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2002 Economic Census

Vehicle Inventory and Use Survey

Geographic Area Series



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2002 Economic Census
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Vehicle Inventory and Use Survey

The Vehicle Inventory and Use Survey (VIUS) provides data on the physical and operational characteristics of the nation's truck population. This survey is conducted every 5 years as part of the economic census. Its primary goal is to produce national and state-level estimates of the total number of trucks.

The 2002 VIUS is a probability sample of private and commercial trucks registered (or licensed) in the United States as of July 1, 2002.¹ A sample of about 136,000 trucks was surveyed to measure the characteristics of nearly 89 million trucks registered in the United States. The VIUS excludes vehicles owned by federal, state, and local governments; ambulances; buses; motor homes; farm tractors; unpowered trailer units; and trucks reported to have been disposed of prior to January 1, 2002.

Registration practices for commercial vehicles differ greatly among the states. Some states register a truck-tractor semitrailer combination as a single unit; others register the tractor and the semitrailer separately. For either method of registration, only truck-tractors are included in the registered truck counts. In addition, some states allow pickups, small vans, and sport utility vehicles to be registered as either cars or trucks. Therefore, passenger car files were searched and any such vehicles were included in the sampling frame. Some vehicles, such as "off-highway" trucks used exclusively on private property, are not required to be registered. These vehicles were not included in the sampling frame and had no chance of being selected for the survey.

PURPOSE AND USE OF DATA

The economic census is the major source of facts about the structure and functioning of the nation's economy. It provides the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

VIUS data are of considerable value to government, business, academia, and the general public. Data on the number and types of vehicles and how they are used are important in studying the future growth of transportation and are needed in calculating fees and cost allocations among highway users. The data also are important in evaluating safety risks to highway travelers and in assessing the energy efficiency and environmental impact of the nation's truck fleet. Businesses and others make use of these data in conducting market studies and evaluating market strategies; assessing the utility and cost of certain types of equipment; calculating the longevity of products; determining fuel demands; and linking to, and better utilizing, other data sets representing limited segments of the truck population.

COMPARABILITY WITH PREVIOUS SURVEYS

The results of the 2002 VIUS are comparable, in most instances, to the results of the 1997 VIUS and prior Truck Inventory and Use Surveys (TIUS). Specific changes are as follows:

¹Due to difficulty in obtaining up-to-date vehicle registration records for New Hampshire, the sample was drawn as of September 1, 2001, for this state.

1. **Business** (formerly Major Use).

Changed—

- The kind of business was converted from a Standard Industrial Classification (SIC) basis to a North American Industry Classification System (NAICS) basis. Even though category headings may appear similar, differences in the classification systems should be taken into account for comparability purposes.

2. **Body Type.**

New—

- Categories that were added are: armored; concrete pumper; curtainside; mobile home toter; street sweeper; vacuum; and van, other.

Changed—

- The station wagon category was collapsed into the sport utility category.
- The grain body category was collapsed into the open top van category.
- The platform with added devices category was collapsed into the flatbed, stake, or platform category.
- The category “Winch or crane” was changed to “Crane” (winch was added as a category to the equipment type section).

Deleted—

- The oilfield truck and yard tractor categories were dropped.

3. **Primary Jurisdiction** (formerly Base of Operation).

Changed—

- Estimates were previously calculated for the percentage of miles traveled outside the base-of-operation state. For 2002 estimates are calculated based on jurisdictions in which the vehicle traveled. Estimates of miles traveled in Canada, Mexico, and states other than the home base state are also provided.

4. **Months Operated** (formerly Weeks Operated).

New—

- The “Vehicle not used” category was added.

Changed—

- Categories for time operated were changed from weekly intervals to monthly intervals.

5. **Average Weight (Pounds).**

Changed—

- The category “6,001 to 10,000” was split into “6,001 to 8,500” and “8,501 to 10,000.”

6. **Total Length (Feet).**

New—

- Categories representing lengths of 45 feet up to 80 feet or more were added.

7. **Vehicle Acquisition.**

Deleted—

- The categories “Leased from someone else” and “Other” were dropped.

8. Lease Characteristics.

New—

- Categories for the length of the leasing agreement were added.
- The category “Fuel contract” was added to the provisions of lease section.

Changed—

- The leased section includes a breakout between lessee and lessor.
- The categories “Leased with driver other than owner-operator” and “Leased with owner-operator” were collapsed into the category “Vehicle with driver.”

Deleted—

- The categories “Maintenance on specific parts” and “Other” were dropped from the provisions of lease section.

9. Primary Operator Classification.

New—

- A section for source of hauls was added.

Changed—

- There is limited comparability for this section due to significant changes in the categories and definitions.

Deleted—

- The section “For-hire jurisdiction” was dropped.
- The category “Exempt” was dropped from the type of carrier section.

10. Hazardous Materials Carried.

Deleted—

- All detailed hazardous material data lines were dropped except in Table 8 where distributed mileage appears.

11. Equipment Type.

New—

- Categories added to the equipment type section are: aerial work platform/bucket, air compressor, air springs, collision warning system, computerized drive train control unit, crane, hoist, idle-reducing technology, internet access, lift gate, mounting bar for snowplow, power take-off, toolbox, and winch.
- A section for transmission type was added.

Changed—

- The trip recorder or on-board computer category was broken out into categories distinguishing with or without communication capabilities.
- Categories for radial tires and road speed governor were moved from the fuel conservation equipment section to the equipment type section.
- The front-wheel drive category was moved from the driving wheels section to the equipment type section.

Deleted—

- Categories for power steering and electronic vehicle management system were dropped.

12. **Fuel Type and Engine Size** (formerly Engine Type and Size).

New—

- Respondents were permitted to report fuel combinations if used most often during the year.

Changed—

- The “Liquefied gas or other” category has been broken out into categories for natural gas, propane, alcohol fuels, electricity, and combination.

13. **Refueling Location.**

Changed—

- Response categories were changed significantly. No comparable 1997 data are available for this section.

14. **Maintenance.**

Deleted—

- The category for component distributorship was dropped from the general maintenance section.

15. **Truck Type and Axle Arrangement.**

New—

- The category “4 axles or more” for single-unit trucks and truck tractors without trailer was broken out into “4 axles” and “5 axles or more.”
- Sections for total liftable axles and locations and total liftable axles and number of braking axles were added.

Changed—

- A truck-tractor, if not in operation, was grouped with the single-unit trucks.
- The subgroupings for single-unit truck with trailer and single-unit truck with utility trailer were combined.
- The category “7 axles or more” for truck-tractors with double trailers was broken out into “7 axles” and “8 axles or more.”
- The category “8 axles or more” for truck-tractors with triple trailers was broken out into “8 axles,” “9 axles,” and “10 axles or more.”

Deleted—

- The category for trailer not specified was dropped.

16. **Cab Type.**

New—

- Categories for conventional cab or cab over engine with or without a sleeper were added.

Deleted—

- The category “Other” was dropped.

17. **Additional Changes.**

Not applicable. This category was added to some sections to make the detail lines add to total.

Primary products carried. Truck count detail lines for products carried were dropped from all tables. Distributed mileage for products carried appears in Table 8. Product mileage does not sum to 100 percent because multiple products may be carried at the same time. Products carried, which somewhat followed the SIC system, are now based on the Standard Classification of Transported Goods (SCTG).

Truck fleet size. This section was dropped from all tables.

Fuel conservation equipment. This section was dropped from all tables.

The driving wheels section for pickups, panels, vans, sport utilities and station wagons (4-wheel drive and 2-wheel drive) was dropped.

Table layout. The table layout for the 2002 state publication has changed significantly from the table layout used for the 1997 state publication. Some of the changes include:

1. Table 2 is broken out into Tables 2a (trucks, truck miles, and average annual miles for all trucks), 3a (trucks, truck miles, and average annual miles for trucks, excluding pickups, minivans, other light vans, and sport utilities), 2b (measures of sampling variability for Table 2a), and 3b (measures of sampling variability for Table 3a).
2. Tables 4, 5, 6, 7, and 8 are new:
 - a. Table 4 contains estimates of the number of trucks by vehicle size.
 - b. Table 5 contains estimates of the number of trucks by truck type.
 - c. Table 6 contains estimates of the number of miles traveled by vehicle size.
 - d. Table 7 provides estimates of the number of miles traveled by truck type.
 - e. Table 8 shows estimates of the number of truck miles distribution by operational characteristics.

EXPLANATION OF TERMS

Business. This item is based on the business or the part of the business in which the vehicle was used. The 15 specific business use categories are self-explanatory and are roughly based on NAICS sectors. Responses in the "Other" category were recoded, if possible, to one of the 15 specific business categories.

Body type. This item describes the type of body that is permanently attached to the power unit (i.e., straight or single-unit truck). For truck-tractors, the body type is defined as the type of trailer most often pulled.

Minivans. This body type category includes minivans that are manufactured on either a truck or passenger car chassis.

Annual miles. This item represents the annual miles traveled. When a respondent had partial-year ownership of the vehicle, annual miles were adjusted to reflect miles traveled when not owned by the respondent.

Vehicle size. This item is determined by the average vehicle weight (empty vehicle weight plus cargo weight) during 2002. The four size classes are:

1. **Light.** The average vehicle weight is 10,000 pounds or less.
2. **Medium.** The average vehicle weight is 10,001 to 19,500 pounds.
3. **Light-heavy.** The average vehicle weight is 19,501 to 26,000 pounds.
4. **Heavy-heavy.** The average vehicle weight is 26,001 pounds or more.

Primary operator classification. This item is defined as follows:

1. **Personal transportation.** This is a vehicle operated for personal use, such as travel to work, carpooling, pleasure driving, etc.
2. **Rental.** This is a vehicle operated for daily or short-term rental.
3. **Private.** This is a vehicle operated to carry goods owned by the respondent, or for internal company business.
4. **Motor carrier.** This is a vehicle operated by a company and hired to carry other people's goods.
5. **Owner operator.** This is a vehicle operated by an independent trucker hired to carry other people's goods.

Hazardous materials. This item identifies those trucks that transport hazardous materials in quantities large enough to have a placard on the vehicle required by 49 CFR Part 172 Subpart F.

Truck miles distribution. Table 8 shows the distribution of annual miles by the actual percentage of use for selected activities of each truck. Mileage estimates presented in all other tables of this report represent 100 percent of the individual truck's mileage based on primary activity, regardless of any secondary operational activities.

SAMPLE DESIGN

The sampling frame was constructed from files of truck registrations identified as being active as of July 1, 2002.² The frame was stratified by geography and truck characteristics. The 50 states and the District of Columbia made up the 51 geographic strata. Body type and gross vehicle weight (GVW) determined the following five truck strata: 1) pickups; 2) minivans, other light vans, and sport utilities; 3) light single-unit trucks (GVW < 26,000 lb); 4) heavy single-unit trucks (GVW ≥ 26,000 lb; and 5) truck-tractors. Therefore, the sampling frame was partitioned into 255 geographic-by-truck strata. Within each stratum, a simple random sample of truck registrations was selected without replacement. This produced a total sample of approximately 136,000 truck registrations.

The sample size for Vermont is 2,483 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 Vermont, approximately 80.1 percent of the questionnaires were returned with substantive data. *Item nonresponse* occurs either when a question is unanswered or the response to the question fails computer or analyst edits. The procedures used to account for unit and item nonresponse are discussed below.

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

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

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

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

Unpublished Estimates

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

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

CONFIDENTIALITY AND DISCLOSURE

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

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

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

SYMBOLS

The following symbols are used in this publication:

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



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

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

Vehicular and operational characteristics	2002	1997	1992	1987	Vehicular and operational characteristics	2002	1997	1992	1987
Total	100.0	100.0	100.0	100.0	MODEL YEAR				
BUSINESS¹					1 to 2 years old	16.0	14.2	11.9	23.7
Agriculture, forestry, fishing, or hunting	3.1	6.2	6.4	9.4	3 to 4 years old	18.9	20.5	18.6	21.8
Mining	S	.1	.1	.1	Over 4 years old	65.1	65.3	69.4	54.5
Construction	7.1	12.0	10.9	13.9	VEHICLE ACQUISITION				
Manufacturing	S	.6	1.2	4.8	New	44.0	41.4	47.2	50.8
Wholesale and retail trade	3.5	5.2	5.7	4.8	Used	50.2	51.5	50.6	47.2
For-hire transportation or warehousing	2.0	.7	1.3	1.6	Not reported ⁴	5.8	7.1	2.3	2.0
Utilities and all services	5.8	5.9	6.5	6.1	TRUCK TYPE				
Personal transportation	74.5	66.5	66.9	62.6	Single-unit trucks ⁵	97.4	97.7	97.6	97.7
Other, not reported, and not applicable	3.5	2.7	1.0	.4	2 axles	96.3	96.2	96.6	96.4
BODY TYPE					3 axles or more	1.1	1.4	1.1	1.3
Pickup, minivan, other light vans, and sport utility	93.0	91.8	91.3	88.9	Trailer/axles not specified	V	N	N	N
Flatbed, stake, platform, and low boy	1.2	2.2	2.7	4.2	Combinations	2.6	2.3	2.4	2.3
Van ²	1.4	1.3	1.3	1.2	3 axles .....	.6	.4	.2	.3
Service, utility .....	.3	.2	.3	.3	4 axles .....	.8	.7	.9	.8
Van, step, walk-in, or multistop .....	.7	.4	.4	.6	5 axles or more	1.0	1.2	1.3	1.1
Dump	1.8	1.8	2.0	2.8	Trailer/axles not specified .....	.1	V	V	V
Tank for liquids, gases, or dry bulk .....	.5	.6	.7	.8	RANGE OF OPERATION				
Other and not applicable	1.1	1.7	1.3	1.2	50 miles or less	74.2	74.5	76.6	78.7
VEHICLE SIZE					51 to 200 miles	8.5	16.7	15.2	13.6
Light	93.1	93.6	92.4	91.8	201 miles or more	2.9	3.9	3.7	3.1
Medium	2.3	1.8	3.0	2.4	Off-the-road, not reported, and not applicable	14.4	5.0	4.5	4.6
Light-heavy	1.2	1.1	1.3	1.5	FUEL TYPE				
Heavy-heavy	3.4	3.4	3.3	4.2	Gasoline	90.2	92.2	94.3	94.0
ANNUAL MILES					All other fuels	7.5	7.5	5.7	5.9
Less than 5,000 ³	19.0	19.3	19.4	21.9	Other, not reported, and not applicable	2.3	.3	V	.1
5,000 to 9,999	17.9	15.8	20.5	24.0					
10,000 to 19,999	45.8	42.3	43.3	37.5					
20,000 to 29,999	11.8	16.2	10.6	10.9					
30,000 or more	5.5	6.4	6.2	5.7					

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

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

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

³Includes vehicles not in use.

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

⁵Excludes truck-tractors not in use.

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

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

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

Vehicular and operational characteristics	2002	1997	Vehicular and operational characteristics	2002	1997
Total	100.0	100.0	MODEL YEAR		
BUSINESS¹			1 to 2 years old	9.4	13.6
Agriculture, forestry, fishing, or hunting	16.3	23.9	3 to 4 years old	15.7	10.4
Mining	1.4	1.2	Over 4 years old	74.9	75.9
Construction	21.2	25.6	VEHICLE ACQUISITION		
Manufacturing	1.6	1.8	New	48.1	40.2
Wholesale and retail trade	13.7	18.8	Used	47.9	52.7
For-hire transportation or warehousing	19.7	8.9	Not reported ⁴	4.0	7.1
Utilities and all services	17.4	12.7	TRUCK TYPE		
Personal transportation	S	1.8	Single-unit trucks ⁵	79.3	80.5
Other, not reported, and not applicable	8.6	5.4	2 axles	63.6	63.3
BODY TYPE			3 axles or more	15.5	17.2
Flatbed, stake, platform, and low boy	17.6	26.5	Trailer/axles not specified .....	.1	N
Van ²	19.7	16.0	Combinations	20.7	19.5
Service, utility	4.6	3.0	3 axles .....	.9	1.8
Van, step, walk-in, or multistop	9.7	5.2	4 axles	3.8	2.6
Dump	26.4	21.4	5 axles or more	14.5	15.0
Tank for liquids, gases, or dry bulk	7.0	7.4	Trailer/axles not specified	1.6	V
Other and not applicable	15.0	20.6	RANGE OF OPERATION		
VEHICLE SIZE			50 miles or less	62.7	58.9
Light	15.2	25.8	51 to 200 miles	20.0	21.5
Medium	18.9	18.3	201 miles or more	5.5	10.8
Light-heavy	17.0	14.0	Off-the-road, not reported, and not applicable	11.8	8.8
Heavy-heavy	48.9	42.0	FUEL TYPE		
ANNUAL MILES			Gasoline	26.5	38.3
Less than 5,000 ³	31.9	28.4	All other fuels	70.8	59.5
5,000 to 9,999	14.8	16.5	Other, not reported, and not applicable	2.7	2.2
10,000 to 19,999	19.8	21.8			
20,000 to 29,999	12.9	12.4			
30,000 or more	20.5	20.9			

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

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

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

³Includes vehicles not in use.

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

⁵Excludes truck-tractors not in use.

