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2002 Economic Census

Vehicle Inventory and Use Survey

Geographic Area Series



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CONTENTS

Vehicle Inventory and Use Survey	1
Tables	
1a. Trucks—Comparative Summary: 2002 and Earlier Years	11
1b. Trucks—Comparative Summary for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities: 2002 and 1997	11
2a. Trucks, Truck Miles, and Average Annual Miles for All Trucks: 2002 and 1997	12
2b. Trucks, Truck Miles, and Average Annual Miles for All Trucks— Measures of Sampling Variability: 2002 and 1997	18
3a. Trucks, Truck Miles, and Average Annual Miles for Trucks, Excluding Pickups, Minivans, Other Light Vans, and Sport Utilities: 2002 and 1997	24
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...	30
4. Trucks by Vehicle Size: 2002	36
5. Trucks by Truck Type: 2002	41
6. Truck Miles by Vehicle Size: 2002	46
7. Truck Miles by Truck Type: 2002	51
8. Truck Miles Distribution by Operational Characteristics: 2002 ..	56
Appendix	
Approximating Unpublished Relative Standard Errors	A-1

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 Arkansas is 2,653 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 Arkansas, approximately 76.5 percent of the questionnaires were returned with substantive data. *Item nonresponse* occurs either when a question is unanswered or the response to the question fails computer or analyst edits. The procedures used to account for unit and item nonresponse are discussed below.

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

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

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

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

Unpublished Estimates

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

Individuals who use estimates in this report, 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	13.0	13.7	15.5	12.8
Agriculture, forestry, fishing, or hunting	5.3	7.0	8.7	11.6	3 to 4 years old	18.4	15.6	16.5	17.3
Mining	S	S	.2	V	Over 4 years old	68.5	70.7	68.0	69.9
Construction	5.7	6.8	5.9	7.3	VEHICLE ACQUISITION				
Manufacturing .....	.6	S	1.1	.6	New	40.4	39.7	38.5	44.9
Wholesale and retail trade	3.2	3.2	4.4	5.0	Used	54.2	58.2	60.0	52.7
For-hire transportation or warehousing	1.0	V	.5	.7	Not reported ⁴	5.4	2.1	1.6	2.4
Utilities and all services	6.9	6.8	5.8	5.0	TRUCK TYPE				
Personal transportation	73.7	73.9	71.7	69.1	Single-unit trucks ⁵	96.1	99.4	97.2	98.1
Other, not reported, and not applicable	3.3	1.6	1.7	.8	2 axles	95.6	99.4	97.1	97.9
BODY TYPE					3 axles or more .....	.6	V	.2	.1
Pickup, minivan, other light vans, and sport utility	95.6	99.3	98.4	98.3	Trailer/axles not specified	V	N	N	N
Flatbed, stake, platform, and low boy	1.2	.3	.4	.4	Combinations	3.9	.6	2.8	1.9
Van ²	1.1	.1	.5	.8	3 axles	1.2	.2	.7	.5
Service, utility .....	.3	S	V	V	4 axles	1.7	.4	1.5	.5
Van, step, walk-in, or multistop .....	.3	.2	.1	.1	5 axles or more .....	.8	V	.6	.9
Dump .....	.7	V	.1	.1	Trailer/axles not specified .....	.2	V	V	V
Tank for liquids, gases, or dry bulk .....	.3	V	.1	.1	RANGE OF OPERATION				
Other and not applicable .....	.6	.1	.3	.2	50 miles or less	67.0	68.4	74.6	72.8
VEHICLE SIZE					51 to 200 miles	11.9	22.4	14.3	15.1
Light	94.7	99.8	98.4	98.3	201 miles or more	3.7	3.3	4.2	4.4
Medium	2.4	.1	.5	.3	Off-the-road, not reported, and not applicable	17.3	5.9	6.9	7.8
Light-heavy .....	.6	.1	.2	.1	FUEL TYPE				
Heavy-heavy	2.2	.1	.9	1.3	Gasoline	91.6	96.2	97.1	96.7
ANNUAL MILES					All other fuels	7.0	3.7	2.8	3.3
Less than 5,000 ³	20.9	17.0	19.0	22.5	Other, not reported, and not applicable	1.5	.2	V	V
5,000 to 9,999	17.2	20.8	18.1	27.2					
10,000 to 19,999	40.7	41.7	40.4	37.2					
20,000 to 29,999	13.5	15.3	15.1	8.6					
30,000 or more	7.8	5.2	7.4	4.5					

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

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

Vehicular and operational characteristics	2002	1997	Vehicular and operational characteristics	2002	1997
Total	100.0	100.0	MODEL YEAR		
BUSINESS¹			1 to 2 years old	7.8	5.2
Agriculture, forestry, fishing, or hunting	24.5	11.7	3 to 4 years old	13.7	31.0
Mining	1.8	V	Over 4 years old	78.6	63.8
Construction	14.7	14.2	VEHICLE ACQUISITION		
Manufacturing	4.4	1.5	New	38.7	S
Wholesale and retail trade	16.0	21.2	Used	57.9	51.0
For-hire transportation or warehousing	8.6	2.2	Not reported ⁴	3.4	4.1
Utilities and all services	15.3	39.6	TRUCK TYPE		
Personal transportation	1.6	7.3	Single-unit trucks ⁵	69.7	90.6
Other, not reported, and not applicable	13.2	1.9	2 axles	56.5	84.7
BODY TYPE			3 axles or more	13.1	5.9
Flatbed, stake, platform, and low boy	26.6	44.3	Trailer/axles not specified .....	.1	N
Van ²	25.2	17.2	Combinations	30.3	9.4
Service, utility	6.3	S	3 axles	3.2	.4
Van, step, walk-in, or multistop	5.7	22.9	4 axles	6.0	2.8
Dump	15.8	5.6	5 axles or more	17.7	6.2
Tank for liquids, gases, or dry bulk	6.8	1.0	Trailer/axles not specified	3.4	V
Other and not applicable	13.6	8.3	RANGE OF OPERATION		
VEHICLE SIZE			50 miles or less	57.0	68.3
Light	14.7	68.1	51 to 200 miles	20.7	21.9
Medium	20.8	14.0	201 miles or more	4.2	2.8
Light-heavy	14.3	6.7	Off-the-road, not reported, and not applicable	18.1	6.9
Heavy-heavy	50.1	11.1	FUEL TYPE		
ANNUAL MILES			Gasoline	28.0	70.7
Less than 5,000 ³	38.0	24.5	All other fuels	67.1	29.1
5,000 to 9,999	12.2	14.3	Other, not reported, and not applicable	4.9	.3
10,000 to 19,999	20.3	S			
20,000 to 29,999	12.7	7.4			
30,000 or more	16.9	9.1			

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

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

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

³Includes vehicles not in use.

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

⁵Excludes truck-tractors not in use.

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

Table 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	996.9	899.2	10.9	13 176.5	11 746.1	12.2	13.2	13.1	1.2
BUSINESS¹									
For-hire transportation or warehousing	10.1	.1	6 710.8	215.5	4.8	4 379.4	21.4	32.5	-34.2
Vehicle leasing or rental	S	S	S	139.0	S	S	S	S	S
Agriculture, forestry, fishing, or hunting	52.7	62.6	-15.9	538.6	810.9	-33.6	10.2	12.9	-21.0
Mining	S	S	S	S	S	S	S	S	S
Utilities	11.7	S	S	153.4	S	S	13.1	S	S
Construction	56.4	61.2	-7.7	1 096.3	1 109.3	-1.2	19.4	18.1	7.1
Manufacturing	6.1	S	S	69.2	S	S	11.3	S	S
Wholesale trade	9.1	6.8	34.9	151.2	94.1	60.6	16.6	13.9	19.0
Retail trade	22.9	22.4	2.6	405.4	410.0	-1.1	17.7	18.3	-3.6
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	11.9	N	N	182.0	N	N	15.2	N	N
Arts, entertainment, or recreation services .....	.3	N	N	S	N	N	S	N	N
Accommodation or food services	S	N	N	S	N	N	S	N	N
Other services	38.0	N	N	529.4	N	N	13.9	N	N
Personal transportation	735.0	664.4	10.6	9 206.8	8 104.6	13.6	12.5	12.2	2.7
Not reported	16.6	V	N	276.5	V	N	16.6	V	N
Not applicable ²	12.6	12.5	.7	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks	986.2	898.9	9.7	12 858.3	11 734.1	9.6	13.0	13.1	-.1
Pickup	605.4	627.6	-3.5	7 263.4	8 030.0	-9.5	12.0	12.8	-6.2
Minivan	91.9	77.5	18.5	1 536.5	1 247.2	23.2	16.7	16.1	4.0
Other light vans	32.8	59.6	-45.0	335.7	644.7	-47.9	10.2	10.8	-5.3
Sport utility	222.7	127.8	74.2	3 301.1	1 740.8	89.6	14.8	13.6	8.9
Armored	S	N	N	S	N	N	S	N	N
Beverage	S	S	S	S	S	S	S	S	S
Concrete mixer .....	.8	V	N	9.5	.4	2 403.7	11.9	V	N
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane .....	.2	S	S	S	S	S	S	S	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	5.6	.3	1 675.9	62.2	2.9	2 052.3	11.2	9.2	21.2
Flatbed, stake, or platform	9.0	S	S	81.0	S	S	9.0	S	S
Low boy .....	.2	S	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe	S	S	S	S	S	S	S	S	S
Service, utility	2.8	S	S	34.7	S	S	12.4	S	S
Service, other	1.3	.1	1 026.7	23.0	1.8	1 194.7	18.2	15.8	14.9
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk .....	.5	V	N	3.3	V	N	6.5	V	N
Tank, liquids or gases	1.8	V	N	23.7	.4	5 406.1	13.0	V	N
Tow/Wrecker	1.5	.1	1 013.8	15.5	1.0	1 410.6	10.5	7.7	35.6
Trash, garbage, or recycling .....	.7	S	S	19.0	.2	8 019.3	26.7	S	S
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	3.3	1.0	232.0	55.6	11.6	378.0	16.7	11.6	44.0
Van, insulated nonrefrigerated .....	.1	V	N	S	S	S	S	V	N
Van, insulated refrigerated .....	.5	V	N	9.2	.2	4 628.4	20.2	V	N
Van, open top	1.5	.1	1 320.6	3.3	.4	754.2	2.2	3.7	-39.9
Van, step, walk-in, or multistop	2.5	1.5	63.3	62.1	25.3	145.3	24.7	16.5	50.2
Van, other .....	.7	N	N	7.5	N	N	11.0	N	N
Other	V	N	N	V	N	N	V	N	N
Truck-tractors	10.7	.4	2 681.3	318.2	12.1	2 537.0	29.9	31.5	-5.2
Automobile carrier	S	S	S	S	S	S	S	S	S
Beverage .....	.3	V	N	3.9	V	N	13.9	V	N
Curtainside	V	N	N	V	N	N	V	N	N
Dump	1.4	.1	2 263.4	38.0	1.8	2 001.4	26.6	30.0	-11.1
Flatbed, stake, or platform	1.5	.1	1 392.9	48.2	2.2	2 106.9	32.7	22.1	47.8
Livestock	S	V	S	S	.3	S	S	V	S
Low boy	1.1	V	N	13.9	1.2	1 047.1	13.0	V	N
Mobile home toter .....	.1	N	N	S	N	N	S	N	N
Open top	2.3	.1	3 108.1	32.3	2.2	1 383.0	14.1	30.6	-53.8
Pole, logging, pulpwood, or pipe	S	V	S	S	V	S	S	V	S
Tank, dry bulk .....	.2	V	N	7.7	.4	1 706.7	33.2	V	N
Tank, liquids or gases .....	.4	V	N	25.0	.8	3 071.7	58.3	V	N
Van, basic enclosed	2.1	.1	3 131.3	109.0	2.5	4 344.9	52.6	38.3	37.6
Van, drop-frame	S	S	S	S	S	S	S	S	S
Van, insulated nonrefrigerated .....	.2	S	S	3.6	S	S	18.7	S	S
Van, insulated refrigerated .....	.6	S	S	23.9	S	S	43.2	S	S
Other	V	N	N	V	N	N	V	N	N
Not applicable ³ .....	.4	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	195.6	145.0	34.9	426.7	311.3	37.1	2.2	2.1	1.6
5,000 to 9,999	171.7	187.3	-8.3	1 222.9	1 310.4	-6.7	7.1	7.0	1.8
10,000 to 19,999	405.2	374.8	8.1	5 250.8	4 983.8	5.4	13.0	13.3	-2.5
20,000 to 29,999	134.3	137.4	-2.2	3 108.1	3 113.8	-2	23.1	22.7	2.1
30,000 to 49,999	59.3	34.4	72.4	1 981.9	1 175.7	68.6	33.4	34.2	-2.2
50,000 to 74,999	14.4	7.9	81.9	810.7	488.3	66.0	56.3	61.7	-8.7
75,000 or more	S	S	S	S	S	S	S	S	S
Not applicable ²	12.6	7.8	60.6	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	20.8	45.2	-53.9	S	500.5	S	S	11.1	S
50 miles or less	668.1	615.2	8.6	8 544.4	7 431.7	15.0	12.8	12.1	5.9
51 to 100 miles	92.2	156.6	-41.1	1 554.4	2 571.3	-39.5	16.9	16.4	2.7
101 to 200 miles	26.8	45.1	-40.7	418.0	812.6	-48.6	15.6	18.0	-13.2
201 to 500 miles	15.6	17.0	-8.1	237.5	309.7	-23.3	15.2	18.2	-16.5
501 miles or more	21.5	12.4	73.9	408.7	120.3	239.7	19.0	9.7	95.3
Not reported	139.3	7.8	1 678.3	1 828.1	V	N	13.1	V	N
Not applicable ²	12.6	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	S	N	N	S	N	N	S	N	N
Operated within the home base state	829.4	N	N	10 973.4	N	N	13.2	N	N
Operated in states other than the home base state	35.1	N	N	503.5	N	N	14.3	N	N
Not reported	119.7	N	N	1 694.1	N	N	14.2	N	N
Not applicable ²	12.6	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	684.0	N	N	9 572.9	N	N	14.0	N	N
7 to 11	176.5	N	N	2 636.7	N	N	14.9	N	N
2 to 6	92.7	N	N	915.9	N	N	9.9	N	N
1 or less	31.1	N	N	45.5	N	N	1.5	N	N
Vehicle not used	12.6	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	944.5	897.0	5.3	12 291.9	11 715.2	4.9	13.0	13.1	-3
Medium	24.0	1.0	2 292.3	336.6	11.5	2 819.7	14.0	11.5	22.0
Light-heavy	6.3	.5	1 289.0	65.9	3.9	1 592.1	10.4	8.6	21.8
Heavy-heavy	22.1	.7	2 855.8	482.1	15.5	3 004.3	21.8	20.8	5.0
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	721.1	840.6	-14.2	8 811.0	10 905.4	-19.2	12.2	13.0	-5.8
6,001 to 8,500	196.2	N	N	3 056.0	N	N	15.6	N	N
8,501 to 10,000	27.1	N	N	424.9	N	N	15.7	N	N
10,001 to 14,000	16.1	.6	2 520.2	218.8	7.7	2 755.9	13.6	12.5	9.0
14,001 to 16,000	2.8	.2	1 139.2	35.3	2.7	1 221.7	12.4	11.6	6.7
16,001 to 19,500	5.0	.2	3 083.3	S	1.2	S	S	7.6	S
19,501 to 26,000	6.3	.5	1 289.0	65.9	3.9	1 592.1	10.4	8.6	21.8
26,001 to 33,000	4.9	.1	5 812.8	70.3	.9	8 155.8	14.3	10.3	39.6
33,001 to 40,000	2.2	.1	1 439.9	28.6	2.0	1 307.5	12.8	14.0	-8.6
40,001 to 50,000	3.8	.2	1 962.8	65.3	2.2	2 808.9	17.4	12.3	41.0
50,001 to 60,000	1.6	.1	2 248.4	26.3	1.5	1 687.9	16.2	21.3	-23.9
60,001 to 80,000	9.1	.3	3 387.1	283.5	8.8	3 123.8	31.0	33.5	-7.5
80,001 to 100,000 .....	.4	V	N	7.5	S	S	16.9	S	S
100,001 to 130,000	S	V	S	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	793.2	892.0	-11.1	10 176.6	11 659.5	-12.7	12.8	13.1	-1.8
20.0 to 27.9	104.0	1.9	5 418.3	1 309.8	22.1	5 838.3	12.6	11.7	7.6
28.0 to 35.9	77.4	S	S	1 193.4	S	S	15.4	S	S
36.0 to 40.9	9.5	.2	4 365.0	146.1	3.1	4 599.7	15.4	14.7	5.3
41.0 to 44.9	S	V	S	S	.4	S	S	V	S
45.0 to 49.9	1.8	V	N	62.2	.8	7 599.9	34.3	V	N
50.0 to 54.9	2.0	V	N	35.6	1.3	2 537.0	17.7	V	N
55.0 to 59.9	1.9	.1	1 600.0	42.2	3.2	1 217.2	22.0	28.4	-22.5
60.0 to 64.9	2.4	.1	4 062.4	89.7	2.3	3 810.9	37.9	40.4	-6.0
65.0 to 69.9	1.0	V	N	30.9	1.4	2 128.7	30.0	V	N
70.0 to 74.9 .....	.3	V	N	11.8	.3	3 681.1	34.8	V	N
75.0 to 79.9 .....	.1	N	N	4.8	N	N	37.9	N	N
80.0 or more .....	.1	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	4.3	.2	1 637.3	77.8	3.7	2 017.7	18.0	14.7	21.9
5 to 6.9	10.5	1.2	792.2	209.7	18.8	1 012.8	20.0	16.0	24.7
7 to 8.9	8.0	S	S	111.0	36.1	207.4	13.8	S	S
9 to 10.9	50.3	55.3	-9.2	465.0	752.0	-38.2	9.3	13.6	-31.9
11 to 12.9	56.9	116.3	-51.1	622.5	1 186.4	-47.5	10.9	10.2	7.3
13 to 14.9	94.7	146.4	-35.3	1 182.7	1 928.6	-38.7	12.5	13.2	-5.2
15 or more	619.4	575.2	7.7	8 648.3	7 818.7	10.6	14.0	13.6	2.7
15 to 20.9	470.2	440.2	6.8	6 669.8	6 014.3	10.9	14.2	13.7	3.8
21 to 24.9	91.1	98.1	-7.1	1 285.9	1 350.5	-4.8	14.1	13.8	2.5
25 or more	58.2	36.9	57.7	692.6	453.9	52.6	11.9	12.3	-3.3
Not reported	140.2	.3	46 283.8	1 854.0	1.8	101 696.6	13.2	6.0	119.5
Not applicable ²	12.6	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003 .....	.1	N	N	S	N	N	S	N	N
2002	49.1	N	N	835.8	N	N	17.0	N	N
2001	80.4	N	N	1 353.4	N	N	16.8	N	N
2000	89.5	N	N	1 458.0	N	N	16.3	N	N
1999	94.4	N	N	1 635.3	N	N	17.3	N	N
1998	70.6	S	S	1 108.2	S	S	15.7	S	S
1997	64.3	67.8	-5.1	914.4	1 072.9	-14.8	14.2	15.8	-10.2
1996	55.4	53.8	2.9	655.8	944.2	-30.5	11.8	17.6	-32.5
1995	81.4	69.6	16.9	1 335.9	1 044.6	27.9	16.4	15.0	9.4
1994	53.8	70.9	-24.2	756.5	1 016.2	-25.6	14.1	14.3	-1.8
1993	45.4	51.1	-11.1	484.9	876.2	-44.7	10.7	17.1	-37.7
Pre-1993	312.4	584.5	-46.5	2 636.5	6 779.5	-61.1	8.4	11.6	-27.2
VEHICLE ACQUISITION									
New	402.9	356.9	12.9	5 887.5	5 163.3	14.0	14.6	14.5	1.0
Used	540.3	523.7	3.2	6 669.8	6 249.7	6.7	12.3	11.9	3.4
Not reported	53.7	18.7	187.7	619.1	333.2	85.8	11.5	17.9	-35.4
LEASE CHARACTERISTICS									
Leased	20.9	N	N	529.4	N	N	25.4	N	N
Lessee	18.7	N	N	419.6	N	N	22.4	N	N
Vehicle only	2.2	N	N	51.0	N	N	23.2	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	16.5	N	N	368.6	N	N	22.3	N	N
Lessor	2.0	N	N	106.2	N	N	54.3	N	N
Vehicle only	1.7	N	N	98.7	N	N	57.2	N	N
Vehicle with driver .....	.2	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 .....	.2	N	N	S	N	N	S	N	N
Not leased	586.1	N	N	7 506.3	N	N	12.8	N	N
Not reported	389.9	N	N	5 140.8	N	N	13.2	N	N
Length of leasing agreement:									
Leased	20.9	N	N	529.4	N	N	25.4	N	N
1 to 11 months .....	.3	N	N	10.3	N	N	36.2	N	N
12 months or more	3.9	N	N	146.0	N	N	37.5	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁴	16.5	N	N	368.6	N	N	22.3	N	N
Provisions of lease ⁵ :									
Financing only	2.3	N	N	59.2	N	N	25.4	N	N
Full maintenance	1.5	N	N	89.4	N	N	57.9	N	N
Payment of taxes	1.9	N	N	96.5	N	N	51.4	N	N
Obtaining licenses and permits	1.7	N	N	90.7	N	N	54.4	N	N
Recordkeeping .....	.5	N	N	26.5	N	N	49.9	N	N
Fuel contract .....	.3	N	N	10.7	N	N	40.2	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	234.5	N	N	3 573.0	N	N	15.2	N	N
Motor carrier	8.3	N	N	169.5	N	N	20.4	N	N
Owner operator	2.7	N	N	82.6	N	N	30.4	N	N
Rental	S	N	N	139.1	N	N	S	N	N
Personal transportation	735.0	N	N	9 206.8	N	N	12.5	N	N
Not applicable ²	12.6	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	2.6	N	N	105.8	N	N	40.7	N	N
Common	2.8	N	N	78.1	N	N	27.7	N	N
Not reported	1.4	N	N	33.0	N	N	23.4	N	N
Not applicable ⁶	990.1	N	N	12 959.6	N	N	13.1	N	N
Type of service:									
Truckload	3.6	V	N	131.2	1.5	8 691.3	36.5	V	N
Less-than truckload	2.0	.1	1 530.6	60.2	3.2	1 764.7	30.8	27.0	14.4
Not reported	1.3	N	N	25.4	N	N	19.8	N	N
Not applicable ⁶	990.1	N	N	12 959.6	N	N	13.1	N	N
Source of hauls:									
Shippers or receivers	3.7	N	N	121.4	N	N	32.8	N	N
Brokers .....	.5	N	N	25.4	N	N	55.4	N	N
Centralized markets or exchanges .....	.3	N	N	10.7	N	N	38.1	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	2.4	N	N	59.3	N	N	24.9	N	N
Not applicable ⁶	990.1	N	N	12 959.6	N	N	13.1	N	N
HAZARDOUS MATERIALS CARRIED⁷									
Carrying hazardous materials	1.8	V	N	45.7	1.2	3 560.5	25.4	V	N
Not carrying hazardous materials	32.7	4.2	673.6	539.0	58.1	827.9	16.5	13.8	20.0
Not reported	5.1	2.3	121.1	63.6	25.4	150.7	12.6	11.1	13.4
Not applicable ⁸	957.4	N	N	12 528.2	N	N	13.1	N	N
EQUIPMENT TYPE^{5 9}									
Aerial work platform/bucket	1.8	N	N	19.7	N	N	11.1	N	N
Air bag(s) (safety device only)	543.6	205.7	164.3	8 597.7	3 342.8	157.2	15.8	16.3	-2.7
Air compressor (except air brakes)	2.4	N	N	49.8	N	N	20.9	N	N
Air-conditioning	839.1	727.4	15.3	11 668.2	10 318.9	13.1	13.9	14.2	-2.0
Air springs	4.0	N	N	131.3	N	N	33.0	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck	1997 truck	Percent change	2002 average	1997 average	Percent change
	(thousands)	(thousands)		miles (millions)	miles (millions)		miles per truck (thousands)	miles per truck (thousands)	
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE^{5 9}—Con.									
Antilock brake system	548.3	395.6	38.6	8 597.1	6 178.0	39.2	15.7	15.6	4
Collision warning system .....	.4	N	N	9.8	N	N	23.2	N	N
Computerized drive train control unit	83.6	N	N	1 374.6	N	N	16.4	N	N
Crane .....	.7	N	N	11.8	N	N	16.0	N	N
Electronic vehicle identification device .....	.3	V	N	9.4	1.1	755.5	31.4	V	N
Engine retarder/brake	4.7	.2	2 446.8	149.7	6.7	2 149.0	31.7	35.9	-11.7
Front-wheel drive	327.2	157.5	107.8	4 353.0	2 316.7	87.9	13.3	14.7	-9.6
Hoist	3.6	N	N	43.7	N	N	12.0	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.) .....	.6	N	N	18.8	N	N	30.5	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	1.9	N	N	32.7	N	N	17.1	N	N
Mounting bar for snowplow	V	N	N	V	N	N	V	N	N
Navigational system	S	V	S	S	V	S	S	V	S
Power take-off	13.6	N	N	197.5	N	N	14.5	N	N
Radial tires	632.8	718.4	-11.9	8 459.0	9 791.6	-13.6	13.4	13.6	-1.9
Reflective material in addition to those required by law	4.5	.6	692.9	92.1	10.7	757.7	20.3	18.8	8.2
Road speed governor	9.7	.8	1 176.4	244.4	14.5	1 584.9	25.3	19.2	32.0
Toolbox	148.5	N	N	2 036.0	N	N	13.7	N	N
Trip recorder or on-board computer with communication capabilities	34.3	N	N	562.1	N	N	16.4	N	N
Trip recorder or on-board computer without communication capabilities	170.7	N	N	2 526.9	N	N	14.8	N	N
Vehicle control aids for handicapped drivers	V	S	S	V	S	S	V	S	S
Wheelchair lift	S	S	S	S	S	S	S	S	S
Winch	20.6	N	N	155.9	N	N	7.6	N	N
Transmission type:									
Automatic	719.0	N	N	10 100.3	N	N	14.0	N	N
Manual	234.2	N	N	2 632.6	N	N	11.2	N	N
Semiautomated manual	S	N	N	S	N	N	S	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	41.3	N	N	423.0	N	N	10.2	N	N
Braking system:									
Hydraulic (standard)	12.8	1.7	637.2	147.1	19.1	669.1	11.5	11.1	4.3
Hydraulic with power assist	9.8	2.2	355.0	125.7	28.7	338.7	12.9	13.3	-3.6
Air	19.7	1.1	1 634.8	427.2	19.2	2 119.8	21.7	17.0	28.0
Other	V	S	S	V	.1	N	V	S	S
Not reported	1.9	N	N	39.6	N	N	20.7	N	N
Not applicable ¹⁰	952.8	N	N	12 436.7	N	N	13.1	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	912.8	864.8	5.6	11 964.1	11 192.9	6.9	13.1	12.9	1.3
Diesel	66.7	31.4	112.6	1 130.6	484.8	133.2	17.0	15.5	9.7
Natural gas	V	N	N	V	N	N	V	N	N
Propane .....	.8	N	N	10.9	N	N	13.8	N	N
Alcohol fuels	S	N	N	S	N	N	S	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	V	N	N	V	N	N	V	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ²	12.6	N	N	S	N	N	S	N	N
Cylinders¹¹:									
4 cylinders	140.7	139.0	1.2	1 518.3	1 486.7	2.1	10.8	10.7	.9
6 cylinders	389.0	311.9	24.7	5 636.1	4 593.2	22.7	14.5	14.7	-1.6
8 cylinders	446.3	445.9	.1	5 925.1	5 657.7	4.7	13.3	12.7	4.6
Other	20.9	S	S	96.9	8.5	1 039.6	4.6	S	S
Cubic inch displacement¹¹:									
Gasoline fuel	912.8	864.8	5.6	11 964.1	11 192.9	6.9	13.1	12.9	1.3
Less than 200	211.5	224.0	-5.6	2 510.0	2 807.2	-10.6	11.9	12.5	-5.3
200 to 299	277.0	165.4	67.4	4 042.1	2 566.5	57.5	14.6	15.5	-5.9
300 to 349	187.8	203.5	-7.7	2 555.9	2 457.5	4.0	13.6	12.1	12.7
350 to 399	208.6	244.0	-14.5	2 739.9	3 197.4	-14.3	13.1	13.1	.2
400 or more	11.2	11.6	-3.6	97.8	75.0	30.4	8.7	6.5	35.3
Not available	16.7	16.2	3.3	18.4	89.2	-79.3	1.1	5.5	-80.0
Diesel fuel	66.7	31.4	112.6	1 130.6	484.8	133.2	17.0	15.5	9.7
Less than 400	31.7	20.9	51.5	441.3	348.7	26.6	13.9	16.6	-16.5
400 to 599	20.4	9.8	109.2	316.9	121.8	160.2	15.5	12.5	24.4
600 to 799	6.5	.2	3 576.1	186.6	3.8	4 813.2	28.8	21.5	33.7
800 or more	5.1	.2	2 265.9	137.0	7.0	1 849.8	26.7	32.4	-17.6
Not available	2.9	.3	998.5	48.9	3.6	1 277.2	16.7	13.3	25.4
Other fuel	S	S	S	S	S	S	S	S	S
Less than 400	S	S	S	S	S	S	S	S	S
400 or more .....	.4	V	N	6.6	V	N	15.7	V	N
Not available	S	V	S	S	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ²	12.6	N	N	S	N	N	S	N	N
REFUELING LOCATION									
Gas station	876.5	N	N	11 597.7	N	N	13.2	N	N
Truck stop	15.8	N	N	344.3	N	N	21.8	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	33.6	N	N	351.7	N	N	10.5	N	N
Other company's/contractor's facility not open to the public	S	N	N	S	N	N	S	N	N
Other	S	N	N	S	N	N	S	N	N
Not reported	53.5	N	N	746.9	N	N	14.0	N	N
Not applicable ²	12.6	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁵									
General maintenance performed by:									
None performed	30.1	10.8	178.0	227.7	91.0	150.2	7.6	8.4	-10.0
Company-owned maintenance facility	91.1	33.6	171.3	1 511.6	508.6	197.2	16.6	15.2	9.5
General repair business or private mechanic	414.4	285.7	45.1	5 744.5	4 032.7	42.4	13.9	14.1	-1.8
Dealership service department	179.6	174.2	3.1	2 658.8	2 672.6	-5	14.8	15.3	-3.5
Leasing company .....	.7	S	S	30.0	S	S	40.4	S	S
Individual not employed/paid by any maintenance type facility	375.2	502.2	-25.3	4 598.3	6 626.1	-30.6	12.3	13.2	-7.1
Other	V	6.2	N	V	S	S	V	S	S
Not reported	53.4	48.6	9.9	715.8	427.4	67.5	13.4	8.8	52.3
Not applicable ²	12.6	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	812.2	69.4	1 070.9	10 861.6	999.5	986.7	13.4	14.4	-7.2
Company-owned maintenance facility	8.5	17.7	-52.2	101.9	292.2	-65.1	12.0	16.5	-27.0
General repair business or private mechanic	58.9	124.2	-52.6	722.0	1 459.2	-50.5	12.2	11.7	4.3
Dealership service department	27.3	88.0	-68.9	481.6	1 446.1	-66.7	17.6	16.4	7.2
Leasing company	S	S	S	S	S	S	S	S	S
Component distributorship (engine, transmission, body, etc.) .....	.2	23.2	-99.1	7.9	301.8	-97.4	37.0	13.0	184.2
Individual not employed/paid by any repair type facility	28.7	82.1	-65.1	402.7	821.8	-51.0	14.0	10.0	40.3
Other	V	6.2	N	V	S	S	V	S	S
Not reported	S	509.0	N	S	S	S	S	13.0	S
Not applicable ²	12.6	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer	958.7	894.0	7.2	12 388.1	11 683.9	6.0	12.9	13.1	-1.1
2 axles	952.7	893.6	6.6	12 304.3	11 680.3	5.3	12.9	13.1	-1.2
3 axles	4.1	.3	1 189.8	43.5	2.2	1 867.8	10.6	6.9	52.6
4 axles	1.9	.1	2 416.4	39.3	1.3	2 895.5	20.4	17.2	19.0
5 axles or more	S	N	S	S	N	N	S	N	N
Not reported	S	V	S	S	V	S	S	V	S
Combinations	38.1	S	S	788.3	62.3	1 166.3	20.7	S	S
Single-unit trucks with trailer	27.8	S	S	470.1	S	S	16.9	S	S
3 axles	11.2	S	S	S	S	S	S	S	S
4 axles	16.1	S	S	271.8	S	S	16.9	S	S
5 axles or more .....	.5	.1	365.4	7.7	.7	1 017.8	14.3	5.9	140.2
Not reported	S	N	N	S	N	N	S	N	N
Truck-tractors with single trailer	10.3	.4	2 579.4	316.7	12.1	2 524.5	30.8	31.5	-2.0
3 axles .....	.7	V	N	13.6	.3	4 133.3	20.7	V	N
4 axles	1.2	.1	1 582.6	27.8	1.3	2 053.8	22.7	17.8	28.0
5 axles or more	7.3	.3	2 307.7	215.7	10.5	1 962.9	29.7	34.7	-14.3
Not reported	1.1	N	N	59.6	N	N	52.8	N	N
Truck-tractors with double trailers	S	V	S	S	V	S	S	V	S
5 axles	V	V	N	V	V	N	V	V	N
6 axles	S	V	S	S	V	S	S	V	S
7 axles	V	V	N	V	V	N	V	V	N
8 axles or more	S	V	S	S	V	S	S	V	S
Not reported	V	N	N	V	N	N	V	N	N
Truck-tractors with triple trailers	V	V	N	V	V	N	V	V	N
7 axles	V	V	N	V	V	N	V	V	N
8 axles	V	V	N	V	V	N	V	V	N
9 axles	V	V	N	V	V	N	V	V	N
10 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	N	N	V	N	N
Driving axles:									
1	654.2	654.7	-.1	8 453.6	8 279.8	2.1	12.9	12.6	2.2
2	342.6	244.5	40.1	4 722.2	3 466.2	36.2	13.8	14.2	-2.8
3 or more	S	V	S	S	S	S	S	S	S
Not reported	S	V	S	S	V	S	S	V	S
Total liftable axles and locations ¹² :									
None	41.0	2.0	1 942.5	683.6	29.6	2 208.6	16.7	14.7	13.0
1	3.0	.1	2 102.2	53.8	1.7	3 095.1	17.9	12.3	45.1
Forward of the drive axle	1.9	N	N	35.5	N	N	18.3	N	N
Below the chassis .....	.5	N	N	S	N	N	S	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported .....	.5	N	N	8.2	N	N	15.7	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	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported .....	.1	N	N	1.6	N	N	15.9	N	N
Not applicable ¹⁰	952.8	N	N	12 436.7	N	N	13.1	N	N
Total liftable axles and number of braking axles:									
None	41.0	2.0	1 942.5	683.6	29.6	2 208.6	16.7	14.7	13.0
1	3.0	.1	2 102.2	53.8	1.7	3 095.1	17.9	12.3	45.1
0 braking .....	.4	N	N	4.1	N	N	11.1	N	N
1 braking	2.3	N	N	43.3	N	N	18.9	N	N
Not reported .....	.4	N	N	6.4	N	N	18.4	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	1.6	N	N	15.9	N	N
Not applicable ¹⁰	952.8	N	N	12 436.7	N	N	13.1	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
CAB TYPE									
Conventional cab	40.3	3.2	1 164.7	670.1	38.1	1 660.6	16.6	11.9	39.2
With sleeper	2.8	N	N	142.4	N	N	51.7	N	N
Without sleeper	37.1	N	N	514.8	N	N	13.9	N	N
Not reported .....	.4	N	N	12.9	N	N	31.4	N	N
Cab over engine	3.7	1.1	241.6	68.1	16.9	302.7	18.5	15.7	17.9
With sleeper .....	.8	N	N	15.9	N	N	19.7	N	N
Without sleeper	2.9	N	N	52.2	N	N	18.2	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	S	.2	S	S	4.6	S	S	20.8	S
Cab beside engine .....	.1	.2	-55.3	S	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹⁰	952.8	N	N	12 436.7	N	N	13.1	N	N

