing company	S	27.3	S	S	29.4	S	S	22.3	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	47.6	12.2	2.6	S	13.4	S	S	12.0	S
Other	19.4	23.1	4.3	27.8	21.4	5.4	19.5	13.5	25.9
Not reported	N	49.1	N	N	S	S	N	S	S
Not reported	S	4.9	S	S	8.9	S	S	7.7	S
Not applicable ¹	11.4	N	N	49.3	N	N	48.8	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	1.4	5.0	4.3	3.8	6.9	6.5	3.6	4.8	5.9
3 axles	1.7	6.1	5.1	4.6	8.6	8.0	4.3	5.9	7.3
4 axles	4.3	5.4	6.0	7.4	7.4	7.5	6.4	6.3	7.4
5 axles or more	14.5	25.2	68.5	16.4	28.4	82.7	7.6	13.2	16.3
Not reported	S	N	N	S	N	N	S	N	N
Not reported	43.8	N	N	S	N	S	S	N	S
Combinations:									
Single-unit trucks with trailer:	5.0	4.3	4.1	8.1	5.4	3.3	6.5	5.2	4.5
3 axles	13.4	13.3	12.5	17.4	16.2	18.1	11.2	12.7	19.5
4 axles	31.2	39.3	59.4	44.4	45.8	88.0	31.5	34.3	54.3
5 axles or more	21.0	19.2	16.2	27.4	24.5	33.8	16.1	16.5	37.2
Not reported	16.1	19.7	15.1	20.2	24.3	15.7	12.2	20.3	19.7
Truck-tractors with single trailer:	N	N	N	N	N	N	N	N	N
3 axles	4.7	3.4	3.6	9.4	5.9	3.3	7.7	4.8	4.3
4 axles	28.0	17.6	17.9	32.8	26.9	15.6	12.5	19.5	15.8
5 axles or more	20.0	15.3	14.1	39.2	28.9	28.0	29.0	20.4	36.2
Not reported	5.1	3.9	3.8	9.1	6.3	2.7	7.7	4.9	3.8
Truck-tractors with double trailers:	22.0	N	N	32.5	N	N	24.0	N	N
5 axles	S	37.0	S	S	44.2	S	S	24.2	S
6 axles	S	S	S	S	S	S	S	S	S
7 axles	S	S	S	S	S	S	S	S	S
8 axles or more	N	49.1	N	N	S	N	N	S	S
Not reported	N	N	N	N	N	N	N	N	N
Truck-tractors with triple trailers:	N	N	N	N	N	N	N	N	N
7 axles	N	N	N	N	N	N	N	N	N
8 axles	N	N	N	N	N	N	N	N	N
9 axles	N	N	N	N	N	N	N	N	N
10 axles or more	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Driving axles:									
1	1.9	4.3	3.6	5.0	6.1	5.9	4.6	5.3	6.9
2	3.1	9.1	8.5	4.9	6.6	3.9	4.0	6.2	4.0
3 or more	36.9	31.0	27.4	S	45.2	S	S	32.2	S
Not reported	39.9	N	N	S	N	S	S	N	S
Total liftable axles and locations:									
None .....	.9	4.3	10.3	3.4	7.3	13.8	3.3	6.6	5.4
1	13.4	27.7	44.9	14.3	26.4	60.6	8.5	24.0	35.3
Forward of the drive axle	43.8	N	N	S	N	N	S	N	N
Below the chassis	S	N	N	S	N	N	S	N	N
Beyond the chassis	14.7	N	N	16.1	N	N	6.5	N	N
Not reported	43.7	N	N	45.8	N	N	13.6	N	N
2 or more	S	S	S	S	S	S	S	S	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	43.8	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicle and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
TRUCK TYPE AND AXLE ARRANGEMENT—Con.									
Total liftable axles and number of braking axles:									
None .....	.9	4.3	10.3	3.4	7.3	13.8	3.3	6.6	5.4
1	13.4	27.7	44.9	14.3	26.4	60.6	8.5	24.0	35.3
0 braking	43.7	N	N	47.1	N	N	17.5	N	N
1 braking	14.2	N	N	15.1	N	N	9.1	N	N
Not reported	N	N	N	N	N	N	N	N	N
2 or more	S	S	S	S	S	S	S	S	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	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	43.8	N	N	S	N	N	S	N	N
CAB TYPE									
Conventional cab	1.3	2.1	2.3	3.7	4.1	3.7	3.5	3.8	3.8
With sleeper	11.6	N	N	18.0	N	N	13.9	N	N
Without sleeper	1.4	N	N	3.9	N	N	3.6	N	N
Not reported	N	N	N	N	N	N	N	N	N
Cab over engine	6.7	7.9	9.5	9.4	11.0	11.4	6.9	8.3	9.4
With sleeper	17.7	N	N	S	N	N	S	N	N
Without sleeper	7.2	N	N	9.6	N	N	6.9	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	N	18.6	N	N	23.4	N	N	14.7	N
Cab beside engine	S	37.9	S	S	S	S	S	S	S
Not reported	37.0	N	N	S	N	N	S	N	N

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

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

Table 4. Trucks by Vehicle Size: 2002

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
Total	1 677.4	1 608.5	27.4	12.5	29.0	X
Coefficient of variation (percent) .....	.6	.7	21.9	7.0	2.8	X
BUSINESS¹						
For-hire transportation or warehousing	12.3	S	1.9	1.6	1.4	39.8
Vehicle leasing or rental	19.4	17.1	.4	1.3	.7	39.0
Agriculture, forestry, fishing, or hunting	49.3	32.9	S	2.0	8.3	21.6
Mining	S	S	S	S	.7	S
Utilities	14.1	S	1.5	.3	1.5	42.2
Construction	137.7	123.3	4.1	2.4	7.9	14.2
Manufacturing	S	S	S	S	1.5	S
Wholesale trade	S	S	.4	.7	1.2	S
Retail trade	25.2	21.5	1.7	.9	1.1	33.1
Information services	S	S	S	S	S	S
Waste management, landscaping, or administrative/support services	14.0	S	.5	.9	1.5	42.4
Arts, entertainment, or recreation services	S	S	S	V	S	S
Accommodation or food services	S	S	S	S	.4	S
Other services	29.5	28.0	.9	V	.3	32.6
Personal transportation	1 233.0	1 226.1	S	V	V	2.6
Not reported	36.5	34.9	.5	.5	.5	29.4
Not applicable ²	56.0	52.0	1.0	1.2	1.7	23.4
BODY TYPE						
Single-unit trucks	1 668.7	1 608.5	27.4	12.1	20.7	.6
Pickup	736.3	726.0	S	V	V	1.2
Minivan	136.4	136.4	V	V	V	14.6
Other light vans	98.9	98.9	V	V	V	17.5
Sport utility	634.6	634.6	V	V	V	3.9
Armored	S	V	V	S	V	S
Beverage .....	.8	V	S	.3	.4	30.2
Concrete mixer	2.1	V	V	V	2.1	10.7
Concrete pumper .....	.2	V	V	V	.2	32.5
Crane .....	.6	V	S	S	.4	34.6
Curtainside	S	V	V	V	S	S
Dump	11.0	1.0	2.5	1.6	5.9	6.8
Flatbed, stake, or platform	16.1	4.8	5.1	3.2	3.0	5.8
Low boy	S	V	V	V	S	S
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Service, utility	3.7	1.0	1.5	.4	.8	14.3
Service, other	2.7	1.4	.5	.6	.3	16.3
Street sweeper .....	.1	V	.1	V	V	48.9
Tank, dry bulk .....	.4	V	S	V	.3	35.2
Tank, liquids or gases	3.2	S	.7	.6	1.7	14.0
Tow/Wrecker .....	.9	V	.6	S	S	28.9
Trash, garbage, or recycling	1.9	S	V	.4	1.4	14.8
Vacuum	S	V	V	V	S	S
Van, basic enclosed	6.9	1.5	2.3	2.7	.5	9.5
Van, insulated nonrefrigerated .....	.4	S	.3	S	V	41.0
Van, insulated refrigerated .....	.8	S	S	S	S	29.2
Van, open top	4.0	V	.7	.6	2.7	11.8
Van, step, walk-in, or multistop	5.3	2.3	2.1	.8	S	11.5
Van, other .....	.7	S	S	S	V	32.9
Other	S	V	V	V	S	S
Truck-tractors	8.7	V	V	.4	8.3	4.7
Automobile carrier	S	V	V	V	S	S
Beverage .....	.3	V	V	S	V	33.6
Curtainside	S	V	V	V	S	S
Dump	1.8	V	V	V	1.8	10.7
Flatbed, stake, or platform	1.7	V	V	V	1.7	11.5
Livestock .....	.2	V	V	V	.2	32.5
Low boy .....	.7	V	V	V	.7	17.8
Mobile home toter	S	V	V	V	S	S
Open top	1.0	V	V	V	1.0	14.9
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Tank, dry bulk	S	V	V	V	S	S
Tank, liquids or gases .....	.3	V	V	V	.3	29.4
Van, basic enclosed	1.4	V	V	S	1.4	17.4
Van, drop-frame	S	V	V	V	S	S
Van, insulated nonrefrigerated	V	V	V	V	V	N
Van, insulated refrigerated .....	.5	V	V	S	.4	30.6
Other	V	V	V	V	V	N
Not applicable ³ .....	.3	V	V	S	.2	35.8
ANNUAL MILES						
Less than 5,000	296.7	272.5	8.7	4.2	11.3	9.2
5,000 to 9,999	366.8	351.9	S	1.6	4.0	8.4
10,000 to 19,999	674.2	663.0	3.8	2.4	5.0	5.4
20,000 to 29,999	190.5	182.6	2.9	2.0	3.0	12.3
30,000 to 49,999	84.6	79.5	1.5	.9	2.7	19.0
50,000 to 74,999	S	S	.3	S	.9	S
75,000 or more .....	.3	V	V	S	.3	33.6
Not applicable ²	56.0	52.0	1.0	1.2	1.7	23.4
PRIMARY RANGE OF OPERATION						
Off-the-road	25.1	21.2	1.0	.6	2.3	33.3
50 miles or less	1 225.4	1 178.8	21.8	6.7	18.2	2.7
51 to 100 miles	121.9	114.7	1.9	1.6	3.7	15.6
101 to 200 miles	46.5	44.8	.4	.6	.8	26.2
201 to 500 miles	21.5	20.8	S	S	.2	38.9
501 miles or more	55.5	55.1	V	S	S	24.3
Not reported	125.5	121.1	1.1	1.4	1.9	15.6
Not applicable ²	56.0	52.0	1.0	1.2	1.7	23.4