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

Table 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	244.1	194.5	25.5	3 270.4	2 673.6	22.3	13.4	13.7	-2.5
BUSINESS¹									
For-hire transportation or warehousing	4.8	1.4	235.5	170.4	108.9	56.5	35.7	76.5	-53.4
Vehicle leasing or rental	1.5	S	S	44.0	27.5	60.0	30.2	S	S
Agriculture, forestry, fishing, or hunting	7.5	12.0	-37.4	69.3	170.0	-59.2	9.2	14.2	-34.9
Mining	S	.2	S	5.3	5.8	-8.6	S	30.9	S
Utilities	1.1	1.2	-14.7	S	16.9	S	S	13.7	S
Construction	17.3	23.4	-26.0	267.5	346.6	-22.8	15.5	14.8	4.3
Manufacturing	S	1.2	S	11.0	40.7	-73.0	S	33.9	S
Wholesale trade	2.4	3.5	-30.9	54.0	102.9	-47.5	22.2	29.2	-23.9
Retail trade	6.0	6.6	-8.9	116.0	120.0	-3.3	19.3	18.2	6.2
Information services	1.7	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	4.2	N	N	47.9	N	N	11.5	N	N
Arts, entertainment, or recreation services .....	.2	N	N	.8	N	N	4.5	N	N
Accommodation or food services	2.6	N	N	35.3	N	N	13.7	N	N
Other services	4.5	N	N	55.6	N	N	12.3	N	N
Personal transportation	182.0	129.4	40.6	2 331.2	1 603.4	45.4	12.8	12.4	3.4
Not reported	1.4	V	N	18.1	V	N	12.6	V	N
Not applicable ²	5.6	4.1	36.8	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks	241.3	191.9	25.8	3 081.8	2 475.4	24.5	12.8	12.9	-1.0
Pickup	114.8	102.6	12.0	1 418.1	1 210.1	17.2	12.3	11.8	4.7
Minivan	36.1	25.2	43.4	427.7	408.6	4.7	11.8	16.2	-27.0
Other light vans	8.3	11.9	-30.0	90.3	173.3	-47.9	10.8	14.5	-25.6
Sport utility	67.7	38.9	74.1	968.2	519.2	86.5	14.3	13.3	7.1
Armored	S	N	N	S	N	N	S	N	N
Beverage .....	.3	.3	14.8	4.3	3.5	23.0	14.9	13.9	7.2
Concrete mixer .....	.1	S	S	1.2	2.5	-50.3	14.7	S	S
Concrete pumper	V	N	N	.4	N	N	V	N	N
Crane .....	.2	S	S	.6	S	S	3.7	S	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	4.4	3.3	33.3	33.8	29.0	16.4	7.7	8.8	-12.7
Flatbed, stake, or platform	2.3	3.4	-32.7	16.9	29.7	-43.3	7.4	8.8	-15.7
Low boy	V	S	S	V	S	S	V	S	S
Pole, logging, pulpwood, or pipe .....	.2	.2	10.4	2.8	3.4	-16.6	14.0	18.5	-24.4
Service, utility .....	.8	.5	65.4	7.2	3.0	141.0	9.1	6.3	45.8
Service, other .....	.4	.3	32.2	5.4	5.3	1.7	12.3	16.1	-23.1
Street sweeper	V	N	N	V	N	N	V	N	N
Tank, dry bulk	S	S	S	S	S	S	S	S	S
Tank, liquids or gases .....	.8	.8	7.4	10.1	11.4	-11.1	12.4	15.0	-17.2
Tow/Wrecker .....	.5	.6	-14.1	6.6	S	S	12.4	S	S
Trash, garbage, or recycling .....	.5	.3	92.1	11.0	7.1	54.3	22.5	28.0	-19.7
Vacuum .....	.1	N	N	1.2	N	N	12.6	N	N
Van, basic enclosed	1.2	1.4	-16.8	27.2	32.8	-16.8	23.1	23.1	V
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated .....	.4	.2	152.0	10.0	6.0	67.9	24.1	36.2	-33.4
Van, open top .....	.1	.1	67.7	1.2	.8	55.9	10.6	11.4	-7.0
Van, step, walk-in, or multistop	1.7	.8	101.5	30.4	15.2	100.5	18.4	18.5	-5
Van, other .....	.2	N	N	4.5	N	N	26.6	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	2.9	2.7	7.2	188.6	198.2	-4.9	65.6	73.9	-11.2
Automobile carrier	V	S	S	2.4	1.9	24.0	V	S	S
Beverage	S	V	S	S	S	S	S	S	S
Curtainside	V	N	N	V	N	N	V	N	N
Dump .....	.1	.1	7.8	6.2	5.5	13.1	52.1	49.6	4.9
Flatbed, stake, or platform .....	.6	.6	-8.4	36.5	56.3	-35.2	64.1	90.5	-29.2
Livestock	V	S	S	V	S	S	V	S	S
Low boy .....	.2	.2	-13.2	3.4	3.8	-10.9	19.7	19.2	2.7
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top .....	.2	S	S	10.3	S	S	67.1	S	S
Pole, logging, pulpwood, or pipe .....	.1	.1	-42.8	4.2	6.5	-35.5	52.5	46.6	12.6
Tank, dry bulk .....	.1	.1	-4.9	3.9	3.9	-2	77.8	74.1	5.0
Tank, liquids or gases .....	.3	.4	-12.8	26.5	29.3	-9.4	85.4	82.2	3.8
Van, basic enclosed	1.0	.7	55.9	70.5	58.7	20.1	68.5	88.9	-22.9
Van, drop-frame	V	S	S	3.2	S	S	V	S	S
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated .....	.2	.2	20.0	16.7	15.8	5.6	79.4	90.2	-12.0
Other	S	N	N	S	N	N	S	N	N
Not applicable ³ .....	.1	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	40.7	34.1	19.4	89.5	74.5	20.2	2.2	2.2	.7
5,000 to 9,999	43.8	30.7	42.6	316.6	201.2	57.4	7.2	6.6	10.3
10,000 to 19,999	111.9	82.2	36.1	1 512.7	1 108.4	36.5	13.5	13.5	.3
20,000 to 29,999	28.9	31.6	-8.6	638.6	713.0	-10.4	22.1	22.6	-2.0
30,000 to 49,999	8.4	9.8	-14.5	294.6	331.3	-11.1	35.1	33.8	3.9
50,000 to 74,999	2.7	.9	188.3	162.6	56.2	189.6	60.2	59.9	.4
75,000 or more	2.2	1.8	25.0	247.6	189.0	31.0	110.9	105.8	4.8
Not applicable ²	5.6	3.4	64.4	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	1.0	6.2	-83.5	1.6	40.7	-96.0	1.6	6.5	-76.0
50 miles or less	181.2	144.8	25.1	2 323.1	1 814.0	28.1	12.8	12.5	2.4
51 to 100 miles	15.0	24.4	-38.4	255.2	400.8	-36.3	17.0	16.5	3.4
101 to 200 miles	5.7	8.2	-30.3	139.2	199.0	-30.1	24.3	24.2	.3
201 to 500 miles	3.3	3.9	-14.2	86.8	134.2	-35.3	26.1	34.6	-24.6
501 miles or more	3.7	3.6	1.6	91.7	84.8	8.1	25.0	23.5	6.4
Not reported	28.6	3.4	740.4	364.7	V	N	12.8	V	N
Not applicable ²	5.6	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	V	N	N	2.9	N	N	V	N	N
Operated in Mexico	V	N	N	V	N	N	V	N	N
Operated within the home base state	210.3	N	N	2 781.1	N	N	13.2	N	N
Operated in states other than the home base state	12.8	N	N	276.2	N	N	21.6	N	N
Not reported	15.4	N	N	202.0	N	N	13.1	N	N
Not applicable ²	5.6	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	160.5	N	N	2 407.8	N	N	15.0	N	N
7 to 11	38.6	N	N	519.6	N	N	13.5	N	N
2 to 6	34.6	N	N	318.1	N	N	9.2	N	N
1 or less	4.8	N	N	16.7	N	N	3.5	N	N
Vehicle not used	5.6	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	227.3	182.1	24.8	2 890.2	2 347.3	23.1	12.7	12.9	-1.4
Medium	5.6	3.5	58.3	78.5	38.6	103.3	14.0	10.9	28.5
Light-heavy	2.9	2.2	30.4	42.2	24.7	70.9	14.5	11.1	31.1
Heavy-heavy	8.4	6.7	25.1	259.6	262.9	-1.3	31.0	39.3	-21.1
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	181.0	167.1	8.4	2 191.1	2 124.1	3.2	12.1	12.7	-4.8
6,001 to 8,500	37.4	N	N	579.3	N	N	15.5	N	N
8,501 to 10,000	8.9	N	N	119.7	N	N	13.5	N	N
10,001 to 14,000	3.4	2.1	61.4	55.8	25.1	122.5	16.6	12.0	37.8
14,001 to 16,000 .....	.7	.9	-19.2	6.3	8.0	-21.3	8.7	9.0	-2.6
16,001 to 19,500	1.5	.6	169.5	16.4	5.6	196.0	10.8	9.9	9.8
19,501 to 26,000	2.9	2.2	30.4	42.2	24.7	70.9	14.5	11.1	31.1
26,001 to 33,000	1.8	1.4	24.6	19.9	20.0	-7	11.2	14.1	-20.3
33,001 to 40,000	1.0	.8	24.7	16.2	12.3	31.4	16.0	15.1	5.4
40,001 to 50,000 .....	.7	.7	-6	11.3	22.5	-49.9	16.0	31.7	-49.6
50,001 to 60,000	1.8	1.5	19.8	26.1	48.4	-46.1	14.8	32.9	-55.0
60,001 to 80,000	2.6	2.0	29.1	162.2	142.2	14.0	62.2	70.4	-11.7
80,001 to 100,000 .....	.4	.2	73.7	23.5	15.6	50.6	58.2	67.1	-13.3
100,001 to 130,000 .....	.1	V	N	.5	1.9	-74.5	4.3	V	N
130,001 or more	V	V	N	V	V	N	V	V	N
TOTAL LENGTH (FEET)									
Less than 20.0	209.9	181.6	15.6	2 677.6	2 336.6	14.6	12.8	12.9	-9
20.0 to 27.9	21.7	6.2	250.5	295.7	73.4	303.1	13.6	11.8	15.0
28.0 to 35.9	7.4	3.4	118.3	86.2	54.0	59.7	11.6	15.8	-26.9
36.0 to 40.9	1.0	.4	171.7	18.5	5.6	230.0	17.9	14.8	21.4
41.0 to 44.9	S	.2	S	9.5	3.5	166.8	S	20.8	S
45.0 to 49.9 .....	.3	.2	75.9	3.6	5.1	-29.6	12.6	31.5	-60.0
50.0 to 54.9 .....	.3	S	S	8.0	S	S	23.1	S	S
55.0 to 59.9 .....	.6	.5	25.3	32.9	29.2	12.6	57.1	63.5	-10.1
60.0 to 64.9 .....	.9	1.1	-19.1	58.4	86.8	-32.7	65.7	79.0	-16.8
65.0 to 69.9 .....	.7	.7	6.6	54.0	58.9	-8.3	76.9	89.3	-14.0
70.0 to 74.9 .....	.3	.1	155.9	25.3	10.2	147.6	84.7	87.6	-3.3
75.0 to 79.9	S	N	N	S	N	N	S	N	N
80.0 or more	V	N	N	V	N	N	V	N	N
MILES PER GALLON									
Less than 5	2.3	2.1	10.7	58.0	52.7	10.0	25.1	25.3	-6
5 to 6.9	4.8	5.0	-5.0	171.3	193.4	-11.4	35.9	38.5	-6.8
7 to 8.9	2.5	4.4	-42.7	30.1	55.9	-46.1	12.1	12.8	-5.8
9 to 10.9	11.3	15.6	-27.3	111.4	137.8	-19.1	9.8	8.9	11.2
11 to 12.9	17.7	20.3	-13.1	200.7	254.2	-21.1	11.4	12.5	-9.1
13 to 14.9	21.1	20.7	1.9	219.6	277.1	-20.7	10.4	13.4	-22.2
15 or more	155.9	123.5	26.3	2 103.7	1 698.2	23.9	13.5	13.8	-1.9
15 to 20.9	108.8	86.8	25.4	1 440.6	1 194.0	20.7	13.2	13.8	-3.8
21 to 24.9	28.4	29.7	-4.3	400.0	406.7	-1.6	14.1	13.7	2.8
25 or more	18.7	7.0	166.5	263.2	97.6	169.5	14.1	13.9	1.2
Not reported	22.9	3.0	671.3	367.4	4.2	8 607.5	16.0	1.4	1 028.9
Not applicable ²	5.6	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	2.8	N	N	23.4	N	N
2002	17.9	N	N	255.9	N	N	14.3	N	N
2001	21.0	N	N	321.7	N	N	15.3	N	N
2000	23.4	N	N	391.5	N	N	16.8	N	N
1999	22.8	N	N	389.2	N	N	17.1	N	N
1998	22.3	S	S	351.8	S	S	15.8	S	S
1997	16.5	11.1	48.8	262.7	188.1	39.7	15.9	17.0	-6.2
1996	15.0	15.8	-5.4	265.2	311.7	-14.9	17.7	19.7	-10.1
1995	11.7	22.0	-46.7	211.8	404.2	-47.6	18.1	18.4	-1.7
1994	14.2	17.9	-20.6	171.8	302.0	-43.1	12.1	16.9	-28.3
1993	13.1	11.8	11.1	126.0	214.3	-41.2	9.6	18.2	-47.1
Pre-1993	66.2	115.3	-42.6	520.0	1 237.6	-58.0	7.9	10.7	-26.8
VEHICLE ACQUISITION									
New	107.4	80.6	33.3	1 644.2	1 273.2	29.1	15.3	15.8	-3.1
Used	122.5	100.2	22.3	1 440.6	1 171.0	23.0	11.8	11.7	.6
Not reported	14.2	13.8	3.4	185.7	229.3	-19.0	13.0	16.6	-21.7
LEASE CHARACTERISTICS									
Leased	14.5	N	N	254.0	N	N	17.5	N	N
Lessee	11.8	N	N	182.2	N	N	15.5	N	N
Vehicle only	1.0	N	N	30.7	N	N	29.7	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	10.7	N	N	151.5	N	N	14.1	N	N
Lessor	1.3	N	N	53.1	N	N	40.4	N	N
Vehicle only .....	.8	N	N	43.1	N	N	53.0	N	N
Vehicle with driver	V	N	N	2.4	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not applicable ⁴	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	124.8	N	N	1 691.7	N	N	13.6	N	N
Not reported	104.8	N	N	1 324.7	N	N	12.6	N	N
Length of leasing agreement:									
Leased	14.5	N	N	254.0	N	N	17.5	N	N
1 to 11 months	S	N	N	S	N	N	S	N	N
12 months or more	1.8	N	N	75.5	N	N	41.0	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁴	12.6	N	N	177.5	N	N	14.1	N	N
Provisions of lease ⁵ :									
Financing only	1.0	N	N	28.2	N	N	29.4	N	N
Full maintenance	1.0	N	N	51.9	N	N	52.5	N	N
Payment of taxes .....	.7	N	N	38.1	N	N	53.6	N	N
Obtaining licenses and permits .....	.7	N	N	35.7	N	N	53.6	N	N
Recordkeeping .....	.1	N	N	6.4	N	N	57.9	N	N
Fuel contract .....	.1	N	N	5.4	N	N	63.8	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	48.5	N	N	649.9	N	N	13.4	N	N
Motor carrier	4.3	N	N	176.7	N	N	41.5	N	N
Owner operator	2.3	N	N	59.7	N	N	25.9	N	N
Rental	1.5	N	N	44.7	N	N	30.2	N	N