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

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

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

³Truck-tractors not in use.

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

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

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

⁷Distributed miles data are available in Table 8.

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

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

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

¹¹Data were derived from administrative records.

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

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

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

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
Total .....	.9	.7	1.3	3.7	3.3	5.6	3.6	3.3	4.9
BUSINESS									
For-hire transportation or warehousing	36.0	27.0	3 066.6	30.3	24.2	1 736.5	21.8	12.2	16.5
Vehicle leasing or rental	S	S	S	40.4	S	S	S	S	S
Agriculture, forestry, fishing, or hunting	17.3	14.9	19.2	24.8	22.3	22.2	17.3	16.6	18.9
Mining	S	S	S	S	S	S	S	S	S
Utilities	35.8	S	S	37.2	S	S	14.8	S	S
Construction	17.6	15.1	21.4	21.8	17.5	27.6	12.2	8.6	16.0
Manufacturing	48.4	S	S	39.3	S	S	30.2	S	S
Wholesale trade	39.7	45.5	81.5	32.9	47.0	92.1	15.0	17.1	27.1
Retail trade	27.0	25.3	38.0	32.8	29.8	43.8	18.6	15.4	23.3
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	38.9	N	N	41.5	N	N	16.3	N	N
Arts, entertainment, or recreation services	39.0	N	N	S	N	N	S	N	N
Accommodation or food services	S	N	N	S	N	N	S	N	N
Other services	22.3	N	N	26.4	N	N	13.8	N	N
Personal transportation	2.7	2.5	4.1	5.0	4.3	7.6	4.3	3.5	5.7
Not reported	33.0	N	N	46.9	N	N	31.9	N	N
Not applicable ¹	36.9	34.7	51.0	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks .....	.9	.7	1.3	3.8	3.3	5.5	3.6	3.3	4.9
Pickup	1.1	1.0	1.4	5.2	4.3	6.1	5.0	4.2	6.1
Minivan	12.9	11.8	20.8	16.4	13.6	26.2	10.0	6.6	12.5
Other light vans	23.8	14.1	15.2	36.5	19.2	21.5	27.6	13.0	28.9
Sport utility	6.0	8.1	17.6	9.1	11.4	27.6	6.8	8.0	11.4
Armored	S	N	N	S	N	N	S	N	N
Beverage	S	S	S	S	S	S	S	S	S
Concrete mixer	13.7	18.1	N	17.4	21.9	700.9	10.7	11.8	N
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	46.2	S	S	S	S	N	S	S	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	7.6	15.5	306.2	12.2	13.5	391.7	10.5	9.6	17.2
Flatbed, stake, or platform	6.3	S	S	10.5	S	S	8.4	S	S
Low boy	45.2	S	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe	S	S	S	S	S	S	S	S	S
Service, utility	12.9	S	S	15.9	S	S	9.3	S	S
Service, other	19.3	35.0	450.8	24.5	44.2	654.7	15.8	27.1	36.1
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	24.6	42.3	N	34.9	44.6	N	31.2	16.8	N
Tank, liquids or gases	15.6	41.9	N	26.6	36.3	2 478.6	20.9	24.3	N
Tow/Wrecker	17.4	31.8	403.7	25.0	36.3	664.9	16.4	19.6	34.7
Trash, garbage, or recycling	18.1	S	S	20.1	44.5	3 964.5	13.1	S	S
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	11.0	10.4	50.2	15.7	13.4	98.4	11.6	9.7	21.8
Van, insulated nonrefrigerated	48.4	50.0	N	S	S	S	S	S	S
Van, insulated refrigerated	32.6	29.3	N	39.5	32.9	2 431.0	21.5	14.7	N
Van, open top	16.8	35.2	554.2	25.5	46.0	449.1	21.6	30.9	22.7
Van, step, walk-in, or multistop	13.6	8.5	26.2	18.1	11.7	52.8	11.9	8.0	21.5
Van, other	25.1	N	N	28.4	N	N	17.7	N	N
Other	N	N	N	N	N	N	N	N	N
Truck-tractors	3.1	8.7	257.8	5.3	8.1	254.5	4.8	7.4	8.3
Automobile carrier	S	S	S	S	S	S	S	S	S
Beverage	38.8	N	N	47.2	N	N	28.1	N	N
Curtainside	N	N	N	N	N	N	N	N	N
Dump	11.2	27.7	707.0	16.8	20.2	551.4	13.9	27.1	27.1
Flatbed, stake, or platform	11.0	27.3	439.9	15.1	27.0	682.6	11.3	13.9	26.6
Livestock	S	42.3	S	S	46.8	S	S	14.6	S
Low boy	13.4	16.3	N	22.7	23.5	374.7	19.8	16.8	N
Mobile home toter	36.6	N	N	S	N	N	S	N	N
Open top	8.4	12.9	494.9	15.5	18.5	357.1	13.5	12.8	8.6
Pole, logging, pulpwood, or pipe	S	N	S	S	N	S	S	N	S
Tank, dry bulk	26.7	43.2	N	36.3	44.8	1 041.1	24.5	7.2	N
Tank, liquids or gases	19.5	30.6	N	22.9	42.2	1 523.5	12.0	28.5	N
Van, basic enclosed	10.1	13.7	548.6	11.8	19.4	1 009.9	7.5	13.4	21.1
Van, drop-frame	S	S	S	S	S	S	S	S	S
Van, insulated nonrefrigerated	29.2	S	S	48.2	S	S	38.4	S	S
Van, insulated refrigerated	20.4	S	S	21.8	S	S	14.0	S	S
Other	N	N	N	N	N	N	N	N	N
Not applicable ²	24.7	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	8.9	9.4	17.5	11.2	11.5	22.1	6.5	6.6	9.5
5,000 to 9,999	9.9	8.2	11.8	10.2	8.4	12.3	2.4	1.9	3.1
10,000 to 19,999	5.5	4.9	8.0	5.7	5.0	8.0	1.4	1.3	1.8
20,000 to 29,999	11.4	9.7	14.6	11.5	9.8	15.1	1.5	1.2	2.0
30,000 to 49,999	17.5	20.6	46.6	17.5	20.7	45.8	2.5	2.3	3.3
50,000 to 74,999	34.9	43.5	101.4	34.7	44.1	93.1	2.9	6.9	6.8
75,000 or more	S	S	S	S	S	S	S	S	S
Not applicable ¹	36.9	43.9	92.1	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	29.8	17.9	16.0	S	28.5	S	S	22.0	S
50 miles or less	3.3	2.9	4.7	5.1	4.5	7.8	4.0	3.5	5.6
51 to 100 miles	13.8	9.0	9.7	16.1	11.9	12.1	9.1	7.8	12.3
101 to 200 miles	26.5	18.7	19.2	32.7	23.1	20.6	23.7	14.8	24.3
201 to 500 miles	35.0	29.5	42.1	32.6	37.9	38.4	11.1	23.4	21.6
501 miles or more	30.1	35.0	80.3	33.8	36.4	168.9	18.3	11.7	42.4
Not reported	11.2	43.9	805.0	17.2	N	N	13.1	N	N
Not applicable ¹	36.9	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	S	N	N	S	N	N	S	N	N
Operated within the home base state	2.2	N	N	4.2	N	N	3.6	N	N
Operated in states other than the home base state	23.3	N	N	24.6	N	N	12.7	N	N
Not reported	12.2	N	N	18.7	N	N	14.2	N	N
Not applicable ¹	36.9	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	3.1	N	N	5.1	N	N	4.0	N	N
7 to 11	9.7	N	N	11.8	N	N	7.0	N	N
2 to 6	13.6	N	N	21.9	N	N	16.7	N	N
1 or less	23.8	N	N	35.7	N	N	27.8	N	N
Vehicle not used	36.9	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	1.1	.7	1.4	3.9	3.3	5.4	3.8	3.3	5.0
Medium	23.0	10.6	605.3	28.2	13.8	917.4	14.1	10.0	21.1
Light-heavy	7.9	16.1	249.0	14.0	20.3	416.8	11.4	12.6	20.7
Heavy-heavy	2.5	6.6	208.8	4.2	6.2	232.6	3.9	6.8	8.3
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2.8	1.3	2.6	5.3	3.5	5.1	4.5	3.3	5.3
6,001 to 8,500	9.2	N	N	11.4	N	N	6.6	N	N
8,501 to 10,000	26.3	N	N	37.8	N	N	26.7	N	N
10,001 to 14,000	31.7	13.9	905.8	35.9	18.1	1 147.8	18.3	13.2	24.6
14,001 to 16,000	12.7	23.3	328.4	22.1	26.6	456.6	18.1	17.1	26.6
16,001 to 19,500	42.3	28.3	1 618.8	S	34.4	S	S	23.6	S
19,501 to 26,000	7.9	16.1	249.0	14.0	20.3	416.8	11.4	12.6	20.7
26,001 to 33,000	9.1	32.2	1 976.6	14.0	34.5	3 075.9	10.5	12.3	22.6
33,001 to 40,000	12.1	23.7	409.7	18.0	26.9	455.8	13.4	25.0	26.0
40,001 to 50,000	8.3	13.5	326.8	13.6	12.9	544.0	11.4	14.0	25.5
50,001 to 60,000	11.1	13.0	400.8	19.5	25.8	578.0	16.1	21.8	20.6
60,001 to 80,000	3.2	5.8	230.1	5.5	8.4	323.3	4.8	6.1	7.1
80,001 to 100,000	19.1	43.8	N	30.9	S	S	24.3	S	S
100,001 to 130,000	S	N	S	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	2.3	.8	2.2	4.8	3.4	5.1	4.2	3.3	5.2
20.0 to 27.9	12.5	7.1	794.2	16.8	10.0	1 161.9	11.2	7.3	14.3
28.0 to 35.9	15.2	S	S	18.2	S	S	9.9	S	S
36.0 to 40.9	38.4	23.4	2 005.3	31.4	26.6	1 934.4	9.0	18.8	21.9
41.0 to 44.9	S	49.7	S	S	40.7	S	S	18.4	S
45.0 to 49.9	12.4	39.7	N	16.0	26.2	2 364.8	13.0	39.9	N
50.0 to 54.9	10.4	16.8	N	18.1	23.1	774.3	15.6	15.5	N
55.0 to 59.9	9.6	9.9	235.2	14.3	15.9	281.3	11.7	12.2	13.1
60.0 to 64.9	8.9	14.7	716.1	11.4	18.3	843.8	8.3	10.8	12.7
65.0 to 69.9	12.3	21.4	N	18.4	24.6	683.7	13.6	11.8	N
70.0 to 74.9	25.5	37.8	N	27.4	50.0	2 155.4	18.2	32.7	N
75.0 to 79.9	36.6	N	N	46.9	N	N	29.3	N	N
80.0 or more	48.5	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	7.5	19.2	358.3	10.6	22.1	520.1	9.1	17.4	23.9
5 to 6.9	4.6	8.5	86.6	6.5	8.9	122.8	6.0	7.5	11.9
7 to 8.9	6.5	S	S	9.8	49.0	153.7	7.8	S	S
9 to 10.9	18.6	16.0	22.2	25.7	25.5	22.4	19.3	19.8	18.8
11 to 12.9	18.1	10.7	10.3	21.2	15.4	13.7	11.6	11.1	17.2
13 to 14.9	14.0	9.4	10.9	17.1	13.3	13.3	9.9	9.5	13.0
15 or more	3.5	3.2	5.1	5.4	4.7	7.9	4.1	3.5	5.5
15 to 20.9	4.8	4.3	6.9	6.8	5.8	9.9	4.8	4.0	6.5
21 to 24.9	14.4	11.7	17.2	17.9	14.4	21.9	10.7	8.5	14.1
25 or more	18.3	20.0	42.8	21.8	22.8	48.1	11.7	10.9	15.5
Not reported	11.0	19.1	10 223.5	16.9	39.7	43 902.4	13.1	35.7	83.4
Not applicable ¹	36.9	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	39.6	N	N	S	N	N	S	N	N
2002	19.7	N	N	21.4	N	N	9.5	N	N
2001	15.2	N	N	16.4	N	N	6.8	N	N
2000	14.2	N	N	16.9	N	N	9.7	N	N
1999	13.8	N	N	15.7	N	N	8.0	N	N
1998	16.3	S	S	19.3	S	S	10.9	S	S
1997	17.1	14.5	21.3	18.5	17.0	21.4	8.0	8.8	10.7
1996	18.5	16.3	25.4	20.9	20.0	20.1	10.4	11.5	10.5
1995	15.1	14.2	24.3	18.7	16.1	31.6	11.4	7.6	15.0
1994	18.8	14.5	18.0	25.6	16.3	22.6	17.7	8.2	19.2
1993	20.5	16.8	23.6	24.8	18.9	17.2	14.4	8.7	10.5
Pre-1993	6.6	3.1	3.9	12.4	5.6	5.3	10.5	4.7	8.4
VEHICLE ACQUISITION									
New	5.5	5.2	8.5	7.1	7.2	11.5	4.7	5.0	6.9
Used	4.2	3.5	5.7	7.0	5.7	9.6	5.6	4.5	7.4
Not reported	18.9	28.0	97.2	22.2	28.6	67.3	12.6	5.8	9.0
LEASE CHARACTERISTICS									
Leased	27.9	N	N	30.6	N	N	18.6	N	N
Lessee	31.0	N	N	38.4	N	N	22.9	N	N
Vehicle only	13.2	N	N	14.7	N	N	10.3	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	35.1	N	N	43.7	N	N	26.1	N	N
Lessor	12.3	N	N	12.9	N	N	8.3	N	N
Vehicle only	12.8	N	N	13.2	N	N	8.2	N	N
Vehicle with driver	42.0	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	46.2	N	N	S	N	N	S	N	N
Not leased	3.8	N	N	6.2	N	N	4.9	N	N
Not reported	5.7	N	N	7.7	N	N	5.3	N	N
Length of leasing agreement:									
Leased	27.9	N	N	30.6	N	N	18.6	N	N
1 to 11 months	35.6	N	N	45.9	N	N	32.6	N	N
12 months or more	9.2	N	N	10.1	N	N	7.5	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ³	35.1	N	N	43.7	N	N	26.1	N	N
Provisions of lease:									
Financing only	12.6	N	N	13.9	N	N	9.9	N	N
Full maintenance	14.2	N	N	14.4	N	N	9.2	N	N
Payment of taxes	13.1	N	N	13.6	N	N	9.0	N	N
Obtaining licenses and permits	13.7	N	N	14.1	N	N	9.0	N	N
Recordkeeping	23.9	N	N	23.4	N	N	14.9	N	N
Fuel contract	37.5	N	N	39.5	N	N	26.0	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	7.8	N	N	10.3	N	N	6.6	N	N
Motor carrier	35.9	N	N	18.7	N	N	23.1	N	N
Owner operator	9.6	N	N	11.5	N	N	8.6	N	N
Rental	S	N	N	40.4	N	N	S	N	N
Personal transportation	2.7	N	N	5.0	N	N	4.3	N	N
Not applicable ¹	36.9	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	10.4	N	N	11.7	N	N	7.3	N	N
Common	10.6	N	N	13.6	N	N	9.2	N	N
Not reported	16.1	N	N	19.7	N	N	13.1	N	N
Not applicable ⁴ .....	.9	N	N	3.7	N	N	3.6	N	N
Type of service:									
Truckload	7.8	22.4	N	9.3	24.0	2 268.0	6.8	8.3	N
Less-than truckload	14.8	33.0	589.3	18.0	34.4	723.4	10.3	14.9	20.8
Not reported	17.0	N	N	22.2	N	N	14.7	N	N
Not applicable ⁴ .....	.9	N	N	3.7	N	N	3.6	N	N
Source of hauls:									
Shippers or receivers	9.4	N	N	11.4	N	N	7.1	N	N
Brokers	18.8	N	N	22.0	N	N	11.4	N	N
Centralized markets or exchanges	28.6	N	N	33.8	N	N	23.1	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	11.6	N	N	14.2	N	N	10.4	N	N
Not applicable ⁴ .....	.9	N	N	3.7	N	N	3.6	N	N
HAZARDOUS MATERIALS CARRIED⁵									
Carrying hazardous materials	14.9	39.7	N	16.8	29.7	1 250.1	12.4	42.8	N
Not carrying hazardous materials	2.0	3.7	32.7	3.8	5.4	61.3	3.5	4.3	6.6
Not reported	8.6	6.4	23.8	14.5	11.1	45.8	12.4	9.1	17.4
Not applicable ⁶ .....	.9	N	N	3.9	N	N	3.7	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE ⁷									
Aerial work platform/bucket	16.5	N	N	22.3	N	N	14.9	N	N
Air bag(s) (safety device only)	4.1	7.5	22.6	5.4	9.1	27.3	3.7	5.2	6.2
Air compressor (except air brakes)	11.2	N	N	13.6	N	N	10.9	N	N
Air-conditioning	2.1	2.1	3.4	4.0	3.9	6.3	3.5	3.4	4.7
Air springs	6.7	N	N	8.9	N	N	7.2	N	N
Antilock brake system	4.1	4.7	8.7	5.6	6.0	11.4	3.9	3.8	5.5
Collision warning system	28.3	N	N	34.9	N	N	18.6	N	N
Computerized drive train control unit	15.0	N	N	17.6	N	N	9.4	N	N
Crane	24.3	N	N	35.3	N	N	25.9	N	N
Electronic vehicle identification device	27.5	28.2	N	32.5	35.8	413.4	23.5	20.3	N
Engine retarder/brake	5.9	10.8	312.2	7.9	16.7	414.6	6.2	9.2	9.8
Front-wheel drive	6.5	8.8	22.7	8.5	11.7	27.2	5.6	7.9	8.7
Hoist	10.1	N	N	14.0	N	N	11.6	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	25.5	N	N	30.9	N	N	15.7	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	14.3	N	N	17.2	N	N	11.0	N	N
Mounting bar for snowplow	N	N	N	N	N	N	N	N	N
Navigational system	S	N	S	S	N	S	S	N	S
Power take-off	4.4	N	N	6.8	N	N	5.8	N	N
Radial tires	3.5	2.2	3.6	5.2	4.0	5.6	3.9	3.4	5.0
Reflective material in addition to those required by law	8.8	13.2	125.4	12.0	15.1	165.6	8.6	12.6	16.5
Road speed governor	5.2	11.0	155.0	6.9	12.2	236.5	5.3	8.5	13.3
Toolbox	10.2	N	N	15.6	N	N	12.0	N	N
Trip recorder or on-board computer with communication capabilities	23.6	N	N	24.4	N	N	9.7	N	N
Trip recorder or on-board computer without communication capabilities	10.0	N	N	11.4	N	N	5.6	N	N
Vehicle control aids for handicapped drivers	N	S	S	N	S	S	N	S	S
Wheelchair lift	S	S	S	S	S	S	S	S	S
Winch	28.4	N	N	40.0	N	N	32.0	N	N
Transmission type:									
Automatic	2.7	N	N	5.0	N	N	4.3	N	N
Manual	7.4	N	N	9.2	N	N	6.2	N	N
Semiautomated manual	S	N	N	S	N	N	S	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	21.5	N	N	25.4	N	N	14.8	N	N
Braking system:									
Hydraulic (standard)	4.9	7.7	67.4	8.6	11.9	112.7	7.2	9.3	12.2
Hydraulic with power assist	6.0	6.7	40.8	10.0	9.6	60.8	8.1	7.0	10.3
Air	2.6	7.3	134.7	4.5	6.8	181.2	4.1	6.8	10.2
Other	N	S	N	N	37.8	N	N	N	S
Not reported	14.3	N	N	17.3	N	N	13.1	N	N
Not applicable ⁹	1.0	N	N	3.9	N	N	3.8	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	1.5	1.1	1.9	4.1	3.5	5.8	3.8	3.4	5.2
Diesel	13.0	21.0	52.5	12.2	26.8	68.6	7.0	16.8	20.0
Natural gas	N	N	N	N	N	N	N	N	N
Propane	25.3	N	N	31.5	N	N	18.8	N	N
Alcohol fuels	S	N	N	S	N	N	S	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	N	N	N	N	N	N	N	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹	36.9	N	N	S	N	N	S	N	N
Cylinders ⁹ :									
4 cylinders	11.1	9.6	14.8	13.6	11.7	18.3	7.8	6.7	10.4
6 cylinders	5.4	5.3	9.4	7.7	6.7	12.5	5.9	4.1	7.1
8 cylinders	5.0	4.1	6.5	7.2	6.9	10.5	5.2	5.6	8.0
Other	26.3	S	S	40.1	22.2	522.5	29.5	S	S
Cubic inch displacement ⁹ :									
Gasoline fuel:									
Less than 200	8.8	7.2	10.7	11.1	8.9	12.7	6.8	5.3	8.2
200 to 299	7.1	8.4	18.3	10.0	9.9	22.2	7.2	5.2	8.4
300 to 349	9.4	7.6	11.1	12.1	11.9	17.7	7.6	9.2	13.4
350 to 399	8.8	6.8	9.5	12.2	9.4	13.2	8.5	6.6	10.8
400 or more	37.3	34.9	49.3	39.9	47.4	80.8	18.9	32.6	50.9
Not available	30.5	29.8	44.0	28.2	36.0	9.5	31.7	20.5	7.6
Diesel fuel:									
Less than 400	13.0	21.0	52.5	12.2	26.8	68.6	7.0	16.8	20.0
400 to 599	23.3	26.2	53.2	27.4	34.0	55.3	15.3	21.7	22.2
600 to 799	23.0	38.5	93.8	21.0	44.7	128.4	8.3	22.5	29.8
800 or more	4.5	11.2	444.3	7.1	11.6	668.2	5.7	9.8	15.2
Not available	4.8	6.3	186.9	8.5	9.1	243.3	7.2	6.7	8.1
Other fuel	8.3	12.4	163.4	14.8	15.6	295.5	13.3	16.3	26.4
Not reported	S	S	S	S	S	S	S	S	S
Not applicable ¹	36.9	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
REFUELING LOCATION									
Gas station	1.8	N	N	4.2	N	N	3.8	N	N
Truck stop	26.6	N	N	24.0	N	N	11.0	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	20.4	N	N	16.3	N	N	12.1	N	N
Other company's/contractor's facility not open to the public	S	N	N	S	N	N	S	N	N
Other	S	N	N	S	N	N	S	N	N
Not reported	18.9	N	N	25.8	N	N	17.4	N	N
Not applicable ¹	36.9	N	N	S	N	N	S	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	25.5	37.5	126.0	32.5	42.1	133.0	19.6	19.1	24.6
Company-owned maintenance facility	13.2	20.6	66.4	15.5	24.2	85.5	9.6	12.7	17.5
General repair business or private mechanic ..	5.3	6.0	11.6	7.0	8.0	15.2	4.6	5.4	7.0
Dealership service department	9.6	8.5	13.2	11.0	10.5	15.2	5.9	6.3	8.3
Leasing company	18.8	S	S	20.4	S	S	14.0	S	S
Individual not employed/paid by any maintenance type facility									
Other	5.8	3.7	5.1	8.9	5.8	7.4	6.8	4.5	7.6
Other	N	49.5	N	N	S	S	N	S	S
Not reported	19.0	17.2	28.1	25.9	21.8	56.8	17.7	13.4	33.9
Not applicable ¹	36.9	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	2.3	14.3	169.7	4.6	16.4	184.7	4.0	7.9	8.2
Company-owned maintenance facility	42.8	28.6	24.6	28.9	34.2	15.6	19.8	18.9	20.0
General repair business or private mechanic ..	17.7	10.3	9.7	18.9	14.5	11.8	9.0	10.2	14.2
Dealership service department	26.0	12.5	9.0	26.3	14.6	10.0	10.7	7.4	13.9
Leasing company	S	S	S	S	S	S	S	S	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	34.5	25.3	.4	38.1	27.5	1.2	23.9	10.9	74.7
Other	25.9	13.0	10.1	29.9	16.4	16.7	14.9	10.0	25.2
Other	N	49.7	N	N	S	S	N	S	S
Not reported	S	3.7	S	S	5.9	S	S	4.6	S
Not applicable ¹	36.9	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	1.2	.8	1.5	3.9	3.4	5.5	3.7	3.3	4.9
3 axles	1.2	.8	1.5	3.9	3.4	5.4	3.7	3.3	4.9
4 axles	6.6	13.8	198.0	14.7	12.6	380.5	12.6	11.3	25.8
5 axles or more	8.6	11.8	367.1	11.5	15.7	583.0	7.5	9.6	14.5
Not reported	S	N	S	S	N	N	S	N	S
Combinations	18.7	S	S	18.2	49.7	670.9	9.6	S	S
Single-unit trucks with trailer									
3 axles	25.6	S	S	30.4	S	S	15.1	S	S
4 axles	41.6	S	S	S	S	S	S	S	S
5 axles or more	34.1	S	S	38.1	S	S	15.0	S	S
Not reported	24.8	33.8	194.9	43.9	43.4	689.7	31.5	28.9	102.5
Truck-tractors with single trailer									
3 axles	3.2	8.7	249.3	5.3	8.1	253.6	4.8	7.4	8.6
4 axles	21.4	37.5	N	23.4	37.6	1 874.4	16.9	6.1	N
5 axles or more	16.7	30.7	588.1	21.4	25.2	713.1	17.1	23.6	37.3
Not reported	3.6	8.6	223.1	6.4	9.0	227.7	5.5	6.9	7.6
Truck-tractors with double trailers	13.5	N	N	17.2	N	N	11.0	N	N
5 axles	S	N	S	S	N	S	S	N	S
6 axles	N	N	N	N	N	N	N	N	N
7 axles	S	N	S	S	N	S	S	N	S
8 axles or more	N	N	N	N	N	N	N	N	N
Not reported	N	N	S	S	N	S	S	N	S
Truck-tractors with triple trailers									
7 axles	N	N	N	N	N	N	N	N	N
8 axles	N	N	N	N	N	N	N	N	N
9 axles	N	N	N	N	N	N	N	N	N
10 axles or more	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Driving axles:									
1	3.3	2.5	4.2	5.8	4.7	7.6	4.8	3.9	6.3
2	6.2	6.6	12.7	7.9	8.9	16.2	5.2	6.0	7.7
3 or more	S	40.8	S	S	S	S	S	S	S
Not reported	S	N	S	S	N	S	S	N	S
Total liftable axles and locations:									
None	1.1	6.8	140.2	3.4	8.9	219.1	3.3	6.8	8.6
1	8.3	20.2	481.7	12.7	15.8	648.7	9.8	15.7	26.9
Forward of the drive axle	10.1	N	N	13.3	N	N	10.1	N	N
Below the chassis	26.8	N	N	S	N	N	S	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	19.3	N	N	23.3	N	N	16.2	N	N
2 or more	S	S	S	S	S	S	S	S	S
Forward of the drive axle	S	N	N	S	N	S	S	N	N
Below the chassis	N	N	N	N	N	N	N	N	N
Beyond the chassis	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	39.4	N	N	49.5	N	N	29.9	N	N
Not applicable ⁸	1.0	N	N	3.9	N	N	3.8	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
TRUCK TYPE AND AXLE ARRANGEMENT—Con.									
Total liftable axles and number of braking axles:									
None	1.1	6.8	140.2	3.4	8.9	219.1	3.3	6.8	8.6
1	8.3	20.2	481.7	12.7	15.8	648.7	9.8	15.7	26.9
0 braking	26.8	N	N	29.0	N	N	21.4	N	N
1 braking	9.4	N	N	14.2	N	N	11.0	N	N
Not reported	27.7	N	N	44.6	N	N	30.8	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	39.4	N	N	49.5	N	N	29.9	N	N
Not applicable ⁸	1.0	N	N	3.9	N	N	3.8	N	N
CAB TYPE									
Conventional cab	1.1	4.8	62.6	3.4	6.7	133.0	3.3	5.5	9.0
With sleeper	7.5	N	N	9.8	N	N	6.6	N	N
Without sleeper	1.3	N	N	3.9	N	N	3.7	N	N
Not reported	27.1	N	N	33.0	N	N	25.1	N	N
Cab over engine	7.5	9.3	41.0	12.5	11.3	67.8	9.4	8.0	14.6
With sleeper	14.0	N	N	25.1	N	N	20.8	N	N
Without sleeper	9.1	N	N	14.6	N	N	10.6	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	S	24.1	S	S	29.6	S	S	15.6	S
Cab beside engine	48.4	30.3	25.5	S	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁹	1.0	N	N	3.9	N	N	3.8	N	N