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Vehicle size					Coefficient of variation of total (percent)
	Total	Light	Medium	Light-heavy	Heavy-heavy	
PRIMARY JURISDICTION						
Operated in Canada.....	V	V	V	V	V	N
Operated in Mexico.....	V	V	V	V	V	N
Operated within the home base state.....	1 447.5	1 387.5	25.2	9.4	25.5	1.9
Operated in states other than the home base state.....	55.9	55.0	S	.4	.3	24.1
Not reported.....	118.0	114.0	.9	1.6	1.6	16.0
Not applicable ²	56.0	52.0	1.0	1.2	1.7	23.4
MONTHS OPERATED						
12.....	1 099.2	1 061.5	19.7	6.2	11.7	3.2
7 to 11.....	264.1	255.1	3.0	1.4	4.5	10.3
2 to 6.....	198.9	187.1	2.0	2.3	7.4	11.9
1 or less.....	59.3	52.8	1.6	1.4	3.6	22.0
Vehicle not used.....	56.0	52.0	1.0	1.2	1.7	23.4
AVERAGE WEIGHT (POUNDS)						
Less than 6,001.....	1 220.1	1 220.1	N	N	N	2.7
6,001 to 8,500.....	306.6	306.6	N	N	N	9.4
8,501 to 10,000.....	81.8	81.8	N	N	N	19.2
10,001 to 14,000.....	19.5	N	19.5	N	N	30.6
14,001 to 16,000.....	3.8	N	3.8	N	N	13.2
16,001 to 19,500.....	4.1	N	4.1	N	N	13.2
19,501 to 26,000.....	12.5	N	N	12.5	N	7.0
26,001 to 33,000.....	5.6	N	N	N	5.6	10.7
33,001 to 40,000.....	3.8	N	N	N	3.8	11.4
40,001 to 50,000.....	5.4	N	N	N	5.4	8.0
50,001 to 60,000.....	6.7	N	N	N	6.7	6.1
60,001 to 80,000.....	5.8	N	N	N	5.8	5.9
80,001 to 100,000.....	1.6	N	N	N	1.6	11.6
100,001 to 130,000.....	.1	N	N	N	.1	43.8
130,001 or more.....	V	N	N	N	V	N
TOTAL LENGTH (FEET)						
Less than 20.0.....	1 405.5	1 394.9	7.2	2.2	1.3	1.9
20.0 to 27.9.....	156.9	134.0	7.2	6.2	9.6	12.9
28.0 to 35.9.....	76.8	62.2	S	2.9	6.8	19.1
36.0 to 40.9.....	17.6	S	S	.8	2.3	38.9
41.0 to 44.9.....	S	S	.4	S	1.0	S
45.0 to 49.9.....	S	S	S	S	1.0	S
50.0 to 54.9.....	1.5	V	S	S	1.3	15.1
55.0 to 59.9.....	2.6	V	S	S	2.4	10.7
60.0 to 64.9.....	2.2	V	V	S	2.2	10.9
65.0 to 69.9.....	.9	V	V	V	.9	16.6
70.0 to 74.9.....	.3	V	V	V	.3	29.4
75.0 to 79.9.....	V	V	V	V	V	N
80.0 or more.....	V	V	V	V	V	N
MILES PER GALLON						
Less than 5.....	7.0	4	S	.7	5.7	7.5
5 to 6.9.....	13.6	S	1.7	2.3	9.3	5.6
7 to 8.9.....	10.6	1.1	2.7	2.1	4.7	7.2
9 to 10.9.....	106.9	99.2	3.7	1.7	2.3	16.5
11 to 12.9.....	140.3	136.0	2.8	.7	.8	14.6
13 to 14.9.....	104.9	103.8	.8	.7	S	17.3
15 or more.....	1 047.0	1 038.2	S	S	.1	3.4
15 to 20.9.....	838.5	828.6	S	S	.1	4.5
21 to 24.9.....	123.0	123.0	V	V	V	15.9
25 or more.....	85.5	85.5	V	V	V	19.5
Not reported.....	191.1	180.5	2.9	3.5	4.3	12.2
Not applicable ²	56.0	52.0	1.0	1.2	1.7	23.4
MODEL YEAR						
2003.....	S	V	V	V	S	S
2002.....	59.3	58.3	.5	S	.4	23.3
2001.....	152.9	150.9	.7	S	1.0	14.1
2000.....	121.0	113.4	S	1.3	1.6	15.9
1999.....	124.1	120.1	1.5	.9	1.5	15.7
1998.....	122.2	120.1	1.0	.4	.7	15.9
1997.....	119.7	117.1	.8	.7	1.0	16.1
1996.....	115.2	113.7	.3	.3	.9	16.5
1995.....	123.6	117.2	S	.5	1.9	15.7
1994.....	99.3	96.5	.8	.4	1.6	17.7
1993.....	74.1	72.2	.8	.4	.7	20.7
Pre-1993.....	566.0	529.1	12.1	7.3	17.5	6.1
VEHICLE ACQUISITION						
New.....	634.2	603.7	17.2	5.0	8.4	5.7
Used.....	937.5	901.4	9.2	7.4	19.6	4.0
Not reported.....	105.6	103.5	.9	S	1.1	17.2
LEASE CHARACTERISTICS						
Leased.....	108.7	99.7	S	1.5	2.9	16.7
Lessee.....	96.6	89.5	S	.6	2.2	17.9
Vehicle only.....	4.3	.6	.9	.6	2.2	11.4
Vehicle with driver.....	V	V	V	V	V	N
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	92.3	88.9	S	V	V	18.7
Lessor.....	1.8	V	.2	.9	.7	18.4
Vehicle only.....	1.8	V	.2	.9	.6	18.8
Vehicle with driver.....	S	V	V	V	S	S
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	V	V	V	V	V	N
Not reported.....	S	S	S	V	V	S
Not leased.....	899.1	857.4	17.0	7.3	17.3	4.2
Not reported.....	669.5	651.4	5.7	3.7	8.8	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	108.7	99.7	S	1.5	2.9	16.7
1 to 11 months	S	V	V	S	S	S
12 months or more	6.0	.6	1.2	1.4	2.8	9.7
Not reported	V	V	V	V	V	N
Not applicable ⁴	102.6	99.1	S	V	V	17.7
Provisions of lease ⁵ :						
Financing only	4.8	.5	.9	.9	2.5	10.8
Full maintenance	2.1	S	.3	.8	.9	17.4
Payment of taxes	2.1	S	.4	.8	.8	17.3
Obtaining licenses and permits	1.8	V	.3	.8	.8	18.4
Recordkeeping	1.3	V	S	.4	.7	22.6
Fuel contract	.8	V	S	S	.6	27.9
PRIMARY OPERATOR CLASSIFICATION						
Private	345.4	298.4	16.7	7.9	22.4	8.2
Motor carrier	13.6	S	2.1	1.8	2.3	36.0
Owner operator	S	S	S	.4	1.6	S
Rental	20.0	17.3	.4	1.3	1.1	37.9
Personal transportation	1 233.1	1 226.2	S	V	V	2.6
Not applicable ²	56.0	52.0	1.0	1.2	1.7	23.4
For-hire characteristics:						
Type of carrier:						
Contract	2.1	S	.3	.8	.8	16.4
Common	4.9	.4	1.4	.9	2.3	10.8
Not reported	2.1	.3	.5	.5	.7	17.2
Not applicable ⁶	1 668.2	1 607.6	25.1	10.3	25.2	.6
Type of service:						
Truckload	3.5	S	.4	.7	2.3	11.2
Less-than truckload	3.8	.4	1.3	1.2	.9	13.6
Not reported	1.9	.3	.5	.4	.7	18.1
Not applicable ⁶	1 668.2	1 607.6	25.1	10.3	25.2	.6
Source of hauls:						
Shippers or receivers	4.7	S	1.5	1.4	1.6	11.3
Brokers	.5	S	S	S	.3	35.0
Centralized markets or exchanges	.3	S	V	V	.2	39.1
Other	V	V	V	V	V	N
Not reported	3.6	.4	.7	.8	1.8	12.3
Not applicable ⁶	1 668.2	1 607.6	25.1	10.3	25.2	.6
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	2.5	S	.6	.8	1.0	16.2
Not carrying hazardous materials	54.3	9.2	13.1	8.5	23.5	1.9
Not reported	6.5	2.1	1.9	.8	1.8	9.8
Not applicable ⁸	1 614.0	1 597.0	S	2.4	2.8	.6
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	1.4	S	.5	.3	.5	23.4
Air bag(s) (safety device only)	909.2	897.9	S	.9	.8	4.0
Air compressor (except air brakes)	4.1	.4	.5	.4	2.7	11.2
Air-conditioning	1 275.4	1 242.1	16.4	4.3	12.5	2.4
Air springs	4.2	V	S	.4	3.7	8.4
Antilock brake system	927.9	905.9	14.4	2.5	5.1	4.0
Collision warning system	1.0	S	.8	V	.1	27.7
Computerized drive train control unit	206.4	205.1	.5	V	.8	11.8
Crane	2.1	.4	.3	.3	1.0	18.1
Electronic vehicle identification device	.8	S	V	S	.5	24.8
Engine retarder/brake	13.4	.4	.9	.9	11.1	4.1
Front-wheel drive	1 126.2	1 119.3	S	V	V	3.1
Hoist	13.2	1.6	3.1	2.3	6.1	6.3
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	1.1	V	.4	S	.6	21.9
Internet access	S	V	V	V	S	S
Lift gate	4.6	.9	1.3	1.5	1.0	11.8
Mounting bar for snowplow	28.6	27.9	.4	S	.1	33.6
Navigational system	S	V	S	V	S	S
Power take-off	23.0	1.2	3.3	3.6	14.9	4.1
Radial tires	1 118.8	1 075.5	19.4	6.1	17.7	3.2
Reflective material in addition to those required by law	7.7	1.0	2.0	.9	3.8	8.3
Road speed governor	13.5	.6	2.5	3.3	7.1	6.0
Toolbox	163.6	144.9	7.8	3.3	7.6	12.8
Trip recorder or on-board computer with communication capabilities	60.4	58.4	.5	.9	.6	23.0
Trip recorder or on-board computer without communication capabilities	268.2	263.7	S	S	.6	10.3
Vehicle control aids for handicapped drivers	S	S	V	V	V	S
Wheelchair lift	V	V	V	V	V	N
Winch	27.3	24.5	1.2	.4	1.2	33.1
Transmission type:						
Automatic	1 113.3	1 097.0	10.7	2.5	3.0	3.0
Manual	498.4	448.8	16.1	8.6	24.9	6.6
Semiautomated manual	.4	V	S	S	.1	43.3
Automated manual	S	S	V	V	S	S
Not reported	61.7	59.1	.4	1.2	1.0	22.3
Braking system:						
Hydraulic (standard)	24.1	6.8	8.5	4.6	4.2	4.3
Hydraulic with power assist	17.6	5.2	6.3	3.6	2.4	5.5
Air	25.7	S	1.1	2.9	21.5	3.0
Other	V	V	V	V	V	N
Not reported	3.7	.3	1.1	1.4	1.0	13.3
Not applicable ¹⁰	1 606.3	1 596.0	S	V	V	.6

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	1 480.1	1 463.4	8.2	4.5	4.1	1.6
Diesel	123.1	75.7	17.7	6.6	23.1	12.9
Natural gas	V	V	V	V	V	N
Propane	.8	S	.3	S	S	31.2
Alcohol fuels	V	V	V	V	V	N
Electricity	V	V	V	V	V	N
Combination	17.3	17.2	S	V	V	44.1
Other	V	V	V	V	V	N
Not reported	S	S	V	V	S	S
Not applicable ²	56.0	52.0	1.0	1.2	1.7	23.4
Cylinders ¹¹ :						
4 cylinders	177.0	175.0	1.7	.1	.2	13.1
6 cylinders	760.5	729.6	S	5.9	18.3	4.7
8 cylinders	679.7	657.4	14.9	4.0	3.4	5.2
Other	60.2	46.5	4.0	2.5	7.1	20.2
Cubic inch displacement ¹¹ :						
Gasoline fuel	1 480.1	1 463.4	8.2	4.5	4.1	1.6
Less than 200	379.8	379.6	S	V	V	8.3
200 to 299	523.8	523.1	S	.7	V	6.4
300 to 349	206.1	205.9	S	V	V	12.0
350 to 399	238.2	233.9	2.5	.8	.9	10.9
400 or more	95.4	91.6	2.6	.8	.4	17.6
Not available	36.8	29.2	2.6	2.2	2.7	26.2
Diesel fuel	123.1	75.7	17.7	6.6	23.1	12.9
Less than 400	42.6	33.2	7.4	1.0	.9	25.0
400 to 599	61.9	42.3	9.9	5.0	4.8	20.2
600 to 799	6.9	V	V	S	6.7	5.9
800 or more	6.1	V	V	S	6.0	5.4
Not available	5.6	S	.4	.3	4.7	7.8
Other fuel	18.1	17.3	.4	S	S	42.1
Less than 400	S	S	S	S	V	S
400 or more	S	S	S	S	V	S
Not available	S	V	S	V	V	S
Not reported	S	S	V	V	S	S
Not applicable ²	56.0	52.0	1.0	1.2	1.7	23.4
REFUELING LOCATION						
Gas station	1 480.0	1 449.5	16.7	5.2	8.7	1.6
Truck stop	15.6	S	.9	.7	3.1	38.2
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	67.3	40.2	8.5	5.0	13.5	17.5
Other company's/contractor's facility not open to the public	S	S	S	.4	1.6	S
Other	V	V	V	V	V	N
Not reported	52.6	52.0	.1	V	.4	24.8
Not applicable ²	56.0	52.0	1.0	1.2	1.7	23.4
MAINTENANCE⁵						
General maintenance performed by:						
None performed	66.7	65.2	.5	.4	.6	21.9
Company-owned maintenance facility	138.9	113.5	6.0	5.5	14.0	13.5
General repair business or private mechanic	691.0	672.0	9.7	3.3	6.0	5.3
Dealership service department	412.8	408.1	1.7	1.2	1.9	7.7
Leasing company	1.2	S	S	S	.7	23.8
Individual not employed/paid by any maintenance type facility	616.3	596.1	10.2	2.4	7.6	5.8
Other	V	V	V	V	V	N
Not reported	59.4	58.8	.1	V	.4	23.4
Not applicable ²	56.0	52.0	1.0	1.2	1.7	23.4
Extensive repairs performed by:						
None performed	1 312.8	1 265.0	19.4	8.3	20.1	2.4
Company-owned maintenance facility	14.8	S	.5	.9	2.6	40.1
General repair business or private mechanic	132.9	128.2	1.6	1.0	2.2	15.0
Dealership service department	81.7	79.0	1.2	S	1.3	19.6
Leasing company	S	V	S	S	S	S
Component distributorship (engine, transmission, body, etc.)	S	V	S	V	.1	S
Individual not employed/paid by any repair type facility	63.2	62.2	S	S	.7	22.6
Other	V	V	V	V	V	N
Not reported	S	S	S	V	S	S
Not applicable ²	56.0	52.0	1.0	1.2	1.7	23.4
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	1 617.5	1 570.5	16.0	11.7	19.3	1.0
2 axles	1 606.3	1 570.5	15.9	11.5	8.5	1.0
3 axles	9.9	V	S	.1	9.7	4.3
4 axles	1.1	V	V	V	1.1	14.5
5 axles or more	S	V	V	V	S	S
Not reported	.1	V	S	S	S	43.8
Combinations	59.9	38.0	S	.8	9.7	21.0
Single-unit trucks with trailer	51.5	38.0	S	.5	1.7	24.4
3 axles	14.5	13.8	S	S	.4	47.0
4 axles	36.1	24.1	S	.4	.4	29.5
5 axles or more	.9	V	V	S	.9	16.1
Not reported	V	V	V	V	V	N
Truck-tractors with single trailer	8.3	V	V	.3	8.0	4.7
3 axles	.7	V	V	S	.6	28.0
4 axles	1.1	V	V	S	1.0	20.0
5 axles or more	6.1	V	V	S	6.0	5.1
Not reported	.5	V	V	V	.5	22.0
Truck-tractors with double trailers	S	V	V	V	S	S
5 axles	S	V	V	V	S	S
6 axles	V	V	V	V	V	N
7 axles	V	V	V	V	V	N
8 axles or more	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Truck-tractors with triple trailers	V	V	V	V	V	N
7 axles	V	V	V	V	V	N
8 axles	V	V	V	V	V	N
9 axles	V	V	V	V	V	N
10 axles or more	V	V	V	V	V	N
Not reported	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
TRUCK TYPE AND AXLE ARRANGEMENT—Con.						
Driving axles:						
1	527.5	486.7	18.5	11.7	10.6	6.4
2	1 149.6	1 121.8	S	.7	18.2	3.0
3 or more .....	.2	V	S	V	.1	36.9
Not reported .....	.2	V	S	S	S	39.9
Total liftable axles and locations ¹² :						
None	69.5	12.5	17.0	12.5	27.5	.9
1	1.4	V	V	V	1.4	13.4
Forward of the drive axle .....	.1	V	V	V	.1	43.8
Below the chassis	S	V	V	V	S	S
Beyond the chassis	1.0	V	V	V	1.0	14.7
Not reported .....	.1	V	V	V	.1	43.7
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 .....	.1	V	S	S	S	43.8
Not applicable ¹⁰	1 606.3	1 596.0	S	V	V	.6
Total liftable axles and number of braking axles:						
None	69.5	12.5	17.0	12.5	27.5	.9
1	1.4	V	V	V	1.4	13.4
0 braking .....	.1	V	V	V	.1	43.7
1 braking	1.3	V	V	V	1.3	14.2
Not reported	V	V	V	V	V	N
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 .....	.1	V	S	S	S	43.8
Not applicable ¹⁰	1 606.3	1 596.0	S	V	V	.6
CAB TYPE						
Conventional cab	62.1	11.3	13.4	11.5	25.9	1.3
With sleeper	1.6	V	V	S	1.6	11.6
Without sleeper	60.5	11.3	13.4	11.5	24.3	1.4
Not reported	V	V	V	V	V	N
Cab over engine	8.8	1.2	3.6	1.0	3.1	6.7
With sleeper .....	.8	V	V	V	.8	17.7
Without sleeper	8.0	1.2	3.6	1.0	2.3	7.2
Not reported	S	V	V	V	S	S
Cab forward of engine	V	V	V	V	V	N
Cab beside engine	S	V	V	V	S	S
Not reported .....	.2	V	S	S	S	37.0
Not applicable ¹⁰	1 606.3	1 596.0	S	V	V	.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.