Personal transportation	182.0	N	N	2 331.2	N	N	12.8	N	N
Not applicable ²	5.6	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	2.1	N	N	105.0	N	N	50.1	N	N
Common	2.1	N	N	75.3	N	N	35.7	N	N
Not reported .....	.5	N	N	12.9	N	N	27.0	N	N
Not applicable ⁶	239.5	N	N	3 077.2	N	N	12.9	N	N
Type of service:									
Truckload	2.7	1.0	164.3	130.2	81.2	60.3	49.1	81.0	-39.3
Less-than truckload	1.6	.3	502.7	51.5	15.0	242.6	33.0	58.0	-43.2
Not reported .....	.5	N	N	11.5	N	N	24.5	N	N
Not applicable ⁶	239.5	N	N	3 077.2	N	N	12.9	N	N
Source of hauls:									
Shippers or receivers	3.3	N	N	142.4	N	N	43.7	N	N
Brokers .....	.2	N	N	15.3	N	N	61.8	N	N
Centralized markets or exchanges .....	.1	N	N	3.1	N	N	39.4	N	N
Other .....	.1	N	N	V	N	N	V	N	N
Not reported	1.1	N	N	32.4	N	N	29.6	N	N
Not applicable ⁶	239.5	N	N	3 077.2	N	N	12.9	N	N
HAZARDOUS MATERIALS CARRIED⁷									
Carrying hazardous materials	1.0	.9	6.7	29.9	27.0	10.5	30.7	29.7	3.5
Not carrying hazardous materials	13.4	13.4	.2	282.1	310.9	-9.3	21.0	23.2	-9.4
Not reported	1.7	1.8	-6.7	27.5	26.1	5.4	16.0	14.1	13.0
Not applicable ⁸	228.0	N	N	2 931.0	N	N	12.9	N	N
EQUIPMENT TYPE^{5 9}									
Aerial work platform/bucket .....	.7	N	N	6.8	N	N	10.2	N	N
Air bag(s) (safety device only)	142.2	52.7	169.8	2 131.9	919.0	132.0	15.0	17.4	-14.0
Air compressor (except air brakes) .....	.6	N	N	21.8	N	N	36.6	N	N
Air-conditioning	167.6	85.2	96.8	2 422.9	1 456.0	66.4	14.5	17.1	-15.5
Air springs	1.6	N	N	113.0	N	N	69.2	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE^{5 9}—Con.									
Antilock brake system	146.5	79.4	84.7	2 233.8	1 286.9	73.6	15.2	16.2	-6.0
Collision warning system .....	.1	N	N	S	N	N	S	N	N
Computerized drive train control unit	25.1	N	N	383.0	N	N	15.3	N	N
Crane .....	.5	N	N	6.4	N	N	13.2	N	N
Electronic vehicle identification device	S	.2	S	S	13.9	S	S	68.6	S
Engine retarder/brake	4.7	3.7	29.4	197.0	172.6	14.2	41.5	47.1	-11.8
Front-wheel drive	165.9	45.5	264.2	2 242.9	592.4	278.6	13.5	13.0	3.9
Hoist	2.6	N	N	26.0	N	N	10.2	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	1.0	N	N	35.5	N	N	36.4	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate .....	.7	N	N	11.8	N	N	15.8	N	N
Mounting bar for snowplow	17.7	N	N	235.4	N	N	13.3	N	N
Navigational system	S	S	S	S	S	S	S	S	S
Power take-off	5.9	N	N	103.6	N	N	17.5	N	N
Radial tires	170.8	157.7	8.4	2 399.7	2 299.8	4.3	14.0	14.6	-3.7
Reflective material in addition to those required by law	2.8	2.6	8.6	80.4	96.4	-16.7	28.5	37.2	-23.3
Road speed governor	4.3	4.3	-1.5	161.0	167.4	-3.8	37.6	38.5	-2.3
Toolbox	19.5	N	N	292.3	N	N	15.0	N	N
Trip recorder or on-board computer with communication capabilities	8.8	N	N	168.8	N	N	19.1	N	N
Trip recorder or on-board computer without communication capabilities	36.9	N	N	483.6	N	N	13.1	N	N
Vehicle control aids for handicapped drivers	S	S	S	S	S	S	S	S	S
Wheelchair lift	S	V	S	S	V	S	S	V	S
Winch	2.8	N	N	40.0	N	N	14.3	N	N
Transmission type:									
Automatic	161.8	N	N	2 154.3	N	N	13.3	N	N
Manual	79.4	N	N	1 075.9	N	N	13.6	N	N
Semiautomated manual	S	N	N	S	N	N	S	N	N
Automated manual	V	N	N	V	N	N	V	N	N
Not reported	3.0	N	N	38.0	N	N	12.9	N	N
Braking system:									
Hydraulic (standard)	4.2	3.5	22.7	49.8	37.2	34.1	11.8	10.8	9.3
Hydraulic with power assist	3.7	3.7	-1.8	42.4	49.9	-15.0	11.6	13.4	-13.5
Air	8.4	7.6	11.4	257.1	263.6	-2.4	30.5	34.9	-12.4
Other	V	.2	N	V	2.4	N	V	11.3	N
Not reported .....	.8	N	N	16.8	N	N	21.4	N	N
Not applicable ¹⁰	227.0	N	N	2 904.2	N	N	12.8	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	220.3	179.3	22.8	2 825.6	2 304.5	22.6	12.8	12.8	-2
Diesel	18.2	14.4	26.1	434.4	365.3	18.9	23.9	25.3	-5.7
Natural gas	S	N	N	S	N	N	S	N	N
Propane .....	.1	N	N	1.6	N	N	16.4	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	S	N	N	S	N	N	S	N	N
Not applicable ²	5.6	N	N	S	N	N	S	N	N
Cylinders¹¹:									
4 cylinders	42.9	38.0	12.7	573.7	493.5	16.3	13.4	13.0	3.1
6 cylinders	123.0	95.8	28.5	1 741.1	1 512.4	15.1	14.2	15.8	-10.4
8 cylinders	74.3	55.8	33.2	930.6	646.2	44.0	12.5	11.6	8.2
Other	3.9	4.9	-20.3	25.0	21.5	16.2	6.4	4.4	45.8
Cubic inch displacement¹¹:									
Gasoline fuel	220.3	179.3	22.8	2 825.6	2 304.5	22.6	12.8	12.8	-2
Less than 200	63.6	67.5	-5.7	841.4	881.3	-4.5	13.2	13.1	1.3
200 to 299	94.7	47.9	97.6	1 247.8	689.3	81.0	13.2	14.4	-8.4
300 to 349	32.6	27.8	17.0	373.6	308.1	21.3	11.5	11.1	3.6
350 to 399	23.0	28.8	-20.1	268.0	386.5	-30.6	11.6	13.4	-13.2
400 or more	4.6	3.3	41.3	30.9	8.4	S	S	9.4	S
Not available	1.7	4.0	-57.0	S	S	S	S	2.1	S
Diesel fuel	18.2	14.4	26.1	434.4	365.3	18.9	23.9	25.3	-5.7
Less than 400	3.6	3.8	-5.5	62.6	53.1	18.0	17.3	13.9	24.9
400 to 599	8.7	4.7	87.1	141.5	69.4	103.9	16.2	14.9	9.0
600 to 799	2.5	2.5	.3	96.4	101.5	-5.0	38.9	41.0	-5.3
800 or more	2.1	2.0	6.5	108.9	119.3	-8.7	52.1	60.8	-14.3
Not available	1.3	1.5	-15.7	24.9	22.0	13.6	19.9	14.8	34.7
Other fuel .....	.1	.1	-9.8	2.0	2.2	-10.6	19.1	19.3	-1.0
Less than 400	V	S	S	V	S	S	V	S	S
400 or more	V	S	S	V	S	S	V	S	S
Not available	V	S	S	V	S	S	V	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ²	5.6	N	N	S	N	N	S	N	N
REFUELING LOCATION									
Gas station	215.1	N	N	2 816.3	N	N	13.1	N	N
Truck stop	4.7	N	N	141.4	N	N	30.2	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	11.8	N	N	211.9	N	N	17.9	N	N
Other company's/contractor's facility not open to the public	1.5	N	N	25.5	N	N	17.2	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported	5.5	N	N	67.1	N	N	12.3	N	N
Not applicable ²	5.6	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁵									
General maintenance performed by:									
None performed	4.9	S	S	29.0	S	S	5.9	S	S
Company-owned maintenance facility	22.9	13.7	67.7	440.9	284.1	55.2	19.2	20.8	-7.4
General repair business or private mechanic	107.9	71.2	51.6	1 522.1	999.6	52.3	14.1	14.0	.4
Dealership service department	67.8	46.4	46.1	991.6	710.1	39.7	14.6	15.3	-4.4
Leasing company .....	.4	1.8	-80.3	17.3	42.6	-59.4	48.7	23.7	105.7
Individual not employed/paid by any maintenance type facility	82.7	85.4	-3.1	1 094.6	1 074.5	1.9	13.2	12.6	5.1
Other	V	1.5	N	V	S	S	V	S	S
Not reported	6.8	8.0	-15.0	78.1	69.1	13.1	11.4	8.6	33.0
Not applicable ²	5.6	N	N	S	N	N	S	N	N
Extensive repairs performed by:									
None performed	196.0	7.2	2 635.3	2 611.4	95.5	2 633.7	13.3	13.3	-1
Company-owned maintenance facility	1.8	5.6	-68.3	43.0	110.6	-61.2	24.1	19.6	22.5
General repair business or private mechanic	16.7	47.0	-64.5	201.6	632.8	-68.1	12.1	13.5	-10.2
Dealership service department	11.2	40.6	-72.3	202.2	709.9	-71.5	18.0	17.5	2.9
Leasing company	S	S	S	S	32.4	S	S	S	S
Component distributorship (engine, transmission, body, etc.)	2.0	2.4	-16.1	24.1	50.2	-52.0	11.9	20.7	-42.7
Individual not employed/paid by any repair type facility	5.6	21.0	-73.4	S	236.1	S	S	11.2	S
Other	V	S	S	V	S	S	V	S	S
Not reported	S	78.6	S	S	977.4	S	S	12.4	S
Not applicable ²	5.6	N	N	S	N	N	S	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer	237.8	190.0	25.2	3 060.4	2 451.5	24.8	12.9	12.9	-3
2 axles	235.1	187.2	25.6	3 020.1	2 410.5	25.3	12.8	12.9	-2
3 axles	2.2	2.5	-11.4	29.5	35.8	-17.6	13.1	14.1	-7.0
4 axles .....	.5	.2	124.7	10.2	5.1	98.4	22.5	25.5	-11.7
5 axles or more	V	N	N	V	N	N	N	N	N
Not reported	S	V	S	S	V	S	S	V	S
Combinations	6.3	4.6	38.1	210.0	222.1	-5.4	33.3	48.7	-31.5
Single-unit trucks with trailer	3.5	1.9	85.6	21.4	23.9	-10.3	6.1	12.7	-51.7
3 axles	S	S	S	S	S	S	S	S	S
4 axles	1.8	1.1	60.8	6.5	6.3	3.2	3.6	5.7	-35.9
5 axles or more .....	.1	.1	73.6	3.5	2.5	40.0	24.9	30.9	-19.3
Not reported	S	N	N	S	N	N	S	N	N
Truck-tractors with single trailer	2.8	2.7	5.2	188.5	197.5	-4.6	67.2	74.1	-9.3
3 axles	S	S	S	S	S	S	S	S	S
4 axles .....	.3	.2	41.5	12.2	10.3	18.2	46.4	55.6	-16.4
5 axles or more	2.3	2.3	1.1	161.7	167.3	-3.3	69.5	72.7	-4.4
Not reported .....	.2	N	N	14.1	N	N	77.6	N	N
Truck-tractors with double trailers	S	S	S	S	S	S	S	S	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	S	S	V	S	S	V	S	S
8 axles or more	V	S	S	V	S	S	V	S	S
Not reported	V	N	N	V	N	N	V	N	N
Truck-tractors with triple trailers	V	V	N	V	V	N	V	V	N
7 axles	V	V	N	V	V	N	V	V	N
8 axles	V	V	N	V	V	N	V	V	N
9 axles	V	V	N	V	V	N	V	V	N
10 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	N	N	V	N	N
Driving axles:									
1	71.2	90.0	-20.9	797.0	1 193.6	-33.2	11.2	13.3	-15.6
2	172.9	104.5	65.5	2 471.1	1 478.5	67.1	14.3	14.2	1.0
3 or more	S	.1	S	S	1.5	S	S	17.4	S
Not reported	V	V	N	2.2	V	N	V	V	N
Total liftable axles and locations ¹² :									
None	16.4	5.5	199.7	348.8	133.4	161.5	21.2	24.3	-12.7
1 .....	.6	.3	111.8	14.5	8.8	66.1	24.8	31.6	-21.6
Forward of the drive axle .....	.3	N	N	8.5	N	N	25.7	N	N
Below the chassis .....	.2	N	N	3.7	N	N	22.2	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported .....	.1	N	N	2.0	N	N	26.7	N	N
2 or more	V	S	S	V	S	S	V	S	S
Forward of the drive axle	V	V	N	V	N	N	V	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	2.8	N	N	37.5	N	N
Not applicable ¹⁰	227.0	N	N	2 904.2	N	N	12.8	N	N
Total liftable axles and number of braking axles:									
None	16.4	5.5	199.7	348.8	133.4	161.5	21.2	24.3	-12.7
1 .....	.6	.3	111.8	14.5	8.8	66.1	24.8	31.6	-21.6
0 braking .....	.1	N	N	1.4	N	N	19.8	N	N
1 braking .....	.5	N	N	13.1	N	N	25.7	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	V	S	S	V	S	S	V	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	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	2.8	N	N	37.5	N	N
Not applicable ¹⁰	227.0	N	N	2 904.2	N	N	12.8	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
CAB TYPE									
Conventional cab	15.0	13.2	13.4	318.4	311.6	2.2	21.2	23.5	-9.9
With sleeper	1.4	N	N	123.0	N	N	85.4	N	N
Without sleeper	13.5	N	N	192.6	N	N	14.2	N	N
Not reported	V	N	N	2.8	N	N	V	N	N
Cab over engine	2.0	1.4	49.0	47.3	27.4	72.4	23.4	20.2	15.7
With sleeper .....	.1	N	N	5.5	N	N	44.4	N	N
Without sleeper	1.9	N	N	41.8	N	N	22.0	N	N
Not reported	V	N	N	V	N	N	V	N	N
Cab forward of engine	V	.3	N	S	7.4	S	S	25.9	S
Cab beside engine	S	.1	S	V	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹⁰	227.0	N	N	2 904.2	N	N	12.8	N	N