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

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

²Truck-tractors not in use.

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	1997 trucks	Percent	2002 truck	1997 truck	Percent	2002 average	1997 average	Percent
	(thousands)	(thousands)	change	miles	miles	change	miles per	miles per	change
	A	B	C	D	E	F	G	H	I
Total	44.1	6.7	557.0	739.7	83.4	786.6	16.8	12.4	34.9
BUSINESS¹									
For-hire transportation or warehousing	3.8	.1	2 464.9	126.6	4.8	2 531.5	33.4	32.5	2.6
Vehicle leasing or rental	1.7	.8	S	84.2	S	S	50.0	S	S
Agriculture, forestry, fishing, or hunting	10.8	.8	1 272.6	97.6	7.5	1 198.3	9.0	9.6	-5.4
Mining .....	.8	V	N	14.6	.1	19 475.2	18.8	V	N
Utilities	3.3	S	S	48.5	S	S	14.7	S	S
Construction	6.5	1.0	578.6	101.4	13.6	646.7	15.6	14.2	10.0
Manufacturing	1.9	.1	1 797.8	39.3	2.1	1 761.8	20.3	20.7	-1.9
Wholesale trade	2.9	.6	412.6	71.4	10.8	558.6	25.0	19.5	28.5
Retail trade	4.2	.9	383.8	74.4	12.7	485.0	17.7	14.6	20.9
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	1.5	N	N	26.3	N	N	17.3	N	N
Arts, entertainment, or recreation services .....	.3	N	N	S	N	N	S	N	N
Accommodation or food services .....	.5	N	N	9.8	N	N	21.2	N	N
Other services	1.0	N	N	11.2	N	N	11.0	N	N
Personal transportation .....	.7	.5	43.1	7.0	2.4	184.1	9.9	5.0	98.5
Not reported	2.0	V	N	22.6	V	N	11.5	V	N
Not applicable ²	2.2	.1	1 854.6	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks	33.5	6.3	428.5	421.6	71.4	490.6	12.6	11.3	11.8
Armored	S	N	N	S	N	N	S	N	N
Beverage	S	S	S	S	S	S	S	S	S
Concrete mixer .....	.8	V	N	9.5	.4	2 403.7	11.9	V	N
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane .....	.2	S	S	S	S	S	S	S	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	5.6	.3	1 675.9	62.2	2.9	2 052.3	11.2	9.2	21.2
Flatbed, stake, or platform	9.0	S	S	81.0	S	S	9.0	S	S
Low boy .....	.2	S	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe	S	S	S	S	S	S	S	S	S
Service, utility	2.8	S	S	34.7	S	S	12.4	S	S
Service, other	1.3	.1	1 026.7	23.0	1.8	1 194.7	18.2	15.8	14.9
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk .....	.5	V	N	3.3	V	N	6.5	V	N
Tank, liquids or gases	1.8	V	N	23.7	.4	5 406.1	13.0	V	N
Tow/Wrecker	1.5	.1	1 013.8	15.5	1.0	1 410.6	10.5	7.7	35.6
Trash, garbage, or recycling .....	.7	S	S	19.0	.2	8 019.3	26.7	S	S
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	3.3	1.0	232.0	55.6	11.6	378.0	16.7	11.6	44.0
Van, insulated nonrefrigerated .....	.1	V	N	S	S	S	S	S	S
Van, insulated refrigerated .....	.5	V	N	9.2	.2	4 628.4	20.2	V	N
Van, open top	1.5	.1	1 320.6	3.3	.4	754.2	2.2	3.7	-39.9
Van, step, walk-in, or multistop	2.5	1.5	63.3	62.1	25.3	145.3	24.7	16.5	50.2
Van, other .....	.7	N	N	7.5	N	N	11.0	N	N
Other	V	N	N	V	N	N	V	N	N
Truck-tractors	10.7	.4	2 681.3	318.2	12.1	2 537.0	29.9	31.5	-5.2
Automobile carrier	S	S	S	S	S	S	S	S	S
Beverage .....	.3	N	N	3.9	V	N	13.9	V	N
Curtainside	V	N	N	V	N	N	V	N	N
Dump	1.4	.1	2 263.4	38.0	1.8	2 001.4	26.6	30.0	-11.1
Flatbed, stake, or platform	1.5	.1	1 392.9	48.2	2.2	2 106.9	32.7	22.1	47.8
Livestock	S	V	S	S	.3	S	S	V	S
Low boy	1.1	V	N	13.9	1.2	1 047.1	13.0	V	N
Mobile home toter .....	.1	N	N	S	N	N	S	N	N
Open top	2.3	.1	3 108.1	32.3	2.2	1 383.0	14.1	30.6	-53.8
Pole, logging, pulpwood, or pipe	S	V	S	S	V	S	S	V	S
Tank, dry bulk .....	.2	V	N	7.7	.4	1 706.7	33.2	V	N
Tank, liquids or gases .....	.4	V	N	25.0	.8	3 071.7	58.3	V	N
Van, basic enclosed	2.1	.1	3 131.3	109.0	2.5	4 344.9	52.6	38.3	37.6
Van, drop-frame	S	S	S	S	S	S	S	S	S
Van, insulated nonrefrigerated .....	.2	S	S	3.6	S	S	18.7	S	S
Van, insulated refrigerated .....	.6	S	S	23.9	S	S	43.2	S	S
Other	V	N	N	V	N	N	V	N	N
Not applicable ³ .....	.4	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	14.6	1.5	848.8	22.8	2.9	698.3	1.6	1.9	-15.9
5,000 to 9,999	5.4	1.0	461.2	37.1	6.6	460.7	6.9	6.9	-1
10,000 to 19,999	9.0	S	S	123.8	34.7	256.4	13.8	S	S
20,000 to 29,999	5.6	.5	1 022.1	131.4	11.6	1 028.5	23.5	23.3	.6
30,000 to 49,999	3.6	.4	787.3	134.4	14.5	828.1	37.0	35.4	4.6
50,000 to 74,999	2.0	.2	1 115.6	119.7	9.6	1 141.5	58.8	57.5	2.1
75,000 or more	1.8	V	N	170.3	3.5	4 811.6	96.2	V	N
Not applicable ²	2.2	.1	1 890.7	S	V	S	S	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	2.0	.4	464.5	8.1	1.8	359.7	4.0	4.9	-18.6
50 miles or less	25.2	4.6	447.8	329.1	46.8	602.5	13.1	10.2	28.2
51 to 100 miles	7.2	1.2	497.9	177.3	22.9	675.0	24.7	19.0	29.6
101 to 200 miles	2.0	.3	622.4	83.0	6.4	1 199.9	42.6	23.7	79.9
201 to 500 miles	1.1	.1	650.8	42.1	3.5	1 106.2	39.2	24.4	60.7
501 miles or more .....	.8	V	N	36.1	2.1	1 633.0	46.3	V	N
Not reported	3.8	.1	3 416.1	63.8	V	N	16.7	V	N
Not applicable ²	2.2	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	S	N	N	S	N	N	S	N	N
Operated within the home base state	36.8	N	N	615.7	N	N	16.7	N	N
Operated in states other than the home base state	1.8	N	N	68.8	N	N	38.1	N	N
Not reported	3.3	N	N	55.0	N	N	16.6	N	N
Not applicable ²	2.2	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	21.9	N	N	530.9	N	N	24.2	N	N
7 to 11	6.7	N	N	135.9	N	N	20.2	N	N
2 to 6	9.4	N	N	64.6	N	N	6.9	N	N
1 or less	4.0	N	N	8.1	N	N	2.0	N	N
Vehicle not used	2.2	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	6.5	4.6	41.9	77.3	53.3	45.2	11.9	11.6	2.4
Medium	9.2	.9	878.3	114.4	10.8	961.4	12.4	11.5	8.5
Light-heavy	6.3	.5	1 296.3	65.9	3.9	1 599.3	10.4	8.6	21.7
Heavy-heavy	22.1	.7	2 855.8	482.1	15.5	3 004.3	21.8	20.8	5.0
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	1.5	S	S	20.6	S	S	13.4	S	S
6,001 to 8,500	2.9	N	N	31.9	N	N	11.0	N	N
8,501 to 10,000	2.1	N	N	24.8	N	N	12.1	N	N
10,001 to 14,000	3.4	.6	518.7	50.2	6.9	626.1	14.7	12.5	17.4
14,001 to 16,000	2.8	.2	1 139.2	35.3	2.7	1 221.7	12.4	11.6	6.7
16,001 to 19,500	2.9	.2	1 757.4	28.9	1.2	2 322.0	9.9	7.6	30.4
19,501 to 26,000	6.3	.5	1 296.3	65.9	3.9	1 599.3	10.4	8.6	21.7
26,001 to 33,000	4.9	.1	5 812.8	70.3	.9	8 155.8	14.3	10.3	39.6
33,001 to 40,000	2.2	.1	1 439.9	28.6	2.0	1 307.5	12.8	14.0	-8.6
40,001 to 50,000	3.8	.2	1 962.8	65.3	2.2	2 808.9	17.4	12.3	41.0
50,001 to 60,000	1.6	.1	2 248.4	26.3	1.5	1 687.9	16.2	21.3	-23.9
60,001 to 80,000	9.1	.3	3 387.1	283.5	8.8	3 123.8	31.0	33.5	-7.5
80,001 to 100,000 .....	.4	N	N	7.5	S	S	16.9	S	S
100,001 to 130,000	S	V	S	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	11.1	4.2	162.6	135.4	46.9	188.5	12.2	11.1	9.9
20.0 to 27.9	14.8	1.7	774.0	178.4	20.1	786.9	12.0	11.9	1.5
28.0 to 35.9	4.3	.2	1 614.0	60.8	2.9	1 999.4	14.2	11.6	22.5
36.0 to 40.9	3.2	.2	1 400.7	68.0	3.1	2 086.8	21.4	14.7	45.7
41.0 to 44.9	1.1	V	N	19.0	.4	4 299.2	18.0	V	N
45.0 to 49.9	1.8	V	N	62.2	.8	7 599.9	34.3	V	N
50.0 to 54.9	2.0	V	N	35.6	1.3	2 537.0	17.7	V	N
55.0 to 59.9	1.9	.1	1 600.0	42.2	3.2	1 217.2	22.0	28.4	-22.5
60.0 to 64.9	2.4	.1	4 062.4	89.7	2.3	3 810.9	37.9	40.4	-6.0
65.0 to 69.9	1.0	V	N	30.9	1.4	2 128.7	30.0	V	N
70.0 to 74.9 .....	.3	V	N	11.8	.3	3 681.1	34.8	V	N
75.0 to 79.9 .....	.1	N	N	4.8	N	N	37.9	N	N
80.0 or more .....	.1	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	4.3	.2	1 752.2	77.8	3.5	2 130.3	18.0	14.9	20.4
5 to 6.9	10.5	1.1	841.7	209.7	17.5	1 095.3	20.0	15.8	26.9
7 to 8.9	8.0	1.0	683.1	111.0	10.2	983.8	13.8	10.0	38.4
9 to 10.9	6.2	1.2	399.8	90.2	15.4	485.8	14.5	12.4	17.2
11 to 12.9	2.9	.8	254.8	46.4	13.6	240.3	16.1	16.8	-4.1
13 to 14.9	1.4	S	S	21.5	S	S	15.5	S	S
15 or more	1.8	.3	484.0	29.0	3.8	664.9	15.8	12.0	31.0
15 to 20.9	1.8	.3	491.6	29.0	3.7	675.2	15.8	12.0	31.0
21 to 24.9	V	V	N	V	V	N	V	V	N
25 or more	V	V	N	V	S	N	V	V	S
Not reported	6.8	.3	2 279.3	154.0	1.7	9 228.7	22.6	5.8	292.1
Not applicable ²	2.2	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003 .....	.1	N	N	S	N	N	S	N	N
2002	1.5	N	N	48.9	N	N	32.0	N	N
2001	1.8	N	N	51.8	N	N	28.9	N	N
2000	2.7	N	N	77.5	N	N	28.2	N	N
1999	3.3	N	N	90.9	N	N	27.6	N	N
1998	2.1	S	S	62.7	S	S	30.4	S	S
1997	2.0	2	989.4	55.9	4.3	1 200.9	27.4	22.9	19.4
1996	1.6	.1	1 020.8	33.6	3.1	987.1	20.9	21.6	-3.0
1995	2.5	.3	619.2	64.9	5.7	1 036.1	26.5	16.8	58.0
1994	1.7	S	S	35.3	S	S	20.4	S	S
1993	1.7	2	968.9	27.4	4.6	497.8	16.5	29.5	-44.1
Pre-1993	23.1	4.1	460.1	189.0	45.9	311.9	8.2	11.1	-26.4
VEHICLE ACQUISITION									
New	17.1	S	S	405.3	40.2	909.0	23.7	S	S
Used	25.6	3.4	645.7	297.1	37.4	695.3	11.6	10.9	6.7
Not reported	1.5	.3	440.6	37.3	5.9	531.1	24.9	21.4	16.7
LEASE CHARACTERISTICS									
Leased	4.3	N	N	160.8	N	N	37.1	N	N
Lessee	2.2	N	N	51.0	N	N	23.2	N	N
Vehicle only	2.2	N	N	51.0	N	N	23.2	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	2.0	N	N	106.2	N	N	54.3	N	N
Vehicle only	1.7	N	N	98.7	N	N	57.2	N	N
Vehicle with driver .....	.2	N	N	S	N	N	S	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported .....	.2	N	N	S	N	N	S	N	N
Not leased	25.5	N	N	385.8	N	N	15.1	N	N
Not reported	14.3	N	N	193.1	N	N	13.5	N	N
Length of leasing agreement:									
Leased	4.3	N	N	160.8	N	N	37.1	N	N
1 to 11 months .....	.3	N	N	10.3	N	N	36.2	N	N
12 months or more	3.9	N	N	146.0	N	N	37.5	N	N
Not reported	S	N	N	S	N	N	S	N	N
Provisions of lease ⁴ :									
Financing only	2.3	N	N	59.2	N	N	25.4	N	N
Full maintenance	1.5	N	N	89.4	N	N	57.9	N	N
Payment of taxes	1.9	N	N	96.5	N	N	51.4	N	N
Obtaining licenses and permits	1.7	N	N	90.7	N	N	54.4	N	N
Recordkeeping .....	.5	N	N	26.5	N	N	49.9	N	N
Fuel contract .....	.3	N	N	10.7	N	N	40.2	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	32.7	N	N	431.5	N	N	13.2	N	N
Motor carrier	4.1	N	N	134.3	N	N	32.7	N	N
Owner operator	2.7	N	N	82.6	N	N	30.4	N	N
Rental	1.8	N	N	84.2	N	N	48.0	N	N
Personal transportation .....	.7	N	N	7.0	N	N	9.9	N	N
Not applicable ²	2.2	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	2.6	N	N	105.8	N	N	40.7	N	N
Common	2.8	N	N	78.1	N	N	27.7	N	N
Not reported	1.4	N	N	33.0	N	N	23.4	N	N
Not applicable ⁵	37.3	N	N	522.9	N	N	14.0	N	N
Type of service:									
Truckload	3.6	V	N	131.2	1.5	8 691.3	36.5	V	N
Less-than truckload	2.0	.1	1 530.6	60.2	3.2	1 764.7	30.8	27.0	14.4
Not reported	1.3	N	N	25.4	N	N	19.8	N	N
Not applicable ⁵	37.3	N	N	522.9	N	N	14.0	N	N
Source of hauls:									
Shippers or receivers	3.7	N	N	121.4	N	N	32.8	N	N
Brokers .....	.5	N	N	25.4	N	N	55.4	N	N
Centralized markets or exchanges .....	.3	N	N	10.7	N	N	38.1	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	2.4	N	N	59.3	N	N	24.9	N	N
Not applicable ⁵	37.3	N	N	522.9	N	N	14.0	N	N
HAZARDOUS MATERIALS CARRIED⁶									
Carrying hazardous materials	1.8	V	N	45.7	1.2	3 560.5	25.4	V	N
Not carrying hazardous materials	32.7	4.2	673.6	539.0	58.1	827.9	16.5	13.8	20.0
Not reported	5.1	.9	455.3	63.6	8.7	635.2	12.6	9.5	32.4
Not applicable ⁷	4.6	N	N	91.4	N	N	19.8	N	N
EQUIPMENT TYPE⁴									
Aerial work platform/bucket	1.8	N	N	19.7	N	N	11.1	N	N
Air bag(s) (safety device only)	5.6	.2	2 187.5	161.7	4.9	3 173.3	28.6	20.0	43.1
Air compressor (except air brakes)	2.4	N	N	49.8	N	N	20.9	N	N
Air-conditioning	24.3	3.4	608.6	569.4	48.6	1 072.5	23.5	14.2	65.5
Air springs	4.0	N	N	131.3	N	N	33.0	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent	2002 truck	1997 truck	Percent	2002 average	1997 average	Percent
	(thousands)	(thousands)	change	miles	miles	change	miles per	miles per	change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE⁴—Con.									
Antilock brake system	11.6	.6	1 825.5	336.1	12.4	2 607.2	29.1	20.7	40.6
Collision warning system	.4	N	N	9.8	N	N	23.2	N	N
Computerized drive train control unit	.7	N	N	23.8	N	N	32.6	N	N
Crane	.7	N	N	11.8	N	N	16.0	N	N
Electronic vehicle identification device	.3	V	N	9.4	1.1	755.5	31.4	V	N
Engine retarder/brake	4.7	.2	2 446.8	149.7	6.7	2 149.0	31.7	35.9	-11.7
Front-wheel drive	V	N	N	V	V	N	V	V	N
Hoist	3.6	N	N	43.7	N	N	12.0	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	.6	N	N	18.8	N	N	30.5	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	1.9	N	N	32.7	N	N	17.1	N	N
Mounting bar for snowplow	V	N	N	V	N	N	V	N	N
Navigational system	S	V	S	S	V	S	S	V	S
Power take-off	13.6	N	N	197.5	N	N	14.5	N	N
Radial tires	24.9	4.8	419.0	477.0	67.9	602.1	19.2	14.2	35.3
Reflective material in addition to those required by law	4.5	.6	692.9	92.1	10.7	757.7	20.3	18.8	8.2
Road speed governor	9.7	.8	1 176.4	244.4	14.5	1 584.9	25.3	19.2	32.0
Toolbox	10.4	N	N	176.1	N	N	17.0	N	N
Trip recorder or on-board computer with communication capabilities	1.3	N	N	47.6	N	N	37.1	N	N
Trip recorder or on-board computer without communication capabilities	.9	N	N	22.5	N	N	24.9	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	3.9	N	N	47.5	N	N	12.1	N	N
Transmission type:									
Automatic	8.8	N	N	149.2	N	N	16.9	N	N
Manual	33.3	N	N	546.3	N	N	16.4	N	N
Semiautomated manual	.2	N	N	7.4	N	N	32.2	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	1.7	N	N	33.9	N	N	19.6	N	N
Braking system:									
Hydraulic (standard)	12.8	1.7	637.2	147.1	19.1	669.1	11.5	11.1	4.3
Hydraulic with power assist	9.8	2.2	355.0	125.7	28.7	338.7	12.9	13.3	-3.6
Air	19.7	1.1	1 634.8	427.2	19.2	2 119.8	21.7	17.0	28.0
Other	V	S	S	V	.1	N	V	S	S
Not reported	1.9	N	N	39.6	N	N	20.7	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	12.3	4.7	160.1	106.8	49.4	116.0	8.6	10.4	-17.0
Diesel	28.8	1.9	1 379.2	621.8	34.0	1 730.4	21.6	17.4	23.7
Natural gas	V	N	N	V	N	N	V	N	N
Propane	.8	N	N	10.9	N	N	13.8	N	N
Alcohol fuels	V	N	N	V	N	N	V	N	N
Electricity	V	N	N	V	N	N	V	N	N
Combination	V	N	N	V	N	N	V	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ²	2.2	N	N	S	N	N	S	N	N
Cylinders ⁸ :									
4 cylinders	1.0	.2	322.2	19.5	5.2	277.0	18.7	20.9	-10.7
6 cylinders	21.6	1.2	1 739.6	525.9	23.2	2 163.4	24.3	19.8	23.0
8 cylinders	15.3	4.7	223.8	168.1	50.2	235.2	11.0	10.7	3.5
Other	6.2	.6	958.8	26.3	4.9	438.0	4.2	8.3	-49.2
Cubic inch displacement ⁸ :									
Gasoline fuel	12.3	4.7	160.1	106.8	49.4	116.0	8.6	10.4	-17.0
Less than 200	S	S	S	S	S	S	S	S	S
200 to 299	.5	.2	210.3	16.0	2.5	529.6	30.3	15.0	102.9
300 to 349	.5	.2	98.7	8.6	3.2	169.6	18.1	13.3	35.7
350 to 399	4.5	1.7	166.7	42.3	20.1	110.6	9.4	12.0	-21.0
400 or more	2.7	S	S	26.5	S	S	9.9	S	S
Not available	4.1	.5	735.7	12.7	2.8	359.8	3.1	5.6	-45.0
Diesel fuel	28.8	1.9	1 379.2	621.8	34.0	1 730.4	21.6	17.4	23.7
Less than 400	4.4	.8	419.5	69.9	14.5	381.3	16.0	17.3	-7.4
400 to 599	9.9	.5	2 105.7	179.4	5.1	3 432.1	18.1	11.3	60.1
600 to 799	6.5	.2	3 576.1	186.6	3.8	4 813.2	28.8	21.5	33.7
800 or more	5.1	.2	2 265.9	137.0	7.0	1 849.8	26.7	32.4	-17.6
Not available	2.9	.3	998.5	48.9	3.6	1 277.2	16.7	13.3	25.4
Other fuel	.8	S	S	10.9	S	S	13.8	S	S
Less than 400	.3	V	N	4.3	V	N	13.6	V	N
400 or more	.4	V	N	6.6	V	N	15.7	V	N
Not available	S	S	S	S	S	S	S	S	S
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ²	2.2	N	N	S	N	N	S	N	N
REFUELING LOCATION									
Gas station	21.8	N	N	307.9	N	N	14.1	N	N
Truck stop	7.3	N	N	193.0	N	N	26.3	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	10.6	N	N	198.4	N	N	18.7	N	N
Other company's/contractor's facility not open to the public	.8	N	N	25.0	N	N	33.0	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	1.4	N	N	15.2	N	N	10.7	N	N
Not applicable ²	2.2	N	N	S	N	N	S	N	N

See footnotes at end of table.