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			Truck-tractor with triple trailers		
			Total	Single-unit truck with trailer	Truck-tractor with single trailer			Truck-tractor with double trailers
Total	1 677.4	1 617.5	59.9	51.5	8.3	S	V	X
Coefficient of variation (percent) .....	.6	1.0	21.0	24.4	4.7	S	N	X
BUSINESS¹								
For-hire transportation or warehousing	12.3	11.3	1.0	S	.8	S	V	39.8
Vehicle leasing or rental	19.4	19.0	.4	S	.3	V	V	39.0
Agriculture, forestry, fishing, or hunting	49.3	39.4	9.9	S	2.5	V	V	21.6
Mining	S	S	.2	S	.2	V	V	S
Utilities	14.1	13.6	.4	S	.2	V	V	42.2
Construction	137.7	134.1	3.6	1.3	2.3	V	V	14.2
Manufacturing	S	S	.7	.4	.3	V	V	S
Wholesale trade	S	S	.5	.4	.4	V	V	S
Retail trade	25.2	17.6	7.6	S	.5	V	V	33.1
Information services	S	S	V	V	V	V	V	S
Waste management, landscaping, or administrative/support services	14.0	13.7	.3	S	.1	V	V	42.4
Arts, entertainment, or recreation services	S	S	S	V	S	V	V	S
Accommodation or food services	S	S	.4	S	.4	V	V	S
Other services	29.5	26.0	3.5	S	.5	V	V	32.6
Personal transportation	1 233.0	1 205.5	27.5	27.5	.5	V	V	2.6
Not reported	36.5	32.6	3.9	S	.3	V	V	29.4
Not applicable ²	56.0	56.0	V	V	V	V	V	23.4
BODY TYPE								
Single-unit trucks	1 668.7	1 617.2	51.5	51.5	N	N	N	.6
Pickup	736.3	698.4	37.9	37.9	N	N	N	1.2
Minivan	136.4	136.4	V	V	N	N	N	14.6
Other light vans	98.9	95.5	S	S	N	N	N	17.5
Sport utility	634.6	627.8	S	S	N	N	N	3.9
Armored	S	S	V	V	N	N	N	S
Beverage .....	.8	.7	S	S	N	N	N	30.2
Concrete mixer	2.1	1.8	.3	.3	N	N	N	10.7
Concrete pumper .....	.2	.2	V	V	N	N	N	32.5
Crane .....	.6	.6	V	V	N	N	N	34.6
Curtainside	S	S	V	V	N	N	N	S
Dump	11.0	10.2	.8	.8	N	N	N	6.8
Flatbed, stake, or platform	16.1	14.8	1.3	1.3	N	N	N	5.8
Low boy	S	V	S	S	N	N	N	S
Pole, logging, pulpwood, or pipe	S	V	S	S	N	N	N	S
Service, utility	3.7	3.3	.4	.4	N	N	N	14.3
Service, other	2.7	2.6	S	S	N	N	N	16.3
Street sweeper .....	.1	.1	V	V	N	N	N	48.9
Tank, dry bulk .....	.4	.4	V	V	N	N	N	35.2
Tank, liquids or gases	3.2	3.2	V	V	N	N	N	14.0
Tow/Wrecker .....	.9	.8	S	S	N	N	N	28.9
Trash, garbage, or recycling	1.9	1.9	V	V	N	N	N	14.8
Vacuum	S	S	V	V	N	N	N	S
Van, basic enclosed	6.9	6.8	S	S	N	N	N	9.5
Van, insulated nonrefrigerated .....	.4	.4	V	V	N	N	N	41.0
Van, insulated refrigerated .....	.8	.8	V	V	N	N	N	29.2
Van, open top	4.0	3.9	S	S	N	N	N	11.8
Van, step, walk-in, or multistop	5.3	5.3	V	V	N	N	N	11.5
Van, other .....	.7	.6	S	S	N	N	N	32.9
Other	S	S	V	V	N	N	N	S
Truck-tractors	8.7	.3	8.4	N	8.3	S	V	4.7
Automobile carrier	S	N	S	N	S	V	V	S
Beverage .....	.3	N	.3	N	.3	V	V	33.6
Curtainside	S	N	S	N	S	V	V	S
Dump	1.8	N	1.8	N	1.8	V	V	10.7
Flatbed, stake, or platform	1.7	N	1.7	N	1.7	V	V	11.5
Livestock .....	.2	N	.2	N	.2	V	V	32.5
Low boy .....	.7	N	.7	N	.7	V	V	17.8
Mobile home toter	S	N	S	N	S	V	V	S
Open top	1.0	N	1.0	N	1.0	V	V	14.9
Pole, logging, pulpwood, or pipe	S	N	S	N	S	V	V	S
Tank, dry bulk	S	N	S	N	S	V	V	S
Tank, liquids or gases .....	.3	N	.3	N	.3	V	V	29.4
Van, basic enclosed	1.4	N	1.4	N	1.4	S	V	17.4
Van, drop-frame	S	N	S	N	S	V	V	S
Van, insulated nonrefrigerated	V	N	V	N	V	V	V	N
Van, insulated refrigerated .....	.5	N	.5	N	.5	V	V	30.6
Other	V	N	V	N	V	V	V	N
Not applicable ³ .....	.3	.3	V	N	V	V	V	35.8
ANNUAL MILES								
Less than 5,000	296.7	283.2	13.5	S	2.5	V	V	9.2
5,000 to 9,999	366.8	351.0	15.8	14.6	1.2	V	V	8.4
10,000 to 19,999	674.2	654.3	19.8	18.2	1.6	V	V	5.4
20,000 to 29,999	190.5	189.1	1.4	.4	1.0	V	V	12.3
30,000 to 49,999	84.6	76.3	S	S	1.1	S	V	19.0
50,000 to 74,999	S	S	.7	S	.6	V	V	S
75,000 or more .....	.3	V	.3	V	.3	V	V	33.6
Not applicable ²	56.0	56.0	V	V	V	V	V	23.4

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
PRIMARY RANGE OF OPERATION								
Off-the-road	25.1	24.4	.7	S	.5	V	V	33.3
50 miles or less	1 225.4	1 187.1	38.3	33.4	4.9	S	V	2.7
51 to 100 miles	121.9	116.4	S	S	1.5	V	V	15.6
101 to 200 miles	46.5	39.3	S	S	.4	V	V	26.2
201 to 500 miles	21.5	21.2	.2	S	.2	V	V	38.9
501 miles or more	55.5	55.4	S	V	S	V	V	24.3
Not reported	125.5	117.8	S	S	.7	V	V	15.6
Not applicable ²	56.0	56.0	V	V	V	V	V	23.4
PRIMARY JURISDICTION								
Operated in Canada	V	V	V	V	V	V	V	N
Operated in Mexico	V	V	V	V	V	V	V	N
Operated within the home base state	1 447.5	1 395.3	52.2	44.5	7.7	S	V	1.9
Operated in states other than the home base state	55.9	52.3	S	S	S	V	V	24.1
Not reported	118.0	113.9	S	S	.5	V	V	16.0
Not applicable ²	56.0	56.0	V	V	V	V	V	23.4
MONTHS OPERATED								
12	1 099.2	1 066.1	33.0	29.5	3.5	S	V	3.2
7 to 11	264.1	251.4	12.7	S	1.4	V	V	10.3
2 to 6	198.9	185.6	13.2	S	2.5	V	V	11.9
1 or less	59.3	58.4	1.0	S	.9	V	V	22.0
Vehicle not used	56.0	56.0	V	V	V	V	V	23.4
VEHICLE SIZE								
Light	1 608.5	1 570.5	38.0	38.0	V	V	V	.7
Medium	27.4	16.0	S	S	V	V	V	21.9
Light-heavy	12.5	11.7	.8	.5	.3	V	V	7.0
Heavy-heavy	29.0	19.3	9.7	1.7	8.0	S	V	2.8
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	1 220.1	1 209.8	S	S	V	V	V	2.7
6,001 to 8,500	306.6	285.9	20.7	20.7	V	V	V	9.4
8,501 to 10,000	81.8	74.8	S	S	V	V	V	19.2
10,001 to 14,000	19.5	9.1	S	S	V	V	V	30.6
14,001 to 16,000	3.8	3.3	.4	.4	V	V	V	13.2
16,001 to 19,500	4.1	3.6	.5	.5	V	V	V	13.2
19,501 to 26,000	12.5	11.7	.8	.5	.3	V	V	7.0
26,001 to 33,000	5.6	5.0	.6	.4	.2	V	V	10.7
33,001 to 40,000	3.8	3.1	.6	.5	.5	V	V	11.4
40,001 to 50,000	5.4	4.6	.8	.5	.5	V	V	8.0
50,001 to 60,000	6.7	5.2	1.5	.2	1.3	V	V	6.1
60,001 to 80,000	5.8	1.3	4.4	.5	3.9	S	V	5.9
80,001 to 100,000	1.6	S	1.6	.1	1.5	V	V	11.6
100,001 to 130,000 .....	.1	V	.1	V	.1	V	V	43.8
130,001 or more	V	V	V	V	V	V	V	N
TOTAL LENGTH (FEET)								
Less than 20.0	1 405.5	1 405.5	V	V	V	V	V	1.9
20.0 to 27.9	156.9	149.7	S	S	V	V	V	12.9
28.0 to 35.9	76.8	58.6	18.3	18.2	S	V	V	19.1
36.0 to 40.9	17.6	2.1	15.5	14.6	.9	V	V	38.9
41.0 to 44.9	S	1.0	S	S	.5	V	V	S
45.0 to 49.9	S	S	S	S	.7	V	V	S
50.0 to 54.9	1.5	.3	1.2	.2	1.0	V	V	15.1
55.0 to 59.9	2.6	V	2.6	.4	2.2	V	V	10.7
60.0 to 64.9	2.2	V	2.2	S	2.0	V	V	10.9
65.0 to 69.9 .....	.9	V	.9	S	.8	V	V	16.6
70.0 to 74.9 .....	.3	V	.3	S	.2	S	V	29.4
75.0 to 79.9	V	V	V	V	V	V	V	N
80.0 or more	V	V	V	V	V	V	V	N
MILES PER GALLON								
Less than 5	7.0	5.0	2.0	.6	1.4	V	V	7.5
5 to 6.9	13.6	9.1	4.5	.5	3.9	S	V	5.6
7 to 8.9	10.6	9.1	1.5	.4	1.1	V	V	7.2
9 to 10.9	106.9	95.6	S	S	.4	V	V	16.5
11 to 12.9	140.3	129.5	S	S	S	V	V	14.6
13 to 14.9	104.9	101.2	S	S	S	V	V	17.3
15 or more	1 047.0	1 029.9	17.2	17.2	V	V	V	3.4
15 to 20.9	838.5	828.2	S	S	V	V	V	4.5
21 to 24.9	123.0	119.6	S	S	V	V	V	15.9
25 or more	85.5	82.1	S	S	V	V	V	19.5
Not reported	191.1	182.2	S	S	1.4	V	V	12.2
Not applicable ²	56.0	56.0	V	V	V	V	V	23.4