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

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 .....	.8	.8	1.4	3.6	2.7	5.5	3.5	2.6	4.2
BUSINESS									
For-hire transportation or warehousing	19.7	6.4	69.5	8.7	6.1	16.6	14.2	5.0	7.0
Vehicle leasing or rental	45.2	S	S	31.7	47.5	91.3	17.9	S	S
Agriculture, forestry, fishing, or hunting	19.7	13.1	14.8	22.6	16.3	11.4	14.6	10.3	11.6
Mining	S	21.2	S	26.9	26.4	34.5	S	25.4	S
Utilities	45.8	40.7	52.3	S	46.7	S	S	11.2	S
Construction	14.1	9.5	12.6	17.1	12.1	16.2	7.8	7.2	11.0
Manufacturing	S	43.8	S	32.0	43.3	14.5	S	14.2	S
Wholesale trade	33.7	22.4	27.9	39.2	27.4	25.1	24.9	17.3	23.1
Retail trade	24.5	18.5	28.0	28.2	23.9	35.7	12.4	16.4	21.8
Information services	47.7	N	N	S	N	N	S	N	N
Waste management, landscaping, or administrative/support services	27.6	N	N	26.5	N	N	16.6	N	N
Arts, entertainment, or recreation services	31.2	N	N	45.6	N	N	33.2	N	N
Accommodation or food services	40.4	N	N	38.1	N	N	16.2	N	N
Other services	30.8	N	N	43.5	N	N	30.1	N	N
Personal transportation	2.4	2.6	5.0	5.1	4.0	9.4	4.5	3.0	5.6
Not reported	46.8	N	N	43.7	N	N	10.1	N	N
Not applicable ¹	27.5	25.7	51.5	S	S	S	S	S	S
BODY TYPE									
Single-unit trucks .....	.8	.8	1.4	3.8	2.8	5.9	3.7	2.7	4.5
Pickup	1.3	1.4	2.1	6.7	4.0	9.1	6.6	3.8	8.0
Minivan	9.4	9.1	18.8	11.1	10.6	16.1	5.8	5.5	5.8
Other light vans	22.7	14.7	19.0	28.2	22.2	18.7	16.7	16.6	17.5
Sport utility	5.4	6.5	14.7	8.1	8.4	21.8	6.1	5.3	8.7
Armored	S	N	N	S	N	N	S	N	N
Beverage	24.8	28.0	42.9	28.5	31.1	51.8	14.0	13.6	20.9
Concrete mixer	27.8	N	N	30.5	49.6	28.9	12.3	S	S
Concrete pumper	41.5	S	S	41.9	N	N	5.3	N	N
Crane	25.6	S	S	43.9	S	S	33.7	S	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	4.8	5.9	10.2	6.7	7.1	11.4	5.7	6.2	7.4
Flatbed, stake, or platform	7.8	6.3	6.8	11.9	9.2	8.5	9.1	7.0	9.7
Low boy	N	S	S	N	S	S	N	S	S
Pole, logging, pulpwood, or pipe	22.1	21.7	34.2	31.2	22.7	32.2	21.2	21.4	22.8
Service, utility	14.8	20.4	41.6	17.8	24.5	72.9	9.9	14.8	25.9
Service, other	19.7	24.2	41.2	26.6	29.4	40.3	18.1	17.5	19.3
Street sweeper	N	N	N	N	N	N	N	N	N
Tank, dry bulk	S	S	S	S	S	S	S	S	S
Tank, liquids or gases	13.2	14.2	20.8	17.0	18.0	21.9	11.8	11.9	13.9
Tow/Wrecker	17.5	48.0	43.9	22.2	S	S	13.1	S	S
Trash, garbage, or recycling	15.9	22.7	53.3	16.4	39.2	65.6	9.8	31.5	26.5
Vacuum	35.4	N	N	47.6	N	N	23.6	N	N
Van, basic enclosed	11.0	32.3	28.4	13.7	30.5	27.8	8.4	9.0	12.3
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	20.0	32.3	77.4	25.8	21.3	56.2	15.9	16.0	15.0
Van, open top	35.5	38.2	87.5	46.0	44.1	99.3	41.6	34.3	50.2
Van, step, walk-in, or multistop	29.2	15.3	66.4	33.3	22.1	80.1	7.2	15.9	17.3
Van, other	31.7	N	N	41.6	N	N	26.1	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	3.4	8.3	9.6	4.6	10.6	11.0	3.3	5.9	6.0
Automobile carrier	46.3	S	S	48.1	48.9	85.1	14.0	S	S
Beverage	S	45.4	S	S	S	S	S	S	S
Curtainside	N	N	N	N	N	N	N	N	N
Dump	22.2	20.7	32.7	28.9	23.9	42.4	18.8	11.9	23.4
Flatbed, stake, or platform	9.8	24.9	24.5	12.1	35.0	24.0	7.0	11.0	9.3
Livestock	N	S	S	N	S	S	N	S	S
Low boy	18.7	18.1	22.6	28.3	22.4	32.1	21.1	16.2	27.3
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	19.4	S	S	21.3	S	S	8.6	S	S
Pole, logging, pulpwood, or pipe	27.9	18.4	19.1	32.3	21.4	25.0	16.0	10.9	21.8
Tank, dry bulk	35.0	30.1	43.9	36.6	31.6	48.3	11.1	9.6	15.4
Tank, liquids or gases	13.8	11.1	15.5	15.7	12.9	18.4	7.5	6.4	10.2
Van, basic enclosed	7.4	8.2	17.2	8.1	8.9	14.4	5.0	5.3	5.6
Van, drop-frame	37.8	S	S	46.7	S	S	27.9	S	S
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	19.3	16.2	30.3	19.0	18.0	27.6	11.0	7.8	11.9
Other	S	N	N	S	N	N	S	N	N
Not applicable ²	30.8	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	9.2	7.9	14.5	11.3	9.8	18.0	6.3	5.7	8.5
5,000 to 9,999	9.1	8.7	18.0	9.4	8.9	20.4	2.0	2.0	3.1
10,000 to 19,999	4.7	4.4	8.8	4.8	4.6	9.1	1.2	1.2	1.7
20,000 to 29,999	11.6	8.7	13.3	11.6	8.7	13.0	1.4	1.2	1.8
30,000 to 49,999	21.3	15.9	22.8	21.4	16.0	23.7	3.7	2.4	4.6
50,000 to 74,999	34.5	31.5	134.7	34.5	32.3	136.9	4.1	1.3	4.3
75,000 or more	30.0	19.4	44.7	32.3	17.0	47.8	5.3	4.7	7.4
Not applicable ¹	27.5	28.4	65.0	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	46.7	20.3	8.4	29.2	29.5	1.6	26.6	20.8	8.1
50 miles or less	2.6	2.3	4.3	5.1	3.7	8.1	4.3	2.9	5.4
51 to 100 miles	15.8	9.8	11.4	16.0	11.0	12.4	7.9	5.9	10.2
101 to 200 miles	25.7	17.3	21.6	21.3	16.7	18.9	14.2	10.0	17.5
201 to 500 miles	34.0	25.5	36.5	30.0	22.7	24.3	24.4	16.3	22.1
501 miles or more	33.5	26.4	43.3	30.4	17.8	38.1	22.2	15.6	28.9
Not reported	11.8	28.4	258.5	15.1	N	N	9.8	N	N
Not applicable ¹	27.5	N	N	S	N	N	S	N	N
PRIMARY JURISDICTION									
Operated in Canada	41.6	N	N	44.4	N	N	14.3	N	N
Operated in Mexico	N	N	N	N	N	N	N	N	N
Operated within the home base state	1.9	N	N	4.3	N	N	3.9	N	N
Operated in states other than the home base state	17.5	N	N	15.9	N	N	10.7	N	N
Not reported	16.3	N	N	17.2	N	N	7.3	N	N
Not applicable ¹	27.5	N	N	S	N	N	S	N	N
MONTHS OPERATED									
12	3.1	N	N	4.6	N	N	3.5	N	N
7 to 11	9.7	N	N	15.9	N	N	12.9	N	N
2 to 6	10.3	N	N	14.3	N	N	9.7	N	N
1 or less	28.9	N	N	48.4	N	N	38.2	N	N
Vehicle not used	27.5	N	N	S	N	N	S	N	N
VEHICLE SIZE									
Light	1.0	.8	1.6	4.1	2.9	6.2	3.9	2.8	4.8
Medium	19.0	13.7	37.0	24.6	13.7	57.3	14.7	9.5	22.5
Light-heavy	17.1	27.4	42.2	24.7	37.4	76.6	9.9	19.0	28.1
Heavy-heavy	2.5	4.6	6.6	3.4	8.1	8.7	3.5	6.2	5.6
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	2.5	1.3	3.0	4.6	3.1	5.7	3.9	2.8	4.6
6,001 to 8,500	10.2	N	N	16.2	N	N	12.4	N	N
8,501 to 10,000	20.8	N	N	24.2	N	N	9.7	N	N
10,001 to 14,000	28.1	17.8	53.7	34.0	18.0	85.7	18.7	14.0	32.1
14,001 to 16,000	15.1	34.2	30.2	21.5	33.1	31.0	15.7	11.3	18.8
16,001 to 19,500	32.3	17.3	98.7	21.8	20.9	89.5	16.6	15.3	24.8
19,501 to 26,000	17.1	27.4	42.2	24.7	37.4	76.6	9.9	19.0	28.1
26,001 to 33,000	9.1	10.4	17.3	14.5	16.9	22.1	11.0	13.3	13.8
33,001 to 40,000	11.3	12.7	21.1	16.3	24.4	38.6	13.8	21.5	26.9
40,001 to 50,000	11.7	9.5	15.0	20.1	12.2	11.8	15.9	10.3	9.5
50,001 to 60,000	5.9	14.4	18.6	8.5	40.3	22.2	6.9	30.8	14.2
60,001 to 80,000	3.7	8.3	11.7	5.0	5.6	8.6	3.5	5.0	5.4
80,001 to 100,000	12.7	14.1	32.9	14.5	17.5	34.2	8.5	10.4	11.7
100,001 to 130,000	35.8	40.6	N	48.5	43.9	16.7	48.6	17.0	N
130,001 or more	N	N	N	N	N	N	N	N	N
TOTAL LENGTH (FEET)									
Less than 20.0	1.7	.9	2.2	4.5	2.9	6.2	4.2	2.8	5.0
20.0 to 27.9	12.4	10.3	56.4	14.2	13.7	79.3	6.7	7.6	11.7
28.0 to 35.9	20.7	19.9	62.8	20.0	20.9	46.2	10.4	14.7	13.2
36.0 to 40.9	11.6	16.4	54.5	21.4	18.9	94.3	18.3	11.9	26.5
41.0 to 44.9	S	25.4	S	20.0	28.5	92.7	S	20.5	S
45.0 to 49.9	19.8	20.7	50.4	21.6	24.6	23.0	16.4	19.1	10.0
50.0 to 54.9	17.7	S	S	25.3	S	S	21.2	S	S
55.0 to 59.9	10.9	10.6	19.0	13.3	12.1	20.2	8.5	8.2	10.6
60.0 to 64.9	7.8	14.6	13.4	8.9	22.9	16.5	5.6	9.4	9.1
65.0 to 69.9	8.8	8.3	12.9	10.1	8.9	12.3	5.0	5.1	6.1
70.0 to 74.9	13.5	20.0	61.9	14.8	23.3	68.3	6.1	11.8	12.9
75.0 to 79.9	S	N	N	S	N	N	S	N	N
80.0 or more	N	N	N	N	N	N	N	N	N
MILES PER GALLON									
Less than 5	5.8	11.3	14.0	7.8	12.7	16.4	6.7	8.7	10.9
5 to 6.9	4.1	10.0	10.3	5.0	10.8	10.6	4.5	10.7	10.8
7 to 8.9	7.4	12.7	8.4	11.9	17.8	11.5	9.5	8.6	12.1
9 to 10.9	17.8	12.3	15.7	22.9	15.2	22.2	15.8	10.2	20.9
11 to 12.9	15.0	10.8	16.1	21.4	14.5	20.4	15.1	9.6	16.3
13 to 14.9	14.1	11.2	18.3	16.9	14.6	17.7	9.3	9.4	10.3
15 or more	3.2	2.8	5.3	5.1	4.1	8.1	4.0	3.0	4.9
15 to 20.9	4.8	4.2	8.0	7.0	5.7	10.9	5.1	3.8	6.1
21 to 24.9	11.9	9.1	14.3	14.7	10.6	17.8	8.8	5.4	10.6
25 or more	15.2	19.9	66.6	17.2	22.2	75.7	8.1	10.1	13.1
Not reported	13.1	29.2	246.8	21.0	27.3	3 004.4	16.8	39.5	484.4
Not applicable ¹	27.5	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicle and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	31.4	N	N	35.9	N	N	27.6	N	N
2002	15.3	N	N	16.7	N	N	7.3	N	N
2001	14.0	N	N	14.0	N	N	5.7	N	N
2000	13.1	N	N	13.9	N	N	7.5	N	N
1999	13.2	N	N	13.3	N	N	6.0	N	N
1998	13.5	S	S	14.3	S	S	5.9	S	S
1997	15.8	15.5	32.9	16.6	16.1	32.3	7.7	8.7	10.9
1996	16.9	12.8	20.0	20.0	13.2	20.4	11.4	7.3	12.2
1995	18.8	10.7	11.5	28.9	12.6	16.5	22.2	7.7	23.1
1994	17.2	12.0	16.6	18.6	13.5	13.1	8.2	7.1	7.8
1993	18.1	15.0	26.1	25.5	14.9	17.4	18.5	6.4	10.4
Pre-1993	6.8	3.2	4.3	15.5	4.7	6.8	13.9	3.5	10.5
VEHICLE ACQUISITION									
New	4.8	4.5	8.8	6.1	5.5	10.6	4.2	3.7	5.4
Used	4.3	3.7	6.9	7.6	5.5	11.5	6.3	4.0	7.5
Not reported	17.2	13.6	22.6	18.3	14.3	18.8	8.7	7.2	8.8
LEASE CHARACTERISTICS									
Leased	16.3	N	N	14.2	N	N	6.0	N	N
Lessee	18.6	N	N	18.1	N	N	6.5	N	N
Vehicle only	10.8	N	N	11.6	N	N	9.0	N	N
Vehicle with driver	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ³	20.3	N	N	21.7	N	N	7.4	N	N
Lessor	36.7	N	N	18.2	N	N	23.0	N	N
Vehicle only	12.2	N	N	13.7	N	N	9.3	N	N
Vehicle with driver	46.3	N	N	49.3	N	N	15.8	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not applicable ³	S	N	N	S	N	N	S	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	4.2	N	N	6.8	N	N	5.4	N	N
Not reported	5.0	N	N	7.1	N	N	5.1	N	N
Length of leasing agreement:									
Leased	16.3	N	N	14.2	N	N	6.0	N	N
1 to 11 months	S	N	N	S	N	N	S	N	N
12 months or more	7.9	N	N	9.0	N	N	6.8	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ³	18.7	N	N	19.9	N	N	6.7	N	N
Provisions of lease:									
Financing only	11.6	N	N	12.8	N	N	10.1	N	N
Full maintenance	10.5	N	N	11.6	N	N	7.8	N	N
Payment of taxes	13.2	N	N	14.8	N	N	10.3	N	N
Obtaining licenses and permits	13.5	N	N	15.4	N	N	10.9	N	N
Recordkeeping	27.1	N	N	26.8	N	N	14.4	N	N
Fuel contract	26.5	N	N	29.2	N	N	13.9	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	7.8	N	N	9.8	N	N	5.8	N	N
Motor carrier	19.3	N	N	13.6	N	N	10.2	N	N
Owner operator	29.4	N	N	25.6	N	N	15.5	N	N
Rental	44.5	N	N	31.2	N	N	17.6	N	N
Personal transportation	2.4	N	N	5.1	N	N	4.5	N	N
Not applicable ¹	27.5	N	N	S	N	N	S	N	N
For-hire characteristics:									
Type of carrier:									
Contract	22.9	N	N	11.5	N	N	13.8	N	N
Common	7.1	N	N	7.9	N	N	6.2	N	N
Not reported	16.1	N	N	20.5	N	N	17.6	N	N
Not applicable ⁴ .....	.8	N	N	3.8	N	N	3.7	N	N
Type of service:									
Truckload	5.5	7.5	24.6	5.6	7.5	15.0	4.5	5.2	4.2
Less-than truckload	30.7	18.4	215.7	21.7	18.0	96.6	13.5	17.4	12.5
Not reported	16.7	N	N	21.6	N	N	19.0	N	N
Not applicable ⁴ .....	.8	N	N	3.8	N	N	3.7	N	N
Source of hauls:									
Shippers or receivers	15.1	N	N	9.0	N	N	8.7	N	N
Brokers	18.8	N	N	18.0	N	N	12.1	N	N
Centralized markets or exchanges	34.6	N	N	43.7	N	N	36.0	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	10.2	N	N	11.8	N	N	9.6	N	N
Not applicable ⁴ .....	.8	N	N	3.8	N	N	3.7	N	N
HAZARDOUS MATERIALS CARRIED⁵									
Carrying hazardous materials	11.8	12.5	18.3	13.4	11.7	19.6	10.5	10.1	15.1
Not carrying hazardous materials	3.8	5.2	6.4	4.8	7.6	8.2	3.1	6.3	6.3
Not reported	8.6	9.0	11.7	12.6	11.6	18.0	11.2	10.3	17.2
Not applicable ⁶ .....	.9	N	N	4.0	N	N	3.9	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	15.9	N	N	19.0	N	N	10.2	N	N
Air bag(s) (safety device only)	3.6	6.2	19.2	5.1	7.1	20.3	3.7	4.0	4.6
Air compressor (except air brakes)	13.1	N	N	15.2	N	N	12.3	N	N
Air-conditioning	2.8	4.0	9.5	3.9	4.7	10.2	3.0	3.1	3.6
Air springs	6.1	N	N	6.6	N	N	3.8	N	N
Antilock brake system	3.5	4.6	10.7	4.9	5.7	13.0	3.6	3.4	4.7
Collision warning system	35.0	N	N	S	N	N	S	N	N
Computerized drive train control unit	12.7	N	N	14.9	N	N	8.3	N	N
Crane	16.0	N	N	19.2	N	N	12.3	N	N
Electronic vehicle identification device	S	15.1	S	S	20.8	S	S	14.2	S
Engine retarder/brake	2.9	6.2	8.8	4.1	4.8	7.1	3.5	4.7	5.1
Front-wheel drive	2.9	6.8	26.9	5.6	8.4	38.1	4.8	5.0	7.2
Hoist	6.7	N	N	9.4	N	N	7.8	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	48.1	N	N	30.2	N	N	22.3	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	14.0	N	N	19.8	N	N	13.2	N	N
Mounting bar for snowplow	14.9	N	N	30.1	N	N	25.9	N	N
Navigational system	S	S	S	S	S	S	S	S	S
Power take-off	3.8	N	N	5.4	N	N	4.7	N	N
Radial tires	2.9	1.9	3.8	5.0	3.3	6.2	4.2	2.7	4.8
Reflective material in addition to those required by law	6.2	6.5	9.8	7.3	6.6	8.2	6.2	6.4	6.8
Road speed governor	11.7	12.3	16.7	8.0	13.8	15.3	6.3	10.5	12.0
Toolbox	13.2	N	N	14.3	N	N	7.6	N	N
Trip recorder or on-board computer with communication capabilities	22.1	N	N	25.7	N	N	13.8	N	N
Trip recorder or on-board computer without communication capabilities	10.3	N	N	11.2	N	N	5.1	N	N
Vehicle control aids for handicapped drivers	S	S	S	S	S	S	S	S	S
Wheelchair lift	S	S	S	S	N	N	S	N	S
Winch	33.8	N	N	42.7	N	S	27.2	N	N
Transmission type:									
Automatic	2.9	N	N	5.7	N	N	4.9	N	N
Manual	5.7	N	N	6.6	N	N	4.4	N	N
Semiautomated manual	S	N	N	S	N	N	S	N	N
Automated manual	N	N	N	N	N	N	N	N	N
Not reported	35.3	N	N	31.1	N	N	19.5	N	N
Braking system:									
Hydraulic (standard)	5.2	6.3	10.0	8.6	9.7	17.4	6.9	8.1	11.6
Hydraulic with power assist	13.8	13.1	18.7	23.9	20.3	26.7	11.7	9.7	13.1
Air	2.5	7.0	8.3	3.6	8.2	8.7	3.5	7.8	7.5
Other	N	28.6	N	N	37.3	N	N	28.8	N
Not reported	13.5	N	N	16.2	N	N	12.8	N	N
Not applicable ⁹	.9	N	N	4.0	N	N	3.9	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	1.3	1.0	2.1	4.2	3.0	6.3	3.9	2.8	4.8
Diesel	9.6	9.5	17.0	8.4	8.0	13.8	5.2	7.7	8.7
Natural gas	S	N	N	S	N	N	S	N	N
Propane	43.4	N	N	48.0	N	N	20.5	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	S	N	N	S	N	N	S	N	N
Not applicable ¹	27.5	N	N	S	N	N	S	N	N
Cylinders ⁹ :									
4 cylinders	9.4	7.7	13.7	13.1	9.2	18.6	9.1	5.1	10.8
6 cylinders	4.1	3.8	7.2	5.4	4.6	8.1	4.0	3.1	4.6
8 cylinders	6.1	5.8	11.2	10.2	8.7	19.4	8.1	6.4	11.1
Other	24.2	17.1	23.6	31.8	13.1	40.0	22.4	16.8	40.9
Cubic inch displacement ⁹ :									
Gasoline fuel	1.3	1.0	2.1	4.2	3.0	6.3	3.9	2.8	4.8
Less than 200	7.3	5.3	8.5	10.3	6.6	11.7	7.2	3.9	8.3
200 to 299	5.3	6.6	16.8	7.1	8.0	19.5	4.8	4.6	6.1
300 to 349	11.0	9.3	16.8	13.3	11.9	21.7	7.4	7.5	10.9
350 to 399	12.9	8.9	12.5	16.9	12.9	14.7	10.5	9.0	12.0
400 or more	26.8	22.1	49.1	S	33.0	S	S	23.3	S
Not available	38.9	21.8	19.2	S	33.2	S	S	27.1	S
Diesel fuel	9.6	9.5	17.0	8.4	8.0	13.8	5.2	7.7	8.7
Less than 400	29.2	24.4	35.9	38.0	27.5	55.4	19.8	17.9	33.4
400 to 599	16.2	18.9	46.5	18.8	20.8	57.2	9.0	13.2	17.4
600 to 799	4.7	20.1	20.7	6.9	20.4	20.5	5.6	20.3	19.9
800 or more	4.8	4.4	6.9	6.5	5.1	7.5	4.8	3.9	5.3
Not available	7.9	7.8	9.4	12.3	11.2	18.9	11.0	10.1	20.1
Other fuel	40.8	41.6	52.6	42.7	41.3	53.1	21.2	24.2	31.9
Less than 400	N	S	S	N	S	S	N	S	S
400 or more	40.8	S	S	42.7	S	S	21.2	S	S
Not available	N	S	S	N	S	S	N	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹	27.5	N	N	S	N	N	S	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
REFUELING LOCATION									
Gas station	1.6	N	N	4.3	N	N	4.0	N	N
Truck stop	24.6	N	N	15.5	N	N	13.4	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	14.2	N	N	12.4	N	N	7.3	N	N
Other company's/contractor's facility not open to the public	45.1	N	N	28.9	N	N	28.1	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	28.0	N	N	30.1	N	N	12.2	N	N
Not applicable ¹	27.5	N	N	S	N	N	S	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	30.0	S	S	42.0	S	S	29.1	S	S
Company-owned maintenance facility	11.4	11.2	26.8	11.2	10.8	24.2	7.4	8.5	10.4
General repair business or private mechanic ..	4.8	5.0	10.5	7.1	6.7	14.9	5.3	4.5	7.0
Dealership service department	6.9	6.8	14.2	8.0	7.8	15.5	4.2	4.1	5.6
Leasing company	16.6	39.9	8.5	16.9	28.0	13.3	8.7	16.8	39.0
Individual not employed/paid by any maintenance type facility									
Other	5.9	4.2	7.0	10.2	6.0	12.1	8.4	4.3	9.9
Not reported	N	44.5	N	N	S	S	N	S	S
Not applicable ¹	25.2	17.8	26.2	27.4	25.1	42.0	11.8	18.2	28.9
Extensive repairs performed by:									
None performed	2.2	19.3	532.7	4.1	22.0	612.3	3.5	12.1	12.6
Company-owned maintenance facility	37.4	16.6	13.0	19.9	12.3	9.1	21.7	8.5	28.5
General repair business or private mechanic ..	15.6	6.7	6.0	18.1	8.1	6.3	9.7	4.9	9.8
Dealership service department	19.1	7.3	5.7	19.1	8.2	5.9	8.5	4.7	10.0
Leasing company	S	S	S	S	33.1	S	S	S	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	46.2	30.0	46.2	44.1	21.7	23.6	23.2	13.9	15.5
Other	27.5	10.8	7.9	S	13.9	S	S	8.9	S
Not reported	N	S	S	N	S	S	N	S	S
Not applicable ¹	27.5	4.6	S	S	6.5	S	S	4.6	S
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer									
2 axles .....	.9	.9	1.6	3.9	2.8	6.0	3.7	2.7	4.6
3 axles	1.0	.9	1.6	3.9	2.9	6.1	3.8	2.7	4.6
4 axles	4.6	17.8	16.3	7.8	10.0	10.5	6.2	10.2	11.1
5 axles or more	12.0	15.0	43.2	15.1	17.6	45.9	9.0	9.0	11.2
Not reported	N	N	S	N	N	S	N	N	N
Combinations	18.3	15.1	32.7	5.5	10.5	11.2	16.0	12.6	14.0
Single-unit trucks with trailer									
3 axles	32.9	34.7	88.7	36.2	43.2	50.5	25.4	27.4	18.0
4 axles	S	S	S	S	S	S	S	S	S
5 axles or more	45.6	45.9	104.0	46.4	41.2	64.0	33.3	16.9	23.9
Not reported	23.9	24.2	59.1	31.6	29.8	60.8	25.6	17.5	25.0
Truck-tractors with single trailer									
3 axles	3.5	8.4	9.5	4.6	10.6	11.0	3.3	5.9	6.1
4 axles	S	S	S	S	S	S	S	S	S
5 axles or more	19.8	18.8	38.6	31.4	19.6	43.8	22.8	14.0	22.3
Not reported	3.8	7.2	8.2	4.8	5.0	6.7	3.0	4.6	5.3
Truck-tractors with double trailers									
5 axles	17.8	N	N	21.8	N	N	13.0	N	N
6 axles	S	S	S	S	S	S	S	S	S
7 axles	N	N	N	N	N	N	N	N	N
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									
7 axles	N	N	N	N	N	N	N	N	N
8 axles	N	N	N	N	N	N	N	N	N
9 axles	N	N	N	N	N	N	N	N	N
10 axles or more	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Driving axles:									
1	6.4	4.1	6.0	7.9	5.8	6.5	4.9	4.1	5.4
2	2.7	3.6	7.4	5.1	4.6	11.4	4.4	3.2	5.5
3 or more	S	39.5	S	S	46.9	S	S	48.5	S
Not reported	37.9	N	N	44.1	N	N	21.5	N	N
Total liftable axles and locations:									
None	3.0	9.1	28.6	4.0	16.4	44.1	2.7	12.6	11.2
1	11.3	12.8	36.2	14.6	15.6	35.5	8.1	9.0	9.5
Forward of the drive axle	15.1	N	N	18.3	N	N	9.4	N	N
Below the chassis	23.5	N	N	33.3	N	N	18.5	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	29.3	N	N	39.0	N	N	25.4	N	N
2 or more	N	S	S	N	S	S	N	S	S
Forward of the drive axle	N	N	N	N	N	N	N	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	29.3	N	N	36.6	N	N	21.6	N	N
Not applicable ⁸ .....	.9	N	N	4.0	N	N	3.9	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	3.0	9.1	28.6	4.0	16.4	44.1	2.7	12.6	11.2
1	11.3	12.8	36.2	14.6	15.6	35.5	8.1	9.0	9.5
0 braking	36.7	N	N	43.8	N	N	17.3	N	N
1 braking	12.0	N	N	15.6	N	N	8.7	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	N	S	S	N	N	S	N	S	S
0 braking	N	N	N	N	N	N	N	N	N
1 braking	N	N	N	N	N	N	N	N	N
2 or more braking	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	29.3	N	N	36.6	N	N	21.6	N	N
Not applicable ⁸ .....	.9	N	N	4.0	N	N	3.9	N	N
CAB TYPE									
Conventional cab	1.2	5.2	6.1	3.1	7.6	8.4	3.0	6.3	6.2
With sleeper	5.4	N	N	6.2	N	N	3.0	N	N
Without sleeper	1.4	N	N	4.0	N	N	3.8	N	N
Not reported	41.1	N	N	41.6	N	N	6.7	N	N
Cab over engine	23.7	9.9	38.3	22.0	11.7	42.9	5.8	8.9	12.3
With sleeper	21.4	N	N	26.4	N	N	16.1	N	N
Without sleeper	25.3	N	N	24.7	N	N	5.6	N	N
Not reported	N	N	N	N	N	N	N	N	N
Cab forward of engine	47.4	22.5	N	S	23.7	S	S	16.7	S
Cab beside engine	S	43.7	S	N	S	S	S	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ⁹ .....	.9	N	N	4.0	N	N	3.9	N	N

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

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

²Truck-tractors not in use.

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

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

⁵Distributed miles data are available in Table 8.