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Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁴									
General maintenance performed by:									
None performed	1.0	S	S	4.3	S	S	4.4	S	S
Company-owned maintenance facility	16.3	1.1	1 365.9	360.7	17.1	2 010.5	22.2	15.4	44.0
General repair business or private mechanic ..	12.6	3.2	290.6	234.1	42.0	457.4	18.5	13.0	42.7
Dealership service department	3.8	.4	849.2	90.8	7.2	1 155.8	24.0	18.1	32.3
Leasing company .....	.7	S	S	30.0	S	S	40.4	S	S
Individual not employed/paid by any maintenance type facility									
Other	11.0	2.0	455.0	126.5	24.0	427.4	11.5	12.1	-5.0
Not reported	V	S	S	V	.2	N	V	S	S
Not applicable ²	1.4	.6	124.3	18.5	5.2	253.8	13.3	8.4	57.8
Not reported	2.2	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	31.9	.1	24 971.6	507.9	1.5	34 187.6	15.9	11.7	36.8
Company-owned maintenance facility	2.2	.7	216.2	55.5	12.0	364.1	25.4	17.3	46.8
General repair business or private mechanic ..	3.1	1.1	176.2	82.2	16.7	391.5	26.5	14.9	78.0
Dealership service department	2.4	S	S	74.8	S	S	30.8	S	S
Leasing company	S	S	S	S	S	S	S	S	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility .....	.2	S	S	7.9	S	S	37.0	S	S
Other	1.6	.5	217.4	20.8	5.9	255.1	13.4	12.0	11.9
Not reported	V	S	S	V	S	S	V	S	S
Not applicable ²	2.2	N	N	S	25.5	N	V	10.3	N
Not reported					N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles	31.1	6.1	411.0	389.2	69.2	462.5	12.5	11.4	10.1
3 axles	25.0	5.7	339.5	305.4	65.7	365.0	12.2	11.5	5.8
4 axles	4.1	.3	1 189.8	43.5	2.2	1 867.8	10.6	6.9	52.6
5 axles or more	1.9	.1	2 416.4	39.3	1.3	2 895.5	20.4	17.2	19.0
Not reported	S	N	N	S	N	N	S	N	N
Combinations	13.0	.6	1 969.1	350.5	14.2	2 361.8	26.9	22.6	19.0
Single-unit trucks with trailer									
3 axles	2.7	.2	1 004.9	32.3	2.2	1 388.3	11.9	8.8	34.7
4 axles .....	.8	S	S	7.6	S	S	10.1	S	S
5 axles or more	1.4	.1	1 152.4	16.7	S	S	11.9	S	S
Not reported .....	.5	.1	365.4	7.7	.7	1 017.8	14.3	5.9	140.2
Truck-tractors with single trailer	10.3	.4	2 579.4	316.7	12.1	2 524.5	30.8	31.5	-2.0
3 axles .....	.7	V	N	13.6	.3	4 133.3	20.7	V	N
4 axles	1.2	.1	1 582.6	27.8	1.3	2 053.8	22.7	17.8	28.0
5 axles or more	7.3	.3	2 307.7	215.7	10.5	1 962.9	29.7	34.7	-14.3
Not reported	1.1	N	N	59.6	N	N	52.8	N	N
Truck-tractors with double trailers									
5 axles	S	V	S	S	V	S	S	V	S
6 axles	V	V	N	V	V	N	V	V	N
7 axles	S	V	S	S	V	S	S	V	S
8 axles or more	V	V	N	V	V	N	V	V	N
Not reported	S	V	S	S	V	S	S	V	S
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	N	N	V	N	N
Driving axles:									
1	28.7	5.9	387.1	369.8	68.3	441.6	12.9	11.6	11.2
2	15.4	.8	1 763.3	369.2	15.0	2 358.9	24.0	18.2	32.0
3 or more	S	V	S	S	S	S	S	S	S
Not reported	S	V	S	S	V	S	S	V	S
Total liftable axles and locations ⁹ :									
None	41.0	1.7	2 317.4	683.6	25.0	2 639.6	16.7	14.7	13.3
1	3.0	.1	2 102.2	53.8	1.7	3 095.1	17.9	12.3	45.1
Forward of the drive axle	1.9	N	N	35.5	N	N	18.3	N	N
Below the chassis .....	.5	N	N	S	N	N	S	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported .....	.5	N	N	8.2	N	N	15.7	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	V	N	N	V	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported .....	.1	N	N	1.6	N	N	15.9	N	N
Total liftable axles and number of braking axles:									
None	41.0	1.7	2 317.4	683.6	25.0	2 639.6	16.7	14.7	13.3
1	3.0	.1	2 102.2	53.8	1.7	3 095.1	17.9	12.3	45.1
0 braking .....	.4	N	N	4.1	N	N	11.1	N	N
1 braking	2.3	N	N	43.3	N	N	18.9	N	N
Not reported .....	.4	N	N	6.4	N	N	18.4	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	1.6	N	N	15.9	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	40.3	3.2	1 164.7	670.1	38.1	1 660.6	16.6	11.9	39.2
With sleeper	2.8	N	N	142.4	N	N	51.7	N	N
Without sleeper	37.1	N	N	514.8	N	N	13.9	N	N
Not reported .....	.4	N	N	12.9	N	N	31.4	N	N
Cab over engine	3.7	1.1	241.6	68.1	16.9	302.7	18.5	15.7	17.9
With sleeper .....	.8	N	N	15.9	N	N	19.7	N	N
Without sleeper	2.9	N	N	52.2	N	N	18.2	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	S	.2	S	S	4.6	S	S	20.8	S
Cab beside engine .....	.1	.2	-55.3	S	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N

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

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

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

³Truck-tractors not in use.

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

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

⁶Distributed miles data are available in Table 8.

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

⁸Data were derived from administrative records.

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

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

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

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
Total .....	.8	23.1	151.9	3.2	19.0	170.5	3.1	5.7	8.8
BUSINESS									
For-hire transportation or warehousing	9.7	27.0	735.2	11.4	24.2	704.8	7.6	12.2	14.8
Vehicle leasing or rental	14.2	S	S	14.7	S	S	10.1	S	S
Agriculture, forestry, fishing, or hunting	5.1	11.2	168.9	8.8	11.7	190.2	8.0	10.9	12.8
Mining	21.3	27.5	N	25.4	30.1	7 711.4	19.2	14.6	N
Utilities	11.5	S	S	15.1	S	S	9.6	S	N
Construction	6.7	9.9	80.9	9.3	11.3	109.3	7.1	8.0	11.7
Manufacturing	12.6	35.9	721.9	16.7	42.8	855.7	15.4	23.3	27.4
Wholesale trade	11.6	14.7	95.9	12.9	17.7	144.2	8.6	11.4	18.3
Retail trade	9.3	11.2	70.5	12.1	13.6	106.8	8.6	8.6	14.7
Information services	S	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	14.6	N	N	17.9	N	N	15.8	N	N
Arts, entertainment, or recreation services	39.0	N	N	S	N	N	S	N	N
Accommodation or food services	29.6	N	N	27.7	N	N	14.6	N	N
Other services	20.9	N	N	34.5	N	N	27.9	N	N
Personal transportation	26.6	16.1	44.6	37.7	23.5	126.1	26.2	16.9	61.9
Not reported	14.6	N	N	22.1	N	N	19.5	N	N
Not applicable ¹	13.8	30.6	655.4	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks	1.4	24.5	129.7	4.4	22.1	133.3	4.1	4.8	7.1
Armored	S	N	N	S	N	N	S	N	N
Beverage	S	S	S	S	S	S	S	S	S
Concrete mixer	13.7	18.1	N	17.4	21.9	700.9	10.7	11.8	N
Concrete pumper	S	N	N	S	N	N	S	N	N
Crane	46.2	S	S	S	S	S	S	S	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	7.6	15.5	306.2	12.2	13.5	391.7	10.5	9.6	17.2
Flatbed, stake, or platform	6.3	S	S	10.5	S	S	8.4	S	S
Low boy	45.2	S	S	S	S	S	S	S	S
Pole, logging, pulpwood, or pipe	S	S	S	S	S	S	S	S	S
Service, utility	12.9	S	S	15.9	S	S	9.3	S	S
Service, other	19.3	35.0	450.8	24.5	44.2	654.7	15.8	27.1	36.1
Street sweeper	S	N	N	S	N	N	S	N	N
Tank, dry bulk	24.6	42.3	N	34.9	44.6	N	31.2	16.8	N
Tank, liquids or gases	15.6	41.9	N	26.6	36.3	2 478.6	20.9	24.3	N
Tow/Wrecker	17.4	31.8	403.7	25.0	36.3	664.9	16.4	19.6	34.7
Trash, garbage, or recycling	18.1	S	S	20.1	44.5	3 964.5	13.1	S	S
Vacuum	S	N	N	S	N	N	S	N	N
Van, basic enclosed	11.0	10.4	50.2	15.7	13.4	98.4	11.6	9.7	21.8
Van, insulated nonrefrigerated	48.4	50.0	N	S	S	S	S	S	S
Van, insulated refrigerated	32.6	29.3	N	39.5	32.9	2 431.0	21.5	14.7	N
Van, open top	16.8	35.2	554.2	25.5	46.0	449.1	21.6	30.9	22.7
Van, step, walk-in, or multistop	13.6	8.5	26.2	18.1	11.7	52.8	11.9	8.0	21.5
Van, other	25.1	N	N	28.4	N	N	17.7	N	N
Other	N	N	N	N	N	N	N	N	N
Truck-tractors	3.1	8.7	257.8	5.3	8.1	254.5	4.8	7.4	8.3
Automobile carrier	S	N	S	S	N	N	S	S	S
Beverage	38.8	S	N	47.2	N	S	28.1	N	N
Curtainside	N	N	N	N	N	N	N	N	N
Dump	11.2	27.7	707.0	16.8	20.2	551.4	13.9	27.1	27.1
Flatbed, stake, or platform	11.0	27.3	439.9	15.1	27.0	682.6	11.3	13.9	26.6
Livestock	S	42.3	S	S	46.8	S	S	14.6	S
Low boy	13.4	16.3	N	22.7	23.5	374.7	19.8	16.8	N
Mobile home toter	36.6	N	N	S	N	N	S	N	N
Open top	8.4	12.9	494.9	15.5	18.5	357.1	13.5	12.8	8.6
Pole, logging, pulpwood, or pipe	S	N	S	S	N	S	S	N	S
Tank, dry bulk	26.7	43.2	N	36.3	44.8	1 041.1	24.5	7.2	N
Tank, liquids or gases	19.5	30.6	N	22.9	42.2	1 523.5	12.0	28.5	N
Van, basic enclosed	10.1	13.7	548.6	11.8	19.4	1 009.9	7.5	13.4	21.1
Van, drop-frame	S	S	S	S	S	S	S	S	S
Van, insulated nonrefrigerated	29.2	S	S	48.2	S	S	38.4	S	S
Van, insulated refrigerated	20.4	S	S	21.8	S	S	14.0	S	S
Other	N	N	N	N	N	N	N	N	N
Not applicable ²	24.7	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	4.3	8.2	88.0	6.0	10.9	99.1	4.3	7.2	7.1
5,000 to 9,999	7.9	10.6	73.9	8.1	10.8	75.7	1.8	2.5	3.1
10,000 to 19,999	6.1	S	S	6.3	44.7	161.0	1.5	S	S
20,000 to 29,999	7.8	14.7	186.8	7.8	14.8	189.1	1.0	2.2	2.4
30,000 to 49,999	9.5	15.1	158.0	9.5	14.7	162.4	1.5	1.4	2.2
50,000 to 74,999	11.6	22.4	306.7	11.8	22.1	311.0	1.4	1.7	2.3
75,000 or more	10.4	19.1	N	10.2	20.0	1 101.4	2.4	5.6	N
Not applicable ¹	13.8	31.1	677.3	S	N	S	S	N	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	13.5	17.7	125.6	24.8	31.8	185.3	21.4	27.1	28.1
50 miles or less	2.7	33.8	185.8	4.9	33.3	236.3	4.2	3.5	7.1
51 to 100 miles	6.7	9.3	68.5	8.4	10.9	106.8	5.9	7.4	12.2
101 to 200 miles	12.3	18.5	160.9	14.4	22.3	344.9	9.6	14.3	30.9
201 to 500 miles	17.6	29.5	257.7	18.7	37.1	500.5	13.7	24.8	45.5
501 miles or more	19.8	33.9	N	21.6	23.3	550.4	15.2	28.7	N
Not reported	9.9	31.1	1 148.7	13.6	N	N	11.1	N	N
Not applicable	13.8	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	S	N	N	S	N	N	S	N	N
Operated within the home base state	1.6	N	N	3.6	N	N	3.3	N	N
Operated in states other than the home base state	13.1	N	N	14.1	N	N	11.9	N	N
Not reported	10.6	N	N	15.9	N	N	13.3	N	N
Not applicable ¹	13.8	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	3.1	N	N	4.3	N	N	3.4	N	N
7 to 11	6.8	N	N	8.8	N	N	7.3	N	N
2 to 6	5.5	N	N	11.7	N	N	10.5	N	N
1 or less	9.8	N	N	20.2	N	N	18.6	N	N
Vehicle not used	13.8	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	7.7	33.9	49.4	12.0	29.6	46.4	9.4	6.7	11.8
Medium	6.2	10.9	122.9	10.4	13.9	184.0	8.3	10.0	14.2
Light-heavy	7.9	16.2	251.3	14.0	20.4	419.7	11.4	12.6	20.7
Heavy-heavy	2.5	6.6	208.8	4.2	6.2	232.6	3.9	6.8	8.3
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	17.2	S	S	22.6	S	S	15.2	S	S
6,001 to 8,500	12.5	N	N	21.4	N	N	17.6	N	N
8,501 to 10,000	14.6	N	N	19.1	N	N	13.3	N	N
10,001 to 14,000	11.1	14.6	113.7	16.0	18.6	178.2	11.7	13.4	20.9
14,001 to 16,000	12.7	23.3	328.4	22.1	26.6	456.6	18.1	17.1	26.6
16,001 to 19,500	12.4	28.3	573.5	18.1	34.4	941.5	13.0	23.6	35.1
19,501 to 26,000	7.9	16.2	251.3	14.0	20.4	419.7	11.4	12.6	20.7
26,001 to 33,000	9.1	32.2	1 976.6	14.0	34.5	3 075.9	10.5	12.3	22.6
33,001 to 40,000	12.1	23.7	409.7	18.0	26.9	455.8	13.4	25.0	26.0
40,001 to 50,000	8.3	13.5	326.8	13.6	12.9	544.0	11.4	14.0	25.5
50,001 to 60,000	11.1	13.0	400.8	19.5	25.8	578.0	16.1	21.8	20.6
60,001 to 80,000	3.2	5.8	230.1	5.5	8.4	323.3	4.8	6.1	7.1
80,001 to 100,000	19.1	43.8	N	30.9	S	S	24.3	S	S
100,001 to 130,000	S	N	S	S	N	S	S	N	N
130,001 or more	N	N	N	N	N	N	N	N	N
TOTAL LENGTH (FEET)									
Less than 20.0	5.4	36.7	97.3	8.8	33.5	99.9	7.0	6.1	10.2
20.0 to 27.9	4.3	7.6	76.1	7.8	10.3	114.4	6.6	7.3	9.9
28.0 to 35.9	9.1	20.0	376.1	14.6	26.3	632.5	11.8	19.1	27.5
36.0 to 40.9	10.5	23.4	384.5	13.8	26.6	655.1	10.8	18.8	31.6
41.0 to 44.9	17.3	49.7	N	20.7	40.7	2 008.5	16.1	18.4	N
45.0 to 49.9	12.4	39.7	N	16.0	26.2	2 364.8	13.0	39.9	N
50.0 to 54.9	10.4	16.8	N	18.1	23.1	774.3	15.6	15.5	N
55.0 to 59.9	9.6	9.9	235.2	14.3	15.9	281.3	11.7	12.2	13.1
60.0 to 64.9	8.9	14.7	716.1	11.4	18.3	843.8	8.3	10.8	12.7
65.0 to 69.9	12.3	21.4	N	18.4	24.6	683.7	13.6	11.8	N
70.0 to 74.9	25.5	37.8	N	27.4	50.0	2 155.4	18.2	32.7	N
75.0 to 79.9	36.6	N	N	46.9	N	N	29.3	N	N
80.0 or more	48.5	N	N	S	N	N	S	N	N
MILES PER GALLON									
Less than 5	7.5	19.5	387.0	10.6	22.8	560.3	9.1	18.3	24.6
5 to 6.9	4.6	8.7	92.7	6.5	8.6	129.0	6.0	7.5	12.2
7 to 8.9	6.5	10.5	96.7	9.8	14.6	190.9	7.8	11.2	18.9
9 to 10.9	7.9	9.5	62.0	12.5	13.2	106.4	9.5	9.5	15.8
11 to 12.9	12.2	12.1	61.1	17.3	16.2	80.7	12.3	10.7	15.6
13 to 14.9	17.9	S	S	21.4	S	S	11.6	S	S
15 or more	15.2	19.3	143.6	22.5	23.3	247.5	16.4	13.4	27.7
15 to 20.9	15.2	19.6	146.6	22.5	23.6	252.5	16.4	13.6	27.9
21 to 24.9	N	N	N	N	N	N	N	N	N
25 or more	N	50.0	N	N	S	S	N	S	S
Not reported	7.0	19.5	492.1	9.5	42.6	4 075.4	7.8	39.0	155.9
Not applicable ¹	13.8	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]

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	39.6	N	N	S	N	N	S	N	N
2002	16.3	N	N	18.4	N	N	15.1	N	N
2001	15.2	N	N	16.6	N	N	9.9	N	N
2000	12.3	N	N	13.1	N	N	8.5	N	N
1999	10.9	N	N	12.4	N	N	8.0	N	N
1998	13.0	S	S	14.6	S	S	11.0	S	S
1997	13.3	24.0	298.8	16.6	24.2	381.4	10.6	16.7	23.6
1996	15.0	27.8	353.9	19.2	34.1	425.8	14.0	20.0	23.7
1995	12.0	19.3	163.3	14.2	20.9	287.6	10.5	11.5	24.5
1994	13.1	S	S	15.8	S	S	13.2	S	S
1993	14.0	25.7	312.7	16.8	28.0	195.1	12.5	12.5	9.9
Pre-1993	2.9	3.8	27.0	6.4	6.2	36.7	5.9	5.2	5.8
VEHICLE ACQUISITION									
New	3.9	S	S	5.4	38.9	396.6	4.1	S	S
Used	2.6	4.5	39.0	5.1	6.9	68.7	4.8	5.9	8.1
Not reported	14.9	20.7	137.8	17.5	23.4	184.3	14.0	12.2	21.6
LEASE CHARACTERISTICS									
Leased	8.7	N	N	9.7	N	N	7.2	N	N
Lessee	13.2	N	N	14.7	N	N	10.3	N	N
Vehicle only	13.2	N	N	14.7	N	N	10.3	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	12.3	N	N	12.9	N	N	8.3	N	N
Vehicle only	12.8	N	N	13.2	N	N	8.2	N	N
Vehicle with driver	42.0	N	N	S	N	N	S	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	46.2	N	N	S	N	N	S	N	N
Not leased	2.6	N	N	5.0	N	N	4.4	N	N
Not reported	4.4	N	N	6.6	N	N	5.6	N	N
Length of leasing agreement:									
Leased	8.7	N	N	9.7	N	N	7.2	N	N
1 to 11 months	35.6	N	N	45.9	N	N	32.6	N	N
12 months or more	9.2	N	N	10.1	N	N	7.5	N	N
Not reported	S	N	N	S	N	N	S	N	N
Provisions of lease:									
Financing only	12.6	N	N	13.9	N	N	9.9	N	N
Full maintenance	14.2	N	N	14.4	N	N	9.2	N	N
Payment of taxes	13.1	N	N	13.6	N	N	9.0	N	N
Obtaining licenses and permits	13.7	N	N	14.1	N	N	9.0	N	N
Recordkeeping	23.9	N	N	23.4	N	N	14.9	N	N
Fuel contract	37.5	N	N	39.5	N	N	26.0	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	1.9	N	N	4.1	N	N	3.7	N	N
Motor carrier	9.1	N	N	10.8	N	N	6.9	N	N
Owner operator	9.6	N	N	11.5	N	N	8.6	N	N
Rental	14.0	N	N	14.7	N	N	10.4	N	N
Personal transportation	26.6	N	N	37.7	N	N	26.2	N	N
Not applicable ¹	13.8	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	10.4	N	N	11.7	N	N	7.3	N	N
Common	10.6	N	N	13.6	N	N	9.2	N	N
Not reported	16.1	N	N	19.7	N	N	13.1	N	N
Not applicable ³	1.5	N	N	3.9	N	N	3.7	N	N
Type of service:									
Truckload	7.8	22.4	N	9.3	24.0	2 268.0	6.8	8.3	N
Less-than truckload	14.8	33.0	589.3	18.0	34.4	723.4	10.3	14.9	20.8
Not reported	17.0	N	N	22.2	N	N	14.7	N	N
Not applicable ³	1.5	N	N	3.9	N	N	3.7	N	N
Source of hauls:									
Shippers or receivers	9.4	N	N	11.4	N	N	7.1	N	N
Brokers	18.8	N	N	22.0	N	N	11.4	N	N
Centralized markets or exchanges	28.6	N	N	33.8	N	N	23.1	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	11.6	N	N	14.2	N	N	10.4	N	N
Not applicable ³	1.5	N	N	3.9	N	N	3.7	N	N
HAZARDOUS MATERIALS CARRIED⁴									
Carrying hazardous materials	14.9	39.7	N	16.8	29.7	1 250.1	12.4	42.8	N
Not carrying hazardous materials	2.0	3.7	32.7	3.8	5.4	61.3	3.5	4.3	6.6
Not reported	8.6	11.1	78.1	14.5	20.3	183.8	12.4	17.5	28.4
Not applicable ⁵	9.0	N	N	13.8	N	N	12.5	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	16.5	N	N	22.3	N	N	14.9	N	N
Air bag(s) (safety device only)	8.0	19.4	479.9	9.3	17.9	660.1	6.4	12.0	19.5
Air compressor (except air brakes)	11.2	N	N	13.6	N	N	10.9	N	N
Air-conditioning	2.7	45.2	321.2	3.9	32.2	380.1	3.3	13.7	23.4
Air springs	6.7	N	N	8.9	N	N	7.2	N	N
Antilock brake system	5.1	13.7	281.2	6.0	16.8	482.1	4.5	11.2	17.0
Collision warning system	28.3	N	N	34.9	N	N	18.6	N	N
Computerized drive train control unit	19.0	N	N	22.0	N	N	16.9	N	N
Crane	24.3	N	N	35.3	N	N	25.9	N	N
Electronic vehicle identification device	27.5	28.2	N	32.5	35.8	413.4	23.5	20.3	N
Engine retarder/brake	5.9	10.8	312.2	7.9	16.7	414.6	6.2	9.2	9.8
Front-wheel drive	N	N	N	N	N	N	N	N	N
Hoist	10.1	N	N	14.0	N	N	11.6	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	25.5	N	N	30.9	N	N	15.7	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	14.3	N	N	17.2	N	N	11.0	N	N
Mounting bar for snowplow	N	N	N	N	N	N	N	N	N
Navigational system	S	N	S	S	N	S	S	N	S
Power take-off	4.4	N	N	6.8	N	N	5.8	N	N
Radial tires	2.7	32.4	168.7	4.3	23.2	165.9	3.6	10.1	14.6
Reflective material in addition to those required by law	8.8	13.2	125.4	12.0	15.1	165.6	8.6	12.6	16.5
Road speed governor	5.2	11.0	155.0	6.9	12.2	236.5	5.3	8.5	13.3
Toolbox	5.6	N	N	7.5	N	N	5.6	N	N
Trip recorder or on-board computer with communication capabilities	18.8	N	N	21.7	N	N	11.8	N	N
Trip recorder or on-board computer without communication capabilities	19.6	N	N	22.0	N	N	14.9	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	10.0	N	N	14.3	N	N	10.4	N	N
Transmission type:									
Automatic	6.2	N	N	8.2	N	N	5.7	N	N
Manual	1.9	N	N	4.1	N	N	3.9	N	N
Semiautomated manual	37.8	N	N	43.6	N	N	30.7	N	N
Automated manual	S	N	N	S	N	N	S	N	N
Not reported	15.5	N	N	19.1	N	N	14.6	N	N
Braking system:									
Hydraulic (standard)	4.9	7.7	67.4	8.6	11.9	112.7	7.2	9.3	12.2
Hydraulic with power assist	6.0	6.7	40.8	10.0	9.6	60.8	8.1	7.0	10.3
Air	2.6	7.3	134.7	4.5	6.8	181.2	4.1	6.8	10.2
Other	N	S	S	N	37.8	N	N	S	S
Not reported	14.3	N	N	17.3	N	N	13.1	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	5.0	32.7	86.0	10.4	31.8	72.3	9.2	5.2	8.7
Diesel	2.2	5.9	93.1	3.7	6.5	136.9	3.2	4.8	7.1
Natural gas	N	N	N	N	N	N	N	N	N
Propane	25.3	N	N	31.5	N	N	18.8	N	N
Alcohol fuels	N	N	N	N	N	N	N	N	N
Electricity	N	N	N	N	N	N	N	N	N
Combination	N	N	N	N	N	N	N	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ¹	13.8	N	N	S	N	N	S	N	N
Cylinders ⁶ :									
4 cylinders	14.0	12.9	80.4	15.9	18.3	91.2	9.6	10.5	12.7
6 cylinders	2.7	8.2	159.0	4.2	8.5	215.4	3.6	6.3	9.0
8 cylinders	4.1	33.0	107.6	7.5	31.4	108.0	6.2	5.2	8.4
Other	7.3	12.4	152.5	17.6	13.2	118.2	16.6	9.6	9.8
Cubic inch displacement ⁶ :									
Gasoline fuel									
Less than 200	S	S	S	S	S	S	S	S	S
200 to 299	31.1	28.8	131.5	38.3	39.0	344.0	22.3	26.3	70.0
300 to 349	32.8	23.9	80.6	42.8	33.7	146.9	27.6	23.1	48.9
350 to 399	9.8	8.0	33.8	13.8	12.6	39.3	10.1	9.8	11.1
400 or more	13.2	S	S	20.9	S	S	16.0	S	S
Not available	10.2	16.2	160.1	36.3	20.9	192.5	34.7	13.1	20.4
Diesel fuel									
Less than 400	2.2	5.9	93.1	3.7	6.5	136.9	3.2	4.8	7.1
400 to 599	9.3	10.8	74.3	12.5	12.5	85.0	8.4	7.1	10.2
600 to 799	5.9	16.0	375.1	8.4	21.7	820.8	6.0	15.3	26.3
800 or more	4.5	11.2	444.3	7.1	11.6	668.2	5.7	9.8	15.2
Not available	4.8	6.3	186.9	8.5	9.1	243.3	7.2	6.7	8.1
Other fuel	8.3	12.4	163.4	14.8	15.6	295.5	13.3	16.3	26.4
Less than 400	25.3	S	S	31.5	S	S	18.8	S	S
400 or more	40.3	N	N	47.4	N	N	25.1	N	N
Not available	34.8	N	N	42.1	N	N	23.7	N	N
Not reported	S	S	S	S	S	S	S	S	S
Not applicable ¹	13.8	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]