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	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
MODEL YEAR								
2003	S	S	S	S	V	V	V	S
2002	59.3	59.1	.2	.2	.2	.2	.2	23.3
2001	152.9	149.1	.8	.8	.5	.5	.5	14.1
2000	121.0	113.3	.8	.8	.5	.5	.5	15.9
1999	124.1	123.2	.8	.3	.5	.5	.5	15.7
1998	122.2	121.9	.3	V	.3	V	V	15.9
1997	119.7	118.9	.7	.4	.3	V	V	16.1
1996	115.2	114.8	.4	S	.4	V	V	16.5
1995	123.6	119.5	.8	S	.5	V	V	15.7
1994	99.3	94.8	.8	S	.9	V	V	17.7
1993	74.1	66.9	.8	S	.2	V	V	20.7
Pre-1993	566.0	535.9	30.1	25.6	4.5	S	V	6.1
VEHICLE ACQUISITION								
New	634.2	613.6	20.7	18.3	2.3	S	V	5.7
Used	937.5	898.7	38.8	33.0	5.8	V	V	4.0
Not reported	105.6	105.2	.5	S	.2	V	V	17.2
LEASE CHARACTERISTICS								
Leased	108.7	103.9	S	S	1.0	V	V	16.7
Lessee	96.6	92.3	S	S	.6	V	V	17.9
Vehicle only	4.3	3.4	.9	.3	.6	V	V	11.4
Vehicle with driver	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	92.3	88.9	S	S	V	V	V	18.7
Lessor	1.8	1.3	.5	S	.4	V	V	18.4
Vehicle only	1.8	1.3	.5	S	.4	V	V	18.8
Vehicle with driver	S	S	S	S	V	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not leased	899.1	864.6	34.5	29.4	5.1	V	V	4.2
Not reported	669.5	649.0	20.5	18.3	2.2	S	V	5.5
Length of leasing agreement:								
Leased	108.7	103.9	S	S	1.0	V	V	16.7
1 to 11 months	S	S	S	V	S	V	V	S
12 months or more	6.0	4.6	1.4	.4	1.0	V	V	9.7
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	102.6	99.1	S	S	V	V	V	17.7
Provisions of lease ⁵ :								
Financing only	4.8	3.7	1.1	.4	.8	V	V	10.8
Full maintenance	2.1	1.6	.6	S	.4	V	V	17.4
Payment of taxes	2.1	1.6	.5	S	.4	V	V	17.3
Obtaining licenses and permits	1.8	1.4	.5	S	.4	V	V	18.4
Recordkeeping	1.3	.9	.4	S	.3	V	V	22.6
Fuel contract	.8	.4	.4	S	.3	V	V	27.9
PRIMARY OPERATOR CLASSIFICATION								
Private	345.4	319.0	26.4	20.0	6.4	V	V	8.2
Motor carrier	13.6	12.3	1.2	S	1.0	S	V	36.0
Owner operator	S	S	S	S	.5	V	V	S
Rental	20.0	19.5	.5	S	.4	V	V	37.9
Personal transportation	1 233.1	1 205.5	27.6	27.6	V	V	V	2.6
Not applicable ²	56.0	56.0	V	V	V	V	V	23.4
For-hire characteristics:								
Type of carrier:								
Contract	2.1	1.6	.5	S	.4	V	V	16.4
Common	4.9	3.7	1.2	S	1.0	S	V	10.8
Not reported	2.1	1.9	.6	S	.5	V	V	17.2
Not applicable ⁶	1 668.2	1 610.3	57.9	51.1	6.8	V	V	.6
Type of service:								
Truckload	3.5	2.4	1.1	.1	1.0	V	V	11.2
Less-than truckload	3.8	3.1	.7	S	.5	S	V	13.6
Not reported	1.9	1.7	.6	S	.5	V	V	18.1
Not applicable ⁶	1 668.2	1 610.3	57.9	51.1	6.8	V	V	.6
Source of hauls:								
Shippers or receivers	4.7	3.7	1.0	S	.9	S	V	11.3
Brokers	.5	.3	.2	V	.6	V	V	35.0
Centralized markets or exchanges	.3	.3	.3	V	.3	V	V	39.1
Other	V	V	V	V	V	V	V	N
Not reported	3.6	2.9	.7	.3	.4	V	V	12.3
Not applicable ⁶	1 668.2	1 610.3	57.9	51.1	6.8	V	V	.6
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	2.5	2.1	.5	V	.5	S	V	16.2
Not carrying hazardous materials	54.3	44.3	10.0	3.1	6.9	V	V	1.9
Not reported	6.5	5.8	.7	S	.6	V	V	9.8
Not applicable ⁸	1 614.0	1 565.3	48.7	48.3	.4	V	V	.6
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	1.4	1.2	S	S	V	V	V	23.4
Air bag(s) (safety device only)	909.2	891.1	18.1	17.6	.5	V	V	4.0
Air compressor (except air brakes)	4.1	3.2	.9	.3	.6	V	V	11.2
Air-conditioning	1 275.4	1 230.5	44.9	39.4	5.5	V	V	2.4
Air springs	4.2	1.8	2.5	S	2.4	V	V	8.4

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination			Truck-tractor with triple trailers		
			Total	Single-unit truck with trailer	Truck-tractor with single trailer			Truck-tractor with double trailers
EQUIPMENT TYPE^{5 9}—Con.								
Antilock brake system	927.9	893.8	34.0	32.1	1.9	V	V	4.0
Collision warning system	1.0	.9	S	V	S	V	V	27.7
Computerized drive train control unit	206.4	202.5	S	S	.4	V	V	11.8
Crane	2.1	1.9	S	V	V	V	V	18.1
Electronic vehicle identification device	.8	.6	.2	S	.1	V	V	24.8
Engine retarder/brake	13.4	7.2	6.2	1.1	5.0	V	V	4.1
Front-wheel drive	1 126.2	1 088.4	37.7	37.7	V	V	V	3.1
Hoist	13.2	12.6	.5	.5	V	V	V	6.3
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	1.1	.8	.4	V	.4	V	V	21.9
Internet access	S	S	V	V	V	V	V	S
Lift gate	4.6	4.5	S	S	V	V	V	11.8
Mounting bar for snowplow	28.6	28.6	S	S	V	V	V	33.6
Navigational system	S	S	V	V	V	V	V	S
Power take-off	23.0	19.0	4.0	1.2	2.7	V	V	4.1
Radial tires	1 118.8	1 076.1	42.7	36.5	6.2	S	V	3.2
Reflective material in addition to those required by law	7.7	6.6	1.1	.3	.8	V	V	8.3
Road speed governor	13.5	10.2	3.3	.7	2.6	V	V	6.0
Toolbox	163.6	143.1	20.5	18.7	1.9	V	V	12.8
Trip recorder or on-board computer with communication capabilities	60.4	53.2	S	S	S	V	V	23.0
Trip recorder or on-board computer without communication capabilities	268.2	261.0	S	S	.3	V	V	10.3
Vehicle control aids for handicapped drivers	S	S	V	V	V	V	V	S
Wheelchair lift	V	V	V	V	V	V	V	N
Winch	27.3	26.9	.4	S	.1	V	V	33.1
Transmission type:								
Automatic	1 113.3	1 081.1	32.2	32.0	.2	V	V	3.0
Manual	498.4	471.4	27.0	19.3	7.7	S	V	6.6
Semiautomated manual	.4	.3	S	S	V	V	V	43.3
Automated manual	S	S	S	V	S	V	V	S
Not reported	61.7	61.2	.5	S	.3	V	V	22.3
Braking system:								
Hydraulic (standard)	24.1	22.9	1.2	1.1	S	V	V	4.3
Hydraulic with power assist	17.6	16.4	1.1	1.1	S	V	V	5.5
Air	25.7	16.7	9.0	1.2	7.8	S	V	3.0
Other	V	V	V	V	V	V	V	N
Not reported	3.7	3.3	.4	S	.3	V	V	13.3
Not applicable ¹⁰	1 606.3	1 558.2	48.1	48.1	V	V	V	.6
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	1 480.1	1 444.6	35.5	35.5	S	V	V	1.6
Diesel	123.1	98.7	24.4	16.1	8.3	S	V	12.9
Natural gas	V	V	V	V	V	V	V	N
Propane	.8	.8	V	V	V	V	V	31.2
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	17.3	17.3	V	V	V	V	V	44.1
Other	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	56.0	56.0	V	V	V	V	V	23.4
Cylinders¹¹:								
4 cylinders	177.0	170.1	S	S	V	V	V	13.1
6 cylinders	760.5	745.2	15.3	S	7.1	S	V	4.7
8 cylinders	679.7	646.9	32.8	32.6	.2	V	V	5.2
Other	60.2	55.3	S	S	1.1	V	V	20.2
Cubic inch displacement¹¹:								
Gasoline fuel	1 480.1	1 444.6	35.5	35.5	S	V	V	1.6
Less than 200	379.8	372.9	S	S	V	V	V	8.3
200 to 299	523.8	523.8	V	V	V	V	V	6.4
300 to 349	206.1	206.1	V	V	V	V	V	12.0
350 to 399	238.2	220.5	17.7	17.7	V	V	V	10.9
400 or more	95.4	84.6	S	S	V	V	V	17.6
Not available	36.8	36.7	S	S	S	V	V	26.2
Diesel fuel	123.1	98.7	24.4	16.1	8.3	S	V	12.9
Less than 400	42.6	35.3	S	S	S	V	V	25.0
400 to 599	61.9	53.2	S	S	.8	V	V	20.2
600 to 799	6.9	4.1	2.8	.5	2.3	V	V	5.9
800 or more	6.1	2.3	3.8	.3	3.5	S	V	5.4
Not available	5.6	3.7	1.9	.2	1.7	V	V	7.8
Other fuel	18.1	18.1	V	V	V	V	V	42.1
Less than 400	S	S	V	V	V	V	V	S
400 or more	S	S	V	V	V	V	V	S
Not available	S	S	V	V	V	V	V	S
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	56.0	56.0	V	V	V	V	V	23.4
REFUELING LOCATION								
Gas station	1 480.0	1 431.1	48.9	46.5	2.4	V	V	1.6
Truck stop	15.6	13.5	2.0	.5	1.6	V	V	38.2
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	67.3	59.1	8.1	S	3.7	S	V	17.5
Other company's/contractor's facility not open to the public	S	S	.7	S	.6	V	V	S
Other	V	V	V	V	V	V	V	N
Not reported	52.6	52.4	.2	V	.2	V	V	24.8
Not applicable ²	56.0	56.0	V	V	V	V	V	23.4