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

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

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

⁹Data were derived from administrative records.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
Total	17.1	15.9	7.3	366.2	362.4	1.0	21.4	22.7	-5.8
BUSINESS¹									
For-hire transportation or warehousing	3.4	1.4	137.3	159.0	108.9	46.0	47.0	76.5	-38.5
Vehicle leasing or rental .....	.5	S	S	25.6	S	S	48.2	S	S
Agriculture, forestry, fishing, or hunting	2.8	3.8	-26.8	30.9	53.6	-42.3	11.1	14.1	-21.2
Mining .....	.2	.2	28.8	4.4	5.8	-25.5	17.9	30.9	-42.1
Utilities .....	.6	.4	56.4	6.0	3.5	69.4	10.3	9.5	8.3
Construction	3.6	4.1	-11.1	38.1	55.6	-31.5	10.5	13.6	-22.9
Manufacturing .....	.3	.3	-5.8	8.1	11.8	-30.9	29.8	40.6	-26.6
Wholesale trade	1.0	1.4	-29.3	25.7	46.1	-44.4	25.1	31.8	-21.3
Retail trade	1.3	1.5	-14.3	22.7	42.0	-45.8	17.2	27.2	-36.8
Information services .....	.3	N	N	3.6	N	N	12.3	N	N
Waste management, landscaping, or administrative/support services	1.4	N	N	22.8	N	N	16.7	N	N
Arts, entertainment, or recreation services .....	.2	N	N	.8	N	N	4.5	N	N
Accommodation or food services .....	.2	N	N	7.8	N	N	32.1	N	N
Other services .....	.3	N	N	3.0	N	N	9.6	N	N
Personal transportation	S	.3	S	7.2	.8	S	S	2.9	S
Not reported .....	.5	V	N	7.2	V	N	14.7	V	N
Not applicable ² .....	.4	.3	68.0	.5	S	S	1.0	S	S
BODY TYPE									
Single-unit trucks	14.2	13.3	7.3	177.6	164.2	8.2	12.5	12.4	.8
Armored	S	N	N	S	N	N	S	N	N
Beverage .....	.3	.3	14.8	4.3	3.5	23.0	14.9	13.9	7.2
Concrete mixer .....	.1	S	S	1.2	2.5	-50.3	14.7	S	S
Concrete pumper	V	N	N	.4	N	N	V	N	N
Crane .....	.2	S	S	.6	S	S	3.7	S	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	4.4	3.3	33.3	33.8	29.0	16.4	7.7	8.8	-12.7
Flatbed, stake, or platform	2.3	3.4	-32.7	16.9	29.7	-43.3	7.4	8.8	-15.7
Low boy	V	S	S	V	S	S	V	S	S
Pole, logging, pulpwood, or pipe .....	.2	.2	10.4	2.8	3.4	-16.6	14.0	18.5	-24.4
Service, utility .....	.8	.5	65.4	7.2	3.0	141.0	9.1	6.3	45.8
Service, other .....	.4	.3	32.2	5.4	5.3	1.7	12.3	16.1	-23.1
Street sweeper	V	N	N	V	N	N	V	N	N
Tank, dry bulk	S	S	S	S	S	S	S	S	S
Tank, liquids or gases .....	.8	.8	7.4	10.1	11.4	-11.1	12.4	15.0	-17.2
Tow/Wrecker .....	.5	.6	-14.1	6.6	S	S	12.4	S	S
Trash, garbage, or recycling .....	.5	.3	92.1	11.0	7.1	54.3	22.5	28.0	-19.7
Vacuum .....	.1	N	N	1.2	N	N	12.6	N	N
Van, basic enclosed	1.2	1.4	-16.8	27.2	32.8	-16.8	23.1	23.1	V
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated .....	.4	.2	152.0	10.0	6.0	67.9	24.1	36.2	-33.4
Van, open top .....	.1	.1	67.7	1.2	.8	55.9	10.6	11.4	-7.0
Van, step, walk-in, or multistop	1.7	.8	101.5	30.4	15.2	100.5	18.4	18.5	-5
Van, other .....	.2	N	N	4.5	N	N	26.6	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	2.9	2.7	7.2	188.6	198.2	-4.9	65.6	73.9	-11.2
Automobile carrier	V	S	S	2.4	1.9	24.0	V	S	S
Beverage	S	V	S	S	S	S	S	S	S
Curtainside	V	N	N	V	N	N	V	N	N
Dump .....	.1	.1	7.8	6.2	5.5	13.1	52.1	49.6	4.9
Flatbed, stake, or platform .....	.6	.6	-8.4	36.5	56.3	-35.2	64.1	90.5	-29.2
Livestock	V	S	S	V	S	S	V	S	S
Low boy .....	.2	.2	-13.2	3.4	3.8	-10.9	19.7	19.2	2.7
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top .....	.2	S	S	10.3	S	S	67.1	S	S
Pole, logging, pulpwood, or pipe .....	.1	.1	-42.8	4.2	6.5	-35.5	52.5	46.6	12.6
Tank, dry bulk .....	.1	.1	-4.9	3.9	3.9	-2	77.8	74.1	5.0
Tank, liquids or gases .....	.3	.4	-12.8	26.5	29.3	-9.4	85.4	82.2	3.8
Van, basic enclosed	1.0	.7	55.9	70.5	58.7	20.1	68.5	88.9	-22.9
Van, drop-frame	V	S	S	3.2	S	S	V	S	S
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated .....	.2	.2	20.0	16.7	15.8	5.6	79.4	90.2	-12.0
Other	S	N	N	S	N	N	S	N	N
Not applicable ³ .....	.1	N	N	V	N	N	V	N	N
ANNUAL MILES									
Less than 5,000	5.0	4.4	14.8	9.5	9.0	6.4	1.9	2.1	-7.3
5,000 to 9,999	2.5	2.6	-3.7	17.6	17.6	-2	6.9	6.7	3.6
10,000 to 19,999	3.4	3.5	-2.2	47.3	45.1	5.1	13.9	13.0	7.4
20,000 to 29,999	2.2	2.0	11.6	52.3	44.4	17.6	23.6	22.4	5.3
30,000 to 49,999	1.4	1.2	15.7	51.9	43.1	20.3	37.5	36.1	3.9
50,000 to 74,999 .....	.8	.7	29.3	50.9	38.5	32.4	60.6	59.2	2.4
75,000 or more	1.3	1.5	-13.1	136.2	164.7	-17.3	105.8	111.1	-4.8
Not applicable ² .....	.4	.2	158.7	.5	V	N	1.0	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road .....	.6	1.2	-54.9	1.2	7.6	-83.7	2.2	6.2	-63.9
50 miles or less	10.7	9.4	14.2	139.0	122.1	13.8	13.0	13.0	-4
51 to 100 miles	2.4	2.3	1.8	64.6	56.4	14.5	27.2	24.1	12.5
101 to 200 miles	1.0	1.1	-5.2	61.3	61.8	-7	59.1	56.4	4.8
201 to 500 miles .....	.5	1.2	-53.5	41.4	67.8	-39.0	76.5	58.3	31.3
501 miles or more .....	.4	.6	-28.1	35.4	46.6	-24.1	89.1	84.4	5.5
Not reported	1.0	.2	487.9	22.8	V	N	22.3	V	N
Not applicable ² .....	.4	N	N	.5	N	N	1.0	N	N
PRIMARY JURISDICTION									
Operated in Canada	V	N	N	2.9	N	N	V	N	N
Operated in Mexico	V	N	N	V	N	N	V	N	N
Operated within the home base state	14.1	N	N	240.7	N	N	17.1	N	N
Operated in states other than the home base state	1.5	N	N	101.2	N	N	65.5	N	N
Not reported	1.0	N	N	21.0	N	N	21.6	N	N
Not applicable ² .....	.4	N	N	.5	N	N	1.0	N	N
MONTHS OPERATED									
12	8.8	N	N	269.7	N	N	30.6	N	N
7 to 11	4.0	N	N	68.6	N	N	17.3	N	N
2 to 6	3.3	N	N	25.6	N	N	7.8	N	N
1 or less .....	.6	N	N	1.7	N	N	2.8	N	N
Vehicle not used .....	.4	N	N	.5	N	N	1.0	N	N
VEHICLE SIZE									
Light	2.6	4.1	-36.7	20.2	40.0	-49.6	7.8	9.7	-20.3
Medium	3.2	2.9	10.8	44.2	34.7	27.2	13.7	11.9	14.8
Light-heavy	2.9	2.2	30.4	42.2	24.7	70.9	14.5	11.1	31.1
Heavy-heavy	8.4	6.7	25.1	259.6	262.9	-1.3	31.0	39.3	-21.1
AVERAGE WEIGHT (POUNDS)									
Less than 6,001 .....	.4	.9	-55.2	2.6	7.7	-65.9	6.2	8.1	-23.9
6,001 to 8,500 .....	.9	N	N	6.5	N	N	7.6	N	N
8,501 to 10,000	1.3	N	N	11.0	N	N	8.4	N	N
10,001 to 14,000	1.5	1.8	-16.1	24.3	23.5	3.5	16.6	13.4	23.3
14,001 to 16,000 .....	.7	.6	19.3	6.3	5.7	10.5	8.7	9.4	-7.3
16,001 to 19,500	1.0	.6	85.5	13.6	5.6	144.9	13.0	9.9	32.0
19,501 to 26,000	2.9	2.2	30.4	42.2	24.7	70.9	14.5	11.1	31.1
26,001 to 33,000	1.8	1.4	24.6	19.9	20.0	-7	11.2	14.1	-20.3
33,001 to 40,000	1.0	.8	24.7	16.2	12.3	31.4	16.0	15.1	5.4
40,001 to 50,000 .....	.7	.7	-6	11.3	22.5	-49.9	16.0	31.7	-49.6
50,001 to 60,000	1.8	1.5	19.8	26.1	48.4	-46.1	14.8	32.9	-55.0
60,001 to 80,000	2.6	2.0	29.1	162.2	142.2	14.0	62.2	70.4	-11.7
80,001 to 100,000 .....	.4	.2	73.7	23.5	15.6	50.6	58.2	67.1	-13.3
100,001 to 130,000 .....	.1	V	N	.5	1.9	-74.5	4.3	V	N
130,001 or more	V	V	N	V	V	N	V	V	N
TOTAL LENGTH (FEET)									
Less than 20.0	5.0	4.5	10.1	50.2	44.0	14.1	10.1	9.7	3.7
20.0 to 27.9	5.3	6.1	-13.5	69.6	72.8	-4.3	13.1	11.9	10.5
28.0 to 35.9	2.2	2.0	14.7	35.9	36.0	-1	16.0	18.4	-12.9
36.0 to 40.9	1.0	.4	171.7	18.5	5.6	230.0	17.9	14.8	21.4
41.0 to 44.9 .....	.4	.2	157.0	9.0	3.5	153.7	20.6	20.8	-1.3
45.0 to 49.9 .....	.3	.2	75.9	3.6	5.1	-29.6	12.6	31.5	-60.0
50.0 to 54.9 .....	.3	S	S	8.0	S	S	23.1	S	S
55.0 to 59.9 .....	.6	.5	25.3	32.9	29.2	12.6	57.1	63.5	-10.1
60.0 to 64.9 .....	.9	1.1	-19.1	58.4	86.8	-32.7	65.7	79.0	-16.8
65.0 to 69.9 .....	.7	.7	6.6	54.0	58.9	-8.3	76.9	89.3	-14.0
70.0 to 74.9 .....	.3	.1	155.9	25.3	10.2	147.6	84.7	87.6	-3.3
75.0 to 79.9	S	N	N	S	N	N	S	N	N
80.0 or more	V	N	N	V	N	N	V	N	N
MILES PER GALLON									
Less than 5	2.3	2.1	11.8	58.0	52.6	10.1	25.1	25.5	-1.6
5 to 6.9	4.8	5.0	-4.6	171.3	193.3	-11.4	35.9	38.6	-7.1
7 to 8.9	2.5	3.9	-35.5	30.1	51.4	-41.4	12.1	13.3	-9.0
9 to 10.9	2.4	2.4	1.7	29.5	30.5	-3.3	12.3	12.9	-4.9
11 to 12.9	1.6	1.3	22.1	22.6	18.4	22.6	14.0	13.9	.5
13 to 14.9 .....	.5	.4	23.9	5.7	5.3	8.2	11.9	13.6	-12.7
15 or more .....	.7	.6	20.3	6.6	6.7	-7	9.5	11.5	-17.5
15 to 20.9 .....	.7	.6	22.8	6.6	6.6	1.1	9.5	11.5	-17.6
21 to 24.9	V	S	S	V	S	S	V	S	S
25 or more	V	N	N	V	V	N	V	V	N
Not reported	1.9	.4	432.2	41.9	4.2	893.3	22.2	11.9	86.6
Not applicable ² .....	.4	N	N	.5	N	N	1.0	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]

Vehicle and operational characteristics	2002 trucks (thousands)	1997 trucks (thousands)	Percent change	2002 truck miles (millions)	1997 truck miles (millions)	Percent change	2002 average miles per truck (thousands)	1997 average miles per truck (thousands)	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003 .....	.1	N	N	2.8	N	N	23.4	N	N
2002 .....	.6	N	N	13.9	N	N	24.0	N	N
2001 .....	.9	N	N	40.1	N	N	44.6	N	N
2000	1.4	N	N	61.3	N	N	44.3	N	N
1999	1.3	N	N	58.0	N	N	44.5	N	N
1998 .....	.8	S	S	27.7	S	S	33.1	S	S
1997	1.5	1.3	12.1	41.9	48.2	-13.2	28.4	36.6	-22.5
1996 .....	.5	.8	-38.3	13.8	63.9	-78.4	28.1	80.4	-65.1
1995 .....	.9	.9	3.8	20.5	39.3	-47.7	21.8	43.3	-49.6
1994 .....	.7	.8	-13.6	11.8	24.6	-52.0	18.1	32.6	-44.5
1993 .....	.5	.6	-13.6	7.4	29.9	-75.4	15.3	53.7	-71.5
Pre-1993	7.9	11.6	-31.2	67.0	152.7	-56.2	8.4	13.2	-36.2
VEHICLE ACQUISITION									
New	8.2	6.4	28.3	249.0	225.6	10.4	30.3	35.2	-14.0
Used	8.2	8.4	-2.5	97.5	98.5	-1.0	11.9	11.7	1.5
Not reported .....	.7	1.1	-39.5	19.7	38.3	-48.6	28.8	33.9	-15.0
LEASE CHARACTERISTICS									
Leased	1.9	N	N	76.5	N	N	40.6	N	N
Lessee	1.0	N	N	30.7	N	N	29.7	N	N
Vehicle only	1.0	N	N	30.7	N	N	29.7	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 .....	.8	N	N	45.5	N	N	54.1	N	N
Vehicle only .....	.8	N	N	43.1	N	N	53.0	N	N
Vehicle with driver	V	N	N	2.4	N	N	V	N	N
Not reported	V	N	N	V	N	N	V	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	9.6	N	N	205.4	N	N	21.3	N	N
Not reported	5.6	N	N	84.2	N	N	15.1	N	N
Length of leasing agreement:									
Leased	1.9	N	N	76.5	N	N	40.6	N	N
1 to 11 months	S	N	N	S	N	N	S	N	N
12 months or more	1.8	N	N	75.5	N	N	41.0	N	N
Not reported	S	N	N	S	N	N	S	N	N
Provisions of lease ⁴ :									
Financing only	1.0	N	N	28.2	N	N	29.4	N	N
Full maintenance	1.0	N	N	51.9	N	N	52.5	N	N
Payment of taxes .....	.7	N	N	38.1	N	N	53.6	N	N
Obtaining licenses and permits .....	.7	N	N	35.7	N	N	53.6	N	N
Recordkeeping .....	.1	N	N	6.4	N	N	57.9	N	N
Fuel contract .....	.1	N	N	5.4	N	N	63.8	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	11.4	N	N	146.3	N	N	12.8	N	N
Motor carrier	3.3	N	N	151.6	N	N	45.6	N	N
Owner operator	1.4	N	N	41.6	N	N	30.6	N	N
Rental .....	.6	N	N	26.2	N	N	47.6	N	N
Personal transportation	S	N	N	S	N	N	S	N	N
Not applicable ² .....	.4	N	N	.5	N	N	1.0	N	N
For-hire characteristics:									
Type of carrier:									
Contract	2.1	N	N	105.0	N	N	50.1	N	N
Common	2.1	N	N	75.3	N	N	35.7	N	N
Not reported .....	.5	N	N	12.9	N	N	27.0	N	N
Not applicable ⁵	12.4	N	N	173.0	N	N	13.9	N	N
Type of service:									
Truckload	2.7	1.0	164.3	130.2	81.2	60.3	49.1	81.0	-39.3
Less-than truckload	1.6	.3	502.7	51.5	15.0	242.6	33.0	58.0	-43.2
Not reported .....	.5	N	N	11.5	N	N	24.5	N	N
Not applicable ⁵	12.4	N	N	173.0	N	N	13.9	N	N
Source of hauls:									
Shippers or receivers	3.3	N	N	142.4	N	N	43.7	N	N
Brokers .....	.2	N	N	15.3	N	N	61.8	N	N
Centralized markets or exchanges .....	.1	N	N	3.1	N	N	39.4	N	N
Other .....	.1	N	N	V	N	N	V	N	N
Not reported	1.1	N	N	32.4	N	N	29.6	N	N
Not applicable ⁵	12.4	N	N	173.0	N	N	13.9	N	N
HAZARDOUS MATERIALS CARRIED⁶									
Carrying hazardous materials	1.0	.9	6.7	29.9	27.0	10.5	30.7	29.7	3.5
Not carrying hazardous materials	13.4	13.4	.2	282.1	310.9	-9.3	21.0	23.2	-9.4
Not reported	1.7	1.4	26.3	27.5	21.6	27.4	16.0	15.8	.9
Not applicable ⁷	1.0	N	N	26.7	N	N	26.5	N	N
EQUIPMENT TYPE⁴									
Aerial work platform/bucket .....	.7	N	N	6.8	N	N	10.2	N	N
Air bag(s) (safety device only)	2.0	1.0	100.9	59.6	59.6	V	29.5	59.4	-50.3
Air compressor (except air brakes) .....	.6	N	N	21.8	N	N	36.6	N	N
Air-conditioning	6.5	4.3	50.4	259.3	228.0	13.7	40.0	53.0	-24.4
Air springs	1.6	N	N	113.0	N	N	69.2	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
EQUIPMENT TYPE⁴—Con.									
Antilock brake system	4.9	1.9	154.2	187.2	68.9	171.7	38.5	36.0	6.9
Collision warning system .....	.1	N	N	S	N	N	S	N	N
Computerized drive train control unit .....	.4	N	N	16.9	N	N	40.7	N	N
Crane .....	.5	N	N	6.4	N	N	13.2	N	N
Electronic vehicle identification device	S	.2	S	S	13.9	S	S	68.6	S
Engine retarder/brake	4.7	3.7	29.4	197.0	172.6	14.2	41.5	47.1	-11.8
Front-wheel drive	V	V	N	V	V	N	V	V	N
Hoist	2.6	N	N	26.0	N	N	10.2	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	1.0	N	N	35.5	N	N	36.4	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate .....	.7	N	N	11.8	N	N	15.8	N	N
Mounting bar for snowplow	1.2	N	N	9.0	N	N	7.5	N	N
Navigational system	S	S	S	S	S	S	S	S	S
Power take-off	5.9	N	N	103.6	N	N	17.5	N	N
Radial tires	11.2	11.2	-2	292.2	314.3	-7.1	26.1	28.0	-6.8
Reflective material in addition to those required by law	2.8	2.6	8.6	80.4	96.4	-16.7	28.5	37.2	-23.3
Road speed governor	4.3	4.3	-1.5	161.0	167.4	-3.8	37.6	38.5	-2.3
Toolbox	4.0	N	N	79.0	N	N	19.8	N	N
Trip recorder or on-board computer with communication capabilities	S	N	N	20.5	N	N	S	N	N
Trip recorder or on-board computer without communication capabilities .....	.4	N	N	22.7	N	N	50.7	N	N
Vehicle control aids for handicapped drivers	V	V	N	V	V	N	V	V	N
Wheelchair lift	V	V	N	V	V	N	V	V	N
Winch .....	.9	N	N	13.7	N	N	15.0	N	N
Transmission type:									
Automatic	3.4	N	N	40.6	N	N	11.9	N	N
Manual	13.1	N	N	307.5	N	N	23.6	N	N
Semiautomated manual	S	N	N	S	N	N	S	N	N
Automated manual	V	N	N	V	N	N	V	N	N
Not reported .....	.6	N	N	16.0	N	N	25.8	N	N
Braking system:									
Hydraulic (standard)	4.2	3.5	22.7	49.8	37.2	34.1	11.8	10.8	9.3
Hydraulic with power assist	3.7	3.7	-1.8	42.4	49.9	-15.0	11.6	13.4	-13.5
Air	8.4	7.6	11.4	257.1	263.6	-2.4	30.5	34.9	-12.4
Other	V	.2	N	V	2.4	N	V	11.3	N
Not reported .....	.8	N	N	16.8	N	N	21.4	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	4.5	6.1	-25.8	35.6	50.2	-29.1	7.9	8.2	-4.5
Diesel	12.0	9.4	28.2	327.9	308.7	6.2	27.3	32.9	-17.1
Natural gas	S	N	N	S	N	N	S	N	N
Propane .....	.1	N	N	1.6	N	N	16.4	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	S	N	N	S	N	N	S	N	N
Not applicable ² .....	.4	N	N	.5	N	N	1.0	N	N
Cylinders ⁸ :									
4 cylinders .....	.3	.4	-17.3	3.8	7.8	-51.0	13.0	22.0	-40.7
6 cylinders	8.7	6.8	28.6	288.3	271.7	6.1	33.2	40.3	-17.5
8 cylinders	6.1	6.4	-3.9	60.4	64.9	-7.0	9.9	10.2	-3.2
Other	2.0	2.5	-18.4	13.7	18.0	-23.8	6.8	7.2	-6.6
Cubic inch displacement ⁸ :									
Gasoline fuel	4.5	6.1	-25.8	35.6	50.2	-29.1	7.9	8.2	-4.5
Less than 200	S	V	S	S	V	S	S	V	S
200 to 299 .....	.4	S	S	8.4	S	S	21.7	S	S
300 to 349 .....	.2	.1	16.7	2.7	1.5	83.8	15.4	9.8	57.5
350 to 399	1.8	3.1	-40.4	13.4	31.5	-57.6	7.4	10.3	-28.8
400 or more	1.4	1.5	-9.5	9.6	12.9	-25.5	7.1	8.7	-17.7
Not available .....	.8	1.3	-42.0	1.3	3.5	-62.5	1.7	2.6	-35.3
Diesel fuel	12.0	9.4	28.2	327.9	308.7	6.2	27.3	32.9	-17.1
Less than 400	1.3	.9	46.2	16.9	18.2	-7.2	13.4	21.1	-36.5
400 to 599	4.9	2.6	89.1	80.8	48.4	66.9	16.4	18.5	-11.7
600 to 799	2.5	2.5	.3	96.4	101.5	-5.0	38.9	41.0	-5.3
800 or more	2.1	2.0	6.1	108.9	119.3	-8.7	52.3	60.8	-14.0
Not available	1.3	1.5	-14.4	24.9	21.2	17.5	19.9	14.5	37.2
Other fuel .....	.1	.1	-9.8	2.0	2.2	-10.6	19.1	19.3	-1.0
Less than 400	V	S	S	V	S	S	V	S	S
400 or more .....	.1	S	S	2.0	S	S	19.1	S	S
Not available	V	S	S	V	S	S	V	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ² .....	.4	N	N	.5	N	N	1.0	N	N
REFUELING LOCATION									
Gas station	7.7	N	N	108.0	N	N	13.9	N	N
Truck stop	1.8	N	N	95.3	N	N	51.6	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	6.2	N	N	139.9	N	N	22.6	N	N
Other company's/contractor's facility not open to the public .....	.5	N	N	17.4	N	N	32.1	N	N
Other	V	N	N	V	N	N	V	N	N
Not reported3	N	N	5.1	N	N	15.4	N	N
Not applicable ²4	N	N	.5	N	N	1.0	N	N

See footnotes at end of table.