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	3.1	N	N	5.7	N	N	4.9	N	N
Truck stop	5.7	N	N	7.5	N	N	6.0	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	5.0	N	N	7.8	N	N	6.2	N	N
Other company's/contractor's facility not open to the public	19.4	N	N	23.3	N	N	13.6	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	17.0	N	N	21.9	N	N	14.6	N	N
Not applicable ¹	13.8	N	N	S	N	N	S	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	20.7	S	S	33.3	S	S	27.2	S	S
Company-owned maintenance facility	3.9	9.6	151.6	5.7	11.5	270.3	4.6	7.0	12.0
General repair business or private mechanic	4.8	47.9	188.1	6.3	37.3	210.7	4.9	11.8	18.2
Dealership service department	9.9	15.8	177.2	11.1	14.7	231.4	8.1	9.0	16.1
Leasing company	18.8	S	S	20.4	S	S	14.0	S	S
Individual not employed/paid by any maintenance type facility:									
Other	5.2	6.8	47.4	9.0	9.5	69.1	8.1	7.9	10.7
Not reported	N	S	S	N	42.2	N	N	S	S
Not reported	17.4	13.5	49.3	23.0	24.1	117.9	15.9	20.4	40.8
Not applicable ¹	13.8	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	2.0	29.1	7 302.8	4.2	35.0	12 091.7	3.8	27.2	37.6
Company-owned maintenance facility	12.1	13.1	56.5	15.7	15.2	101.4	11.8	8.2	21.0
General repair business or private mechanic	10.7	9.9	40.2	12.7	12.5	87.6	9.5	8.4	22.6
Dealership service department	12.0	S	S	13.1	S	S	8.8	S	S
Leasing company	S	S	S	S	S	S	S	S	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	34.5	S	S	38.1	S	S	23.9	S	S
Other	15.9	15.3	70.0	24.0	20.6	112.3	22.0	17.3	31.3
Not reported	N	S	S	N	S	N	N	S	S
Not reported	N	5.8	N	N	8.8	N	N	7.3	N
Not applicable ¹	13.8	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	1.8	25.5	130.6	4.7	22.8	131.1	4.4	5.0	7.3
3 axles	2.2	27.3	120.2	5.6	24.0	114.8	5.1	5.5	8.0
4 axles	6.6	13.8	198.0	14.7	12.6	380.5	12.6	11.3	25.8
5 axles or more	8.6	11.8	367.1	11.5	15.7	583.0	7.5	9.6	14.5
Not reported	S	N	N	S	N	N	S	N	N
Not reported	S	N	S	S	N	S	S	N	S
Combinations:									
Single-unit trucks with trailer:	3.6	10.4	228.0	5.0	8.7	247.2	4.6	8.8	11.8
3 axles	12.6	23.2	291.5	18.0	35.2	589.3	12.5	26.6	39.6
4 axles	25.7	S	S	32.9	S	S	20.2	S	S
5 axles or more	18.4	35.0	495.7	24.7	S	S	16.4	S	S
Not reported	24.8	33.8	194.9	43.9	43.4	689.7	31.5	28.9	102.5
Truck-tractors with single trailer:	S	N	N	S	N	N	S	N	N
3 axles	3.2	8.7	249.3	5.3	8.1	253.6	4.8	7.4	8.6
4 axles	21.4	37.5	N	23.4	37.6	1 874.4	16.9	6.1	N
5 axles or more	16.7	30.7	588.1	21.4	25.2	713.1	17.1	23.6	37.3
Not reported	3.6	8.6	223.1	6.4	9.0	227.7	5.5	6.9	7.6
Truck-tractors with double trailers:	13.5	N	N	17.2	N	N	11.0	N	N
5 axles	S	N	S	S	N	N	S	N	S
6 axles	N	N	N	N	N	N	N	N	N
7 axles	S	N	S	S	N	S	S	N	S
8 axles or more	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	1.7	26.4	128.7	5.1	23.1	128.4	4.8	5.5	8.1
2	2.3	7.4	144.0	4.5	6.4	191.8	4.1	7.1	10.8
3 or more	S	40.8	S	S	S	S	S	S	S
Not reported	S	N	S	S	N	S	S	N	S
Total liftable axles and locations:									
None	1.1	7.5	182.3	3.4	9.2	269.5	3.3	7.1	8.9
1	8.3	20.2	481.7	12.7	15.8	648.7	9.8	15.7	26.9
Forward of the drive axle	10.1	N	N	13.3	N	N	10.1	N	N
Below the chassis	26.8	N	N	S	N	N	S	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	19.3	N	N	23.3	N	N	16.2	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	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	39.4	N	N	49.5	N	N	29.9	N	N

See footnotes at end of table.

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

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

Vehicle and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
TRUCK TYPE AND AXLE ARRANGEMENT—Con.									
Total liftable axles and number of braking axles:									
None	1.1	7.5	182.3	3.4	9.2	269.5	3.3	7.1	8.9
1	8.3	20.2	481.7	12.7	15.8	648.7	9.8	15.7	26.9
0 braking	26.8	N	N	29.0	N	N	21.4	N	N
1 braking	9.4	N	N	14.2	N	N	11.0	N	N
Not reported	27.7	N	N	44.6	N	N	30.8	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	39.4	N	N	49.5	N	N	29.9	N	N
CAB TYPE									
Conventional cab	1.1	4.8	62.6	3.4	6.7	133.0	3.3	5.5	9.0
With sleeper	7.5	N	N	9.8	N	N	6.6	N	N
Without sleeper	1.3	N	N	3.9	N	N	3.7	N	N
Not reported	27.1	N	N	33.0	N	N	25.1	N	N
Cab over engine	7.5	9.3	41.0	12.5	11.3	67.8	9.4	8.0	14.6
With sleeper	14.0	N	N	25.1	N	N	20.8	N	N
Without sleeper	9.1	N	N	14.6	N	N	10.6	N	N
Not reported	S	N	N	S	N	N	S	N	N
Cab forward of engine	S	24.1	S	S	29.6	S	S	15.6	S
Cab beside engine	48.4	30.3	25.5	S	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N

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

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

²Truck-tractors not in use.

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

⁴Distributed miles data are available in Table 8.

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

⁶Data were derived from administrative records.

Table 4. Trucks by Vehicle Size: 2002

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
Total	996.9	944.5	24.0	6.3	22.1	X
Coefficient of variation (percent) .....	.9	1.1	23.0	7.9	2.5	X
BUSINESS¹						
For-hire transportation or warehousing	10.1	S	1.3	.5	1.5	36.0
Vehicle leasing or rental	S	S	.3	.3	1.1	S
Agriculture, forestry, fishing, or hunting	52.7	40.6	S	1.4	6.6	17.3
Mining	S	S	S	.2	.4	S
Utilities	11.7	8.4	.8	.6	1.8	35.8
Construction	56.4	46.5	S	.5	4.3	17.6
Manufacturing	6.1	S	S	S	1.1	48.4
Wholesale trade	9.1	S	.8	S	1.4	39.7
Retail trade	22.9	19.4	1.1	.9	1.5	27.0
Information services	S	S	V	V	S	S
Waste management, landscaping, or administrative/support services	11.9	10.6	S	.2	.9	38.9
Arts, entertainment, or recreation services .....	.3	S	V	V	S	39.0
Accommodation or food services	S	S	S	S	.1	S
Other services	38.0	37.4	.3	.2	S	22.3
Personal transportation	735.0	728.3	S	S	.7	2.7
Not reported	16.6	15.1	.5	.4	.7	33.0
Not applicable ²	12.6	11.1	.5	.5	.5	36.9
BODY TYPE						
Single-unit trucks	986.2	944.5	24.0	6.2	11.6	.9
Pickup	605.4	590.7	14.8	V	V	1.1
Minivan	91.9	91.9	V	V	V	12.9
Other light vans	32.8	32.8	V	V	V	23.8
Sport utility	222.7	222.7	V	V	V	6.0
Armored	S	V	V	V	S	S
Beverage	S	V	S	V	S	S
Concrete mixer .....	.8	V	V	S	S	13.7
Concrete pumper	S	V	V	V	S	S
Crane .....	.2	V	S	S	S	46.2
Curtainside	S	V	V	V	S	S
Dump	5.6	.2	.9	.8	3.6	7.6
Flatbed, stake, or platform	9.0	1.9	3.3	1.7	2.1	6.3
Low boy .....	.2	S	V	S	S	45.2
Pole, logging, pulpwood, or pipe	S	V	V	S	S	S
Service, utility	2.8	.4	.7	.7	1.0	12.9
Service, other	1.3	.7	.4	S	S	19.3
Street sweeper	S	S	V	V	V	S
Tank, dry bulk .....	.5	V	S	S	.3	24.6
Tank, liquids or gases	1.8	V	.3	.4	1.2	15.6
Tow/Wrecker	1.5	.3	.7	.3	.2	17.4
Trash, garbage, or recycling .....	.7	V	S	S	.5	18.1
Vacuum	S	V	V	S	S	S
Van, basic enclosed	3.3	1.2	1.1	.6	.4	11.0
Van, insulated nonrefrigerated .....	.1	S	S	V	V	48.4
Van, insulated refrigerated .....	.5	S	S	S	.3	32.6
Van, open top	1.5	S	.3	.4	.6	16.8
Van, step, walk-in, or multistop	2.5	1.0	.9	.5	S	13.6
Van, other .....	.7	.5	S	V	S	25.1
Other	V	V	V	V	V	N
Truck-tractors	10.7	V	V	S	10.6	3.1
Automobile carrier	S	V	V	V	S	S
Beverage .....	.3	V	V	V	.3	38.8
Curtainside	V	V	V	V	V	N
Dump	1.4	V	V	V	1.4	11.2
Flatbed, stake, or platform	1.5	V	V	V	1.5	11.0
Livestock	S	V	V	V	S	S
Low boy	1.1	V	V	S	1.1	13.4
Mobile home toter .....	.1	V	V	V	.1	36.6
Open top	2.3	V	V	V	2.3	8.4
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Tank, dry bulk .....	.2	V	V	V	.2	26.7
Tank, liquids or gases .....	.4	V	V	V	.4	19.5
Van, basic enclosed	2.1	V	V	V	2.1	10.1
Van, drop-frame	S	V	V	V	S	S
Van, insulated nonrefrigerated .....	.2	V	V	V	.2	29.2
Van, insulated refrigerated .....	.6	V	V	V	.6	20.4
Other	V	V	V	V	V	N
Not applicable ³ .....	.4	V	V	S	.3	24.7
ANNUAL MILES						
Less than 5,000	195.6	180.9	5.0	2.6	7.0	8.9
5,000 to 9,999	171.7	164.6	S	.6	2.9	9.9
10,000 to 19,999	405.2	391.7	8.6	1.3	3.6	5.5
20,000 to 29,999	134.3	125.5	S	.7	2.6	11.4
30,000 to 49,999	59.3	56.0	.5	.4	2.3	17.5
50,000 to 74,999	14.4	12.4	.2	S	1.6	34.9
75,000 or more	S	S	S	S	1.6	S
Not applicable ²	12.6	11.1	.5	.5	.5	36.9
PRIMARY RANGE OF OPERATION						
Off-the-road	20.8	19.1	.4	.3	1.1	29.8
50 miles or less	668.1	640.3	11.4	3.7	12.6	3.3
51 to 100 miles	92.2	79.5	7.9	.8	3.9	13.8
101 to 200 miles	26.8	23.0	S	S	1.4	26.5
201 to 500 miles	15.6	14.8	.2	S	.5	35.0
501 miles or more	21.5	20.7	.2	S	.5	30.1
Not reported	139.3	136.0	1.1	.8	1.5	11.2
Not applicable ²	12.6	11.1	.5	.5	.5	36.9

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Vehicle size					Coefficient of variation of total (percent)
	Total	Light	Medium	Light-heavy	Heavy-heavy	
PRIMARY JURISDICTION						
Operated in Canada.....	V	V	V	V	V	N
Operated in Mexico.....	S	V	V	V	S	S
Operated within the home base state.....	829.4	782.9	22.1	5.3	19.0	2.2
Operated in states other than the home base state.....	35.1	33.4	.6	S	1.0	23.3
Not reported.....	119.7	117.0	.8	.5	1.5	12.2
Not applicable ²	12.6	11.1	.5	.5	.5	36.9
MONTHS OPERATED						
12.....	684.0	656.8	13.7	2.8	10.7	3.1
7 to 11.....	176.5	166.7	S	.8	3.8	9.7
2 to 6.....	92.7	82.0	S	1.5	5.4	13.6
1 or less.....	31.1	27.8	.9	.7	1.7	23.8
Vehicle not used.....	12.6	11.1	.5	.5	.5	36.9
AVERAGE WEIGHT (POUNDS)						
Less than 6,001.....	721.1	721.1	N	N	N	2.8
6,001 to 8,500.....	196.2	196.2	N	N	N	9.2
8,501 to 10,000.....	27.1	27.1	N	N	N	26.3
10,001 to 14,000.....	16.1	N	16.1	N	N	31.7
14,001 to 16,000.....	2.8	N	2.8	N	N	12.7
16,001 to 19,500.....	5.0	N	5.0	N	N	42.3
19,501 to 26,000.....	6.3	N	N	6.3	N	7.9
26,001 to 33,000.....	4.9	N	N	N	4.9	9.1
33,001 to 40,000.....	2.2	N	N	N	2.2	12.1
40,001 to 50,000.....	3.8	N	N	N	3.8	8.3
50,001 to 60,000.....	1.6	N	N	N	1.6	11.1
60,001 to 80,000.....	9.1	N	N	N	9.1	3.2
80,001 to 100,000.....	.4	N	N	N	.4	19.1
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.....	793.2	781.6	8.1	1.4	2.0	2.3
20.0 to 27.9.....	104.0	89.1	6.0	3.6	5.3	12.5
28.0 to 35.9.....	77.4	69.3	S	.8	2.4	15.2
36.0 to 40.9.....	9.5	S	S	.4	2.1	38.4
41.0 to 44.9.....	S	V	S	S	.8	S
45.0 to 49.9.....	1.8	V	V	S	1.8	12.4
50.0 to 54.9.....	2.0	V	S	V	1.9	10.4
55.0 to 59.9.....	1.9	V	S	V	1.9	9.6
60.0 to 64.9.....	2.4	V	V	V	2.4	8.9
65.0 to 69.9.....	1.0	V	V	V	1.0	12.3
70.0 to 74.9.....	.3	V	S	V	.3	25.5
75.0 to 79.9.....	.1	V	V	V	.1	36.6
80.0 or more.....	.1	V	V	V	.1	48.5
MILES PER GALLON						
Less than 5.....	4.3	S	.2	.5	3.5	7.5
5 to 6.9.....	10.5	.4	.7	1.1	8.2	4.6
7 to 8.9.....	8.0	.8	1.7	1.3	4.2	6.5
9 to 10.9.....	50.3	43.4	4.3	1.4	1.2	18.6
11 to 12.9.....	56.9	52.7	.9	.4	.4	18.1
13 to 14.9.....	94.7	87.5	.9	.4	.2	14.0
15 or more.....	619.4	614.2	S	S	.2	3.5
15 to 20.9.....	470.2	464.9	S	S	.2	4.8
21 to 24.9.....	91.1	91.1	V	V	V	14.4
25 or more.....	58.2	58.2	V	V	V	18.3
Not reported.....	140.2	134.2	1.5	.7	3.7	11.0
Not applicable ²	12.6	11.1	.5	.5	.5	36.9
MODEL YEAR						
2003.....	.1	V	S	V	.1	39.6
2002.....	49.1	45.7	.5	.2	.8	19.7
2001.....	80.4	78.8	.5	.3	.8	15.2
2000.....	89.5	87.2	.8	.5	1.0	14.2
1999.....	94.4	89.6	S	.5	1.3	13.8
1998.....	70.6	68.9	.4	S	1.3	16.3
1997.....	64.3	60.4	S	S	1.0	17.1
1996.....	55.4	53.9	.4	S	1.0	18.5
1995.....	81.4	75.2	S	.4	1.3	15.1
1994.....	53.8	52.2	.3	S	1.2	18.8
1993.....	45.4	44.0	S	.4	.9	20.5
Pre-1993.....	312.4	288.6	8.8	3.6	11.4	6.6
VEHICLE ACQUISITION						
New.....	402.9	382.1	10.2	2.7	7.8	5.5
Used.....	540.3	510.0	13.5	3.4	13.4	4.2
Not reported.....	53.7	52.4	.2	.2	.9	18.9
LEASE CHARACTERISTICS						
Leased.....	20.9	17.0	.4	.5	2.9	27.9
Lessee.....	18.7	17.0	.4	.6	1.2	31.0
Vehicle only.....	2.2	.4	.4	S	1.2	13.2
Vehicle with driver.....	V	V	V	V	V	N
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	16.5	16.5	V	V	V	35.1
Lessor.....	2.0	S	S	.3	1.6	12.3
Vehicle only.....	1.7	S	V	.3	1.4	12.8
Vehicle with driver.....	.2	V	S	S	S	42.0
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	V	V	V	V	V	N
Not reported.....	2	V	V	S	S	46.2
Not leased.....	586.1	549.1	20.1	4.1	12.8	3.8
Not reported.....	389.9	378.4	3.5	1.7	6.4	5.7

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
LEASE CHARACTERISTICS—Con.						
Length of leasing agreement:						
Leased	20.9	17.0	.4	.5	2.9	27.9
1 to 11 months	.3	V	S	S	.2	35.6
12 months or more	3.9	.5	.4	.4	2.6	9.2
Not reported	S	V	V	S	S	S
Not applicable ⁴	16.5	16.5	V	V	V	35.1
Provisions of lease ⁵ :						
Financing only	2.3	.4	.4	.2	1.3	12.6
Full maintenance	1.5	S	V	.2	1.2	14.2
Payment of taxes	1.9	S	S	.2	1.5	13.1
Obtaining licenses and permits	1.7	S	V	.2	1.4	13.7
Recordkeeping	.5	S	V	S	.4	23.9
Fuel contract	.3	S	S	V	.2	37.5
PRIMARY OPERATOR CLASSIFICATION						
Private	234.5	198.0	15.2	4.9	16.5	7.8
Motor carrier	8.3	S	1.1	.4	2.0	35.9
Owner operator	2.7	S	.4	S	2.0	9.6
Rental	S	S	.3	.3	1.1	S
Personal transportation	735.0	728.3	S	S	S	2.7
Not applicable ²	12.6	11.1	.5	.5	.5	36.9
For-hire characteristics:						
Type of carrier:						
Contract	2.6	.2	.4	.2	1.8	10.4
Common	2.8	S	.8	.3	1.6	10.6
Not reported	1.4	.4	.4	.1	.6	16.1
Not applicable ⁶	990.1	943.7	22.5	5.8	18.1	.9
Type of service:						
Truckload	3.6	S	.4	S	2.9	7.8
Less-than truckload	2.0	.4	.8	.3	.5	14.8
Not reported	1.3	.3	.4	.1	.6	17.0
Not applicable ⁶	990.1	943.7	22.5	5.8	18.1	.9
Source of hauls:						
Shippers or receivers	3.7	.4	.9	.4	2.0	9.4
Brokers	.5	V	V	V	.5	18.8
Centralized markets or exchanges	.3	V	S	V	.2	28.6
Other	V	V	V	V	V	N
Not reported	2.4	.4	.5	.1	1.3	11.6
Not applicable ⁶	990.1	943.7	22.5	5.8	18.1	.9
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	1.8	S	.2	.2	1.2	14.9
Not carrying hazardous materials	32.7	4.0	7.2	4.2	17.3	2.0
Not reported	5.1	1.2	.9	1.1	1.9	8.6
Not applicable ⁸	957.4	939.1	15.7	.9	1.7	.9
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	1.8	S	.5	.3	.9	16.5
Air bag(s) (safety device only)	543.6	528.5	12.0	.7	2.4	4.1
Air compressor (except air brakes)	2.4	S	.4	S	1.7	11.2
Air-conditioning	839.1	805.5	16.9	2.4	14.2	2.1
Air springs	4.0	S	S	S	3.7	6.7
Antilock brake system	548.3	530.2	10.7	1.6	5.8	4.1
Collision warning system	.4	V	S	S	.2	28.3
Computerized drive train control unit	83.6	82.9	S	V	.7	15.0
Crane	.7	S	.3	S	.3	24.3
Electronic vehicle identification device	.3	S	V	V	.2	27.5
Engine retarder/brake	4.7	.2	.2	S	4.2	5.9
Front-wheel drive	327.2	321.0	S	V	V	6.5
Hoist	3.6	S	.7	1.1	1.7	10.1
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	.6	S	.3	S	.2	25.5
Internet access	S	V	V	V	S	S
Lift gate	1.9	.5	.6	.3	.5	14.3
Mounting bar for snowplow	V	V	V	V	V	N
Navigational system	S	V	V	V	V	S
Power take-off	13.6	.5	2.4	2.6	8.1	4.4
Radial tires	632.8	598.6	17.6	3.2	13.4	3.5
Reflective material in addition to those required by law	4.5	S	1.0	.8	2.6	8.8
Road speed governor	9.7	.8	1.2	1.2	6.5	5.2
Toolbox	148.5	133.2	9.0	1.9	4.4	10.2
Trip recorder or on-board computer with communication capabilities	34.3	33.1	.5	.4	.2	23.6
Trip recorder or on-board computer without communication capabilities	170.7	165.6	S	V	.5	10.0
Vehicle control aids for handicapped drivers	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	S
Winch	20.6	17.2	1.1	.9	1.4	28.4
Transmission type:						
Automatic	719.0	698.8	16.9	1.1	2.1	2.7
Manual	234.2	203.7	6.4	5.1	19.0	7.4
Semiautomated manual	S	S	V	S	.2	S
Automated manual	S	V	V	V	S	S
Not reported	41.3	39.9	.6	S	.7	21.5
Braking system:						
Hydraulic (standard)	12.8	3.3	4.5	2.6	2.3	4.9
Hydraulic with power assist	9.8	2.8	3.3	2.2	1.5	6.0
Air	19.7	S	.7	1.4	17.4	2.6
Other	V	V	V	V	V	N
Not reported	1.9	.3	.6	S	.9	14.3
Not applicable ¹⁰	952.8	938.0	14.8	V	V	1.0

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Vehicle size				Coefficient of variation of total (percent)	
	Total	Light	Medium	Light-heavy		Heavy-heavy
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	912.8	893.4	14.8	2.2	2.4	1.5
Diesel	66.7	35.9	8.5	3.4	18.9	13.0
Natural gas	V	V	V	V	V	N
Propane	.8	V	.3	.3	.3	25.3
Alcohol fuels	S	S	V	V	V	S
Electricity	V	V	V	V	V	N
Combination	V	V	V	V	V	N
Other	V	V	V	V	V	N
Not reported	S	S	V	V	V	S
Not applicable ²	12.6	11.1	.5	.5	.5	36.9
Cylinders ¹¹ :						
4 cylinders	140.7	140.2	.4	S	S	11.1
6 cylinders	389.0	366.1	S	2.1	16.9	5.4
8 cylinders	446.3	422.8	17.8	3.1	2.6	5.0
Other	20.9	15.4	1.8	1.1	2.5	26.3
Cubic inch displacement ¹¹ :						
Gasoline fuel	912.8	893.4	14.8	2.2	2.4	1.5
Less than 200	211.5	211.5	V	V	V	8.8
200 to 299	277.0	276.6	.3	S	V	7.1
300 to 349	187.8	183.2	S	S	V	9.4
350 to 399	208.6	199.5	7.5	.8	.8	8.8
400 or more	11.2	9.4	1.1	S	.5	37.3
Not available	16.7	13.2	1.5	.9	1.1	30.5
Diesel fuel	66.7	35.9	8.5	3.4	18.9	13.0
Less than 400	31.7	26.6	S	.8	.8	23.3
400 to 599	20.4	9.2	4.7	2.2	4.3	23.0
600 to 799	6.5	V	V	.1	6.3	4.5
800 or more	5.1	V	S	S	5.0	4.8
Not available	2.9	S	.2	.2	2.5	8.3
Other fuel	S	S	.3	.3	.3	S
Less than 400	S	V	S	S	.6	S
400 or more	.4	V	S	S	.2	34.8
Not available	S	V	S	V	V	S
Not reported	S	S	V	V	V	S
Not applicable ²	12.6	11.1	.5	.5	.5	36.9
REFUELING LOCATION						
Gas station	876.5	846.5	18.4	3.4	8.2	1.8
Truck stop	15.8	S	S	.7	5.4	26.6
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	33.6	23.7	1.6	1.5	6.8	20.4
Other company's/contractor's facility not open to the public	S	S	S	S	.6	S
Other	S	S	V	V	V	S
Not reported	53.5	52.3	.5	.2	.5	18.9
Not applicable ²	12.6	11.1	.5	.5	.5	36.9
MAINTENANCE⁵						
General maintenance performed by:						
None performed	30.1	27.2	S	S	.4	25.5
Company-owned maintenance facility	91.1	76.1	2.5	2.7	9.7	13.2
General repair business or private mechanic	414.4	393.5	13.5	1.1	6.2	5.3
Dealership service department	179.6	176.4	1.0	.5	1.7	9.6
Leasing company	.7	S	S	S	.6	18.8
Individual not employed/paid by any maintenance type facility	375.2	363.5	4.6	1.6	5.5	5.8
Other	V	V	V	V	V	N
Not reported	53.4	52.3	.5	.2	.5	19.0
Not applicable ²	12.6	11.1	.5	.5	.5	36.9
Extensive repairs performed by:						
None performed	812.2	770.1	21.3	4.3	16.5	2.3
Company-owned maintenance facility	8.5	S	.4	.6	1.2	42.8
General repair business or private mechanic	58.9	56.4	.7	.3	1.5	17.7
Dealership service department	27.3	25.1	.5	.3	1.5	26.0
Leasing company	S	V	V	S	S	S
Component distributorship (engine, transmission, body, etc.)	2	V	S	S	.1	34.5
Individual not employed/paid by any repair type facility	28.7	27.3	.3	.3	.7	25.9
Other	V	V	V	V	V	N
Not reported	S	S	V	V	V	S
Not applicable ²	12.6	11.1	.5	.5	.5	36.9
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	958.7	925.3	17.4	5.9	10.1	1.2
2 axles	952.7	925.3	17.3	5.6	4.5	1.2
3 axles	4.1	V	.1	.2	3.7	6.6
4 axles	1.9	V	S	S	1.9	8.6
5 axles or more	S	V	V	V	.6	S
Not reported	S	V	S	V	S	S
Combinations	38.1	19.2	S	.5	12.0	18.7
Single-unit trucks with trailer	27.8	19.2	S	.4	1.7	25.6
3 axles	11.2	10.5	V	S	.5	41.6
4 axles	16.1	8.7	S	.3	.7	34.1
5 axles or more	.5	V	S	V	.5	24.8
Not reported	S	V	V	V	S	S
Truck-tractors with single trailer	10.3	V	V	S	10.2	3.2
3 axles	.7	V	V	V	.7	21.4
4 axles	1.2	V	V	V	1.2	16.7
5 axles or more	7.3	V	V	S	7.2	3.6
Not reported	1.1	V	V	V	1.1	13.5
Truck-tractors with double trailers	S	V	V	V	S	S
5 axles	V	V	V	V	V	N
6 axles	S	V	V	V	S	S
7 axles	V	V	V	V	V	N
8 axles or more	S	V	V	V	S	S
Not reported	V	V	V	V	V	N
Truck-tractors with triple trailers	V	V	V	V	V	N
7 axles	V	V	V	V	V	N
8 axles	V	V	V	V	V	N
9 axles	V	V	V	V	V	N
10 axles or more	V	V	V	V	V	N
Not reported	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
TRUCK TYPE AND AXLE ARRANGEMENT—Con.						
Driving axles:						
1	654.2	623.3	16.8	5.8	8.2	3.3
2	342.6	321.1	S	.6	13.8	6.2
3 or more	S	V	V	V	S	S
Not reported	S	V	S	V	S	S
Total liftable axles and locations ¹² :						
None	41.0	6.5	9.1	6.3	19.1	1.1
1	3.0	V	S	S	2.9	8.3
Forward of the drive axle	1.9	V	S	S	1.9	10.1
Below the chassis .....	.5	V	S	S	.4	26.8
Beyond the chassis	S	V	V	V	S	S
Not reported .....	.5	V	V	V	.5	19.3
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	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not reported .....	.1	V	S	V	.1	39.4
Not applicable ¹⁰	952.8	938.0	14.8	V	V	1.0
Total liftable axles and number of braking axles:						
None	41.0	6.5	9.1	6.3	19.1	1.1
1	3.0	V	S	S	2.9	8.3
0 braking .....	.4	V	S	S	.3	26.8
1 braking	2.3	V	S	S	2.2	9.4
Not reported .....	.4	V	V	V	.4	27.7
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	V	.1	39.4
Not applicable ¹⁰	952.8	938.0	14.8	V	V	1.0
CAB TYPE						
Conventional cab	40.3	5.6	8.2	6.0	20.4	1.1
With sleeper	2.8	V	V	V	2.8	7.5
Without sleeper	37.1	5.6	8.2	6.0	17.2	1.3
Not reported .....	.4	V	V	V	.4	27.1
Cab over engine	3.7	.9	.9	.3	1.6	7.5
With sleeper .....	.8	V	V	V	.8	14.0
Without sleeper	2.9	.9	.9	.3	.8	9.1
Not reported	S	V	V	V	S	S
Cab forward of engine	S	V	V	V	S	S
Cab beside engine .....	.1	V	V	V	.1	48.4
Not reported	S	V	S	V	S	S
Not applicable ¹⁰	952.8	938.0	14.8	V	V	1.0

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

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

²Vehicles not in use.