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	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	66.7	63.2	S	S	.1	V	V	21.9
Company-owned maintenance facility	138.9	133.3	5.6	1.9	3.6	S	V	13.5
General repair business or private mechanic	691.0	667.2	23.7	21.6	2.1	V	V	5.3
Dealership service department	412.8	401.4	S	S	.5	V	V	7.7
Leasing company	1.2	.7	.5	S	S	V	V	23.8
Individual not employed/paid by any maintenance type facility								
Other	616.3	582.0	34.4	31.6	2.7	V	V	5.8
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	59.4	59.3	.1	V	.1	V	V	23.4
Not applicable ²	56.0	56.0	V	V	V	V	V	23.4
Extensive repairs performed by:								
None performed	1 312.8	1 276.8	36.1	29.9	6.1	S	V	2.4
Company-owned maintenance facility	14.8	13.8	1.0	.4	.6	V	V	40.1
General repair business or private mechanic	132.9	121.4	S	S	.8	V	V	15.0
Dealership service department	81.7	73.9	S	S	6.7	V	V	19.6
Leasing company	S	S	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)								
Individual not employed/paid by any repair type facility	63.2	56.0	S	S	.3	V	V	22.6
Other	V	V	V	V	V	V	V	N
Not reported	S	S	S	V	S	V	V	S
Not applicable ²	56.0	56.0	V	V	V	V	V	23.4
AXLE ARRANGEMENT								
Driving axles:								
1	527.5	513.2	14.3	12.5	1.8	S	V	6.4
2	1 149.6	1 104.0	45.6	39.0	6.5	V	V	3.0
3 or more	.2	.1	S	S	S	V	V	36.9
Not reported	.2	.2	V	V	V	V	V	39.9
Total liftable axles and locations ¹² :								
None	69.5	58.0	11.5	3.2	8.3	S	V	.9
1	1.4	1.2	.3	.3	V	V	V	13.4
Forward of the drive axle	.1	.1	V	V	V	V	V	43.8
Below the chassis	S	S	V	V	V	V	V	S
Beyond the chassis	1.0	.8	.3	.3	V	V	V	14.7
Not reported	.1	.1	V	V	V	V	V	43.7
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	.1	.1	V	V	V	V	V	43.8
Not applicable ¹⁰	1 606.3	1 558.2	48.1	48.1	V	V	V	.6
Total liftable axles and number of braking axles:								
None	69.5	58.0	11.5	3.2	8.3	S	V	.9
1	1.4	1.2	.3	.3	V	V	V	13.4
0 braking	.1	.1	S	S	V	V	V	43.7
1 braking	1.3	1.1	.2	.2	V	V	V	14.2
Not reported	V	V	V	V	V	V	V	N
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	.1	.1	V	V	V	V	V	43.8
Not applicable ¹⁰	1 606.3	1 558.2	48.1	48.1	V	V	V	.6
CAB TYPE								
Conventional cab								
With sleeper	62.1	51.3	10.8	3.4	7.4	S	V	1.3
Without sleeper	1.6	V	1.6	V	1.6	V	V	11.6
Not reported	60.5	51.3	9.2	3.4	5.8	S	V	1.4
Not reported	V	V	V	V	V	V	V	N
Cab over engine								
With sleeper	8.8	7.8	1.0	S	1.0	V	V	6.7
Without sleeper	.8	.1	.7	V	.7	V	V	17.7
Not reported	8.0	7.7	.3	S	.3	V	V	7.2
Not reported	S	V	S	V	S	V	V	S
Cab forward of engine								
Cab beside engine	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not reported	.2	.2	V	V	V	V	V	37.0
Not applicable ¹⁰	1 606.3	1 558.2	48.1	48.1	V	V	V	.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 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	19 748.7	18 959.2	277.0	145.5	367.1	X
Coefficient of variation (percent)	3.3	3.5	16.1	12.2	4.4	X
BUSINESS¹						
For-hire transportation or warehousing	256.3	S	39.5	20.8	35.4	45.2
Vehicle leasing or rental	285.2	233.4	9.3	25.1	17.4	37.9
Agriculture, forestry, fishing, or hunting	251.8	179.0	S	S	36.1	35.8
Mining	S	S	S	S	11.1	S
Utilities	S	S	18.8	S	15.4	S
Construction	2 238.5	2 056.3	54.6	23.8	103.8	16.9
Manufacturing	95.5	S	2.7	S	36.5	44.2
Wholesale trade	106.6	S	9.0	15.2	21.3	48.8
Retail trade	510.9	431.8	29.6	23.0	26.4	40.4
Information services	S	S	S	S	S	S
Waste management, landscaping, or administrative/support services	110.4	S	4.2	13.8	38.0	32.5
Arts, entertainment, or recreation services	S	S	S	V	S	S
Accommodation or food services	S	S	S	S	9.2	S
Other services	489.1	468.2	13.6	S	5.3	41.9
Personal transportation	14 142.6	14 097.9	S	V	V	4.4
Not reported	443.2	418.0	7.2	8.9	9.1	37.2
Not applicable ²	S	S	V	V	.5	S
BODY TYPE						
Single-unit trucks	19 576.9	18 959.2	277.0	131.9	208.8	3.3
Pickup	7 913.8	7 845.7	S	V	V	5.8
Minivan	1 976.3	1 976.3	V	V	V	16.1
Other light vans	1 022.9	1 022.9	V	V	V	26.1
Sport utility	7 999.5	7 999.5	V	V	V	6.2
Armored	S	V	V	S	V	S
Beverage	13.8	V	S	S	8.5	35.3
Concrete mixer	37.9	V	V	V	37.9	12.0
Concrete pumper	4.3	V	V	V	4.3	46.5
Crane	S	V	S	S	S	S
Curtainside	S	V	V	V	S	S
Dump	66.2	3.1	12.4	4.1	46.5	10.5
Flatbed, stake, or platform	176.5	45.3	69.4	31.8	30.0	9.2
Low boy	S	V	V	V	S	S
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Service, utility	42.7	12.9	21.1	S	4.7	18.4
Service, other	31.7	10.1	8.3	10.0	3.3	21.7
Street sweeper	S	V	S	V	V	S
Tank, dry bulk	1.7	V	S	V	1.2	42.1
Tank, liquids or gases	21.1	S	S	S	11.9	22.7
Tow/Wrecker	18.0	V	S	S	S	41.8
Trash, garbage, or recycling	39.4	S	V	S	32.0	16.1
Vacuum	S	V	V	V	S	S
Van, basic enclosed	90.4	11.3	25.2	46.1	7.8	12.5
Van, insulated nonrefrigerated	S	S	S	S	V	S
Van, insulated refrigerated	15.8	S	6.8	S	S	31.3
Van, open top	7.8	V	S	.2	5.1	25.7
Van, step, walk-in, or multistop	68.5	25.1	33.5	9.8	S	14.9
Van, other	12.7	S	S	S	V	42.3
Other	S	V	V	V	S	S
Truck-tractors	171.9	V	V	S	158.3	9.3
Automobile carrier	S	V	V	V	S	S
Beverage	5.9	V	V	S	4.5	35.6
Curtainside	S	V	V	V	S	S
Dump	44.1	V	V	V	44.1	15.8
Flatbed, stake, or platform	18.1	V	V	V	18.1	19.4
Livestock	1.0	V	V	V	1.0	44.7
Low boy	15.1	V	V	S	15.1	24.6
Mobile home toter	S	V	V	V	S	S
Open top	10.7	V	V	V	10.7	38.6
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Tank, dry bulk	S	V	V	V	S	S
Tank, liquids or gases	8.0	V	V	V	8.0	38.8
Van, basic enclosed	52.2	V	V	S	42.2	24.4
Van, drop-frame	S	V	V	V	S	S
Van, insulated nonrefrigerated	V	V	V	V	V	N
Van, insulated refrigerated	12.0	V	V	S	9.9	35.5
Other	V	V	V	V	V	N
Not applicable ³	V	V	V	V	V	N
ANNUAL MILES						
Less than 5,000	585.1	539.7	S	6.1	19.1	12.1
5,000 to 9,999	2 592.7	2 481.5	S	11.0	28.8	8.7
10,000 to 19,999	8 957.4	8 800.9	54.5	34.5	67.6	5.6
20,000 to 29,999	4 227.2	4 041.1	65.5	49.2	71.3	12.4
30,000 to 49,999	2 919.6	2 738.7	50.6	30.4	99.9	19.2
50,000 to 74,999	S	S	14.7	S	54.5	S
75,000 or more	35.3	V	V	S	25.3	36.0
Not applicable ²	S	S	V	V	.5	S
PRIMARY RANGE OF OPERATION						
Off-the-road	195.7	182.5	3.2	S	9.2	46.2
50 miles or less	14 804.2	14 285.9	208.7	75.0	234.6	4.6
51 to 100 miles	1 661.7	1 544.4	32.0	15.2	70.2	17.4
101 to 200 miles	880.9	847.2	S	11.4	15.6	31.6
201 to 500 miles	386.4	371.9	S	S	S	42.3
501 miles or more	487.3	468.0	V	S	S	27.8
Not reported	1 324.2	1 251.6	22.1	24.0	26.5	18.7
Not applicable ²	S	S	V	V	.5	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.....	V	V	V	V	V	N
Operated in Mexico.....	V	V	V	V	V	N
Operated within the home base state.....	17 531.4	16 826.7	257.2	105.6	341.9	3.7
Operated in states other than the home base state.....	853.0	829.2	S	S	S	30.2
Not reported.....	1 356.0	1 295.6	13.6	25.3	21.5	21.1
Not applicable ²	S	S	V	V	.5	S
MONTHS OPERATED						
12.....	14 794.4	14 200.3	226.0	114.4	253.7	4.7
7 to 11.....	3 420.2	3 304.3	39.6	15.3	61.0	12.4
2 to 6.....	1 454.0	1 382.5	10.1	13.9	47.6	18.5
1 or less.....	71.8	64.4	S	1.9	4.3	38.5
Vehicle not used.....	S	S	V	V	.5	S
AVERAGE WEIGHT (POUNDS)						
Less than 6,001.....	13 785.6	13 785.6	N	N	N	4.7
6,001 to 8,500.....	4 184.5	4 184.5	N	N	N	12.2
8,501 to 10,000.....	989.1	989.1	N	N	N	23.8
10,001 to 14,000.....	176.3	N	176.3	N	N	24.4
14,001 to 16,000.....	43.1	N	43.1	N	N	17.1
16,001 to 19,500.....	57.5	N	57.5	N	N	18.5
19,501 to 26,000.....	145.5	N	N	145.5	N	12.2
26,001 to 33,000.....	47.7	N	N	N	47.7	15.6
33,001 to 40,000.....	33.1	N	N	N	33.1	17.3
40,001 to 50,000.....	49.0	N	N	N	49.0	12.2
50,001 to 60,000.....	76.0	N	N	N	76.0	9.5
60,001 to 80,000.....	132.9	N	N	N	132.9	8.8
80,001 to 100,000.....	23.8	N	N	N	23.8	17.5
100,001 to 130,000.....	S	N	N	N	S	S
130,001 or more.....	V	N	N	N	V	N
TOTAL LENGTH (FEET)						
Less than 20.0.....	16 134.4	16 016.7	88.6	14.1	15.0	4.1
20.0 to 27.9.....	1 959.7	1 752.0	82.5	56.9	68.3	16.5
28.0 to 35.9.....	1 195.6	1 024.5	S	44.5	78.3	24.1
36.0 to 40.9.....	178.9	S	S	S	35.4	36.0
41.0 to 44.9.....	S	S	S	S	14.6	S
45.0 to 49.9.....	S	S	S	S	19.5	S
50.0 to 54.9.....	26.5	V	S	S	25.5	19.6
55.0 to 59.9.....	49.3	V	S	S	46.6	14.5
60.0 to 64.9.....	44.9	V	V	S	44.8	17.2
65.0 to 69.9.....	17.0	V	V	V	17.0	26.8
70.0 to 74.9.....	2.1	V	V	V	2.1	44.1
75.0 to 79.9.....	V	V	V	V	V	N
80.0 or more.....	V	V	V	V	V	N
MILES PER GALLON						
Less than 5.....	101.1	S	S	4.5	90.2	9.6
5 to 6.9.....	169.1	S	11.7	22.2	134.0	7.8
7 to 8.9.....	115.8	9.4	27.0	26.6	52.8	10.8
9 to 10.9.....	1 147.6	1 048.8	53.2	19.8	25.8	25.6
11 to 12.9.....	1 280.9	1 223.4	36.8	10.8	9.9	20.1
13 to 14.9.....	987.6	972.1	15.1	S	S	21.0
15 or more.....	13 477.1	13 391.2	83.3	S	S	4.9
15 to 20.9.....	10 575.2	10 489.4	83.3	S	S	5.9
21 to 24.9.....	1 678.7	1 678.7	V	V	V	18.6
25 or more.....	1 223.2	1 223.2	V	V	V	24.6
Not reported.....	2 461.2	2 302.0	46.6	59.4	53.2	15.3
Not applicable ²	S	S	V	V	.5	S
MODEL YEAR						
2003.....	S	V	V	V	S	S
2002.....	856.4	827.5	11.0	S	15.0	24.7
2001.....	2 648.5	2 609.0	12.0	S	21.3	16.0
2000.....	2 019.2	1 901.6	41.3	29.5	46.8	18.8
1999.....	1 518.4	1 412.2	31.2	30.1	45.0	16.9
1998.....	1 835.6	1 792.8	19.1	7.1	16.7	17.6
1997.....	1 773.5	1 718.6	17.5	15.2	22.2	17.3
1996.....	1 630.2	1 603.1	S	S	16.6	19.3
1995.....	1 622.1	1 549.2	S	S	31.5	17.5
1994.....	1 137.6	1 089.8	11.0	4.3	32.6	20.9
1993.....	810.1	785.4	9.3	S	10.2	25.9
Pre-1993.....	3 894.4	3 670.1	87.4	30.2	106.7	11.0
VEHICLE ACQUISITION						
New.....	8 398.9	7 940.6	185.3	91.7	181.2	7.4
Used.....	10 129.3	9 831.3	81.3	51.5	165.2	6.2
Not reported.....	1 220.6	1 187.4	10.3	S	20.6	20.8
LEASE CHARACTERISTICS						
Leased.....	1 904.0	1 756.1	38.8	35.3	73.8	19.7
Lessee.....	1 721.1	1 623.0	33.5	13.4	51.2	21.4
Vehicle only.....	94.3	10.0	19.7	13.4	51.2	12.6
Vehicle with driver.....	V	V	V	V	V	N
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	1 626.8	1 613.0	S	V	V	22.6
Lessor.....	49.4	V	5.0	21.9	22.5	18.4
Vehicle only.....	48.5	V	5.0	21.9	21.7	18.6
Vehicle with driver.....	S	V	V	V	S	S
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	V	V	V	V	V	N
Not reported.....	S	S	S	V	V	S
Not leased.....	10 827.4	10 372.2	174.1	76.0	205.2	6.0
Not reported.....	7 017.3	6 831.0	64.1	34.1	88.1	7.7

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
LEASE CHARACTERISTICS—Con.						
Length of leasing agreement:						
Leased	1 904.0	1 756.1	38.8	35.3	73.8	19.7
1 to 11 months	S	V	V	S	S	S
12 months or more	140.3	10.0	25.1	33.0	72.2	10.4
Not reported	V	V	V	V	V	N
Not applicable ⁴	1 759.9	1 746.1	S	V	V	21.3
Provisions of lease ⁵ :						
Financing only	112.8	9.8	19.3	23.7	59.9	11.6
Full maintenance	49.6	S	6.1	18.6	24.9	17.6
Payment of taxes	48.2	S	7.7	16.7	23.1	17.4
Obtaining licenses and permits	43.7	V	6.9	15.6	21.2	18.3
Recordkeeping	31.7	V	S	10.6	18.7	22.3
Fuel contract	20.1	V	S	S	14.5	27.3
PRIMARY OPERATOR CLASSIFICATION						
Private	4 882.6	4 352.9	178.0	91.6	260.0	11.2
Motor carrier	198.8	S	40.6	23.8	57.0	28.8
Owner operator	S	S	S	S	25.2	S
Rental	295.1	236.5	9.3	25.1	24.2	36.7
Personal transportation	14 142.7	14 097.9	S	V	V	4.4
Not applicable ²	S	S	V	V	.5	S
For-hire characteristics:						
Type of carrier:						
Contract	43.6	S	S	12.1	23.3	18.0
Common	91.0	5.3	26.0	11.9	47.8	12.8
Not reported	30.5	S	12.5	S	11.1	24.8
Not applicable ⁶	19 583.5	18 950.0	232.0	116.7	284.8	3.3
Type of service:						
Truckload	73.0	S	S	S	53.2	14.4
Less-than truckload	62.7	5.0	23.7	15.9	18.2	14.9
Not reported	29.5	S	12.5	S	10.8	25.7
Not applicable ⁶	19 583.5	18 950.0	232.0	116.7	284.8	3.3
Source of hauls:						
Shippers or receivers	93.5	S	27.9	16.7	46.6	12.7
Brokers	8.2	S	S	S	4.4	39.6
Centralized markets or exchanges	7.1	S	V	V	3.5	39.8
Other	V	V	V	V	V	N
Not reported	56.5	S	14.4	11.7	27.7	17.4
Not applicable ⁶	19 583.5	18 950.0	232.0	116.7	284.8	3.3
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	40.3	S	6.2	11.1	21.7	19.8
Not carrying hazardous materials	657.4	92.7	169.7	98.5	296.5	4.0
Not reported	74.1	16.3	23.0	10.8	24.0	13.6
Not applicable ⁸	18 976.9	18 849.0	S	25.1	24.8	3.4
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	10.8	S	5.4	S	S	29.6
Air bag(s) (safety device only)	12 817.8	12 669.5	102.3	28.0	17.9	5.2
Air compressor (except air brakes)	54.2	2.5	S	S	35.5	16.3
Air-conditioning	16 355.4	15 826.6	185.1	90.3	253.4	4.0
Air springs	81.6	V	S	S	72.6	12.1
Antilock brake system	13 064.1	12 732.6	146.2	52.8	132.5	5.2
Collision warning system	15.2	S	12.3	V	S	31.4
Computerized drive train control unit	2 812.3	2 785.5	8.5	V	18.4	13.5
Crane	27.2	6.0	S	S	9.1	22.9
Electronic vehicle identification device	20.4	S	V	S	12.8	28.1
Engine retarder/brake	219.5	7.9	18.4	11.5	181.7	6.4
Front-wheel drive	13 386.0	13 348.2	S	V	V	4.9
Hoist	78.0	7.6	27.3	7.9	35.2	12.9
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	24.0	V	7.4	S	15.7	24.9
Internet access	S	V	V	V	S	S
Lift gate	75.9	11.1	21.3	28.7	14.9	14.7
Mounting bar for snowplow	S	S	S	S	S	S
Navigational system	S	V	S	V	S	S
Power take-off	232.9	4.7	35.1	26.5	166.5	6.7
Radial tires	13 130.3	12 570.1	208.6	87.8	263.9	4.9
Reflective material in addition to those required by law	109.4	11.9	36.4	10.3	50.8	11.1
Road speed governor	225.3	8.4	45.4	48.8	122.6	7.7
Toolbox	2 393.5	2 145.0	104.2	42.4	101.8	17.1
Trip recorder or on-board computer with communication capabilities	746.8	716.4	7.3	10.6	12.5	26.4
Trip recorder or on-board computer without communication capabilities	3 575.1	3 515.9	S	S	20.7	11.9
Vehicle control aids for handicapped drivers	S	S	V	V	V	S
Wheelchair lift	V	V	V	V	V	N
Winch	247.1	S	23.9	S	18.6	46.0
Transmission type:						
Automatic	13 621.9	13 415.8	127.0	35.4	43.8	4.7
Manual	5 445.7	4 915.1	141.7	83.8	305.1	9.8
Semiautomated manual	S	V	S	S	S	S
Automated manual	S	S	V	V	S	S
Not reported	656.8	611.8	7.0	23.8	14.1	27.8
Braking system:						
Hydraulic (standard)	231.7	58.0	102.5	49.5	21.7	8.5
Hydraulic with power assist	177.6	53.8	74.7	34.8	14.4	9.0
Air	365.1	S	13.0	36.4	314.4	4.9
Other	V	V	V	V	V	N
Not reported	61.8	S	18.7	24.8	16.6	15.5
Not applicable ¹⁰	18 912.4	18 844.4	S	V	V	3.5