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	(thousands)	(thousands)		(millions)	(millions)		(thousands)	(thousands)	
	A	B	C	D	E	F	G	H	I
MAINTENANCE⁴									
General maintenance performed by:									
None performed	.2	.1	168.1	.8	S	S	4.2	S	S
Company-owned maintenance facility	7.9	5.7	38.8	221.7	182.7	21.4	27.9	31.9	-12.6
General repair business or private mechanic	4.6	3.2	42.2	84.3	59.5	41.7	18.5	18.5	-3
Dealership service department	1.9	1.3	43.4	52.8	38.7	36.4	28.3	29.7	-4.9
Leasing company	.4	S	S	17.3	27.7	-37.6	48.7	S	S
Individual not employed/paid by any maintenance type facility:									
Other	3.9	6.7	-42.3	54.1	106.2	-49.0	13.9	15.8	-11.7
Not reported	.3	.9	-65.6	4.6	11.5	-59.6	15.2	13.0	17.3
Not applicable ²	.4	N	N	.5	N	N	1.0	N	N
Extensive repairs performed by:									
None performed	12.9	.4	3 283.0	264.6	10.1	2 511.0	20.5	26.5	-22.8
Company-owned maintenance facility	.9	2.7	-68.3	32.6	74.9	-56.5	38.3	28.0	37.0
General repair business or private mechanic	1.2	3.4	-64.1	18.0	66.8	-73.1	14.6	19.5	-25.1
Dealership service department	.9	2.6	-63.7	35.0	108.7	-67.8	37.7	42.6	-11.4
Leasing company	S	S	S	S	24.7	S	S	S	S
Component distributorship (engine, transmission, body, etc.):									
Individual not employed/paid by any repair type facility	.1	.6	-77.0	5.6	26.5	-78.8	37.9	41.1	-7.7
Other	.4	2.2	-79.7	7.3	21.2	-65.5	16.6	9.7	70.3
Not reported	S	4.6	S	S	67.9	S	S	14.7	S
Not applicable ²	.4	N	N	.5	N	N	1.0	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	13.6	12.8	6.1	170.1	158.3	7.4	12.5	12.3	1.2
3 axles	10.9	10.1	7.9	129.8	117.3	10.6	11.9	11.6	2.5
4 axles	2.2	2.5	-11.4	29.5	35.8	-17.6	13.1	14.1	-7.0
5 axles or more	.5	.2	124.7	10.2	5.1	98.4	22.5	25.5	-11.7
Not reported	V	N	N	V	N	N	V	N	N
Combinations	3.5	3.1	12.1	196.1	204.1	-3.9	56.3	65.7	-14.3
Single-unit trucks with trailer:	.7	.4	58.0	7.5	5.9	27.9	11.2	13.8	-19.0
3 axles	.1	.1	11.5	S	S	S	S	S	S
4 axles	.4	.2	63.1	2.7	2.2	24.0	7.2	9.4	-24.0
5 axles or more	.1	.1	73.6	3.5	2.5	40.0	24.9	30.9	-19.3
Not reported	S	N	N	S	N	N	S	N	N
Truck-tractors with single trailer:	2.8	2.7	5.2	188.5	197.5	-4.6	67.2	74.1	-9.3
3 axles	S	S	S	S	S	S	S	S	S
4 axles	.3	.2	41.5	12.2	10.3	18.2	46.4	55.6	-16.4
5 axles or more	2.3	2.3	1.1	161.7	167.3	-3.3	69.5	72.7	-4.4
Not reported	.2	N	N	14.1	N	N	77.6	N	N
Truck-tractors with double trailers:	S	S	S	S	S	S	S	S	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	S	S	V	S	S	V	S	S
8 axles or more	V	S	S	V	S	S	V	S	S
Not reported	V	N	N	V	N	N	V	N	N
Truck-tractors with triple trailers:	V	V	N	V	V	N	V	V	N
7 axles	V	V	N	V	V	N	V	V	N
8 axles	V	V	N	V	V	N	V	V	N
9 axles	V	V	N	V	V	N	V	V	N
10 axles or more	V	V	N	V	V	N	V	V	N
Not reported	V	N	N	V	N	N	V	N	N
Driving axles:									
1	10.0	9.9	1.1	135.6	153.0	-11.3	13.6	15.5	-12.3
2	7.1	6.0	18.1	228.2	208.0	9.8	32.3	34.8	-7.1
3 or more	S	.1	S	S	1.5	S	S	17.4	S
Not reported	V	V	N	2.2	V	N	V	V	N
Total liftable axles and locations ⁹ :									
None	16.4	5.3	208.1	348.8	132.2	163.9	21.2	24.8	-14.3
1	.6	.3	111.8	14.5	8.8	66.1	24.8	31.6	-21.6
Forward of the drive axle	.3	N	N	8.5	N	N	25.7	N	N
Below the chassis	.2	N	N	3.7	N	N	22.2	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	.1	N	N	2.0	N	N	26.7	N	N
2 or more	V	S	S	V	S	S	V	S	S
Forward of the drive axle	V	N	N	V	N	N	V	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	2.8	N	N	37.5	N	N
Total liftable axles and number of braking axles:									
None	16.4	5.3	208.1	348.8	132.2	163.9	21.2	24.8	-14.3
1	.6	.3	111.8	14.5	8.8	66.1	24.8	31.6	-21.6
0 braking	.1	N	N	1.4	N	N	19.8	N	N
1 braking	.5	N	N	13.1	N	N	25.7	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	V	S	S	V	S	S	V	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	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	2.8	N	N	37.5	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	15.0	13.2	13.4	318.4	311.6	2.2	21.2	23.5	-9.9
With sleeper	1.4	N	N	123.0	N	N	85.4	N	N
Without sleeper	13.5	N	N	192.6	N	N	14.2	N	N
Not reported	V	N	N	2.8	N	N	V	N	N
Cab over engine	2.0	1.4	49.0	47.3	27.4	72.4	23.4	20.2	15.7
With sleeper .....	.1	N	N	5.5	N	N	44.4	N	N
Without sleeper	1.9	N	N	41.8	N	N	22.0	N	N
Not reported	V	N	N	V	N	N	V	N	N
Cab forward of engine	V	.3	N	S	7.4	S	S	25.9	S
Cab beside engine	S	.1	S	V	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	2.8	4.6	5.8	3.8	6.6	7.7	2.7	5.5	5.7
BUSINESS									
For-hire transportation or warehousing	14.5	6.4	37.7	8.2	6.1	14.9	8.7	5.0	6.2
Vehicle leasing or rental	15.1	S	S	15.4	S	S	10.5	S	S
Agriculture, forestry, fishing, or hunting	6.4	12.8	10.5	10.5	12.5	9.4	9.8	10.1	11.1
Mining	19.4	21.2	37.0	24.1	26.4	26.7	19.6	25.4	18.6
Utilities	16.7	22.4	43.7	22.0	24.3	55.5	13.7	12.1	19.8
Construction	5.5	6.1	7.3	7.9	7.4	7.4	6.6	6.0	6.8
Manufacturing	21.1	19.3	26.9	25.5	20.6	22.7	21.2	16.2	19.5
Wholesale trade	11.8	10.0	10.9	13.5	10.8	9.6	9.6	8.3	9.9
Retail trade	10.5	13.6	14.7	14.0	46.4	26.2	9.9	36.9	24.1
Information services	24.8	N	N	27.1	N	N	10.9	N	N
Waste management, landscaping, or administrative/support services	9.8	N	N	12.0	N	N	9.6	N	N
Arts, entertainment, or recreation services	31.2	N	N	45.6	N	N	33.2	N	N
Accommodation or food services	25.4	N	N	29.3	N	N	19.9	N	N
Other services	22.1	N	N	33.9	N	N	23.7	N	N
Personal transportation	S	26.3	S	S	42.9	S	S	33.8	S
Not reported	17.7	N	N	22.8	N	N	19.0	N	N
Not applicable ¹	17.2	24.9	50.8	38.0	S	S	34.9	S	S
BODY TYPE									
Single-unit trucks	3.4	5.3	6.8	6.4	7.3	10.5	3.9	4.7	6.1
Armored	S	N	N	S	N	N	S	N	N
Beverage	24.8	28.0	42.9	28.5	31.1	51.8	14.0	13.6	20.9
Concrete mixer	27.8	S	S	30.5	49.6	28.9	12.3	S	S
Concrete pumper	41.5	N	N	41.9	N	N	5.3	N	N
Crane	25.6	S	S	43.9	S	S	33.7	S	S
Curtainside	S	N	N	S	N	N	S	N	N
Dump	4.8	5.9	10.2	6.7	7.1	11.4	5.7	6.2	7.4
Flatbed, stake, or platform	7.8	6.3	6.8	11.9	9.2	8.5	9.1	7.0	9.7
Low boy	N	S	S	N	S	S	N	S	S
Pole, logging, pulpwood, or pipe	22.1	21.7	34.2	31.2	22.7	32.2	21.2	21.4	22.8
Service, utility	14.8	20.4	41.6	17.8	24.5	72.9	9.9	14.8	25.9
Service, other	19.7	24.2	41.2	26.6	29.4	40.3	18.1	17.5	19.3
Street sweeper	N	N	N	N	N	N	N	N	N
Tank, dry bulk	S	S	S	S	S	S	S	S	S
Tank, liquids or gases	13.2	14.2	20.8	17.0	18.0	21.9	11.8	11.9	13.9
Tow/Wrecker	17.5	48.0	43.9	22.2	S	S	13.1	S	S
Trash, garbage, or recycling	15.9	22.7	53.3	16.4	39.2	65.6	9.8	31.5	26.5
Vacuum	35.4	N	N	47.6	N	N	23.6	N	N
Van, basic enclosed	11.0	32.3	28.4	13.7	30.5	27.8	8.4	9.0	12.3
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	20.0	23.3	77.4	25.8	21.3	56.2	15.9	16.0	15.0
Van, open top	35.5	38.2	87.5	46.0	44.1	99.3	41.6	34.3	50.2
Van, step, walk-in, or multistop	29.2	15.3	66.4	33.3	22.1	80.1	7.2	15.9	17.3
Van, other	31.7	N	N	41.6	N	N	26.1	N	N
Other	S	N	N	S	N	N	S	N	N
Truck-tractors	3.4	8.3	9.6	4.6	10.6	11.0	3.3	5.9	6.0
Automobile carrier	46.3	S	S	48.1	48.9	85.1	14.0	S	S
Beverage	S	45.4	S	S	S	S	S	S	S
Curtainside	N	N	N	N	N	N	N	N	N
Dump	22.2	20.7	32.7	28.9	23.9	42.4	18.8	11.9	23.4
Flatbed, stake, or platform	9.8	24.9	24.5	12.1	35.0	24.0	7.0	11.0	9.3
Livestock	N	S	S	N	S	S	N	S	S
Low boy	18.7	18.1	22.6	28.3	22.4	32.1	21.1	16.2	27.3
Mobile home toter	S	N	N	S	N	N	S	N	N
Open top	19.4	S	S	21.3	S	S	8.6	S	S
Pole, logging, pulpwood, or pipe	27.9	18.4	19.1	32.3	21.4	25.0	16.0	10.9	21.8
Tank, dry bulk	35.0	30.1	43.9	36.6	31.6	48.3	11.1	9.6	15.4
Tank, liquids or gases	13.8	11.1	15.5	15.7	12.9	18.4	7.5	6.4	10.2
Van, basic enclosed	7.4	8.2	17.2	8.1	8.9	14.4	5.0	5.3	5.6
Van, drop-frame	37.8	S	S	46.7	S	S	27.9	S	S
Van, insulated nonrefrigerated	S	S	S	S	S	S	S	S	S
Van, insulated refrigerated	19.3	16.2	30.3	19.0	18.0	27.6	11.0	7.8	11.9
Other	S	N	N	S	N	N	S	N	N
Not applicable ²	30.8	N	N	N	N	N	N	N	N
ANNUAL MILES									
Less than 5,000	4.6	5.2	8.0	6.1	6.9	9.8	4.1	4.5	5.7
5,000 to 9,999	7.0	18.0	18.6	7.2	18.0	19.3	1.7	2.3	3.0
10,000 to 19,999	5.9	10.1	11.5	6.0	8.8	11.2	1.4	2.4	3.0
20,000 to 29,999	21.9	23.3	35.7	19.7	21.8	34.6	2.6	2.1	3.6
30,000 to 49,999	9.3	15.1	20.5	9.3	14.1	20.3	1.4	1.7	2.2
50,000 to 74,999	10.0	10.9	19.1	10.0	10.9	19.6	1.3	1.5	2.0
75,000 or more	6.0	11.2	11.0	6.4	12.7	11.8	1.9	2.2	2.8
Not applicable ¹	17.2	29.3	88.0	38.0	N	N	34.9	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
PRIMARY RANGE OF OPERATION									
Off-the-road	15.8	35.2	17.4	22.8	38.8	7.3	18.6	13.9	8.4
50 miles or less	4.9	4.8	7.8	8.3	16.9	21.5	4.9	14.9	15.6
51 to 100 miles	7.1	7.4	10.4	8.3	8.7	13.8	6.0	6.7	10.1
101 to 200 miles	8.8	9.5	12.3	9.2	8.6	12.5	6.4	6.6	9.6
201 to 500 miles	12.5	36.6	18.0	12.1	15.0	11.7	6.2	23.9	32.5
501 miles or more	13.1	25.8	20.8	13.1	12.3	13.6	6.8	18.0	20.3
Not reported	11.5	29.3	185.2	13.8	N	N	11.7	N	N
Not applicable	17.2	N	N	38.0	N	N	34.9	N	N
PRIMARY JURISDICTION									
Operated in Canada	41.6	N	N	44.4	N	N	14.3	N	N
Operated in Mexico	N	N	N	N	N	N	N	N	N
Operated within the home base state	3.6	N	N	5.4	N	N	3.5	N	N
Operated in states other than the home base state	6.8	N	N	6.7	N	N	5.2	N	N
Not reported	11.8	N	N	14.3	N	N	11.9	N	N
Not applicable ¹	17.2	N	N	38.0	N	N	34.9	N	N
MONTHS OPERATED									
12	6.0	N	N	5.2	N	N	3.6	N	N
7 to 11	5.1	N	N	7.0	N	N	6.2	N	N
2 to 6	6.0	N	N	10.8	N	N	9.8	N	N
1 or less	14.8	N	N	35.2	N	N	33.3	N	N
Vehicle not used	17.2	N	N	38.0	N	N	34.9	N	N
VEHICLE SIZE									
Light	7.3	8.9	7.3	11.5	12.7	8.6	9.0	9.0	10.2
Medium	6.3	8.3	11.5	9.3	13.2	20.5	6.9	8.5	12.5
Light-heavy	17.1	27.4	42.2	24.7	37.4	76.6	9.9	19.0	28.1
Heavy-heavy	2.5	4.6	6.6	3.4	8.1	8.7	3.5	6.2	5.6
AVERAGE WEIGHT (POUNDS)									
Less than 6,001	20.3	32.6	17.2	31.5	41.8	17.8	24.4	17.2	22.7
6,001 to 8,500	13.7	N	N	21.0	N	N	16.2	N	N
8,501 to 10,000	10.9	N	N	16.0	N	N	12.0	N	N
10,001 to 14,000	10.2	12.1	13.3	13.9	18.3	23.8	9.9	10.9	18.1
14,001 to 16,000	15.1	17.0	27.1	21.5	23.0	34.8	15.7	15.1	20.2
16,001 to 19,500	12.3	17.3	39.3	16.2	20.9	64.9	10.7	15.3	24.7
19,501 to 26,000	17.1	27.4	42.2	24.7	37.4	76.6	9.9	19.0	28.1
26,001 to 33,000	9.1	10.4	17.3	14.5	16.9	22.1	11.0	13.3	13.8
33,001 to 40,000	11.3	12.7	21.1	16.3	24.4	38.6	13.8	21.5	26.9
40,001 to 50,000	11.7	9.5	15.0	20.1	12.2	11.8	15.9	10.3	9.5
50,001 to 60,000	5.9	14.4	18.6	8.5	40.3	22.2	6.9	30.8	14.2
60,001 to 80,000	3.7	8.3	11.7	5.0	5.6	8.6	3.5	5.0	5.4
80,001 to 100,000	12.7	14.1	32.9	14.5	17.5	34.2	8.5	10.4	11.7
100,001 to 130,000	35.8	40.6	N	48.5	43.9	16.7	48.6	17.0	N
130,001 or more	N	N	N	N	N	N	N	N	N
TOTAL LENGTH (FEET)									
Less than 20.0	10.3	8.6	14.8	20.3	12.7	27.3	11.3	7.8	14.3
20.0 to 27.9	4.4	10.4	9.8	6.9	13.8	14.7	5.4	7.7	10.3
28.0 to 35.9	7.3	10.4	14.6	10.5	13.1	16.8	7.7	11.3	11.9
36.0 to 40.9	11.6	16.4	54.5	21.4	18.9	94.3	18.3	11.9	26.5
41.0 to 44.9	17.6	25.4	79.4	20.3	28.5	88.8	17.4	20.5	26.6
45.0 to 49.9	19.8	20.7	50.4	21.6	24.6	23.0	16.4	19.1	10.0
50.0 to 54.9	17.7	S	S	25.3	S	S	21.2	S	S
55.0 to 59.9	10.9	10.6	19.0	13.3	12.1	20.2	8.5	8.2	10.6
60.0 to 64.9	7.8	14.6	13.4	8.9	22.9	16.5	5.6	9.4	9.1
65.0 to 69.9	8.8	8.3	12.9	10.1	8.9	12.3	5.0	5.1	6.1
70.0 to 74.9	13.5	20.0	61.9	14.8	23.3	68.3	6.1	11.8	12.9
75.0 to 79.9	S	N	N	S	N	N	S	N	N
80.0 or more	N	N	N	N	N	N	N	N	N
MILES PER GALLON									
Less than 5	5.8	11.3	14.2	7.8	12.8	16.4	6.7	8.6	10.8
5 to 6.9	4.1	10.0	10.3	5.0	10.8	10.6	4.5	10.7	10.8
7 to 8.9	7.4	12.1	9.1	11.9	18.4	12.9	9.5	8.9	11.8
9 to 10.9	7.6	14.4	16.6	12.0	15.8	19.2	9.2	10.9	13.5
11 to 12.9	29.9	11.5	39.0	43.7	16.1	57.1	15.5	11.5	19.4
13 to 14.9	18.5	21.6	35.2	25.0	25.3	38.5	17.7	16.6	21.2
15 or more	15.1	17.6	27.9	22.9	23.7	32.7	17.4	17.4	20.3
15 to 20.9	15.1	17.9	28.8	22.9	24.1	33.6	17.4	17.7	20.4
21 to 24.9	N	S	S	N	S	S	N	S	S
25 or more	N	N	N	N	N	N	N	N	N
Not reported	8.3	19.6	113.3	11.0	27.3	292.7	9.3	27.9	54.8
Not applicable ¹	17.2	N	N	38.0	N	N	34.9	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
MODEL YEAR									
2003	31.4	N	N	35.9	N	N	27.6	N	N
2002	16.2	N	N	19.8	N	N	15.4	N	N
2001	11.3	N	N	11.4	N	N	8.1	N	N
2000	9.2	N	N	9.6	N	N	7.3	N	N
1999	9.3	N	N	10.5	N	N	8.3	N	N
1998	12.6	S	S	13.1	S	S	9.4	S	S
1997	32.3	34.6	53.1	24.9	22.2	29.0	10.8	15.3	14.5
1996	15.2	21.2	16.1	16.4	31.2	7.6	10.8	13.7	6.1
1995	12.1	12.0	17.7	14.0	11.5	9.5	10.7	9.3	7.1
1994	14.5	21.9	22.7	17.3	18.0	12.0	14.2	10.9	9.9
1993	16.6	14.4	19.0	19.6	13.4	5.8	14.4	10.6	5.1
Pre-1993	3.1	5.0	4.0	6.6	4.9	3.6	6.1	4.3	4.7
VEHICLE ACQUISITION									
New	6.4	8.1	13.2	5.5	10.2	12.8	3.8	7.6	7.3
Used	3.0	6.9	7.4	5.7	6.6	8.7	5.3	5.3	7.6
Not reported	13.7	16.6	13.0	15.0	16.3	11.4	12.1	8.9	12.8
LEASE CHARACTERISTICS									
Leased	7.8	N	N	8.9	N	N	6.8	N	N
Lessee	10.8	N	N	11.6	N	N	9.0	N	N
Vehicle only	10.8	N	N	11.6	N	N	9.0	N	N
Vehicle with driver	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Lessor	11.9	N	N	13.2	N	N	8.9	N	N
Vehicle only	12.2	N	N	13.7	N	N	9.3	N	N
Vehicle with driver	46.3	N	N	49.3	N	N	15.8	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	S	N	N	S	N	N	S	N	N
Not leased	5.5	N	N	6.3	N	N	3.7	N	N
Not reported	4.2	N	N	6.3	N	N	5.5	N	N
Length of leasing agreement:									
Leased	7.8	N	N	8.9	N	N	6.8	N	N
1 to 11 months	S	N	N	S	N	N	S	N	N
12 months or more	7.9	N	N	9.0	N	N	6.8	N	N
Not reported	S	N	N	S	N	N	S	N	N
Provisions of lease:									