³Truck-tractors not in use.

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

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

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

⁷Distributed miles data are available in Table 8.

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

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

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

¹¹Data were derived from administrative records.

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

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

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

Table 5. Trucks by Truck Type: 2002

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
Total	996.9	958.7	38.1	27.8	10.3	S	V	X
Coefficient of variation (percent) .....	.9	1.2	18.7	25.6	3.2	S	N	X
BUSINESS¹								
For-hire transportation or warehousing	10.1	8.8	1.2	S	1.2	V	V	36.0
Vehicle leasing or rental	S	S	.8	V	.8	V	V	S
Agriculture, forestry, fishing, or hunting	52.7	47.6	5.1	1.1	4.0	S	V	17.3
Mining	S	S	.2	S	.1	V	V	S
Utilities	11.7	10.9	.8	.5	.3	V	V	35.8
Construction	56.4	50.5	S	S	1.1	V	V	17.6
Manufacturing	6.1	S	S	S	.7	V	V	49.4
Wholesale trade	9.1	8.3	S	V	.9	S	V	39.7
Retail trade	22.9	22.5	S	S	.5	V	V	27.0
Information services	S	S	S	S	V	V	V	S
Waste management, landscaping, or administrative/support services	11.9	9.6	S	S	.2	V	V	38.9
Arts, entertainment, or recreation services .....	.3	S	S	S	S	V	V	39.0
Accommodation or food services	S	S	.1	V	.1	V	V	S
Other services	38.0	38.0	S	V	S	V	V	22.3
Personal transportation	735.0	720.4	14.7	14.7	V	V	V	2.7
Not reported	16.6	14.2	S	S	.2	V	V	33.0
Not applicable ²	12.6	12.6	V	V	V	V	V	36.9
BODY TYPE								
Single-unit trucks	986.2	958.4	27.8	27.8	N	N	N	.9
Pickup	605.4	582.4	23.1	23.1	N	N	N	1.1
Minivan	91.9	89.8	S	S	N	N	N	12.9
Other light vans	32.8	32.8	V	V	N	N	N	23.8
Sport utility	222.7	222.7	V	V	N	N	N	6.0
Armored	S	S	V	V	N	N	N	S
Beverage	S	S	V	V	N	N	N	S
Concrete mixer .....	.8	.8	V	V	N	N	N	13.7
Concrete pumper	S	S	V	V	N	N	N	S
Crane .....	.2	.2	V	V	N	N	N	46.2
Curtainside	S	S	V	V	N	N	N	S
Dump	5.6	5.1	.5	.5	N	N	N	7.6
Flatbed, stake, or platform	9.0	7.6	1.4	1.4	N	N	N	6.3
Low boy .....	.2	S	S	S	N	N	N	45.2
Pole, logging, pulpwood, or pipe	S	S	S	S	N	N	N	S
Service, utility	2.8	2.4	.4	.4	N	N	N	12.9
Service, other	1.3	1.3	V	V	N	N	N	19.3
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk .....	.5	.5	V	V	N	N	N	24.6
Tank, liquids or gases	1.8	1.8	S	S	N	N	N	15.6
Tow/Wrecker	1.5	1.4	S	S	N	N	N	17.4
Trash, garbage, or recycling .....	.7	.7	V	V	N	N	N	18.1
Vacuum	S	S	V	V	N	N	N	S
Van, basic enclosed	3.3	3.3	S	S	N	N	N	11.0
Van, insulated nonrefrigerated .....	.1	.1	V	V	N	N	N	49.4
Van, insulated refrigerated .....	.5	.5	V	V	N	N	N	32.6
Van, open top	1.5	1.4	S	S	N	N	N	16.8
Van, step, walk-in, or multistop	2.5	2.4	S	S	N	N	N	13.6
Van, other .....	.7	.7	V	V	N	N	N	25.1
Other	V	V	V	V	N	N	N	N
Truck-tractors	10.7	.4	10.3	N	10.3	S	V	3.1
Automobile carrier	S	N	S	N	S	V	V	S
Beverage .....	.3	N	.3	N	.3	V	V	38.8
Curtainside	N	N	V	N	V	V	V	N
Dump	1.4	N	1.4	N	1.4	S	V	11.2
Flatbed, stake, or platform	1.5	N	1.5	N	1.5	V	V	11.0
Livestock	S	N	S	N	S	V	V	S
Low boy	1.1	N	1.1	N	1.1	V	V	13.4
Mobile home toter .....	.1	N	.1	N	.1	V	V	36.6
Open top	2.3	N	2.3	N	2.3	V	V	8.4
Pole, logging, pulpwood, or pipe	S	N	S	N	S	V	V	S
Tank, dry bulk .....	.2	N	.2	N	.2	V	V	26.7
Tank, liquids or gases .....	.4	N	.4	N	.4	V	V	19.5
Van, basic enclosed	2.1	N	2.1	N	2.1	V	V	10.1
Van, drop-frame	S	N	S	N	S	V	V	S
Van, insulated nonrefrigerated .....	.2	N	.2	N	.2	V	V	29.2
Van, insulated refrigerated .....	.6	N	.6	N	.5	S	V	20.4
Other	V	N	V	N	V	V	V	N
Not applicable ³ .....	.4	.4	V	N	V	V	V	24.7
ANNUAL MILES								
Less than 5,000	195.6	189.5	6.0	S	3.1	V	V	8.9
5,000 to 9,999	171.7	170.2	1.5	.4	1.1	V	V	9.9
10,000 to 19,999	405.2	388.6	16.7	15.3	1.3	S	V	5.5
20,000 to 29,999	134.3	128.7	S	S	1.0	V	V	11.4
30,000 to 49,999	59.3	53.6	S	S	1.2	V	V	17.5
50,000 to 74,999	14.4	13.2	1.2	S	1.1	S	V	34.9
75,000 or more	S	S	1.5	V	1.5	V	V	S
Not applicable ²	12.6	12.6	V	V	V	V	V	36.9

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination			Truck-tractor with triple trailers		
			Total	Single-unit truck with trailer	Truck-tractor with single trailer			Truck-tractor with double trailers
PRIMARY RANGE OF OPERATION								
Off-the-road	20.8	18.3	S	S	.4	V	V	29.8
50 miles or less	668.1	653.1	15.0	9.8	5.2	S	V	3.3
51 to 100 miles	92.2	81.0	11.2	9.1	2.0	S	V	13.8
101 to 200 miles	26.8	25.6	1.1	S	1.0	V	V	26.5
201 to 500 miles	15.6	15.1	.5	S	.5	V	V	35.0
501 miles or more	21.5	16.9	S	S	.4	V	V	30.1
Not reported	139.3	136.2	S	S	.8	V	V	11.2
Not applicable ²	12.6	12.6	V	V	V	V	V	36.9
PRIMARY JURISDICTION								
Operated in Canada	V	V	V	V	V	V	V	N
Operated in Mexico	S	V	S	S	V	V	V	S
Operated within the home base state	829.4	799.6	29.8	21.3	8.5	S	V	2.2
Operated in states other than the home base state	35.1	32.1	S	S	.9	V	V	23.3
Not reported	119.7	114.4	S	S	.9	V	V	12.2
Not applicable ²	12.6	12.6	V	V	V	V	V	36.9
MONTHS OPERATED								
12	684.0	665.0	19.0	13.8	5.1	S	V	3.1
7 to 11	176.5	165.8	10.7	9.2	1.5	V	V	9.7
2 to 6	92.7	85.2	7.5	S	2.9	V	V	13.6
1 or less	31.1	30.2	1.0	.2	.7	S	V	23.8
Vehicle not used	12.6	12.6	V	V	V	V	V	36.9
VEHICLE SIZE								
Light	944.5	925.3	19.2	19.2	V	V	V	1.1
Medium	24.0	17.4	S	S	V	V	V	23.0
Light-heavy	6.3	5.9	.5	.4	S	V	V	7.9
Heavy-heavy	22.1	10.1	12.0	1.7	10.2	S	V	2.5
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	721.1	712.7	8.5	8.5	V	V	V	2.8
6,001 to 8,500	196.2	185.7	10.5	10.5	V	V	V	9.2
8,501 to 10,000	27.1	26.9	S	S	V	V	V	26.3
10,001 to 14,000	16.1	11.8	S	S	V	V	V	31.7
14,001 to 16,000	2.8	2.8	V	V	V	V	V	12.7
16,001 to 19,500	5.0	2.8	S	S	V	V	V	42.3
19,501 to 26,000	6.3	5.9	.5	.4	S	V	V	7.9
26,001 to 33,000	4.9	3.6	1.3	.9	.4	V	V	9.1
33,001 to 40,000	2.2	1.3	.9	.4	.6	V	V	12.1
40,001 to 50,000	3.8	2.2	1.5	.3	1.2	V	V	8.3
50,001 to 60,000	1.6	1.0	.6	S	.6	V	V	11.1
60,001 to 80,000	9.1	1.9	7.3	.1	7.1	S	V	3.2
80,001 to 100,000 .....	.4	.1	.4	V	.4	S	V	19.1
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	793.2	793.2	V	V	V	V	V	2.3
20.0 to 27.9	104.0	95.6	8.4	8.4	V	V	V	12.5
28.0 to 35.9	77.4	68.0	9.4	8.8	.6	V	V	15.2
36.0 to 40.9	9.5	1.4	8.1	S	.9	V	V	38.4
41.0 to 44.9	S	.2	S	S	.4	V	V	S
45.0 to 49.9	1.8	.2	1.6	.5	1.1	V	V	12.4
50.0 to 54.9	2.0	S	1.9	.2	1.7	V	V	10.4
55.0 to 59.9	1.9	V	1.9	.2	1.7	V	V	9.6
60.0 to 64.9	2.4	V	2.4	V	2.4	V	V	8.9
65.0 to 69.9	1.0	V	1.0	V	1.0	V	V	12.3
70.0 to 74.9 .....	.3	V	.3	S	.3	S	V	25.5
75.0 to 79.9 .....	.1	V	.1	V	.1	S	V	36.6
80.0 or more .....	.1	V	.1	V	.1	V	V	48.5
MILES PER GALLON								
Less than 5	4.3	2.3	2.0	.2	1.8	V	V	7.5
5 to 6.9	10.5	5.5	4.9	.5	4.4	S	V	4.6
7 to 8.9	8.0	6.0	2.1	.5	1.5	V	V	6.5
9 to 10.9	50.3	49.5	.8	.4	.4	V	V	18.6
11 to 12.9	56.9	54.4	S	S	.2	V	V	18.1
13 to 14.9	94.7	88.1	S	S	S	V	V	14.0
15 or more	619.4	608.9	10.5	10.5	S	V	V	3.5
15 to 20.9	470.2	461.8	8.4	8.4	S	V	V	4.8
21 to 24.9	91.1	89.0	S	S	S	V	V	14.4
25 or more	58.2	58.2	V	V	V	V	V	18.3
Not reported	140.2	131.4	8.8	S	1.9	S	V	11.0
Not applicable ²	12.6	12.6	V	V	V	V	V	36.9

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
MODEL YEAR								
2003	.1	.1	S	V	S	V	V	39.6
2002	49.1	48.8	.3	S	.3	V	V	19.7
2001	80.4	77.8	S	S	.2	V	V	15.2
2000	89.5	88.9	.6	.2	.4	S	V	14.2
1999	94.4	87.3	S	S	.6	V	V	13.8
1998	70.6	67.6	S	S	.7	V	V	16.3
1997	64.3	59.6	S	S	.5	S	V	17.1
1996	55.4	54.8	.6	S	.4	V	V	18.5
1995	81.4	78.3	S	S	.9	V	V	15.1
1994	53.8	53.0	.8	S	.7	V	V	18.8
1993	45.4	44.7	.7	S	.6	V	V	20.5
Pre-1993	312.4	297.9	14.6	9.5	5.1	V	V	6.6
VEHICLE ACQUISITION								
New	402.9	392.2	10.7	7.5	3.1	S	V	5.5
Used	540.3	513.4	26.9	20.3	6.6	S	V	4.2
Not reported	53.7	53.1	.6	S	.5	V	V	18.9
LEASE CHARACTERISTICS								
Leased	20.9	19.0	1.8	S	1.7	V	V	27.9
Lessee	18.7	18.3	.5	S	.4	V	V	31.0
Vehicle only	2.2	1.7	.5	S	.4	V	V	13.2
Vehicle with driver	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	16.5	16.5	V	V	V	V	V	35.1
Lessor	2.0	.7	1.3	S	1.2	V	V	12.3
Vehicle only	1.7	.6	1.1	S	1.1	V	V	12.8
Vehicle with driver	.2	S	S	V	S	V	V	42.0
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	V	V	V	V	V	V	V	N
Not reported	.2	S	S	S	S	V	V	46.2
Not leased	586.1	557.8	28.3	22.5	5.8	S	V	3.8
Not reported	389.9	381.9	8.0	S	2.8	S	V	5.7
Length of leasing agreement:								
Leased	20.9	19.0	1.8	S	1.7	V	V	27.9
1 to 11 months	.3	S	.2	V	.2	V	V	35.6
12 months or more	3.9	2.3	1.6	S	1.5	V	V	9.2
Not reported	S	S	S	S	S	V	V	S
Not applicable ⁴	16.5	16.5	V	V	V	V	V	35.1
Provisions of lease ⁵ :								
Financing only	2.3	1.7	.6	S	.6	V	V	12.6
Full maintenance	1.5	.5	1.0	S	1.0	V	V	14.2
Payment of taxes	1.9	.8	1.1	S	1.0	V	V	13.1
Obtaining licenses and permits	1.7	.6	1.1	S	1.0	V	V	13.7
Recordkeeping	.5	S	.4	S	.3	V	V	23.9
Fuel contract	.3	S	.1	V	.1	V	V	37.5
PRIMARY OPERATOR CLASSIFICATION								
Private	234.5	216.5	18.0	10.9	7.1	S	V	7.8
Motor carrier	8.3	4.8	S	S	1.3	V	V	35.9
Owner operator	2.7	1.6	1.1	S	1.0	V	V	9.6
Rental	S	S	.8	V	.8	V	V	S
Personal transportation	735.0	720.4	14.7	14.7	V	V	V	2.7
Not applicable ²	12.6	12.6	V	V	V	V	V	36.9
For-hire characteristics:								
Type of carrier:								
Contract	2.6	1.4	1.2	S	1.1	V	V	10.4
Common	2.8	1.9	.9	S	.9	V	V	10.6
Not reported	1.4	.9	.5	S	.3	V	V	16.1
Not applicable ⁶	990.1	954.5	35.6	27.6	7.9	S	V	.9
Type of service:								
Truckload	3.6	1.7	1.9	S	1.8	V	V	7.8
Less-than truckload	2.0	1.7	.3	V	.3	V	V	14.8
Not reported	1.3	.9	.4	S	.2	V	V	17.0
Not applicable ⁶	990.1	954.5	35.6	27.6	7.9	S	V	.9
Source of hauls:								
Shippers or receivers	3.7	2.4	1.3	S	1.2	V	V	9.4
Brokers	.5	.1	.4	V	.4	V	V	18.8
Centralized markets or exchanges	.3	.2	.1	V	.1	V	V	28.6
Other	V	V	V	V	V	V	V	N
Not reported	2.4	1.6	.8	.2	.6	V	V	11.6
Not applicable ⁶	990.1	954.5	35.6	27.6	7.9	S	V	.9
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	1.8	1.3	.5	V	.5	V	V	14.9
Not carrying hazardous materials	32.7	21.9	10.7	2.5	8.2	S	V	2.0
Not reported	5.1	4.1	1.0	.2	.8	V	V	8.6
Not applicable ⁸	957.4	931.4	26.0	25.1	.8	V	V	.9
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	1.8	1.5	.3	.3	V	V	V	16.5
Air bag(s) (safety device only)	543.6	524.9	18.7	17.3	1.3	V	V	4.1
Air compressor (except air brakes)	2.4	1.3	1.1	.3	.8	V	V	11.2
Air-conditioning	839.1	804.7	34.3	26.6	7.7	S	V	2.1
Air springs	4.0	1.2	2.8	S	2.7	V	V	6.7

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			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	548.3	529.6	18.7	15.5	3.1	S	V	4.1
Collision warning system	.4	.3	.1	S	.1	V	V	28.3
Computerized drive train control unit	83.6	81.1	S	S	.4	V	V	15.0
Crane	.7	.7	S	S	.7	V	V	24.3
Electronic vehicle identification device	.3	.2	.1	V	.1	V	V	27.5
Engine retarder/brake	4.7	1.7	3.0	.1	2.9	V	V	5.9
Front-wheel drive	327.2	316.8	10.5	10.5	V	V	V	6.5
Hoist	3.6	3.4	.2	.2	V	V	V	10.1
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	.6	.4	.2	S	.2	V	V	25.5
Internet access	S	S	V	V	V	V	V	S
Lift gate	1.9	1.9	S	S	V	V	V	14.3
Mounting bar for snowplow	V	V	V	V	V	V	V	N
Navigational system	S	S	V	V	V	V	V	S
Power take-off	13.6	10.5	3.1	.8	2.3	V	V	4.4
Radial tires	632.8	607.9	24.9	18.4	6.5	S	V	3.5
Reflective material in addition to those required by law	4.5	3.3	1.2	.3	.9	V	V	8.8
Road speed governor	9.7	5.3	4.3	.7	3.6	S	V	5.2
Toolbox	148.5	139.5	9.0	7.3	1.7	V	V	10.2
Trip recorder or on-board computer with communication capabilities	34.3	34.1	.2	S	.1	V	V	23.6
Trip recorder or on-board computer without communication capabilities	170.7	166.1	S	S	.4	V	V	10.0
Vehicle control aids for handicapped drivers	V	V	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	V	V	S
Winch	20.6	18.1	S	S	.2	V	V	28.4
Transmission type:								
Automatic	719.0	699.2	19.8	19.2	.6	V	V	2.7
Manual	234.2	216.4	17.8	8.6	9.2	S	V	7.4
Semiautomated manual	S	S	S	V	S	V	V	S
Automated manual	S	S	S	V	S	V	V	S
Not reported	41.3	40.9	.4	S	.4	V	V	21.5
Braking system:								
Hydraulic (standard)	12.8	11.6	1.1	1.0	.2	V	V	4.9
Hydraulic with power assist	9.8	8.8	1.0	1.0	S	V	V	6.0
Air	19.7	9.4	10.3	.7	9.6	S	V	2.6
Other	V	V	V	V	V	V	V	N
Not reported	1.9	1.4	.6	S	.5	V	V	14.3
Not applicable ¹⁰	952.8	927.6	25.1	25.1	V	V	V	1.0
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	912.8	888.8	24.0	23.8	.2	V	V	1.5
Diesel	66.7	52.5	14.1	S	10.1	S	V	13.0
Natural gas	V	V	V	V	V	V	V	N
Propane	.8	.8	V	V	V	V	V	25.3
Alcohol fuels	S	S	V	V	V	V	V	S
Electricity	V	V	V	V	V	V	V	N
Combination	V	V	V	V	V	V	V	N
Other	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	12.6	12.6	V	V	V	V	V	36.9
Cylinders¹¹:								
4 cylinders	140.7	136.4	S	S	S	V	V	11.1
6 cylinders	389.0	374.5	14.5	S	9.1	S	V	5.4
8 cylinders	446.3	428.0	18.3	18.0	.3	V	V	5.0
Other	20.9	19.8	1.1	.2	.9	V	V	26.3
Cubic inch displacement¹¹:								
Gasoline fuel								
Less than 200	912.8	888.8	24.0	23.8	.2	V	V	1.5
200 to 299	211.5	207.3	S	S	V	V	V	8.8
300 to 349	277.0	275.0	S	S	V	V	V	7.1
350 to 399	187.8	179.4	8.4	8.4	V	V	V	9.4
400 or more	208.6	199.9	8.7	8.7	S	V	V	8.8
Not available	11.2	10.9	.4	.3	S	V	V	37.3
Diesel fuel								
Less than 400	16.7	16.4	.4	.3	S	V	V	30.5
400 to 599	66.7	52.5	14.1	S	10.1	S	V	13.0
600 to 799	31.7	28.8	S	S	S	V	V	23.3
800 or more	20.4	18.5	1.9	.9	1.0	V	V	23.0
Not available	6.5	2.5	4.0	.1	3.8	S	V	4.5
Other fuel	5.1	1.3	3.9	.1	3.8	S	V	4.8
Not reported	2.9	1.4	1.5	.1	1.4	V	V	8.3
Not applicable ²	S	S	V	V	V	V	V	S
Other fuel								
Less than 400	S	S	V	V	V	V	V	S
400 or more	.4	.4	V	V	V	V	V	34.8
Not available	S	S	V	V	V	V	V	S
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	12.6	12.6	V	V	V	V	V	36.9
REFUELING LOCATION								
Gas station	876.5	848.7	27.8	24.9	2.9	V	V	1.8
Truck stop	15.8	11.8	3.9	.4	3.5	S	V	26.6
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	33.6	30.0	3.6	.4	3.3	V	V	20.4
Other company's/contractor's facility not open to the public	S	S	.4	S	.4	V	V	S
Other	S	S	V	V	V	V	V	S
Not reported	53.5	51.2	S	S	.2	V	V	18.9
Not applicable ²	12.6	12.6	V	V	V	V	V	36.9

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination			Truck-tractor with triple trailers		
			Total	Single-unit truck with trailer	Truck-tractor with single trailer			Truck-tractor with double trailers
MAINTENANCE⁵								
General maintenance performed by:								
None performed	30.1	29.9	.2	S	.1	V	V	25.5
Company-owned maintenance facility	91.1	83.8	7.3	S	4.3	S	V	13.2
General repair business or private mechanic	414.4	398.3	16.1	S	13.4	S	V	5.3
Dealership service department	179.6	176.1	.5	S	.9	V	V	9.6
Leasing company	.7	.2	.5	V	.5	V	V	18.8
Individual not employed/paid by any maintenance type facility	375.2	363.2	12.0	9.2	2.8	V	V	5.8
Other	V	V	V	V	V	V	V	N
Not reported	53.4	51.1	S	S	.2	V	V	19.0
Not applicable ²	12.6	12.6	V	V	V	V	V	36.9
Extensive repairs performed by:								
None performed	812.2	781.1	31.1	22.9	8.2	S	V	2.3
Company-owned maintenance facility	8.5	7.9	.6	S	.5	S	V	42.8
General repair business or private mechanic	58.9	58.1	.8	.3	.6	V	V	17.7
Dealership service department	27.3	26.4	.9	.3	.6	V	V	26.0
Leasing company	S	S	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)	.2	.1	.1	V	S	S	V	34.5
Individual not employed/paid by any repair type facility	28.7	26.2	S	S	.3	V	V	25.9
Other	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	12.6	12.6	V	V	V	V	V	36.9
AXLE ARRANGEMENT								
Driving axles:								
1	654.2	635.3	18.9	16.6	2.2	V	V	3.3
2	342.6	323.3	19.3	11.2	8.0	S	V	6.2
3 or more	S	S	V	V	V	V	V	S
Not reported	S	S	S	V	S	V	V	S
Total liftable axles and locations ¹² :								
None	41.0	28.2	12.8	2.7	10.1	S	V	1.1
1	3.0	2.8	.2	S	.2	V	V	8.3
Forward of the drive axle	1.9	1.8	.1	S	1.8	V	V	10.1
Below the chassis	.5	.4	S	V	S	V	V	26.8
Beyond the chassis	S	S	V	V	V	V	V	S
Not reported	.5	.5	S	V	S	V	V	19.3
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	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not reported	.1	.1	V	V	V	V	V	39.4
Not applicable ¹⁰	952.8	927.6	25.1	25.1	V	V	V	1.0
Total liftable axles and number of braking axles:								
None	41.0	28.2	12.8	2.7	10.1	S	V	1.1
1	3.0	2.8	.2	S	.2	V	V	8.3
0 braking	.4	.3	S	V	S	V	V	26.8
1 braking	2.3	2.1	.2	S	.1	V	V	9.4
Not reported	.4	.3	S	V	S	V	V	27.7
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	39.4
Not applicable ¹⁰	952.8	927.6	25.1	25.1	V	V	V	1.0
CAB TYPE								
Conventional cab	40.3	28.3	12.0	2.6	9.3	S	V	1.1
With sleeper	2.8	S	2.7	V	2.7	V	V	7.5
Without sleeper	37.1	28.3	8.9	2.6	6.2	S	V	1.3
Not reported	.4	S	.4	V	.4	V	V	27.1
Cab over engine	3.7	2.6	1.0	.1	.9	V	V	7.5
With sleeper	.8	.1	.7	V	.7	V	V	14.0
Without sleeper	2.9	2.6	.3	.1	.2	V	V	9.1
Not reported	S	V	S	V	S	V	V	S
Cab forward of engine	S	S	V	V	V	V	V	S
Cab beside engine	.1	S	S	V	S	V	V	48.4
Not reported	S	S	V	V	V	V	V	S
Not applicable ¹⁰	952.8	927.6	25.1	25.1	V	V	V	1.0