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Vehicle size					Coefficient of variation of total (percent)
	Total	Light	Medium	Light-heavy	Heavy-heavy	
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	17 808.9	17 701.2	74.6	24.8	8.3	3.7
Diesel	1 664.9	990.4	198.6	118.9	357.0	14.3
Natural gas	V	V	V	V	V	N
Propane	6.0	S	S	S	S	42.5
Alcohol fuels	V	V	V	V	V	N
Electricity	V	V	V	V	V	N
Combination	S	S	S	V	V	S
Other	V	V	V	V	V	N
Not reported	S	S	V	V	S	S
Not applicable ²	S	S	V	V	.5	S
Cylinders ¹¹ :						
4 cylinders	1 945.6	1 911.8	27.6	S	3.9	17.2
6 cylinders	10 262.8	9 739.8	85.1	105.8	332.0	5.9
8 cylinders	7 163.6	6 969.2	147.2	34.1	13.2	8.1
Other	376.7	338.5	17.0	3.3	18.0	32.6
Cubic inch displacement ¹¹ :						
Gasoline fuel	17 808.9	17 701.2	74.6	24.8	8.3	3.7
Less than 200	4 518.9	4 515.1	S	V	V	10.2
200 to 299	7 461.4	7 452.9	S	8.0	V	7.8
300 to 349	2 047.1	2 044.2	S	V	V	15.1
350 to 399	2 890.5	2 858.3	24.5	3.1	4.6	15.7
400 or more	773.2	728.4	33.8	10.6	S	22.2
Not available	117.7	102.2	9.1	3.2	3.2	36.9
Diesel fuel	1 664.9	990.4	198.6	118.9	357.0	14.3
Less than 400	438.6	310.3	102.1	15.7	10.5	24.3
400 to 599	944.9	679.1	95.6	100.1	70.1	23.0
600 to 799	149.0	V	V	S	147.0	7.5
800 or more	96.9	V	V	S	96.7	9.3
Not available	35.6	S	S	9	32.7	14.1
Other fuel	S	S	S	S	S	S
Less than 400	S	S	S	S	V	S
400 or more	S	S	S	S	S	S
Not available	S	V	S	V	V	S
Not reported	S	S	V	V	S	S
Not applicable ²	S	S	V	V	.5	S
REFUELING LOCATION						
Gas station	18 305.1	17 949.7	189.2	61.3	104.9	3.7
Truck stop	219.0	S	12.1	24.9	45.0	43.2
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	580.0	268.1	71.4	53.6	186.9	18.2
Other company's/contractor's facility not open to the public	51.4	S	S	S	28.2	24.6
Other	V	V	V	V	V	N
Not reported	584.8	580.0	S	V	1.6	27.4
Not applicable ²	S	S	V	V	.5	S
MAINTENANCE⁵						
General maintenance performed by:						
None performed	359.6	356.9	S	S	S	33.2
Company-owned maintenance facility	1 976.7	1 558.3	91.1	86.7	240.7	16.7
General repair business or private mechanic	9 470.5	9 229.9	118.9	40.6	81.0	7.0
Dealership service department	5 677.5	5 588.0	30.9	25.4	33.2	9.2
Leasing company	22.4	S	S	S	15.0	26.4
Individual not employed/paid by any maintenance type facility	6 745.1	6 615.0	66.6	12.1	51.4	8.0
Other	V	V	V	V	V	N
Not reported	706.6	702.3	S	V	2.0	27.6
Not applicable ²	S	S	V	V	.5	S
Extensive repairs performed by:						
None performed	15 561.9	15 014.9	195.8	102.0	249.2	4.3
Company-owned maintenance facility	S	S	5.5	9.0	54.2	S
General repair business or private mechanic	1 814.9	1 759.6	18.7	11.7	24.7	18.8
Dealership service department	1 471.2	1 415.5	22.9	S	30.6	21.8
Leasing company	S	V	S	S	S	S
Component distributorship (engine, transmission, body, etc.)	S	V	S	V	S	S
Individual not employed/paid by any repair type facility	789.1	781.6	S	S	5.5	28.4
Other	V	V	V	V	V	N
Not reported	S	S	S	V	S	S
Not applicable ²	S	S	V	V	.5	S
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	18 889.8	18 386.9	193.1	124.2	185.6	3.5
2 axles	18 759.6	18 386.9	192.8	124.0	55.7	3.5
3 axles	107.1	V	S	S	106.8	7.4
4 axles	22.7	V	V	V	22.7	16.4
5 axles or more	S	V	V	V	S	S
Not reported	S	V	S	V	S	S
Combinations	858.9	572.3	83.8	S	181.4	25.4
Single-unit trucks with trailer	687.0	572.3	83.8	7.8	23.1	31.7
3 axles	S	S	S	S	S	S
4 axles	423.8	328.9	83.2	S	S	36.5
5 axles or more	15.0	V	V	S	14.9	20.2
Not reported	V	V	V	V	V	N
Truck-tractors with single trailer	171.1	V	V	S	157.5	9.4
3 axles	11.5	V	V	S	8.4	32.8
4 axles	28.5	V	V	S	18.5	39.2
5 axles or more	119.9	V	V	S	119.6	9.1
Not reported	11.1	V	V	V	11.1	32.5
Truck-tractors with double trailers	S	V	V	V	S	S
5 axles	S	V	V	V	S	S
6 axles	V	V	V	V	V	N
7 axles	V	V	V	V	V	N
8 axles or more	V	V	V	V	V	N
Not reported	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
TRUCK TYPE AND AXLE ARRANGEMENT—Con.						
Combinations—Con.						
Truck-tractors with triple trailers	V	V	V	V	V	N
7 axles	V	V	V	V	V	N
8 axles	V	V	V	V	V	N
9 axles	V	V	V	V	V	N
10 axles or more	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Driving axles:						
1	6 015.6	5 584.6	203.0	139.8	88.2	9.1
2	13 731.7	13 374.6	73.9	S	277.5	4.8
3 or more	S	V	S	S	S	S
Not reported	S	V	S	V	S	S
Total liftable axles and locations ¹² :						
None	808.8	114.8	208.9	145.5	339.6	3.4
1	26.8	V	V	V	26.8	14.3
Forward of the drive axle	S	V	V	V	S	S
Below the chassis	S	V	V	V	S	S
Beyond the chassis	21.6	V	V	V	21.6	16.1
Not reported	2.2	V	V	V	2.2	45.8
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	S	V	S	V	S	S
Not applicable ¹⁰	18 912.4	18 844.4	S	V	V	3.5
Total liftable axles and number of braking axles:						
None	808.8	114.8	208.9	145.5	339.6	3.4
1	26.8	V	V	V	26.8	14.3
0 braking	2.3	V	V	V	2.3	47.1
1 braking	24.5	V	V	V	24.5	15.1
Not reported	V	V	V	V	V	N
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	S	V	S	V	S	S
Not applicable ¹⁰	18 912.4	18 844.4	S	V	V	3.5
CAB TYPE						
Conventional cab	712.3	103.7	152.7	132.9	323.1	3.7
With sleeper	23.0	V	V	S	23.0	18.0
Without sleeper	689.3	103.7	152.7	132.8	300.1	3.9
Not reported	V	V	V	V	V	N
Cab over engine	124.0	11.1	56.2	12.6	44.0	9.4
With sleeper	S	V	V	V	S	S
Without sleeper	119.2	11.1	56.2	12.6	39.2	9.6
Not reported	S	V	V	V	S	S
Cab forward of engine	V	V	V	V	V	N
Cab beside engine	S	V	V	V	S	S
Not reported	S	V	S	V	S	S
Not applicable ¹⁰	18 912.4	18 844.4	S	V	V	3.5