Financing only	11.6	N	N	12.8	N	N	10.1	N	N
Full maintenance	10.5	N	N	11.6	N	N	7.8	N	N
Payment of taxes	13.2	N	N	14.8	N	N	10.3	N	N
Obtaining licenses and permits	13.5	N	N	15.4	N	N	10.9	N	N
Recordkeeping	27.1	N	N	26.8	N	N	14.4	N	N
Fuel contract	26.5	N	N	29.2	N	N	13.9	N	N
PRIMARY OPERATOR CLASSIFICATION									
Private	2.0	N	N	4.4	N	N	4.0	N	N
Motor carrier	14.8	N	N	8.5	N	N	8.6	N	N
Owner operator	9.1	N	N	10.5	N	N	8.8	N	N
Rental	14.7	N	N	15.1	N	N	10.2	N	N
Personal transportation	S	N	N	S	N	N	S	N	N
Not applicable ¹	17.2	N	N	38.0	N	N	34.9	N	N
For-hire characteristics:									
Type of carrier:									
Contract	22.9	N	N	11.5	N	N	13.8	N	N
Common	7.1	N	N	7.9	N	N	6.2	N	N
Not reported	16.1	N	N	20.5	N	N	17.6	N	N
Not applicable ³	1.8	N	N	4.2	N	N	3.8	N	N
Type of service:									
Truckload	5.5	7.5	24.6	5.6	7.5	15.0	4.5	5.2	4.2
Less-than truckload	30.7	18.4	215.7	21.7	18.0	96.6	13.5	17.4	12.5
Not reported	16.7	N	N	21.6	N	N	19.0	N	N
Not applicable ³	1.8	N	N	4.2	N	N	3.8	N	N
Source of hauls:									
Shippers or receivers	15.1	N	N	9.0	N	N	8.7	N	N
Brokers	18.8	N	N	18.0	N	N	12.1	N	N
Centralized markets or exchanges	34.6	N	N	43.7	N	N	36.0	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	10.2	N	N	11.8	N	N	9.6	N	N
Not applicable ³	1.8	N	N	4.2	N	N	3.8	N	N
HAZARDOUS MATERIALS CARRIED⁴									
Carrying hazardous materials	11.8	12.5	18.3	13.4	11.7	19.6	10.5	10.1	15.1
Not carrying hazardous materials	3.8	5.2	6.4	4.8	7.6	8.2	3.1	6.3	6.3
Not reported	8.6	10.5	17.2	12.6	13.0	23.0	11.2	12.1	16.6
Not applicable ⁵	11.0	N	N	14.8	N	N	12.6	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	15.9	N	N	19.0	N	N	10.2	N	N
Air bag(s) (safety device only)	8.3	17.1	38.2	10.5	11.8	15.8	8.5	9.3	6.3
Air compressor (except air brakes)	13.1	N	N	15.2	N	N	12.3	N	N
Air-conditioning	3.4	7.0	11.7	3.8	9.5	11.6	3.3	6.4	5.4
Air springs	6.1	N	N	6.6	N	N	3.8	N	N
Antilock brake system	4.4	23.2	60.0	4.7	14.9	42.5	3.9	11.5	13.0
Collision warning system	35.0	N	N	S	N	N	S	N	N
Computerized drive train control unit	17.6	N	N	19.2	N	N	13.3	N	N
Crane	16.0	N	N	19.2	N	N	12.3	N	N
Electronic vehicle identification device	S	15.1	S	S	20.8	S	S	14.2	S
Engine retarder/brake	2.9	6.2	8.8	4.1	4.8	7.1	3.5	4.7	5.1
Front-wheel drive	N	N	N	N	N	N	N	N	N
Hoist	6.7	N	N	9.4	N	N	7.8	N	N
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	48.1	N	N	30.2	N	N	22.3	N	N
Internet access	S	N	N	S	N	N	S	N	N
Lift gate	14.0	N	N	19.8	N	N	13.2	N	N
Mounting bar for snowplow	11.6	N	N	15.8	N	N	10.5	N	N
Navigational system	S	S	S	S	S	S	S	S	S
Power take-off	3.8	N	N	5.4	N	N	4.7	N	N
Radial tires	4.7	5.6	7.3	4.7	7.5	8.2	3.1	5.9	6.2
Reflective material in addition to those required by law	6.2	6.5	9.8	7.3	6.6	8.2	6.2	6.4	6.8
Road speed governor	11.7	12.3	16.7	8.0	13.8	15.3	6.3	10.5	12.0
Toolbox	5.1	N	N	6.7	N	N	5.6	N	N
Trip recorder or on-board computer with communication capabilities	S	N	N	48.4	N	N	S	N	N
Trip recorder or on-board computer without communication capabilities	14.3	N	N	15.1	N	N	11.4	N	N
Vehicle control aids for handicapped drivers	N	N	N	N	N	N	N	N	N
Wheelchair lift	N	N	N	N	N	N	N	N	N
Winch	12.5	N	N	15.4	N	N	9.8	N	N
Transmission type:									
Automatic	6.1	N	N	8.5	N	N	6.1	N	N
Manual	4.0	N	N	4.5	N	N	3.1	N	N
Semiautomated manual	S	N	N	S	N	N	S	N	N
Automated manual	N	N	N	N	N	N	N	N	N
Not reported	14.7	N	N	16.9	N	N	14.3	N	N
Braking system:									
Hydraulic (standard)	5.2	6.3	10.0	8.6	9.7	17.4	6.9	8.1	11.6
Hydraulic with power assist	13.8	13.1	18.7	23.9	20.3	26.7	11.7	9.7	13.1
Air	2.5	7.0	8.3	3.6	8.2	8.7	3.5	7.8	7.5
Other	N	28.6	N	N	37.3	N	N	28.8	N
Not reported	13.5	N	N	16.2	N	N	12.8	N	N
FUEL TYPE AND ENGINE SIZE									
Fuel type:									
Gasoline	4.9	6.1	5.8	9.3	10.0	9.7	7.9	7.3	10.2
Diesel	4.3	7.4	11.0	4.2	7.6	9.3	3.0	6.8	6.1
Natural gas	S	N	N	S	N	N	S	N	N
Propane	43.4	N	N	48.0	N	N	20.5	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	S	N	N	S	N	N	S	N	N
Not applicable ¹	17.2	N	N	38.0	N	N	34.9	N	N
Cylinders ⁶ :									
4 cylinders	15.5	39.9	35.4	20.7	44.2	23.9	14.8	8.9	10.3
6 cylinders	2.7	9.9	13.2	3.4	8.6	9.8	3.2	8.5	7.5
8 cylinders	8.5	5.8	9.9	17.1	8.3	17.6	9.7	6.0	11.1
Other	7.3	6.9	8.2	12.5	9.3	11.8	11.4	8.5	13.3
Cubic inch displacement ⁶ :									
Gasoline fuel	4.9	6.1	5.8	9.3	10.0	9.7	7.9	7.3	10.2
Less than 200	S	N	S	S	N	S	S	N	S
200 to 299	21.4	S	S	25.5	S	S	13.9	S	S
300 to 349	32.2	35.6	56.0	48.9	48.7	126.8	36.8	31.3	76.0
350 to 399	9.2	11.6	8.8	14.3	15.1	8.8	11.2	10.0	10.7
400 or more	10.9	10.7	13.9	15.3	14.4	15.7	10.7	9.7	11.9
Not available	14.3	11.1	10.5	27.8	16.6	12.2	23.8	12.7	17.5
Diesel fuel	4.3	7.4	11.0	4.2	7.6	9.3	3.0	6.8	6.1
Less than 400	10.6	19.5	32.4	13.8	22.8	24.7	8.9	9.4	8.2
400 to 599	10.4	17.5	38.5	13.6	20.4	41.0	5.4	7.9	8.4
600 to 799	4.7	20.1	20.7	6.9	20.4	20.5	5.6	20.3	19.9
800 or more	4.8	4.4	6.9	6.5	5.1	7.5	4.8	3.9	5.4
Not available	7.9	7.8	9.5	12.3	11.1	19.5	11.0	10.2	20.6
Other fuel	40.8	41.6	52.6	42.7	41.3	53.1	21.2	24.2	31.9
Less than 400	N	S	S	N	S	S	N	S	S
400 or more	40.8	S	S	42.7	S	S	21.2	S	S
Not available	N	S	S	N	S	S	N	S	S
Not reported	S	N	N	S	N	N	S	N	N
Not applicable ¹	17.2	N	N	38.0	N	N	34.9	N	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	2002 trucks	1997 trucks	Percent change	2002 truck miles	1997 truck miles	Percent change	2002 average miles per truck	1997 average miles per truck	Percent change
	A	B	C	D	E	F	G	H	I
REFUELING LOCATION									
Gas station	3.1	N	N	5.9	N	N	5.2	N	N
Truck stop	7.2	N	N	7.9	N	N	6.3	N	N
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	8.3	N	N	8.4	N	N	4.0	N	N
Other company's/contractor's facility not open to the public	14.3	N	N	16.8	N	N	13.5	N	N
Other	N	N	N	N	N	N	N	N	N
Not reported	20.5	N	N	26.1	N	N	20.2	N	N
Not applicable ¹	17.2	N	N	38.0	N	N	34.9	N	N
MAINTENANCE									
General maintenance performed by:									
None performed	29.2	47.9	150.4	47.2	S	S	38.4	S	S
Company-owned maintenance facility	6.6	7.2	13.6	6.0	11.7	15.9	3.9	9.4	8.9
General repair business or private mechanic	4.8	6.4	11.4	7.2	8.6	15.9	6.3	7.5	9.8
Dealership service department	8.2	10.2	18.7	9.4	11.2	20.0	7.8	8.6	11.1
Leasing company	16.6	S	S	16.9	33.2	23.2	8.7	S	S
Individual not employed/paid by any maintenance type facility:									
Other	5.3	8.6	5.8	8.2	6.8	5.4	7.5	6.5	8.8
Not reported	N	N	N	N	N	N	N	N	N
Not reported	21.3	19.9	10.0	26.5	32.5	16.9	21.1	18.9	33.2
Not applicable ¹	17.2	N	N	38.0	N	N	34.9	N	N
Extensive repairs performed by:									
None performed	4.0	19.7	678.9	5.1	23.1	617.1	3.3	23.7	18.5
Company-owned maintenance facility	10.8	8.0	4.3	12.3	8.0	6.4	10.2	6.0	16.2
General repair business or private mechanic	10.4	5.9	4.3	14.1	8.7	4.5	11.8	7.4	10.4
Dealership service department	11.7	8.5	5.3	12.0	18.5	7.1	9.9	13.0	14.5
Leasing company	S	S	S	S	37.1	S	S	S	S
Component distributorship (engine, transmission, body, etc.)									
Individual not employed/paid by any repair type facility	29.0	12.1	7.2	28.6	12.4	6.6	24.6	11.3	25.0
Other	N	S	S	N	S	S	N	S	S
Not reported	S	8.5	S	S	10.8	S	S	7.6	S
Not applicable ¹	17.2	N	N	38.0	N	N	34.9	N	N
TRUCK TYPE AND AXLE ARRANGEMENT									
Single-unit trucks and truck-tractors without trailer:									
2 axles	3.6	5.5	7.0	6.7	7.5	10.8	4.0	4.8	6.3
3 axles	4.5	5.5	7.7	8.6	9.8	14.4	5.1	6.1	8.2
4 axles	4.6	17.8	16.3	7.8	10.0	10.5	6.2	10.2	11.1
5 axles or more	12.0	15.0	43.2	15.1	17.6	45.9	9.0	9.0	11.2
Not reported	N	N	N	N	N	N	N	N	N
Combinations	3.9	7.6	9.6	4.4	10.3	10.8	4.0	6.2	6.4
Single-unit trucks with trailer:									
3 axles	14.9	19.0	38.1	19.7	21.3	37.1	15.8	15.9	18.2
4 axles	37.6	39.7	61.0	S	S	S	S	S	S
5 axles or more	21.1	28.0	57.3	29.5	37.1	58.8	19.8	25.9	24.7
Not reported	23.9	24.2	59.1	31.6	29.8	60.8	25.6	17.5	25.0
Truck-tractors with single trailer:	S	N	N	N	N	N	S	N	N
3 axles	3.5	8.4	9.5	4.6	10.6	11.0	3.3	5.9	6.1
4 axles	S	S	S	S	S	S	S	S	S
5 axles or more	19.8	18.8	38.6	31.4	19.6	43.8	22.8	14.0	22.3
Not reported	3.8	7.2	8.2	4.8	5.0	6.7	3.0	4.6	5.3
Truck-tractors with double trailers:	17.8	N	N	21.8	N	N	13.0	N	N
5 axles	S	S	S	S	S	S	S	S	S
6 axles	N	N	N	N	N	N	N	N	N
7 axles	N	N	N	N	N	N	N	N	N
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	5.1	5.9	7.9	8.7	14.8	15.2	5.2	12.0	11.5
2	2.7	8.3	10.3	3.5	4.2	6.0	3.6	6.9	7.2
3 or more	S	39.5	S	S	46.9	S	S	48.5	S
Not reported	37.9	N	N	44.1	N	N	21.5	N	N
Total liftable axles and locations:									
None	3.0	9.3	30.1	4.0	16.5	44.9	2.7	12.7	11.1
1	11.3	12.8	36.2	14.6	15.6	35.5	8.1	9.0	9.5
Forward of the drive axle	15.1	N	N	18.3	N	N	9.4	N	N
Below the chassis	23.5	N	N	33.3	N	N	18.5	N	N
Beyond the chassis	S	N	N	S	N	N	S	N	N
Not reported	29.3	N	N	39.0	N	N	25.4	N	N
2 or more	N	S	S	N	S	S	N	S	S
Forward of the drive axle	N	N	N	N	N	N	N	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	29.3	N	N	36.6	N	N	21.6	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	3.0	9.3	30.1	4.0	16.5	44.9	2.7	12.7	11.1
1	11.3	12.8	36.2	14.6	15.6	35.5	8.1	9.0	9.5
0 braking	36.7	N	N	43.8	N	N	17.3	N	N
1 braking	12.0	N	N	15.6	N	N	8.7	N	N
Not reported	S	N	N	S	N	N	S	N	N
2 or more	N	S	S	N	S	S	N	S	S
0 braking	N	N	N	N	N	N	N	N	N
1 braking	N	N	N	N	N	N	N	N	N
2 or more braking	N	N	N	N	N	N	N	N	N
Not reported	N	N	N	N	N	N	N	N	N
Not reported	29.3	N	N	36.6	N	N	21.6	N	N
CAB TYPE									
Conventional cab	1.2	5.2	6.1	3.1	7.6	8.4	3.0	6.3	6.2
With sleeper	5.4	N	N	6.2	N	N	3.0	N	N
Without sleeper	1.4	N	N	4.0	N	N	3.8	N	N
Not reported	41.1	N	N	41.6	N	N	6.7	N	N
Cab over engine	23.7	9.9	38.3	22.0	11.7	42.9	5.8	8.9	12.3
With sleeper	21.4	N	N	26.4	N	N	16.1	N	N
Without sleeper	25.3	N	N	24.7	N	N	5.6	N	N
Not reported	N	N	N	N	N	N	N	N	N
Cab forward of engine	47.4	22.5	N	S	23.7	S	S	16.7	S
Cab beside engine	S	43.7	S	N	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	244.1	227.3	5.6	2.9	8.4	X
Coefficient of variation (percent) .....	.8	1.0	19.0	17.1	2.5	X
BUSINESS¹						
For-hire transportation or warehousing	4.8	S	.7	S	1.8	19.7
Vehicle leasing or rental	1.5	S	.1	S	.3	45.2
Agriculture, forestry, fishing, or hunting	7.5	5.2	.6	.3	1.4	19.7
Mining	S	S	V	S	.2	S
Utilities	1.1	S	V	S	.4	45.8
Construction	17.3	14.4	.5	.4	1.9	14.1
Manufacturing	S	S	.1	S	.2	S
Wholesale trade	2.4	S	.3	.3	.4	33.7
Retail trade	6.0	4.5	S	.2	.5	24.5
Information services	1.7	S	.2	V	.1	47.7
Waste management, landscaping, or administrative/support services	4.2	3.0	.2	.3	.7	27.6
Arts, entertainment, or recreation services .....	.2	.1	.1	S	.1	31.2
Accommodation or food services	2.6	2.4	S	.1	.1	40.4
Other services	4.5	4.4	S	.1	V	30.8
Personal transportation	182.0	180.1	1.9	V	S	2.4
Not reported	1.4	S	.1	S	.2	46.8
Not applicable ²	5.6	5.3	.1	S	.2	27.5
BODY TYPE						
Single-unit trucks	241.3	227.3	5.6	2.9	5.5	.8
Pickup	114.8	113.4	S	V	V	1.3
Minivan	36.1	36.1	V	V	V	9.4
Other light vans	8.3	7.9	S	V	V	22.7
Sport utility	67.7	67.2	S	V	V	5.4
Armored	S	V	V	V	S	S
Beverage .....	.3	V	S	.1	.1	24.8
Concrete mixer .....	.1	V	V	V	.1	27.8
Concrete pumper	V	V	V	V	V	41.5
Crane .....	.2	V	V	S	.2	25.6
Curtainside	S	V	V	V	S	S
Dump	4.4	.7	.7	.6	2.3	4.8
Flatbed, stake, or platform	2.3	.6	.8	.4	.5	7.8
Low boy	V	V	V	V	V	N
Pole, logging, pulpwood, or pipe .....	.2	V	V	V	.2	22.1
Service, utility .....	.8	.2	.2	.1	.4	14.8
Service, other .....	.4	.2	.1	S	S	19.7
Street sweeper	V	V	V	V	V	N
Tank, dry bulk	S	V	V	V	S	S
Tank, liquids or gases .....	.8	V	V	.1	.7	13.2
Tow/Wrecker .....	.5	.1	.3	S	.1	17.5
Trash, garbage, or recycling .....	.5	V	S	S	.4	15.9
Vacuum .....	.1	V	V	S	V	35.4
Van, basic enclosed	1.2	.3	.4	.4	.1	11.0
Van, insulated nonrefrigerated	S	V	S	V	V	S
Van, insulated refrigerated .....	.4	V	.1	.2	.2	20.0
Van, open top .....	.1	V	S	V	.1	35.5
Van, step, walk-in, or multistop	1.7	.4	.5	V	V	29.2
Van, other .....	.2	V	.1	S	S	31.7
Other	S	S	V	V	V	S
Truck-tractors	2.9	V	V	S	2.8	3.4
Automobile carrier	V	V	V	V	V	46.3
Beverage	S	V	V	V	S	S
Curtainside	V	V	V	V	V	N
Dump .....	.1	V	V	V	.1	22.2
Flatbed, stake, or platform .....	.6	V	V	V	.6	9.8
Livestock	V	V	V	V	V	N
Low boy .....	.2	V	V	V	.2	18.7
Mobile home toter	S	V	V	V	S	S
Open top .....	.2	V	V	V	.2	19.4
Pole, logging, pulpwood, or pipe .....	.1	V	V	V	.1	27.9
Tank, dry bulk .....	.1	V	V	V	.1	35.0
Tank, liquids or gases .....	.3	V	V	V	.3	13.8
Van, basic enclosed	1.0	V	V	S	1.0	7.4
Van, drop-frame	V	V	V	V	V	37.8
Van, insulated nonrefrigerated	S	V	V	V	S	S
Van, insulated refrigerated .....	.2	V	V	V	.2	19.3
Other	S	V	V	V	S	S
Not applicable ³ .....	.1	V	V	S	.1	30.8
ANNUAL MILES						
Less than 5,000	40.7	36.4	1.5	.9	1.9	9.2
5,000 to 9,999	43.8	41.2	1.0	.3	1.3	9.1
10,000 to 19,999	111.9	108.5	1.2	.6	1.5	4.7
20,000 to 29,999	28.9	26.4	1.0	S	.8	11.6
30,000 to 49,999	8.4	6.7	S	.2	.7	21.3
50,000 to 74,999	2.7	1.9	.1	.1	.7	34.5
75,000 or more	2.2	S	S	V	1.3	30.0
Not applicable ²	5.6	5.3	.1	S	.2	27.5
PRIMARY RANGE OF OPERATION						
Off-the-road	1.0	S	S	S	.3	46.7
50 miles or less	181.2	170.9	3.7	2.1	4.5	2.6
51 to 100 miles	15.0	12.9	.6	.4	1.1	15.8
101 to 200 miles	5.7	4.7	.1	.1	.9	25.7
201 to 500 miles	3.3	2.8	S	S	.4	34.0
501 miles or more	3.7	2.8	S	S	.4	33.5
Not reported	28.6	27.3	S	.2	.5	11.8
Not applicable ²	5.6	5.3	.1	S	.2	27.5