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

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

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

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

Table 6. Truck Miles by Vehicle Size: 2002

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
Total	13 176.5	12 291.9	336.6	65.9	482.1	X
Coefficient of variation (percent)	3.7	3.9	28.2	14.0	4.2	X
BUSINESS¹						
For-hire transportation or warehousing	215.5	S	33.6	11.2	67.3	30.3
Vehicle leasing or rental	139.0	S	4.5	8.9	69.8	40.4
Agriculture, forestry, fishing, or hunting	538.6	441.1	17.8	4.7	74.9	24.8
Mining	S	S	S	S	9.6	S
Utilities	153.4	S	9.6	8.5	29.9	37.2
Construction	1 096.3	892.3	S	5.7	71.4	21.8
Manufacturing	69.2	S	S	S	34.2	39.3
Wholesale trade	151.2	S	13.7	S	44.7	32.9
Retail trade	405.4	341.8	16.4	15.9	31.3	32.8
Information services	S	S	V	V	S	S
Waste management, landscaping, or administrative/support services	182.0	155.9	S	S	22.9	41.5
Arts, entertainment, or recreation services	S	S	S	V	S	S
Accommodation or food services	S	S	V	S	5.2	S
Other services	529.4	522.4	S	S	S	26.4
Personal transportation	9 206.8	9 129.9	S	S	S	5.0
Not reported	276.5	S	3.3	S	16.3	46.9
Not applicable ²	S	S	S	V	V	S
BODY TYPE						
Single-unit trucks	12 858.3	12 291.9	336.6	65.8	164.0	3.8
Pickup	7 263.4	7 041.3	222.2	V	V	5.2
Minivan	1 536.5	1 536.5	V	V	V	16.4
Other light vans	335.7	335.7	V	V	V	36.5
Sport utility	3 301.1	3 301.1	V	V	V	9.1
Armored	S	V	V	V	S	S
Beverage	S	V	S	V	S	S
Concrete mixer	9.5	V	V	S	9.5	17.4
Concrete pumper	S	V	V	V	S	S
Crane	S	V	S	S	S	S
Curtainside	S	V	V	V	S	S
Dump	62.2	S	8.0	S	50.8	12.2
Flatbed, stake, or platform	81.0	14.4	26.6	15.6	24.4	10.5
Low boy	S	S	V	S	V	S
Pole, logging, pulpwood, or pipe	S	V	V	S	S	S
Service, utility	34.7	5.9	7.3	9.0	12.5	15.9
Service, other	23.0	10.1	10.4	S	S	24.5
Street sweeper	S	S	V	V	V	S
Tank, dry bulk	3.3	V	S	S	2.8	34.9
Tank, liquids or gases	23.7	V	S	S	15.9	26.6
Tow/Wrecker	15.5	2.8	8.2	S	S	25.0
Trash, garbage, or recycling	19.0	V	S	S	16.4	20.1
Vacuum	S	V	V	S	S	S
Van, basic enclosed	55.6	15.9	18.4	10.8	10.5	15.7
Van, insulated nonrefrigerated	S	S	S	V	V	S
Van, insulated refrigerated	9.2	S	S	S	6.6	39.5
Van, open top	3.3	S	S	1.0	2.0	25.5
Van, step, walk-in, or multistop	62.1	19.9	26.1	12.3	S	18.1
Van, other	7.5	5.5	S	V	S	28.4
Other	V	V	V	V	V	N
Truck-tractors	318.2	V	V	S	318.1	5.3
Automobile carrier	S	V	V	V	S	S
Beverage	3.9	V	V	V	3.9	47.2
Curtainside	V	V	V	V	V	N
Dump	38.0	V	V	V	38.0	16.8
Flatbed, stake, or platform	48.2	V	V	V	48.2	15.1
Livestock	S	V	V	V	S	S
Low boy	13.9	V	V	S	13.8	22.7
Mobile home toter	S	V	V	V	S	S
Open top	32.3	V	V	V	32.3	15.5
Pole, logging, pulpwood, or pipe	S	V	V	V	S	S
Tank, dry bulk	7.7	V	V	V	7.7	36.3
Tank, liquids or gases	25.0	V	V	V	25.0	22.9
Van, basic enclosed	109.0	V	V	V	109.0	11.8
Van, drop-frame	S	V	V	V	S	S
Van, insulated nonrefrigerated	3.6	V	V	V	3.6	48.2
Van, insulated refrigerated	23.9	V	V	V	23.9	21.8
Other	V	V	V	V	V	N
Not applicable ³	V	V	V	V	V	N
ANNUAL MILES						
Less than 5,000	426.7	398.6	S	3.7	12.2	11.2
5,000 to 9,999	1 222.9	1 169.6	S	4.1	20.4	10.2
10,000 to 19,999	5 250.8	5 073.2	110.5	17.9	49.1	5.7
20,000 to 29,999	3 108.1	2 885.4	S	15.3	60.4	11.5
30,000 to 49,999	1 981.9	1 859.6	19.6	14.8	87.8	17.5
50,000 to 74,999	810.7	694.8	14.2	S	95.9	34.7
75,000 or more	S	S	S	S	156.2	S
Not applicable ²	S	S	S	V	V	S
PRIMARY RANGE OF OPERATION						
Off-the-road	S	S	.4	.5	5.6	S
50 miles or less	8 544.4	8 201.2	107.7	38.3	197.2	5.1
51 to 100 miles	1 554.4	1 246.1	178.3	17.5	112.5	16.1
101 to 200 miles	418.0	324.1	S	S	65.2	32.7
201 to 500 miles	237.5	199.1	4.7	S	31.5	32.6
501 miles or more	408.7	372.5	S	S	31.5	33.8
Not reported	1 828.1	1 770.2	15.8	3.5	38.6	17.2
Not applicable ²	S	S	S	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Vehicle size				Coefficient of variation of total (percent)	
	Total	Light	Medium	Light-heavy		Heavy-heavy
PRIMARY JURISDICTION						
Operated in Canada	V	V	V	V	N	
Operated in Mexico	S	V	V	V	S	
Operated within the home base state	10 973.4	10 206.8	317.0	63.3	386.4	4.2
Operated in states other than the home base state	503.5	437.0	8.0	S	58.2	24.6
Not reported	1 694.1	1 642.7	11.6	S	37.6	18.7
Not applicable ²	S	S	S	V	V	S
MONTHS OPERATED						
12	9 572.9	8 977.2	207.7	50.1	338.0	5.1
7 to 11	2 636.7	2 471.7	S	5.8	101.5	11.8
2 to 6	915.9	799.9	S	9.5	38.0	21.9
1 or less	45.5	37.8	2.6	.5	4.6	35.7
Vehicle not used	S	S	S	V	V	S
AVERAGE WEIGHT (POUNDS)						
Less than 6,001	8 811.0	8 811.0	N	N	N	5.3
6,001 to 8,500	3 056.0	3 056.0	N	N	N	11.4
8,501 to 10,000	424.9	424.9	N	N	N	37.8
10,001 to 14,000	218.8	N	218.8	N	N	35.9
14,001 to 16,000	35.3	N	35.3	N	N	22.1
16,001 to 19,500	S	N	S	N	N	S
19,501 to 26,000	65.9	N	N	65.9	N	14.0
26,001 to 33,000	70.3	N	N	N	70.3	14.0
33,001 to 40,000	28.6	N	N	N	28.6	18.0
40,001 to 50,000	65.3	N	N	N	65.3	13.6
50,001 to 60,000	26.3	N	N	N	26.3	19.5
60,001 to 80,000	283.5	N	N	N	283.5	5.5
80,001 to 100,000	7.5	N	N	N	7.5	30.9
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	10 176.6	10 050.4	93.1	8.1	25.0	4.8
20.0 to 27.9	1 309.8	1 143.5	55.7	42.3	68.3	16.8
28.0 to 35.9	1 193.4	1 044.3	S	8.7	43.6	18.2
36.0 to 40.9	146.1	S	S	4.6	55.0	31.4
41.0 to 44.9	S	V	S	S	15.9	S
45.0 to 49.9	62.2	V	V	S	61.1	16.0
50.0 to 54.9	35.6	V	S	V	33.4	18.1
55.0 to 59.9	42.2	V	S	V	42.1	14.3
60.0 to 64.9	89.7	V	V	V	89.7	11.4
65.0 to 69.9	30.9	V	V	V	30.9	18.4
70.0 to 74.9	11.8	V	S	V	11.3	27.4
75.0 to 79.9	4.8	V	V	V	4.8	46.9
80.0 or more	S	V	V	V	S	S
MILES PER GALLON						
Less than 5	77.8	S	S	3.6	70.1	10.6
5 to 6.9	209.7	2.5	5.3	10.2	191.7	6.5
7 to 8.9	111.0	8.3	15.1	13.1	74.4	9.8
9 to 10.9	465.0	388.0	42.3	17.9	16.9	25.7
11 to 12.9	622.5	567.5	41.8	6.2	6.9	21.2
13 to 14.9	1 182.7	1 050.7	S	6.1	S	17.1
15 or more	8 648.3	8 559.2	S	S	S	5.4
15 to 20.9	6 669.8	6 580.7	S	S	S	6.8
21 to 24.9	1 285.9	1 285.9	V	V	V	17.9
25 or more	692.6	692.6	V	V	V	21.8
Not reported	1 854.0	1 709.5	19.4	8.2	116.8	16.9
Not applicable ²	S	S	S	V	V	S
MODEL YEAR						
2003	S	V	S	V	S	S
2002	835.8	771.5	S	S	38.4	21.4
2001	1 353.4	1 305.8	7.6	7.4	32.6	16.4
2000	1 458.0	1 388.1	13.3	11.6	45.1	16.9
1999	1 635.3	1 536.3	S	9.2	48.6	15.7
1998	1 108.2	1 051.1	6.4	S	50.1	19.3
1997	914.4	813.8	S	S	28.3	18.5
1996	655.8	624.9	9.7	S	20.3	20.9
1995	1 335.9	1 186.1	S	S	42.9	18.7
1994	756.5	722.2	1.2	S	32.2	25.6
1993	484.9	460.9	S	S	19.9	24.8
Pre-1993	2 636.5	2 431.1	66.1	17.1	122.3	12.4
VEHICLE ACQUISITION						
New	5 887.5	5 434.9	164.4	48.9	239.2	7.1
Used	6 669.8	6 273.0	168.8	13.8	214.2	7.0
Not reported	619.1	583.9	S	S	28.7	22.2
LEASE CHARACTERISTICS						
Leased	529.4	377.0	6.1	10.1	136.2	30.6
Lessee	419.6	376.8	5.5	S	34.2	38.4
Vehicle only	51.0	8.2	5.5	S	34.2	14.7
Vehicle with driver	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not applicable ⁴	V	V	V	V	V	N
Lessor	368.6	368.6	V	V	V	43.7
Vehicle only	106.2	S	S	S	98.4	12.9
Vehicle with driver	98.7	S	V	S	91.7	13.2
Not reported	S	V	S	S	S	S
Not applicable ⁴	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not leased	7 506.3	6 942.2	289.4	43.4	231.2	6.2
Not reported	5 140.8	4 972.7	41.1	12.4	114.7	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	529.4	377.0	6.1	10.1	136.2	30.6
1 to 11 months	10.3	V	S	S	9.5	45.9
12 months or more	146.0	8.4	5.5	9.8	122.2	10.1
Not reported	S	V	V	S	S	S
Not applicable ⁴	368.6	368.6	V	V	V	43.7
Provisions of lease ⁵ :						
Financing only	59.2	6.4	6.1	S	43.0	13.9
Full maintenance	89.4	S	V	S	81.7	14.4
Payment of taxes	96.5	S	S	S	86.7	13.6
Obtaining licenses and permits	90.7	S	V	S	83.0	14.1
Recordkeeping	26.5	S	V	S	24.9	23.4
Fuel contract	10.7	S	S	V	9.3	39.5
PRIMARY OPERATOR CLASSIFICATION						
Private	3 573.0	3 046.0	218.5	45.5	263.0	10.3
Motor carrier	169.5	S	30.1	10.6	78.5	18.7
Owner operator	82.6	4.4	8.4	S	68.9	11.5
Rental	139.1	S	4.5	8.9	69.9	40.4
Personal transportation	9 206.8	9 129.9	S	S	S	5.0
Not applicable ²	S	S	S	V	V	S
For-hire characteristics:						
Type of carrier:						
Contract	105.8	S	10.6	S	80.2	11.7
Common	78.1	S	21.0	S	47.7	13.6
Not reported	33.0	6.3	S	S	19.5	19.7
Not applicable ⁶	12 959.6	12 272.4	298.1	54.5	334.6	3.7
Type of service:						
Truckload	131.2	S	S	S	119.3	9.3
Less-than truckload	60.2	13.9	23.2	9.2	13.8	18.0
Not reported	25.4	3.9	S	S	14.4	22.2
Not applicable ⁶	12 959.6	12 272.4	298.1	54.5	334.6	3.7
Source of hauls:						
Shippers or receivers	121.4	14.0	27.4	11.1	68.9	11.4
Brokers	25.4	V	V	V	25.4	22.0
Centralized markets or exchanges	10.7	V	S	V	9.7	33.8
Other	V	V	V	V	V	N
Not reported	59.3	5.4	10.0	S	43.5	14.2
Not applicable ⁶	12 959.6	12 272.4	298.1	54.5	334.6	3.7
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	45.7	S	3.6	S	38.2	16.8
Not carrying hazardous materials	539.0	59.0	99.0	47.1	333.8	3.8
Not reported	63.6	10.4	6.1	S	38.4	14.5
Not applicable ⁸	12 528.2	12 219.7	227.8	9.0	71.7	3.9
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	19.7	S	5.4	S	11.3	22.3
Air bag(s) (safety device only)	8 597.7	8 270.7	212.8	14.5	99.7	5.4
Air compressor (except air brakes)	49.8	S	3.5	S	41.8	13.6
Air-conditioning	11 668.2	10 934.4	280.3	39.7	413.9	4.0
Air springs	131.3	S	S	S	127.2	8.9
Antilock brake system	8 597.1	8 132.4	205.2	29.5	230.0	5.6
Collision warning system	9.8	V	S	S	4.2	34.9
Computerized drive train control unit	1 374.6	1 350.9	S	V	23.0	17.6
Crane	11.8	S	S	S	2.9	35.3
Electronic vehicle identification device	9.4	S	V	V	8.8	32.5
Engine retarder/brake	149.7	3.5	3.9	S	142.1	7.9
Front-wheel drive	4 353.0	4 299.2	S	V	V	8.5
Hoist	43.7	S	4.6	9.1	29.6	14.0
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	18.8	S	9.9	S	6.4	30.9
Internet access	S	V	V	V	S	S
Lift gate	32.7	7.9	8.1	5.7	11.0	17.2
Mounting bar for snowplow	V	V	V	V	V	N
Navigational system	S	V	V	S	V	S
Power take-off	197.5	2.9	26.1	20.0	148.5	6.8
Radial tires	8 459.0	7 822.7	296.4	41.1	298.8	5.2
Reflective material in addition to those required by law	92.1	S	28.3	7.2	55.3	12.0
Road speed governor	244.4	17.1	24.3	19.7	183.3	6.9
Toolbox	2 036.0	1 781.8	S	22.2	95.3	15.6
Trip recorder or on-board computer with communication capabilities	562.1	524.1	18.7	10.5	8.8	24.4
Trip recorder or on-board computer without communication capabilities	2 526.9	2 412.4	S	V	16.4	11.4
Vehicle control aids for handicapped drivers	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	S
Winch	155.9	S	14.0	10.7	19.8	40.0
Transmission type:						
Automatic	10 100.3	9 783.7	257.3	15.8	43.5	5.0
Manual	2 632.6	2 106.2	71.6	48.2	406.6	9.2
Semiautomated manual	S	S	V	S	7.1	S
Automated manual	S	V	V	V	S	S
Not reported	423.0	391.8	7.7	S	21.9	25.4
Braking system:						
Hydraulic (standard)	147.1	34.2	54.7	26.3	32.0	8.6
Hydraulic with power assist	125.7	39.2	45.0	21.5	20.1	10.0
Air	427.2	S	4.3	16.1	405.6	4.5
Other	V	V	V	V	V	N
Not reported	39.6	2.7	10.4	S	24.4	17.3
Not applicable ¹⁰	12 436.7	12 214.5	222.2	V	V	3.9

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Vehicle size					Coefficient of variation of total (percent)
	Total	Light	Medium	Light-heavy	Heavy-heavy	
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	11 964.1	11 733.1	209.0	9.3	12.7	4.1
Diesel	1 130.6	488.1	124.5	54.7	463.4	12.2
Natural gas	V	V	V	V	V	N
Propane	10.9	V	S	S	6.0	31.5
Alcohol fuels	S	S	S	V	V	S
Electricity	V	V	V	V	V	N
Combination	V	V	V	V	V	N
Other	V	V	V	V	V	N
Not reported	S	S	V	V	V	S
Not applicable ²	S	S	S	V	V	S
Cylinders ¹¹ :						
4 cylinders	1 518.3	1 509.2	7.0	S	S	13.6
6 cylinders	5 636.1	5 096.7	S	35.9	442.9	7.7
8 cylinders	5 925.1	5 613.9	263.8	27.3	20.1	7.2
Other	96.9	S	5.1	S	17.8	40.1
Cubic inch displacement ¹¹ :						
Gasoline fuel	11 964.1	11 733.1	209.0	9.3	12.7	4.1
Less than 200	2 510.0	2 510.0	V	V	V	11.1
200 to 299	4 042.1	4 032.4	S	S	V	10.0
300 to 349	2 555.9	2 504.6	S	S	V	12.1
350 to 399	2 739.9	2 598.7	S	2.3	5.5	12.2
400 or more	97.8	79.5	14.0	S	3.2	39.9
Not available	18.4	8.0	S	9	S	28.2
Diesel fuel	1 130.6	488.1	124.5	54.7	463.4	12.2
Less than 400	441.3	360.0	S	10.7	12.7	27.4
400 to 599	316.9	128.1	65.5	42.1	81.3	21.0
600 to 799	186.6	V	V	S	185.9	7.1
800 or more	137.0	V	S	S	136.1	8.5
Not available	48.9	S	S	S	47.5	14.8
Other fuel	S	S	S	S	6.0	S
Less than 400	S	S	S	S	S	S
400 or more	6.6	V	S	S	S	42.1
Not available	S	V	S	V	V	S
Not reported	S	S	V	V	V	S
Not applicable ²	S	S	S	V	V	S
REFUELING LOCATION						
Gas station	11 597.7	11 141.4	265.0	26.3	165.0	4.2
Truck stop	344.3	S	S	9.9	162.5	24.0
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	351.7	168.2	29.1	27.8	126.7	16.3
Other company's/contractor's facility not open to the public	S	S	S	S	22.4	S
Other	S	S	V	V	V	S
Not reported	746.9	733.5	7.0	S	5.5	25.8
Not applicable ²	S	S	S	V	V	S
MAINTENANCE⁵						
General maintenance performed by:						
None performed	227.7	205.4	S	S	1.8	32.5
Company-owned maintenance facility	1 511.6	1 175.4	47.2	44.3	244.7	15.5
General repair business or private mechanic	5 744.5	5 349.3	230.1	12.4	152.7	7.0
Dealership service department	2 658.8	2 579.0	14.6	7.1	58.0	11.0
Leasing company	30.0	S	S	S	25.7	20.4
Individual not employed/paid by any maintenance type facility	4 598.3	4 472.6	32.7	6.6	86.4	8.9
Other	V	V	V	V	V	N
Not reported	715.8	700.0	7.1	S	7.9	25.9
Not applicable ²	S	S	S	V	V	S
Extensive repairs performed by:						
None performed	10 861.6	10 189.6	302.4	43.5	326.2	4.6
Company-owned maintenance facility	101.9	S	4.4	11.1	40.0	28.9
General repair business or private mechanic	722.0	651.4	13.0	5.2	52.3	18.9
Dealership service department	481.6	411.0	7.6	5.8	57.2	26.3
Leasing company	S	V	V	S	S	S
Component distributorship (engine, transmission, body, etc.)	7.9	V	S	S	6.5	38.1
Individual not employed/paid by any repair type facility	402.7	382.4	S	S	15.0	29.9
Other	V	V	V	V	V	N
Not reported	S	S	V	V	V	S
Not applicable ²	S	S	S	V	V	S
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	12 388.1	11 961.2	223.5	59.9	143.6	3.9
2 axles	12 304.3	11 961.2	222.2	59.2	61.7	3.9
3 axles	43.5	V	S	S	41.9	14.7
4 axles	39.3	V	S	S	39.0	11.5
5 axles or more	S	V	V	V	S	S
Not reported	S	V	S	V	S	S
Combinations	788.3	330.7	S	6.0	338.5	18.2
Single-unit trucks with trailer	470.1	330.7	S	6.0	20.4	30.4
3 axles	S	S	V	S	4.5	S
4 axles	271.8	S	S	4.5	8.1	38.1
5 axles or more	7.7	V	S	V	7.4	43.9
Not reported	S	V	V	V	S	S
Truck-tractors with single trailer	316.7	V	V	S	316.6	5.3
3 axles	13.6	V	V	V	13.6	23.4
4 axles	27.8	V	V	V	27.8	21.4
5 axles or more	215.7	V	V	S	215.6	6.4
Not reported	59.6	V	V	V	59.6	17.2
Truck-tractors with double trailers	S	V	V	V	S	S
5 axles	V	V	V	V	V	N
6 axles	S	S	V	V	S	S
7 axles	V	V	V	V	V	N
8 axles or more	S	V	V	V	V	S
Not reported	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
TRUCK TYPE AND AXLE ARRANGEMENT—Con.						
Combinations—Con.						
Truck-tractors with triple trailers	V	V	V	V	V	N
7 axles	V	V	V	V	V	N
8 axles	V	V	V	V	V	N
9 axles	V	V	V	V	V	N
10 axles or more	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Driving axles:						
1	8 453.6	7 988.3	272.4	59.7	133.3	5.8
2	4 722.2	4 303.6	S	6.2	348.2	7.9
3 or more	S	V	V	V	S	S
Not reported	S	V	S	V	S	S
Total liftable axles and locations ¹² :						
None	683.6	77.3	114.0	65.6	426.6	3.4
1	53.8	V	S	S	53.2	12.7
Forward of the drive axle	35.5	V	S	S	35.3	13.3
Below the chassis	S	V	S	V	S	S
Beyond the chassis	S	V	V	V	S	S
Not reported	8.2	V	V	V	8.2	23.3
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	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not reported	1.6	V	S	V	1.6	49.5
Not applicable ¹⁰	12 436.7	12 214.5	222.2	V	V	3.9
Total liftable axles and number of braking axles:						
None	683.6	77.3	114.0	65.6	426.6	3.4
1	53.8	V	S	S	53.2	12.7
0 braking	4.1	V	S	S	3.5	29.0
1 braking	43.3	V	S	V	43.3	14.2
Not reported	6.4	V	V	V	6.4	44.6
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	1.6	V	S	V	1.6	49.5
Not applicable ¹⁰	12 436.7	12 214.5	222.2	V	V	3.9
CAB TYPE						
Conventional cab	670.1	62.4	90.8	61.6	455.3	3.4
With sleeper	142.4	V	V	V	142.4	9.8
Without sleeper	514.8	62.4	90.8	61.6	300.1	3.9
Not reported	12.9	V	V	V	12.9	33.0
Cab over engine	68.1	14.9	23.6	4.3	25.2	12.5
With sleeper	15.9	V	V	V	15.9	25.1
Without sleeper	52.2	14.9	23.6	4.3	9.3	14.6
Not reported	S	V	V	V	S	S
Cab forward of engine	S	V	V	V	S	S
Cab beside engine	S	V	V	V	S	S
Not reported	S	V	S	V	S	S
Not applicable ¹⁰	12 436.7	12 214.5	222.2	V	V	3.9

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

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

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

³Truck-tractors not in use.

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

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

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

⁷Distributed miles data are available in Table 8.

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

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

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

¹¹Data were derived from administrative records.