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	19 748.7	18 889.8	858.9	687.0	171.1	S	V	X
Coefficient of variation (percent)	3.3	3.5	25.4	31.7	9.4	S	N	X
BUSINESS¹								
For-hire transportation or warehousing	256.3	S	26.8	S	23.8	S	V	45.2
Vehicle leasing or rental	285.2	269.7	15.5	S	13.4	V	V	37.9
Agriculture, forestry, fishing, or hunting	251.8	197.8	54.0	S	17.5	V	V	35.8
Mining	S	S	4.3	S	S	V	V	S
Utilities	S	S	7.1	S	S	V	V	S
Construction	2 238.5	2 172.8	65.6	21.6	44.0	V	V	16.9
Manufacturing	95.5	S	16.5	8.0	8.5	V	V	44.2
Wholesale trade	106.6	S	8.2	S	S	V	V	48.8
Retail trade	510.9	229.7	S	S	26.1	V	V	40.4
Information services	S	S	V	V	V	V	V	S
Waste management, landscaping, or administrative/support services	110.4	101.2	9.2	S	S	V	V	32.5
Arts, entertainment, or recreation services	S	S	S	V	S	V	V	S
Accommodation or food services	S	S	7.2	V	7.2	V	V	S
Other services	489.1	447.0	S	S	V	V	V	41.9
Personal transportation	14 142.6	13 888.7	254.0	254.0	V	V	V	4.4
Not reported	443.2	376.5	S	S	8.4	V	V	37.2
Not applicable ²	S	S	V	V	V	V	V	S
BODY TYPE								
Single-unit trucks	19 576.9	18 889.8	687.0	687.0	N	N	N	3.3
Pickup	7 913.8	7 458.6	455.1	455.1	N	N	N	5.8
Minivan	1 976.3	1 976.3	V	V	N	N	N	16.1
Other light vans	1 022.9	1 017.7	S	S	N	N	N	26.1
Sport utility	7 999.5	7 822.2	S	S	N	N	N	6.2
Armored	S	S	V	V	N	N	N	S
Beverage	13.8	12.5	S	S	N	N	N	35.3
Concrete mixer	37.9	33.1	4.8	4.8	N	N	N	12.0
Concrete pumper	4.3	4.3	V	V	N	N	N	46.5
Crane	S	S	V	V	N	N	N	S
Curtainside	S	S	V	V	N	N	N	S
Dump	66.2	55.7	10.5	10.5	N	N	N	10.5
Flatbed, stake, or platform	176.5	153.1	23.5	23.5	N	N	N	9.2
Low boy	S	V	S	S	N	N	N	S
Pole, logging, pulpwood, or pipe	S	V	S	S	N	N	N	S
Service, utility	42.7	37.2	S	S	N	N	N	18.4
Service, other	31.7	31.7	S	S	N	N	N	21.7
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk	1.7	1.7	V	V	N	N	N	42.1
Tank, liquids or gases	21.1	21.1	V	V	N	N	N	22.7
Tow/Wrecker	18.0	17.1	S	S	N	N	N	41.8
Trash, garbage, or recycling	39.4	39.4	V	V	N	N	N	16.1
Vacuum	S	S	V	V	N	N	N	S
Van, basic enclosed	90.4	90.2	S	S	N	N	N	12.5
Van, insulated nonrefrigerated	S	S	V	V	N	N	N	S
Van, insulated refrigerated	15.8	15.8	V	V	N	N	N	31.3
Van, open top	7.8	6.2	S	S	N	N	N	25.7
Van, step, walk-in, or multistop	68.5	68.5	V	V	N	N	N	14.9
Van, other	12.7	12.0	S	S	N	N	N	42.3
Other	S	S	V	V	N	N	N	S
Truck-tractors	171.9	V	171.9	N	171.1	S	V	9.3
Automobile carrier	S	N	S	N	S	V	V	S
Beverage	5.9	N	5.9	N	5.9	V	V	35.6
Curtainside	S	N	S	N	S	V	V	S
Dump	44.1	N	44.1	N	44.1	V	V	15.8
Flatbed, stake, or platform	18.1	N	18.1	N	18.1	V	V	19.4
Livestock	1.0	N	1.0	N	1.0	V	V	44.7
Low boy	15.1	N	15.1	N	15.1	V	V	24.6
Mobile home toter	S	N	S	N	S	V	V	S
Open top	10.7	N	10.7	N	10.7	V	V	38.6
Pole, logging, pulpwood, or pipe	S	N	S	N	S	V	V	S
Tank, dry bulk	S	N	S	N	S	V	V	S
Tank, liquids or gases	8.0	N	8.0	N	8.0	V	V	38.8
Van, basic enclosed	52.2	N	52.2	N	51.4	S	V	24.4
Van, drop-frame	S	N	S	N	S	V	V	S
Van, insulated nonrefrigerated	V	N	V	N	V	V	V	N
Van, insulated refrigerated	12.0	N	12.0	N	12.0	V	V	35.5
Other	V	N	V	N	V	V	V	N
Not applicable ³	V	V	V	N	V	V	V	N
ANNUAL MILES								
Less than 5,000	585.1	552.3	S	S	4.9	V	V	12.1
5,000 to 9,999	2 592.7	2 473.0	119.7	111.8	7.9	V	V	8.7
10,000 to 19,999	8 957.4	8 669.3	288.1	267.2	20.9	V	V	5.6
20,000 to 29,999	4 227.2	4 192.2	35.1	10.7	24.3	V	V	12.4
30,000 to 49,999	2 919.6	2 613.6	S	S	42.6	S	V	19.2
50,000 to 74,999	S	S	41.9	S	35.1	V	V	S
75,000 or more	35.3	V	35.3	V	35.3	V	V	36.0
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
PRIMARY RANGE OF OPERATION								
Off-the-road	195.7	192.6	3.1	S	2.9	V	V	46.2
50 miles or less	14 804.2	14 385.6	418.6	330.3	87.5	S	V	4.6
51 to 100 miles	1 661.7	1 592.6	69.2	S	36.1	V	V	17.4
101 to 200 miles	880.9	618.0	S	S	9.5	V	V	31.6
201 to 500 miles	386.4	379.2	S	S	S	V	V	42.3
501 miles or more	487.3	475.8	S	V	S	V	V	27.8
Not reported	1 324.2	1 237.7	S	S	17.1	V	V	18.7
Not applicable ²	S	S	V	V	V	V	V	S
PRIMARY JURISDICTION								
Operated in Canada	V	V	V	V	V	V	V	N
Operated in Mexico	V	V	V	V	V	V	V	N
Operated within the home base state	17 531.4	16 898.2	633.2	486.4	146.0	S	V	3.7
Operated in states other than the home base state	853.0	704.7	S	S	S	V	V	30.2
Not reported	1 356.0	1 278.6	S	S	14.5	V	V	21.1
Not applicable ²	S	S	V	V	V	V	V	S
MONTHS OPERATED								
12	14 794.4	14 233.8	560.6	439.3	120.6	S	V	4.7
7 to 11	3 420.2	3 285.0	135.2	S	22.5	V	V	12.4
2 to 6	1 454.0	1 292.3	S	S	26.6	V	V	18.5
1 or less	71.8	70.5	1.3	S	1.3	V	V	38.5
Vehicle not used	S	S	V	V	V	V	V	S
VEHICLE SIZE								
Light	18 959.2	18 386.9	572.3	572.3	V	V	V	3.5
Medium	277.0	193.1	83.8	83.8	V	V	V	16.1
Light-heavy	145.5	124.2	S	7.8	S	V	V	12.2
Heavy-heavy	367.1	185.6	181.4	23.1	157.5	S	V	4.4
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	13 785.6	13 678.6	S	S	V	V	V	4.7
6,001 to 8,500	4 184.5	3 795.4	S	S	V	V	V	12.2
8,501 to 10,000	989.1	912.9	S	S	V	V	V	23.8
10,001 to 14,000	176.3	106.5	S	S	V	V	V	24.4
14,001 to 16,000	43.1	39.2	S	S	V	V	V	17.1
16,001 to 19,500	57.5	47.4	S	S	V	V	V	18.5
19,501 to 26,000	145.5	124.2	S	7.8	S	V	V	12.2
26,001 to 33,000	47.7	38.8	8.9	S	4.7	V	V	15.6
33,001 to 40,000	33.1	26.1	7.1	S	5.3	V	V	17.3
40,001 to 50,000	49.0	35.8	13.2	S	10.0	V	V	12.2
50,001 to 60,000	76.0	57.2	18.8	1.6	17.3	V	V	9.5
60,001 to 80,000	132.9	25.9	107.0	10.0	96.2	S	V	8.8
80,001 to 100,000	23.8	S	22.0	2.5	19.6	V	V	17.5
100,001 to 130,000	S	V	S	V	S	V	V	S
130,001 or more	V	V	V	V	V	V	V	N
TOTAL LENGTH (FEET)								
Less than 20.0	16 134.4	16 134.4	V	V	V	V	V	4.1
20.0 to 27.9	1 959.7	1 891.3	S	S	V	V	V	16.5
28.0 to 35.9	1 195.6	818.1	S	S	S	V	V	24.1
36.0 to 40.9	178.9	31.8	147.2	S	24.4	V	V	36.0
41.0 to 44.9	S	10.6	S	S	8.5	V	V	S
45.0 to 49.9	S	S	S	S	13.6	V	V	S
50.0 to 54.9	26.5	1.3	25.2	5.6	19.6	V	V	19.6
55.0 to 59.9	49.3	V	49.3	5.3	44.0	V	V	14.5
60.0 to 64.9	44.9	V	44.9	S	43.3	V	V	17.2
65.0 to 69.9	17.0	V	17.0	S	16.1	V	V	26.8
70.0 to 74.9	2.1	V	2.1	S	1.3	S	V	44.1
75.0 to 79.9	V	V	V	V	V	V	V	N
80.0 or more	V	V	V	V	V	V	V	N
MILES PER GALLON								
Less than 5	101.1	58.0	43.0	8.3	34.8	V	V	9.6
5 to 6.9	169.1	84.6	84.5	6.9	76.8	S	V	7.8
7 to 8.9	115.8	94.1	21.7	4.7	17.0	V	V	10.8
9 to 10.9	1 147.6	1 041.9	S	S	4.0	V	V	25.6
11 to 12.9	1 280.9	1 084.6	S	S	S	V	V	20.1
13 to 14.9	987.6	960.4	S	S	S	V	V	21.0
15 or more	13 477.1	13 242.7	S	S	V	V	V	4.9
15 to 20.9	10 575.2	10 507.1	S	S	V	V	V	5.9
21 to 24.9	1 678.7	1 561.9	S	S	V	V	V	18.6
25 or more	1 223.2	1 173.7	S	S	V	V	V	24.6
Not reported	2 461.2	2 315.2	146.0	S	35.8	V	V	15.3
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type						Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers	
MODEL YEAR							
2003	S	S	S	S	V	V	S
2002	856.4	847.5	8.9	8.9	8.1	V	24.7
2001	2 648.5	2 593.7	S	S	5.9	V	16.0
2000	2 019.2	1 916.0	S	S	27.6	V	18.8
1999	1 518.4	1 482.1	36.3	7.6	28.8	V	16.9
1998	1 835.6	1 828.4	7.2	V	7.2	V	17.6
1997	1 773.5	1 763.1	10.4	S	S	V	17.3
1996	1 630.2	1 620.9	9.4	S	8.4	V	19.3
1995	1 622.1	1 582.2	S	S	12.1	V	17.5
1994	1 137.6	1 089.5	S	S	21.1	V	20.9
1993	810.1	618.0	S	S	3.6	V	25.9
Pre-1993	3 894.4	3 547.4	347.0	303.3	42.9	S	11.0
VEHICLE ACQUISITION							
New	8 398.9	8 112.5	286.4	192.1	93.5	S	7.4
Used	10 129.3	9 564.2	565.1	491.8	73.3	V	6.2
Not reported	1 220.6	1 213.2	7.4	S	4.2	V	20.8
LEASE CHARACTERISTICS							
Leased	1 904.0	1 849.0	55.0	S	37.3	V	19.7
Lessee	1 721.1	1 684.2	36.9	S	20.4	V	21.4
Vehicle only	94.3	71.1	23.2	S	20.4	V	12.6
Vehicle with driver	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	N
Not applicable ⁴	1 626.8	1 613.0	S	S	V	V	22.6
Lessor	49.4	31.3	18.1	S	16.9	V	18.4
Vehicle only	48.5	31.2	17.3	S	16.9	V	18.6
Vehicle with driver	S	S	S	S	V	V	S
Not reported	V	V	V	V	V	V	N
Not applicable ⁴	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	S
Not leased	10 827.4	10 319.5	507.9	406.7	101.2	V	6.0
Not reported	7 017.3	6 721.3	S	S	32.6	S	7.7
Length of leasing agreement:							
Leased	1 904.0	1 849.0	55.0	S	37.3	V	19.7
1 to 11 months	S	S	S	V	S	V	S
12 months or more	140.3	99.9	40.5	4.0	36.5	V	10.4
Not reported	V	V	V	V	V	V	N
Not applicable ⁴	1 759.9	1 746.1	S	S	V	V	21.3
Provisions of lease ⁵ :							
Financing only	112.8	80.4	32.3	3.2	29.1	V	11.6
Full maintenance	49.6	32.3	17.4	S	15.9	V	17.6
Payment of taxes	48.2	32.0	16.2	S	15.6	V	17.4
Obtaining licenses and permits	43.7	28.1	15.6	S	15.1	V	18.3
Recordkeeping	31.7	20.2	11.5	S	11.0	V	22.3
Fuel contract	20.1	10.7	9.4	S	8.9	V	27.3
PRIMARY OPERATOR CLASSIFICATION							
Private	4 882.6	4 462.4	420.2	S	111.1	V	11.2
Motor carrier	198.8	165.0	33.8	S	30.4	S	28.8
Owner operator	S	S	S	S	13.1	V	S
Rental	295.1	276.5	18.6	S	16.4	V	36.7
Personal transportation	14 142.7	13 888.7	254.0	V	254.0	V	4.4
Not applicable ²	S	S	V	V	V	V	S
For-hire characteristics:							
Type of carrier:							
Contract	43.6	24.3	19.4	S	16.9	V	18.0
Common	91.0	63.6	27.5	S	25.2	S	12.8
Not reported	30.5	28.1	S	S	S	V	24.8
Not applicable ⁶	19 583.5	18 773.8	809.7	682.1	127.5	V	3.3
Type of service:							
Truckload	73.0	40.6	32.4	3.5	28.9	V	14.4
Less-than truckload	62.7	48.2	14.6	S	13.3	S	14.9
Not reported	29.5	27.2	S	S	S	V	25.7
Not applicable ⁶	19 583.5	18 773.8	809.7	682.1	127.5	V	3.3
Source of hauls:							
Shippers or receivers	93.5	59.3	34.2	S	30.9	S	12.7
Brokers	8.2	S	3.1	V	3.1	V	39.6
Centralized markets or exchanges	7.1	6.0	S	V	S	V	39.8
Other	V	V	V	V	V	V	N
Not reported	56.5	45.6	10.9	S	8.5	V	17.4
Not applicable ⁶	19 583.5	18 773.8	809.7	682.1	127.5	V	3.3
HAZARDOUS MATERIALS CARRIED⁷							
Carrying hazardous materials	40.3	25.8	14.5	V	13.7	S	19.8
Not carrying hazardous materials	657.4	485.3	172.1	44.8	127.3	V	4.0
Not reported	74.1	58.8	15.3	S	13.6	V	13.6
Not applicable ⁸	18 976.9	18 320.0	657.0	640.6	16.4	V	3.4
EQUIPMENT TYPE^{5 9}							
Aerial work platform/bucket	10.8	9.8	S	S	V	V	29.6
Air bag(s) (safety device only)	12 817.8	12 501.2	S	S	22.5	V	5.2
Air compressor (except air brakes)	54.2	44.4	9.8	3.1	6.7	V	16.3
Air-conditioning	16 355.4	15 815.8	539.6	408.4	131.2	V	4.0
Air springs	81.6	25.9	55.8	S	55.1	V	12.1

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type						Coefficient of variation of total (percent)	
	Total	Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
EQUIPMENT TYPE^{5 9}—Con.								
Antilock brake system	13 064.1	12 473.5	590.7	521.9	68.8	V	V	5.2
Collision warning system	15.2	14.2	S	V	S	V	V	31.4
Computerized drive train control unit	2 812.3	2 778.0	S	S	10.3	V	V	13.5
Crane	27.2	24.6	S	S	V	V	V	22.9
Electronic vehicle identification device	20.4	13.8	6.5	S	6.3	V	V	28.1
Engine retarder/brake	219.5	105.1	114.4	17.1	97.3	V	V	6.4
Front-wheel drive	13 386.0	12 841.9	544.1	544.1	V	V	V	4.9
Hoist	78.0	72.5	5.5	5.5	V	V	V	12.9
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	24.0	11.5	12.5	V	12.5	V	V	24.9
Internet access	S	S	V	V	V	V	V	S
Lift gate	75.9	73.5	S	S	V	V	V	14.7
Mounting bar for snowplow	S	S	S	S	V	V	V	S
Navigational system	S	S	V	V	V	V	V	S
Power take-off	232.9	163.7	69.1	15.5	53.7	V	V	6.7
Radial tires	13 130.3	12 681.7	448.6	318.2	129.7	S	V	4.9
Reflective material in addition to those required by law	109.4	89.2	20.1	7.0	13.1	V	V	11.1
Road speed governor	225.3	151.1	74.2	10.4	63.8	V	V	7.7
Toolbox	2 393.5	2 066.5	327.0	295.3	31.7	V	V	17.1
Trip recorder or on-board computer with communication capabilities	746.8	669.6	S	S	5.5	V	V	26.4
Trip recorder or on-board computer without communication capabilities	3 575.1	3 486.5	S	S	16.1	V	V	11.9
Vehicle control aids for handicapped drivers	S	S	V	V	V	V	V	S
Wheelchair lift	V	V	V	V	V	V	V	N
Winch	247.1	239.0	S	S	S	V	V	46.0
Transmission type:								
Automatic	13 621.9	13 129.2	492.7	490.1	2.6	V	V	4.7
Manual	5 445.7	5 093.5	352.2	195.0	156.5	S	V	9.8
Semiautomated manual	S	S	S	S	V	V	V	S
Automated manual	S	S	S	V	S	V	V	S
Not reported	656.8	646.9	9.8	S	9.1	V	V	27.8
Braking system:								
Hydraulic (standard)	231.7	205.8	25.9	14.9	S	V	V	8.5
Hydraulic with power assist	177.6	161.7	15.9	15.4	S	V	V	9.0
Air	365.1	197.7	167.4	18.7	148.0	S	V	4.9
Other	V	V	V	V	V	V	V	N
Not reported	61.8	49.8	12.0	S	11.6	V	V	15.5
Not applicable ¹⁰	18 912.4	18 274.8	637.6	637.6	V	V	V	3.5
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	17 808.9	17 275.9	533.0	533.0	S	V	V	3.7
Diesel	1 664.9	1 339.0	325.9	154.1	171.1	S	V	14.3
Natural gas	V	V	V	V	V	V	V	N
Propane	6.0	6.0	V	V	V	V	V	42.5
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	S	S	V	V	V	V	V	S
Other	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
Cylinders¹¹:								
4 cylinders	1 945.6	1 846.3	S	S	V	V	V	17.2
6 cylinders	10 262.8	9 999.7	263.1	S	163.6	V	V	5.9
8 cylinders	7 163.6	6 731.0	432.6	430.5	S	V	V	8.1
Other	376.7	312.9	S	S	5.4	V	V	32.6
Cubic inch displacement¹¹:								
Gasoline fuel	17 808.9	17 275.9	533.0	533.0	S	V	V	3.7
Less than 200	4 518.9	4 419.8	S	S	V	V	V	10.2
200 to 299	7 461.4	7 461.4	V	V	V	V	V	7.8
300 to 349	2 047.1	2 047.1	V	V	V	V	V	15.1
350 to 399	2 890.5	2 597.8	S	S	V	V	V	15.7
400 or more	773.2	632.1	S	S	V	V	V	22.2
Not available	117.7	117.7	S	S	S	V	V	36.9
Diesel fuel	1 664.9	1 339.0	325.9	154.1	171.1	S	V	14.3
Less than 400	438.6	352.6	S	S	S	V	V	24.3
400 to 599	944.9	865.5	79.3	S	23.6	V	V	23.0
600 to 799	149.0	80.5	68.4	8.0	60.4	V	V	7.5
800 or more	96.9	26.9	70.0	5.1	64.1	S	V	9.3
Not available	35.6	13.4	22.1	S	19.9	V	V	14.1
Other fuel	S	S	V	V	V	V	V	S
Less than 400	S	S	V	V	V	V	V	S
400 or more	S	S	V	V	V	V	V	S
Not available	S	S	V	V	V	V	V	S
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
REFUELING LOCATION								
Gas station	18 305.1	17 620.2	684.9	639.2	45.7	V	V	3.7
Truck stop	219.0	S	39.1	6.5	32.6	V	V	43.2
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	580.0	463.2	116.9	S	76.3	S	V	18.2
Other company's/contractor's facility not open to the public	51.4	34.0	17.4	S	15.8	V	V	24.6
Other	V	V	V	V	V	V	V	N
Not reported	584.8	584.2	.6	V	.6	V	V	27.4
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
MAINTENANCE⁵								
General maintenance performed by:								
None performed	359.6	354.4	S	S	S	V	V	33.2
Company-owned maintenance facility	1 976.7	1 835.7	141.1	32.6	107.7	S	V	16.7
General repair business or private mechanic	9 470.5	8 989.7	480.8	443.2	37.6	V	V	7.0
Dealership service department	5 677.5	5 417.1	S	S	12.0	V	V	9.2
Leasing company	22.4	14.7	7.7	S	S	V	V	26.4
Individual not employed/paid by any maintenance type facility	6 745.1	6 419.1	326.0	300.0	26.0	V	V	8.0
Other	V	V	V	V	V	V	V	N
Not reported	706.6	706.2	S	V	S	V	V	27.6
Not applicable ²	S	S	V	V	V	V	V	S
Extensive repairs performed by:								
None performed	15 561.9	15 136.0	426.0	301.7	123.5	S	V	4.3
Company-owned maintenance facility	S	S	25.3	10.2	15.2	V	V	S
General repair business or private mechanic	1 814.9	1 537.8	S	S	12.8	V	V	18.8
Dealership service department	1 471.2	1 282.6	S	S	13.4	V	V	21.8
Leasing company	S	S	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)	S	S	S	S	S	V	V	S
Individual not employed/paid by any repair type facility	789.1	708.0	S	S	S	V	V	28.4
Other	V	V	V	V	V	V	V	N
Not reported	S	S	S	V	S	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
AXLE ARRANGEMENT								
Driving axles:								
1	6 015.6	5 852.6	163.0	S	40.6	S	V	9.1
2	13 731.7	13 035.9	695.8	565.5	130.3	V	V	4.8
3 or more	S	S	S	S	S	V	V	S
Not reported	S	S	V	V	V	V	V	S
Total liftable axles and locations ¹² :								
None	808.8	592.2	216.6	44.8	171.1	S	V	3.4
1	26.8	22.2	4.6	4.6	V	V	V	14.3
Forward of the drive axle	S	S	V	V	V	V	V	S
Below the chassis	S	S	V	V	V	V	V	S
Beyond the chassis	21.6	17.0	4.6	4.6	V	V	V	16.1
Not reported	2.2	2.2	V	V	V	V	V	45.8
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	S	S	V	V	V	V	V	S
Not applicable ¹⁰	18 912.4	18 274.8	637.6	637.6	V	V	V	3.5
Total liftable axles and number of braking axles:								
None	808.8	592.2	216.6	44.8	171.1	S	V	3.4
1	26.8	22.2	4.6	4.6	V	V	V	14.3
0 braking	2.3	S	S	S	V	V	V	47.1
1 braking	24.5	20.2	4.3	4.3	V	V	V	15.1
Not reported	V	V	V	V	V	V	V	N
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	S	S	V	V	V	V	V	S
Not applicable ¹⁰	18 912.4	18 274.8	637.6	637.6	V	V	V	3.5
CAB TYPE								
Conventional cab								
With sleeper	712.3	499.6	212.7	49.0	162.9	S	V	3.7
Without sleeper	23.0	V	23.0	V	23.0	V	V	18.0
Not reported	689.3	499.6	189.7	49.0	139.9	S	V	3.9
Not applicable ¹⁰	V	V	V	V	V	V	V	N
Cab over engine								
With sleeper	124.0	115.4	8.6	S	8.1	V	V	9.4
Without sleeper	S	V	S	V	S	V	V	S
Not reported	119.2	115.4	S	S	S	V	V	9.6
Not applicable ¹⁰	S	V	S	V	S	V	V	S
Cab forward of engine								
Cab beside engine	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ¹⁰	S	S	V	V	V	V	V	S
Not applicable ¹⁰	18 912.4	18 274.8	637.6	637.6	V	V	V	3.5

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	19 748.7	836.3	3.3	3.3	3.3	3.3
TRAILER CONFIGURATION						
No trailer pulled	18 680.1	612.4	3.4	3.8	3.4	3.8
Single trailer pulled	1 059.2	222.2	18.1	7.8	18.1	7.8
Double trailers pulled	S	S	S	S	S	S
Triple trailers pulled	V	V	N	N	N	N
Not applicable ¹	S	.5	S	49.3	S	49.3
RANGE OF OPERATION						
Off-the-road	415.1	23.5	21.2	10.9	21.2	10.9
50 miles or less	12 501.1	470.3	4.5	4.1	4.5	4.1
51 to 100 miles	2 478.9	167.2	10.4	6.9	10.4	6.9
101 to 200 miles	1 424.5	49.8	19.0	13.2	19.0	13.2
201 to 500 miles	749.3	29.1	17.0	24.7	17.0	24.7
501 miles or more	847.2	17.5	15.0	41.1	15.0	41.1
Not reported	1 324.2	78.4	18.7	14.0	18.7	14.0
Not applicable ¹	S	.5	S	49.3	S	49.3
JURISDICTION						
Operated in Canada	S	V	S	N	S	N
Operated in Mexico	S	S	S	S	S	S
Operated within the home base state	16 871.7	744.1	3.7	3.4	3.7	3.4
Operated in states other than the home base state	1 499.6	28.1	15.9	27.4	15.9	27.4
Not reported	1 356.0	63.4	21.1	15.8	21.1	15.8
Not applicable ¹	S	.5	S	49.3	S	49.3
OPERATOR CLASSIFICATION						
Private	4 907.8	603.8	10.6	4.1	10.6	4.1
Motor carrier	223.1	129.8	27.3	10.8	27.3	10.8
Owner operator	S	36.6	S	17.0	S	17.0
Rental	295.5	62.5	36.6	15.3	36.6	15.3
Personal transportation	14 124.1	3.1	4.2	44.8	4.2	44.8
Not applicable ¹	S	.5	S	49.3	S	49.3
For-hire characteristics:						
Type of carrier:						
Contract	42.5	42.5	17.8	17.8	17.8	17.8
Common	92.2	92.2	12.4	12.4	12.4	12.4
Not reported	30.5	30.5	24.8	24.8	24.8	24.8
Not applicable ^{2 3}	19 583.5	671.0	3.3	3.9	3.3	3.9
Type of service:						
Truckload	61.7	61.7	14.6	14.6	14.6	14.6
Less-than truckload	74.0	74.0	14.2	14.2	14.2	14.2
Not reported	29.5	29.5	25.7	25.7	25.7	25.7
Not applicable ^{2 3}	19 583.5	671.0	3.3	3.9	3.3	3.9
PRODUCTS CARRIED⁴						
Animals and fish, live	S	S	S	S	S	S
Animal feed and products of animal origin	S	2.0	S	28.2	S	28.2
Grains, cereal	6.0	6.0	17.0	17.0	17.0	17.0
All other agricultural products	30.8	11.9	33.7	25.9	33.7	25.9
Basic chemicals	7.8	7.8	33.8	33.8	33.8	33.8
Fertilizers and fertilizer materials	S	.9	S	48.8	S	48.8
Pharmaceutical products	S	S	S	S	S	S
All other chemical products and preparations	14.4	8.9	46.3	42.6	46.3	42.6
Alcoholic beverages	11.3	8.1	39.1	37.5	39.1	37.5
Bakery and milled grain products	S	12.2	S	27.8	S	27.8
Meat, seafood, and their preparations	S	2.5	S	35.6	S	35.6
Tobacco products	S	S	S	S	S	S
All other prepared foodstuffs	44.7	30.5	30.8	19.6	30.8	19.6
Logs and other wood in the rough	5.9	3.8	41.2	43.7	41.2	43.7
Paper or paperboard articles	S	5.6	S	44.8	S	44.8
Printed products	S	S	S	S	S	S
Pulp, newsprint, paper, and paperboard	S	S	S	S	S	S
Wood products	76.5	24.2	44.7	20.1	44.7	20.1
Articles of base metal	110.1	29.2	32.6	20.7	32.6	20.7
Base metal in primary or semifinished forms	40.3	15.6	34.6	26.1	34.6	26.1
Nonmetallic mineral products	87.1	30.8	41.6	11.1	41.6	11.1
Tools, nonpowered	1 623.9	97.2	21.3	11.7	21.3	11.7
Tools, powered	1 012.2	82.9	27.0	12.4	27.0	12.4
Electronic and other electrical equipment	281.3	7.6	45.7	35.1	45.7	35.1
Furniture, mattresses, lamps, etc.	31.0	16.5	48.4	35.4	48.4	35.4
Machinery	24.1	19.3	23.3	21.7	23.3	21.7
Miscellaneous manufactured products	276.4	20.6	49.5	23.3	49.5	23.3
Precision instruments and apparatus	301.0	9.7	43.9	36.8	43.9	36.8
Textile, leather, and related articles	S	S	S	S	S	S
Vehicles, including parts	20.1	16.3	30.0	29.7	30.0	29.7
All other transportation equipment	S	S	S	S	S	S
Coal	S	S	S	S	S	S
Crude petroleum	S	S	S	S	S	S
Gravel or crushed stone	36.9	36.9	11.1	11.1	11.1	11.1
Metallic ores and concentrates	S	S	S	S	S	S
Monumental or building stone	5.2	5.2	37.3	37.3	37.3	37.3
Natural sands	S	6.6	S	21.8	S	21.8
All other nonmetallic minerals	S	S	S	S	S	S
Fuel oils	S	6.1	S	39.6	S	39.6
Gasoline and aviation turbine fuel	4.6	3.3	42.6	43.7	42.6	43.7

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck miles distribution for all trucks	Truck miles distribution excluding pickups, minivans, other light vans, and sport utilities	Coefficient of variation (percent)	
	A	B	A	B
PRODUCTS CARRIED⁴—Con.				
Plastics and rubber	S	8.0	S	45.3
All other coal and refined petroleum products	10.7	6.1	47.4	34.0
Hazardous waste (EPA manifest)	S	S	S	S
All other waste and scrap (non-EPA manifest)	59.2	39.2	29.0	13.4
Recyclable products	8.2	7.9	28.8	29.8
Mail and courier parcels	31.5	31.5	21.4	21.4
Empty shipping containers	4.1	4.1	36.8	36.8
Passengers	S	S	S	S
Mixed freight	12.9	12.9	33.5	33.5
Products, equipment, or materials not elsewhere classified	S	4.5	S	31.7
Products not specified	231.0	24.7	47.2	19.5
Not applicable ¹	S	.5	S	49.3
HAZARDOUS MATERIALS CARRIED⁴				
Division 1.1, Explosives	S	S	S	S
Division 1.2, Explosives	V	V	N	N
Division 1.3, Explosives	V	V	N	N
Division 1.4, Explosives	S	S	S	S
Division 1.5, Explosives	S	S	S	S
Division 1.6, Explosives	S	S	S	S
Division 2.1, Flammable gas	7.0	7.0	38.6	38.6
Division 2.2, Nonflammable gas	S	S	S	S
Division 2.3, Poison gas	S	S	S	S
Class 3, Flammable	5.0	5.0	40.8	40.8
Combustible liquid	S	S	S	S
Oxygen 2, Oxygen	S	S	S	S
Division 4.1, Flammable solid .....	.3	.3	47.4	47.4
Division 4.2, Spontaneously combustible	S	S	S	S
Division 4.3, Dangerous when wet	S	S	S	S
Division 5.1, Oxidizer .....	.9	.9	46.1	46.1
Division 5.2, Organic peroxide	S	S	S	S
Division 6.1, Poison inhalation hazard	S	S	S	S
Division 6.1, Poison	S	S	S	S
Class 7, Radioactive	S	S	S	S
Class 8, Corrosive	S	S	S	S
Class 9	S	S	S	S
Hazardous materials not specified	S	S	S	S
Not applicable ¹	S	.5	S	49.3

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

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