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

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

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

Table 7. Truck Miles by Truck Type: 2002

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
Total	13 176.5	12 388.1	788.3	470.1	316.7	S	V	X
Coefficient of variation (percent)	3.7	3.9	18.2	30.4	5.3	S	N	X
BUSINESS¹								
For-hire transportation or warehousing	215.5	152.8	62.7	S	62.2	V	V	30.3
Vehicle leasing or rental	139.0	S	62.2	V	62.2	V	V	40.4
Agriculture, forestry, fishing, or hunting	538.6	470.3	68.3	10.0	58.1	S	V	24.8
Mining	S	S	5.5	S	4.9	V	V	S
Utilities	153.4	139.8	13.6	9.9	3.7	V	V	37.2
Construction	1 096.3	983.2	S	S	26.1	V	V	21.8
Manufacturing	69.2	13.0	56.2	S	29.6	V	V	39.3
Wholesale trade	151.2	119.2	32.0	V	30.6	S	V	32.9
Retail trade	405.4	390.1	15.3	S	14.8	V	V	32.8
Information services	S	S	S	S	V	V	V	S
Waste management, landscaping, or administrative/support services	182.0	135.0	S	S	S	V	V	41.5
Arts, entertainment, or recreation services	S	S	S	S	S	V	V	S
Accommodation or food services	S	S	5.2	V	5.2	V	V	S
Other services	529.4	528.5	S	V	S	V	V	26.4
Personal transportation	9 206.8	9 001.1	205.7	205.7	V	V	V	5.0
Not reported	276.5	S	S	S	12.3	V	V	46.9
Not applicable ²	S	S	V	V	V	V	V	S
BODY TYPE								
Single-unit trucks	12 858.3	12 388.1	470.1	470.1	N	N	N	3.8
Pickup	7 263.4	6 849.5	414.0	414.0	N	N	N	5.2
Minivan	1 536.5	1 512.6	S	S	N	N	N	16.4
Other light vans	335.7	335.7	V	V	N	N	N	36.5
Sport utility	3 301.1	3 301.1	V	V	N	N	N	9.1
Armored	S	S	V	V	N	N	N	S
Beverage	S	S	V	V	N	N	N	S
Concrete mixer	9.5	9.5	V	V	N	N	N	17.4
Concrete pumper	S	S	V	V	N	N	N	S
Crane	S	S	V	V	N	N	N	S
Curtainside	S	S	V	V	N	N	N	S
Dump	62.2	56.5	S	S	N	N	N	12.2
Flatbed, stake, or platform	81.0	63.4	17.6	17.6	N	N	N	10.5
Low boy	S	S	S	S	N	N	N	S
Pole, logging, pulpwood, or pipe	S	V	S	S	N	N	N	S
Service, utility	34.7	30.6	4.0	4.0	N	N	N	15.9
Service, other	23.0	23.0	V	V	N	N	N	24.5
Street sweeper	S	S	V	V	N	N	N	S
Tank, dry bulk	3.3	3.3	V	V	N	N	N	34.9
Tank, liquids or gases	23.7	23.6	S	S	N	N	N	26.6
Tow/Wrecker	15.5	14.3	S	S	N	N	N	25.0
Trash, garbage, or recycling	19.0	19.0	V	V	N	N	N	20.1
Vacuum	S	S	V	V	N	N	N	S
Van, basic enclosed	55.6	54.0	S	S	N	N	N	15.7
Van, insulated nonrefrigerated	S	S	V	V	N	N	N	S
Van, insulated refrigerated	9.2	9.2	V	V	N	N	N	39.5
Van, open top	3.3	3.3	S	S	N	N	N	25.5
Van, step, walk-in, or multistop	62.1	61.6	S	S	N	N	N	18.1
Van, other	7.5	7.5	V	V	N	N	N	28.4
Other	V	V	V	V	N	N	N	N
Truck-tractors	318.2	V	318.2	N	316.7	S	V	5.3
Automobile carrier	S	N	S	N	S	V	V	S
Beverage	3.9	N	3.9	N	3.9	V	V	47.2
Curtainside	V	N	V	N	V	V	V	N
Dump	38.0	N	38.0	N	37.8	S	V	16.8
Flatbed, stake, or platform	48.2	N	48.2	N	48.2	V	V	15.1
Livestock	S	N	S	N	S	V	V	S
Low boy	13.9	N	13.9	N	13.9	V	V	22.7
Mobile home toter	S	N	S	N	S	V	V	S
Open top	32.3	N	32.3	N	32.3	V	V	15.5
Pole, logging, pulpwood, or pipe	S	N	S	N	S	V	V	S
Tank, dry bulk	7.7	N	7.7	N	7.7	V	V	36.3
Tank, liquids or gases	25.0	N	25.0	N	25.0	V	V	22.9
Van, basic enclosed	109.0	N	109.0	N	109.0	V	V	11.8
Van, drop-frame	S	N	S	N	S	V	V	S
Van, insulated nonrefrigerated	3.6	N	3.6	N	3.6	V	V	48.2
Van, insulated refrigerated	23.9	N	23.9	N	22.6	S	V	21.8
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	426.7	411.3	S	S	5.7	V	V	11.2
5,000 to 9,999	1 222.9	1 212.6	10.3	3.2	7.1	V	V	10.2
10,000 to 19,999	5 250.8	5 040.3	210.4	192.4	17.8	S	V	5.7
20,000 to 29,999	3 108.1	2 979.2	S	S	23.9	V	V	11.5
30,000 to 49,999	1 981.9	1 776.9	S	S	47.7	V	V	17.5
50,000 to 74,999	810.7	742.6	68.0	S	64.1	S	V	34.7
75,000 or more	S	S	150.3	V	150.3	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type						Coefficient of variation of total (percent)	
	Total	Single-unit trucks and truck-tractors without trailer	Combination			Truck-tractor with triple trailers		
			Total	Single-unit truck with trailer	Truck-tractor with single trailer			Truck-tractor with double trailers
PRIMARY RANGE OF OPERATION								
Off-the-road	S	S	S	S	S	V	V	S
50 miles or less	8 544.4	8 265.2	279.2	S	103.5	S	V	5.1
51 to 100 miles	1 554.4	1 318.8	235.6	165.4	70.0	S	V	16.1
101 to 200 miles	418.0	363.4	54.7	S	51.6	V	V	32.7
201 to 500 miles	237.5	206.8	30.8	S	30.6	V	V	32.6
501 miles or more	408.7	331.3	77.3	S	27.6	V	V	33.8
Not reported	1 828.1	1 729.0	S	S	30.2	V	V	17.2
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	S	V	S	S	V	V	V	S
Operated within the home base state	10 973.4	10 449.2	524.1	292.0	230.6	S	V	4.2
Operated in states other than the home base state	503.5	420.4	83.1	S	57.4	V	V	24.6
Not reported	1 694.1	1 513.0	S	S	28.6	V	V	18.7
Not applicable ²	S	S	V	V	V	V	V	S
MONTHS OPERATED								
12	9 572.9	9 093.9	479.0	254.4	223.3	S	V	5.1
7 to 11	2 636.7	2 418.8	217.9	S	65.2	V	V	11.8
2 to 6	915.9	828.4	S	S	24.7	V	V	21.9
1 or less	45.5	41.6	3.9	S	3.5	S	V	35.7
Vehicle not used	S	S	V	V	V	V	V	S
VEHICLE SIZE								
Light	12 291.9	11 961.2	330.7	330.7	V	V	V	3.9
Medium	336.6	223.5	S	S	V	V	V	28.2
Light-heavy	65.9	59.9	6.0	6.0	S	V	V	14.0
Heavy-heavy	482.1	143.6	338.5	20.4	316.6	S	V	4.2
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	8 811.0	8 707.3	S	S	V	V	V	5.3
6,001 to 8,500	3 056.0	2 830.4	S	S	V	V	V	11.4
8,501 to 10,000	424.9	423.4	S	S	V	V	V	37.8
10,001 to 14,000	218.8	160.4	S	S	V	V	V	35.9
14,001 to 16,000	35.3	35.3	V	V	V	V	V	22.1
16,001 to 19,500	S	27.7	S	S	V	V	V	S
19,501 to 26,000	65.9	59.9	6.0	6.0	S	V	V	14.0
26,001 to 33,000	70.3	53.2	17.1	13.1	S	V	V	14.0
33,001 to 40,000	28.6	15.3	13.3	3.4	9.9	V	V	18.0
40,001 to 50,000	65.3	26.4	38.9	S	36.6	V	V	13.6
50,001 to 60,000	26.3	11.0	15.3	S	15.1	V	V	19.5
60,001 to 80,000	283.5	37.0	246.5	S	243.8	S	V	5.5
80,001 to 100,000	7.5	S	6.8	V	6.7	S	V	30.9
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	10 176.6	10 176.6	V	V	V	V	V	4.8
20.0 to 27.9	1 309.8	1 167.5	S	S	V	V	V	16.8
28.0 to 35.9	1 193.4	1 010.0	183.4	S	13.3	V	V	18.2
36.0 to 40.9	146.1	23.7	122.4	S	35.5	V	V	31.4
41.0 to 44.9	S	4.2	S	S	10.0	V	V	S
45.0 to 49.9	62.2	3.6	58.6	10.1	48.4	V	V	16.0
50.0 to 54.9	35.6	S	33.0	S	32.2	V	V	18.1
55.0 to 59.9	42.2	V	42.2	S	41.3	V	V	14.3
60.0 to 64.9	89.7	V	89.7	V	89.7	V	V	11.4
65.0 to 69.9	30.9	V	30.9	V	30.9	V	V	18.4
70.0 to 74.9	11.8	V	11.8	S	9.9	S	V	27.4
75.0 to 79.9	4.8	V	4.8	V	4.6	S	V	46.9
80.0 or more	S	V	S	V	S	V	V	S
MILES PER GALLON								
Less than 5	77.8	26.5	51.2	S	49.9	V	V	10.6
5 to 6.9	209.7	67.1	142.6	4.8	136.5	S	V	6.5
7 to 8.9	111.0	67.3	43.7	6.5	37.1	V	V	9.8
9 to 10.9	465.0	453.8	11.2	6.7	4.5	V	V	25.7
11 to 12.9	622.5	550.0	S	S	S	V	V	21.2
13 to 14.9	1 182.7	1 096.3	S	S	S	V	V	17.1
15 or more	8 648.3	8 478.9	169.4	169.4	S	V	V	5.4
15 to 20.9	6 669.8	6 525.5	S	S	S	V	V	6.8
21 to 24.9	1 285.9	1 260.8	S	S	V	V	V	17.9
25 or more	692.6	692.6	V	V	V	V	V	21.8
Not reported	1 854.0	1 642.7	211.3	S	85.7	S	V	16.9
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type						Coefficient of variation of total (percent)	
	Total	Single-unit trucks and truck-tractors without trailer	Combination			Truck-tractor with triple trailers		
			Total	Single-unit truck with trailer	Truck-tractor with single trailer			Truck-tractor with double trailers
MODEL YEAR								
2003	S	.8	S	V	S	V	S	
2002	835.8	808.8	27.0	S	26.2	V	21.4	
2001	1 353.4	1 309.7	S	S	12.2	V	16.4	
2000	1 458.0	1 423.7	34.3	S	28.5	V	16.9	
1999	1 635.3	1 467.5	S	S	30.5	V	15.7	
1998	1 108.2	1 020.8	87.3	S	41.1	V	19.3	
1997	914.4	816.4	S	S	19.2	V	18.5	
1996	655.8	640.6	15.1	S	14.2	V	20.9	
1995	1 335.9	1 266.7	69.2	S	35.5	V	18.7	
1994	756.5	732.3	24.3	S	23.3	V	25.6	
1993	484.9	469.6	15.3	S	14.6	V	24.8	
Pre-1993	2 636.5	2 431.1	205.5	S	70.5	V	12.4	
VEHICLE ACQUISITION								
New	5 887.5	5 541.7	345.8	S	146.9	S	V	7.1
Used	6 669.8	6 249.1	420.7	272.2	148.4	S	V	7.0
Not reported	619.1	597.3	21.8	S	21.4	V	V	22.2
LEASE CHARACTERISTICS								
Leased	529.4	419.6	109.8	S	105.9	V	V	30.6
Lessee	419.6	399.4	20.2	S	20.0	V	V	38.4
Vehicle only	51.0	30.8	20.2	S	20.0	V	V	14.7
Vehicle with driver	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	368.6	368.6	V	V	V	V	V	43.7
Lessor	106.2	20.1	86.1	S	85.0	V	V	12.9
Vehicle only	98.7	19.1	79.5	S	78.5	V	V	13.2
Vehicle with driver	S	S	S	V	S	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	S	S	S	V	V	S
Not leased	7 506.3	7 020.9	485.4	348.7	136.5	S	V	6.2
Not reported	5 140.8	4 947.7	193.1	S	74.3	S	V	7.7
Length of leasing agreement:								
Leased	529.4	419.6	109.8	S	105.9	V	V	30.6
1 to 11 months	10.3	S	S	V	V	V	V	45.9
12 months or more	146.0	50.0	96.0	S	94.7	V	V	10.1
Not reported	S	S	S	S	S	V	V	S
Not applicable ⁴	368.6	368.6	V	V	V	V	V	43.7
Provisions of lease ⁵ :								
Financing only	59.2	28.6	30.6	S	30.4	V	V	13.9
Full maintenance	89.4	16.4	73.0	S	71.9	V	V	14.4
Payment of taxes	96.5	21.8	74.7	S	73.6	V	V	13.6
Obtaining licenses and permits	90.7	18.2	72.5	S	71.4	V	V	14.1
Recordkeeping	26.5	S	22.8	S	21.7	V	V	23.4
Fuel contract	10.7	S	7.5	V	7.5	V	V	39.5
PRIMARY OPERATOR CLASSIFICATION								
Private	3 573.0	3 192.4	380.6	234.0	145.1	S	V	10.3
Motor carrier	169.5	82.5	87.1	S	57.5	V	V	18.7
Owner operator	82.6	29.8	52.8	S	51.9	V	V	11.5
Rental	139.1	S	62.2	V	62.2	V	V	40.4
Personal transportation	9 206.8	9 001.1	205.7	205.7	V	V	V	5.0
Not applicable ²	S	S	V	V	V	V	V	S
For-hire characteristics:								
Type of carrier:								
Contract	105.8	43.2	62.6	S	62.0	V	V	11.7
Common	78.1	44.4	33.6	S	33.4	V	V	13.6
Not reported	33.0	16.3	16.7	S	14.1	V	V	19.7
Not applicable ⁶	12 959.6	12 284.3	675.3	466.6	207.2	S	V	3.7
Type of service:								
Truckload	131.2	40.1	91.1	S	90.8	V	V	9.3
Less-than truckload	60.2	49.8	10.4	V	10.4	V	V	18.0
Not reported	25.4	14.0	11.5	S	8.2	V	V	22.2
Not applicable ⁶	12 959.6	12 284.3	675.3	466.6	207.2	S	V	3.7
Source of hauls:								
Shippers or receivers	121.4	72.2	49.2	S	49.1	V	V	11.4
Brokers	25.4	S	23.9	V	23.9	V	V	22.0
Centralized markets or exchanges	10.7	4.8	S	V	S	V	V	33.8
Other	V	V	V	V	V	V	V	N
Not reported	59.3	25.2	34.0	S	30.6	V	V	14.2
Not applicable ⁶	12 959.6	12 284.3	675.3	466.6	207.2	S	V	3.7
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	45.7	20.8	24.9	V	24.9	V	V	16.8
Not carrying hazardous materials	539.0	299.6	239.4	31.0	206.9	S	V	3.8
Not reported	63.6	39.5	24.1	S	22.8	V	V	14.5
Not applicable ⁸	12 528.2	12 028.2	500.0	437.8	62.2	V	V	3.9
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	19.7	17.0	2.7	2.7	V	V	V	22.3
Air bag(s) (safety device only)	8 597.7	8 200.1	397.7	325.2	72.4	V	V	5.4
Air compressor (except air brakes)	49.8	19.5	30.4	2.8	27.6	V	V	13.6
Air-conditioning	11 668.2	10 916.0	752.2	458.8	292.1	S	V	4.0
Air springs	131.3	14.3	116.9	S	116.2	V	V	8.9

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
EQUIPMENT TYPE^{5 9}—Con.								
Antilock brake system	8 597.1	8 145.2	451.9	285.1	165.5	S	V	5.6
Collision warning system	9.8	7.1	S	S	S	V	V	34.9
Computerized drive train control unit	1 374.6	1 329.2	S	S	18.5	V	V	17.6
Crane	11.8	10.9	S	S	S	V	V	35.3
Electronic vehicle identification device	9.4	2.3	7.1	V	7.1	V	V	32.5
Engine retarder/brake	149.7	30.3	119.4	S	118.4	V	V	7.9
Front-wheel drive	4 353.0	4 202.6	S	S	V	V	V	8.5
Hoist	43.7	39.0	S	S	V	V	V	14.0
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	18.8	13.2	5.6	S	5.2	V	V	30.9
Internet access	S	S	V	V	V	V	V	S
Lift gate	32.7	32.2	S	S	V	V	V	17.2
Mounting bar for snowplow	V	V	V	V	V	V	V	N
Navigational system	S	S	V	V	V	V	V	S
Power take-off	197.5	118.9	78.7	9.8	68.8	V	V	6.8
Radial tires	8 459.0	7 886.5	572.5	377.7	193.4	S	V	5.2
Reflective material in addition to those required by law	92.1	60.9	31.2	3.7	27.4	V	V	12.0
Road speed governor	244.4	99.8	144.6	8.1	135.1	S	V	6.9
Toolbox	2 036.0	1 864.9	171.1	S	52.2	V	V	15.6
Trip recorder or on-board computer with communication capabilities	562.1	554.1	7.9	S	7.2	V	V	24.4
Trip recorder or on-board computer without communication capabilities	2 526.9	2 454.1	S	S	14.5	V	V	11.4
Vehicle control aids for handicapped drivers	V	V	V	V	V	V	V	N
Wheelchair lift	S	S	V	V	V	V	V	S
Winch	155.9	143.3	S	S	2.3	V	V	40.0
Transmission type:								
Automatic	10 100.3	9 715.3	385.0	367.4	17.6	V	V	5.0
Manual	2 632.6	2 252.7	379.9	102.6	275.8	S	V	9.2
Semiautomated manual	S	S	S	V	S	V	V	S
Automated manual	S	S	S	V	V	V	V	S
Not reported	423.0	406.0	17.0	S	16.9	V	V	25.4
Braking system:								
Hydraulic (standard)	147.1	127.1	20.0	13.2	6.9	V	V	8.6
Hydraulic with power assist	125.7	111.6	14.1	13.6	S	V	V	10.0
Air	427.2	131.5	295.7	5.2	289.1	S	V	4.5
Other	V	V	V	V	V	V	V	N
Not reported	39.6	19.0	20.6	S	20.2	V	V	17.3
Not applicable ¹⁰	12 436.7	11 998.9	437.8	437.8	V	V	V	3.9
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	11 964.1	11 551.6	412.4	411.5	S	V	V	4.1
Diesel	1 130.6	754.8	375.9	S	315.7	S	V	12.2
Natural gas	V	V	V	V	V	V	V	N
Propane	10.9	10.9	V	V	V	V	V	31.5
Alcohol fuels	S	S	V	V	V	V	V	S
Electricity	V	V	V	V	V	V	V	N
Combination	V	V	V	V	V	V	V	N
Other	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
Cylinders¹¹:								
4 cylinders	1 518.3	1 466.2	S	S	S	V	V	13.6
6 cylinders	5 636.1	5 253.1	383.0	S	307.0	S	V	7.7
8 cylinders	5 925.1	5 578.8	346.4	344.4	S	V	V	7.2
Other	96.9	90.0	6.9	S	6.3	V	V	40.1
Cubic inch displacement¹¹:								
Gasoline fuel	11 964.1	11 551.6	412.4	411.5	S	V	V	4.1
Less than 200	2 510.0	2 459.7	S	S	S	V	V	11.1
200 to 299	4 042.1	4 018.2	S	S	V	V	V	10.0
300 to 349	2 555.9	2 353.2	S	S	V	V	V	12.1
350 to 399	2 739.9	2 608.6	S	S	S	V	V	12.2
400 or more	97.8	95.4	S	S	S	V	V	39.9
Not available	18.4	16.5	S	S	S	V	V	28.2
Diesel fuel	1 130.6	754.8	375.9	S	315.7	S	V	12.2
Less than 400	441.3	397.9	S	S	S	V	V	27.4
400 to 599	316.9	285.6	31.2	14.3	16.9	V	V	21.0
600 to 799	186.6	41.7	144.9	.7	142.9	S	V	7.1
800 or more	137.0	17.3	119.7	S	118.6	S	V	8.5
Not available	48.9	12.3	36.6	S	36.1	V	V	14.8
Other fuel	S	S	V	V	V	V	V	S
Less than 400	S	S	V	V	V	V	V	S
400 or more	6.6	6.6	V	V	V	V	V	42.1
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	11 597.7	11 117.1	480.6	392.5	88.1	V	V	4.2
Truck stop	344.3	205.0	139.4	7.0	130.9	S	V	24.0
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	351.7	267.9	83.7	S	81.1	V	V	16.3
Other company's/contractor's facility not open to the public	S	S	15.3	S	13.2	V	V	S
Other	S	S	V	V	V	V	V	S
Not reported	746.9	677.6	S	S	3.4	V	V	25.8
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type						Coefficient of variation of total (percent)	
	Total	Single-unit trucks and truck-tractors without trailer	Combination					
			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	227.7	226.7	S	S	S	V	V	32.5
Company-owned maintenance facility	1 511.6	1 255.2	256.5	S	158.4	S	V	15.5
General repair business or private mechanic	5 744.5	5 457.3	287.1	195.4	91.5	S	V	7.0
Dealership service department	2 658.8	2 571.2	87.5	S	40.1	V	V	11.0
Leasing company	30.0	S	24.9	V	24.9	V	V	20.4
Individual not employed/paid by any maintenance type facility								
Other	4 598.3	4 455.7	142.6	90.1	52.5	V	V	8.9
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	715.8	644.2	S	S	3.0	V	V	25.9
	S	S	V	V	V	V	V	S
Extensive repairs performed by:								
None performed	10 861.6	10 263.0	598.6	382.9	215.6	S	V	4.6
Company-owned maintenance facility	101.9	73.8	28.2	S	25.8	S	V	28.9
General repair business or private mechanic	722.0	685.2	36.9	S	32.2	V	V	18.9
Dealership service department	481.6	438.7	42.9	7.0	35.9	V	V	26.3
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	7.9	3.1	S	V	S	S	V	38.1
Other	402.7	383.5	19.1	S	10.6	V	V	29.9
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	S	S	V	V	V	V	V	S
	S	S	V	V	V	V	V	S
AXLE ARRANGEMENT								
Driving axles:								
1	8 453.6	8 094.5	359.1	307.6	51.5	V	V	5.8
2	4 722.2	4 293.0	429.2	162.6	265.1	S	V	7.9
3 or more	S	S	V	V	V	V	V	S
Not reported	S	S	S	V	S	V	V	S
Total liftable axles and locations ¹² :								
None	683.6	335.2	348.4	32.3	314.6	S	V	3.4
1	53.8	51.7	2.1	S	2.1	V	V	12.7
Forward of the drive axle	35.5	33.6	1.9	S	1.9	V	V	13.3
Below the chassis	S	S	S	V	S	V	V	S
Beyond the chassis	S	S	V	V	V	V	V	S
Not reported	8.2	8.2	S	V	S	V	V	23.3
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	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not reported	1.6	1.6	V	V	V	V	V	49.5
Not applicable ¹⁰	12 436.7	11 998.9	437.8	437.8	V	V	V	3.9
Total liftable axles and number of braking axles:								
None	683.6	335.2	348.4	32.3	314.6	S	V	3.4
1	53.8	51.7	2.1	S	2.1	V	V	12.7
0 braking	4.1	3.8	S	V	S	V	V	29.0
1 braking	43.3	41.5	1.7	S	S	V	V	14.2
Not reported	6.4	6.4	S	V	S	V	V	44.6
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	1.6	1.6	V	V	V	V	V	49.5
Not applicable ¹⁰	12 436.7	11 998.9	437.8	437.8	V	V	V	3.9
CAB TYPE								
Conventional cab								
With sleeper	670.1	337.9	332.2	31.4	299.3	S	V	3.4
Without sleeper	142.4	V	142.4	V	142.4	V	V	9.8
Not reported	514.8	337.9	176.9	31.4	144.0	S	V	3.9
Not reported	12.9	V	12.9	V	12.9	V	V	33.0
Cab over engine								
With sleeper	68.1	49.9	18.2	S	17.3	V	V	12.5
Without sleeper	15.9	V	15.9	V	15.9	V	V	25.1
Not reported	52.2	49.9	2.3	S	S	V	V	14.6
Not reported	S	V	S	V	S	V	V	S
Cab forward of engine								
Cab beside engine	S	S	V	V	V	V	V	S
Not reported	S	S	S	V	S	V	V	S
Not reported	S	S	V	V	V	V	V	S
Not applicable ¹⁰	12 436.7	11 998.9	437.8	437.8	V	V	V	3.9

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

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

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

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

Table 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	13 176.5	739.7	3.7	3.2		
TRAILER CONFIGURATION						
No trailer pulled	12 086.4	393.0	3.8	4.6		
Single trailer pulled	1 083.2	345.1	11.9	4.9		
Double trailers pulled	S	S	S	S		
Triple trailers pulled	S	S	S	S		
Not applicable ¹	S	S	S	S		
RANGE OF OPERATION						
Off-the-road	278.2	11.5	22.3	13.7		
50 miles or less	7 536.8	289.3	4.8	4.1		
51 to 100 miles	1 894.6	193.7	10.5	6.4		
101 to 200 miles	832.4	91.2	16.8	10.2		
201 to 500 miles	403.9	56.4	16.7	11.6		
501 miles or more	396.9	33.6	27.3	19.8		
Not reported	1 828.1	63.8	17.2	13.6		
Not applicable ¹	S	S	S	S		
JURISDICTION						
Operated in Canada	S	V	S	N		
Operated in Mexico	S	S	S	S		
Operated within the home base state	10 556.0	607.3	4.1	3.5		
Operated in states other than the home base state	920.6	77.2	13.2	10.5		
Not reported	1 694.1	55.0	18.7	15.9		
Not applicable ¹	S	S	S	S		
OPERATOR CLASSIFICATION						
Private	3 609.5	427.6	9.5	4.1		
Motor carrier	160.3	135.8	14.5	10.7		
Owner operator	87.4	82.1	12.3	11.3		
Rental	129.3	84.4	35.3	14.7		
Personal transportation	9 184.4	9.6	4.9	29.1		
Not applicable ¹	S	S	S	S		
For-hire characteristics:						
Type of carrier:						
Contract	100.9	100.9	10.7	10.7		
Common	82.9	82.9	11.7	11.7		
Not reported	33.0	33.0	19.7	19.7		
Not applicable ^{2 3}	12 959.6	522.9	3.7	3.9		
Type of service:						
Truckload	61.7	61.7	17.4	17.4		
Less-than truckload	129.6	129.6	9.2	9.2		
Not reported	25.4	25.4	22.2	22.2		
Not applicable ^{2 3}	12 959.6	522.9	3.7	3.9		
PRODUCTS CARRIED⁴						
Animals and fish, live	27.6	10.9	43.6	21.1		
Animal feed and products of animal origin	55.7	13.2	45.3	19.8		
Grains, cereal	16.1	15.9	14.0	14.1		
All other agricultural products	51.3	4.9	47.9	25.7		
Basic chemicals	2.5	2.0	39.3	42.6		
Fertilizers and fertilizer materials	8.6	3.5	40.0	23.3		
Pharmaceutical products	S	V	S	N		
All other chemical products and preparations	S	5.2	S	38.8		
Alcoholic beverages	4.7	4.7	40.5	40.5		
Bakery and milled grain products	S	10.5	S	22.0		
Meat, seafood, and their preparations	S	8.9	S	26.2		
Tobacco products	1.1	1.1	38.0	38.0		
All other prepared foodstuffs	22.9	16.8	25.0	20.4		
Logs and other wood in the rough	3.5	1.5	48.5	36.0		
Paper or paperboard articles	12.3	5.8	39.4	29.8		
Printed products	S	S	S	S		
Pulp, newsprint, paper, and paperboard .....	.9	.9	38.9	38.9		
Wood products	164.2	30.4	33.8	15.7		
Articles of base metal	232.0	25.6	40.9	18.9		
Base metal in primary or semifinished forms	15.6	13.0	24.5	25.9		
Nonmetallic mineral products	S	13.9	S	18.1		
Tools, nonpowered	826.7	57.8	21.8	12.4		
Tools, powered	809.4	42.6	23.0	14.9		
Electronic and other electrical equipment	88.6	13.4	48.6	25.9		
Furniture, mattresses, lamps, etc.	6.8	6.8	32.6	32.6		
Machinery	29.3	18.6	26.2	16.1		
Miscellaneous manufactured products	S	9.9	S	25.6		
Precision instruments and apparatus	S	S	S	S		
Textile, leather, and related articles	S	S	S	S		
Vehicles, including parts	S	19.9	S	25.0		
All other transportation equipment	S	4.2	S	46.9		
Coal	S	S	S	S		
Crude petroleum	S	S	S	S		
Gravel or crushed stone	33.4	26.0	14.6	12.9		
Metallic ores and concentrates	S	S	S	S		
Monumental or building stone	S	.5	S	33.8		
Natural sands	8.1	7.2	23.0	22.9		
All other nonmetallic minerals	4.8	4.8	35.9	35.9		
Fuel oils	8.4	8.3	28.2	28.5		
Gasoline and aviation turbine fuel	10.8	4.8	45.5	31.4		

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	6.7	S	34.5
All other coal and refined petroleum products	14.7	13.1	29.5	30.7
Hazardous waste (EPA manifest)	V	V	N	N
All other waste and scrap (non-EPA manifest)	41.8	16.4	36.8	18.9
Recyclable products	12.4	5.4	48.5	40.8
Mail and courier parcels	76.6	45.4	30.5	23.1
Empty shipping containers	4.5	S	46.9	S
Passengers	96.0	S	40.1	S
Mixed freight	6.5	6.5	36.1	36.1
Products, equipment, or materials not elsewhere classified	1.7	1.7	40.5	40.5
Products not specified	79.8	22.9	36.8	19.3
Not applicable ¹	S	S	S	S
HAZARDOUS MATERIALS CARRIED⁴				
Division 1.1, Explosives	V	V	N	N
Division 1.2, Explosives	V	V	N	N
Division 1.3, Explosives	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	13.5	13.5	29.0	29.0
Division 2.2, Nonflammable gas	S	S	S	S
Division 2.3, Poison gas	V	V	N	N
Class 3, Flammable	6.0	6.0	36.2	36.2
Combustible liquid	2.9	2.9	36.7	36.7
Oxygen 2, Oxygen	S	S	S	S
Division 4.1, Flammable solid	S	S	S	S
Division 4.2, Spontaneously combustible	S	S	S	S
Division 4.3, Dangerous when wet	S	S	S	S
Division 5.1, Oxidizer .....	.1	.1	47.4	47.4
Division 5.2, Organic peroxide	S	S	S	S
Division 6.1, Poison inhalation hazard	V	V	N	N
Division 6.1, Poison	S	S	S	S
Class 7, Radioactive	V	V	N	N
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	S	S	S

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

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

²Column A includes: pickups, minivans, other light vans, and sport utilities; all other vehicles that are private, rental, 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