See footnotes at end of table.

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

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

Vehicular and operational characteristics	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	41.6
Operated in Mexico.....	V	V	V	V	V	N
Operated within the home base state.....	210.3	197.1	4.2	2.6	6.4	1.9
Operated in states other than the home base state.....	12.8	10.3	S	S	1.3	17.5
Not reported.....	15.4	14.6	.2	.2	.5	16.3
Not applicable ²	5.6	5.3	.1	S	.2	27.5
MONTHS OPERATED						
12.....	160.5	151.4	3.2	1.8	4.2	3.1
7 to 11.....	38.6	34.8	1.2	.3	2.3	9.7
2 to 6.....	34.6	31.5	1.0	.6	1.5	10.3
1 or less.....	4.8	4.4	.1	.1	.2	28.9
Vehicle not used.....	5.6	5.3	.1	S	.2	27.5
AVERAGE WEIGHT (POUNDS)						
Less than 6,001.....	181.0	181.0	N	N	N	2.5
6,001 to 8,500.....	37.4	37.4	N	N	N	10.2
8,501 to 10,000.....	8.9	8.9	N	N	N	20.8
10,001 to 14,000.....	3.4	N	3.4	N	N	28.1
14,001 to 16,000.....	.7	N	.7	N	N	15.1
16,001 to 19,500.....	1.5	N	1.5	N	N	32.3
19,501 to 26,000.....	2.9	N	N	2.9	N	17.1
26,001 to 33,000.....	1.8	N	N	N	1.8	9.1
33,001 to 40,000.....	1.0	N	N	N	1.0	11.3
40,001 to 50,000.....	.7	N	N	N	.7	11.7
50,001 to 60,000.....	1.8	N	N	N	1.8	5.9
60,001 to 80,000.....	2.6	N	N	N	2.6	3.7
80,001 to 100,000.....	.4	N	N	N	.4	12.7
100,001 to 130,000.....	.1	N	N	N	.1	35.8
130,001 or more.....	V	N	N	N	V	N
TOTAL LENGTH (FEET)						
Less than 20.0.....	209.9	205.1	2.7	1.2	1.0	1.7
20.0 to 27.9.....	21.7	16.7	1.7	1.0	2.3	12.4
28.0 to 35.9.....	7.4	5.4	.6	.3	1.1	20.7
36.0 to 40.9.....	1.0	.1	S	.1	.8	11.6
41.0 to 44.9.....	S	S	S	.1	.3	S
45.0 to 49.9.....	.3	V	S	S	.2	19.8
50.0 to 54.9.....	.3	V	S	S	.3	17.7
55.0 to 59.9.....	.6	V	V	S	.6	10.9
60.0 to 64.9.....	.9	V	V	V	.9	7.8
65.0 to 69.9.....	.7	V	V	V	.7	8.8
70.0 to 74.9.....	.3	V	V	V	.3	13.5
75.0 to 79.9.....	S	V	V	V	S	S
80.0 or more.....	V	V	V	V	V	N
MILES PER GALLON						
Less than 5.....	2.3	S	.1	.2	2.0	5.8
5 to 6.9.....	4.8	.1	.4	.4	3.8	4.1
7 to 8.9.....	2.5	.5	.6	.6	3.8	7.4
9 to 10.9.....	11.3	9.2	1.2	.6	6.6	17.8
11 to 12.9.....	17.7	16.3	.6	.6	6.6	15.0
13 to 14.9.....	20.3	21.1	.6	.6	6.6	14.1
15 or more.....	155.9	154.7	.6	.6	6.6	3.2
15 to 20.9.....	108.8	107.6	.6	.6	6.6	4.8
21 to 24.9.....	28.4	28.4	V	V	V	11.9
25 or more.....	18.7	18.7	V	V	V	15.2
Not reported.....	22.9	20.8	S	.4	.8	13.1
Not applicable ²	5.6	5.3	.1	S	.2	27.5
MODEL YEAR						
2003.....	.1	V	S	V	.1	31.4
2002.....	17.9	17.4	.2	.1	.1	15.3
2001.....	21.0	19.2	S	.1	.5	14.0
2000.....	23.4	21.6	S	.2	.8	13.1
1999.....	22.8	21.1	S	.1	.9	13.2
1998.....	22.3	21.7	.1	.2	.4	13.5
1997.....	16.5	15.1	.3	S	.4	15.8
1996.....	15.0	14.6	.1	S	.3	16.9
1995.....	11.7	10.9	.3	.2	.4	18.8
1994.....	14.2	13.8	.1	S	.3	17.2
1993.....	13.1	12.7	.1	S	.3	18.1
Pre-1993.....	66.2	59.3	1.7	1.2	3.9	6.8
VEHICLE ACQUISITION						
New.....	107.4	99.0	2.7	1.7	3.9	4.8
Used.....	122.5	115.0	2.3	1.1	4.1	4.3
Not reported.....	14.2	13.2	S	.1	.3	17.2
LEASE CHARACTERISTICS						
Leased.....	14.5	12.7	.3	.3	1.3	16.3
Lessee.....	11.8	10.8	.2	.1	.7	18.6
Vehicle only.....	1.0	S	.2	.1	.7	10.8
Vehicle with driver.....	V	V	V	V	V	N
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	10.7	10.7	V	V	V	20.3
Lessor.....	1.3	S	.1	.2	.6	36.7
Vehicle only.....	.8	S	.1	.2	.5	12.2
Vehicle with driver.....	V	V	V	V	V	46.3
Not reported.....	V	V	V	V	V	N
Not applicable ⁴	S	S	V	V	V	S
Not leased.....	S	S	V	V	S	S
Not reported.....	124.8	115.6	2.8	2.0	4.4	4.2
Not reported.....	104.8	99.0	2.5	.7	2.7	5.0

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	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
LEASE CHARACTERISTICS—Con.						
Length of leasing agreement:						
Leased	14.5	12.7	.3	.3	1.3	16.3
1 to 11 months	S	V	V	S	S	S
12 months or more	1.8	.1	.3	.3	1.3	7.9
Not reported	S	V	V	V	S	S
Not applicable ⁴	12.6	12.6	V	V	V	18.7
Provisions of lease ⁵ :						
Financing only	1.0	S	.2	.1	.6	11.6
Full maintenance	1.0	S	.1	.2	.7	10.5
Payment of taxes	.7	S	S	.2	.4	13.2
Obtaining licenses and permits	.7	S	S	.2	.4	13.5
Recordkeeping	.1	V	V	S	.1	27.1
Fuel contract	.1	V	V	V	.1	26.5
PRIMARY OPERATOR CLASSIFICATION						
Private	48.5	39.3	2.2	1.8	5.2	7.8
Motor carrier	4.3	S	.5	S	1.9	19.3
Owner operator	2.3	S	S	S	.8	29.4
Rental	1.5	S	.1	.2	.3	44.5
Personal transportation	182.0	180.1	1.9	V	.6	2.4
Not applicable ²	5.6	5.3	.1	S	.2	27.5
For-hire characteristics:						
Type of carrier:						
Contract	2.1	S	.2	S	1.2	22.9
Common	2.1	.1	.5	.2	1.2	7.1
Not reported	.5	S	.1	S	.3	16.1
Not applicable ⁶	239.5	227.0	4.8	2.0	5.7	.8
Type of service:						
Truckload	2.7	.1	.4	.2	1.9	5.5
Less-than truckload	1.6	S	.3	S	.5	30.7
Not reported	.5	S	.1	S	.3	16.7
Not applicable ⁶	239.5	227.0	4.8	2.0	5.7	.8
Source of hauls:						
Shippers or receivers	3.3	.1	.6	S	1.8	15.1
Brokers	.2	V	S	V	.2	18.8
Centralized markets or exchanges	.1	S	V	V	.1	34.6
Other	V	V	V	V	V	N
Not reported	1.1	.1	.2	.1	.7	10.2
Not applicable ⁶	239.5	227.0	4.8	2.0	5.7	.8
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	1.0	S	.1	.1	.7	11.8
Not carrying hazardous materials	13.4	2.0	2.7	2.3	6.4	3.8
Not reported	1.7	.4	.3	.2	.8	8.6
Not applicable ⁹	228.0	224.8	2.5	.2	.5	.9
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	.7	.1	.2	S	.3	15.9
Air bag(s) (safety device only)	142.2	139.2	2.1	.3	.6	3.6
Air compressor (except air brakes)	.6	S	.1	S	.4	13.1
Air-conditioning	167.6	159.3	3.5	.7	4.1	2.8
Air springs	1.6	V	S	.1	1.5	6.1
Antilock brake system	146.5	140.4	3.1	.7	2.4	3.5
Collision warning system	.1	S	S	S	V	35.0
Computerized drive train control unit	25.1	24.7	.1	.1	.2	12.7
Crane	.5	S	.1	S	.3	16.0
Electronic vehicle identification device	S	S	V	V	S	S
Engine retarder/brake	4.7	.1	.2	.2	4.3	2.9
Front-wheel drive	165.9	164.0	1.9	V	V	2.9
Hoist	2.6	.2	.7	.3	1.4	6.7
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	1.0	S	S	S	.4	48.1
Internet access	S	V	V	V	S	S
Lift gate	.7	.1	.2	.3	.2	14.0
Mounting bar for snowplow	17.7	15.9	1.4	.1	.3	14.9
Navigational system	S	S	V	V	V	S
Power take-off	5.9	.5	.8	.6	4.0	3.8
Radial tires	170.8	158.8	4.4	1.9	5.8	2.9
Reflective material in addition to those required by law	2.8	.2	.6	.2	1.8	6.2
Road speed governor	4.3	.2	.5	1.0	2.6	11.7
Toolbox	19.5	16.2	.7	.5	2.2	13.2
Trip recorder or on-board computer with communication capabilities	8.8	7.5	S	S	.1	22.1
Trip recorder or on-board computer without communication capabilities	36.9	36.5	.1	S	.3	10.3
Vehicle control aids for handicapped drivers	S	S	V	V	V	S
Wheelchair lift	S	S	V	V	V	S
Winch	2.8	S	S	S	.4	33.8
Transmission type:						
Automatic	161.8	157.7	3.1	.4	.5	2.9
Manual	79.4	67.1	2.3	2.4	7.5	5.7
Semiautomated manual	S	V	V	S	S	S
Automated manual	V	V	V	V	V	N
Not reported	3.0	2.5	.1	.1	.3	35.3
Braking system:						
Hydraulic (standard)	4.2	1.4	1.5	.8	.6	5.2
Hydraulic with power assist	3.7	1.0	1.3	1.1	.3	13.8
Air	8.4	.1	.3	.9	7.2	2.5
Other	V	V	V	V	V	N
Not reported	.8	.2	.2	.1	.3	13.5
Not applicable ¹⁰	227.0	224.7	2.4	V	V	.9

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
FUEL TYPE AND ENGINE SIZE						
Fuel type:						
Gasoline	220.3	216.6	2.5	.7	.6	1.3
Diesel	18.2	5.5	3.0	2.1	7.5	9.6
Natural gas	S	V	S	V	V	S
Propane	.1	V	V	S	S	43.4
Alcohol fuels	V	V	V	V	V	N
Electricity	V	V	V	V	V	N
Combination	V	V	V	V	V	N
Other	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ²	5.6	5.3	.1	S	.2	27.5
Cylinders ¹¹ :						
4 cylinders	42.9	42.7	.2	V	S	9.4
6 cylinders	123.0	114.0	1.3	1.3	6.4	4.1
8 cylinders	74.3	68.4	3.8	1.3	.8	6.1
Other	3.9	2.1	.4	.3	1.1	24.2
Cubic inch displacement ¹¹ :						
Gasoline fuel	220.3	216.6	2.5	.7	.6	1.3
Less than 200	63.6	63.6	S	V	V	7.3
200 to 299	94.7	93.8	S	.1	V	5.3
300 to 349	32.6	32.5	S	S	S	11.0
350 to 399	23.0	22.2	.5	.1	.1	12.9
400 or more	4.6	3.4	.5	.2	.2	26.8
Not available	1.7	S	.3	.2	.2	38.9
Diesel fuel	18.2	5.5	3.0	2.1	7.5	9.6
Less than 400	3.6	2.7	.4	.3	.2	29.2
400 to 599	8.7	2.7	2.6	1.6	1.9	16.2
600 to 799	2.5	V	S	.1	2.4	4.7
800 or more	2.1	S	S	S	2.0	4.8
Not available	1.3	.1	S	.1	1.1	7.9
Other fuel	.1	V	S	S	S	40.8
Less than 400	V	V	V	V	V	N
400 or more	.1	V	S	S	V	40.8
Not available	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ²	5.6	5.3	.1	S	.2	27.5
REFUELING LOCATION						
Gas station	215.1	207.4	3.9	1.3	2.6	1.6
Truck stop	4.7	2.4	S	.2	1.4	24.6
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	11.8	6.0	.8	1.4	3.7	14.2
Other company's/contractor's facility not open to the public	1.5	S	S	S	.4	45.1
Other	V	V	V	V	V	N
Not reported	5.5	5.2	S	S	.2	28.0
Not applicable ²	5.6	5.3	.1	S	.2	27.5
MAINTENANCE⁵						
General maintenance performed by:						
None performed	4.9	4.8	S	S	.1	30.0
Company-owned maintenance facility	22.9	15.7	1.3	1.6	4.3	11.4
General repair business or private mechanic	107.9	104.3	.9	.7	2.0	4.8
Dealership service department	67.8	64.3	2.4	.2	.8	6.9
Leasing company	.4	S	S	S	.3	16.6
Individual not employed/paid by any maintenance type facility	82.7	79.1	1.1	.4	2.1	5.9
Other	V	V	V	V	V	N
Not reported	6.8	6.6	S	S	.1	25.2
Not applicable ²	5.6	5.3	.1	S	.2	27.5
Extensive repairs performed by:						
None performed	196.0	183.4	4.0	2.4	6.2	2.2
Company-owned maintenance facility	1.8	S	S	S	.6	37.4
General repair business or private mechanic	16.7	15.3	S	.1	.5	15.6
Dealership service department	11.2	10.0	S	.2	.5	19.1
Leasing company	S	V	V	V	S	S
Component distributorship (engine, transmission, body, etc.)	2.0	1.9	V	S	.1	46.2
Individual not employed/paid by any repair type facility	5.6	5.3	.1	S	.2	27.5
Other	V	V	V	V	V	N
Not reported	S	S	S	S	S	S
Not applicable ²	5.6	5.3	.1	S	.2	27.5
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	237.8	225.3	4.5	2.8	5.3	.9
2 axles	235.1	225.3	4.5	2.7	2.6	1.0
3 axles	2.2	S	S	V	2.2	4.6
4 axles	.5	V	V	V	.5	12.0
5 axles or more	V	V	V	V	V	N
Not reported	S	V	V	S	S	S
Combinations	6.3	2.0	S	.1	3.1	18.3
Single-unit trucks with trailer	3.5	2.0	S	.1	.3	32.9
3 axles	S	S	S	S	S	S
4 axles	1.8	S	S	S	.1	45.6
5 axles or more	.1	V	V	V	.1	23.9
Not reported	S	V	S	V	S	S
Truck-tractors with single trailer	2.8	V	V	S	2.8	3.5
3 axles	S	V	V	V	S	S
4 axles	.3	V	V	S	.2	19.8
5 axles or more	2.3	V	V	V	2.3	3.8
Not reported	.2	V	V	V	.2	17.8
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	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Truck-tractors with triple trailers	V	V	V	V	V	N
7 axles	V	V	V	V	V	N
8 axles	V	V	V	V	V	N
9 axles	V	V	V	V	V	N
10 axles or more	V	V	V	V	V	N
Not reported	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
TRUCK TYPE AND AXLE ARRANGEMENT—Con.						
Driving axles:						
1	71.2	62.5	2.9	2.7	3.0	6.4
2	172.9	164.8	2.7	.2	5.3	2.7
3 or more	S	V	V	V	S	S
Not reported	V	V	V	S	V	37.9
Total liftable axles and locations ¹² :						
None	16.4	2.6	3.2	2.9	7.7	3.0
1 .....	.6	V	V	V	.6	11.3
Forward of the drive axle .....	.3	V	V	V	.3	15.1
Below the chassis .....	.2	V	V	V	.2	23.5
Beyond the chassis	S	V	V	V	S	S
Not reported .....	.1	V	V	V	.1	29.3
2 or more	V	V	V	V	V	N
Forward of the drive axle	V	V	V	V	V	N
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	V	S	.1	29.3
Not applicable ¹⁰	227.0	224.7	2.4	V	V	.9
Total liftable axles and number of braking axles:						
None	16.4	2.6	3.2	2.9	7.7	3.0
1 .....	.6	V	V	V	.6	11.3
0 braking .....	.1	V	V	V	.1	36.7
1 braking .....	.5	V	V	V	.5	12.0
Not reported	S	V	V	V	S	S
2 or more	V	V	V	V	V	N
0 braking	V	V	V	V	V	N
1 braking	V	V	V	V	V	N
2 or more braking	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not reported .....	.1	V	V	S	.1	29.3
Not applicable ¹⁰	227.0	224.7	2.4	V	V	.9
CAB TYPE						
Conventional cab	15.0	2.4	2.6	2.1	7.9	1.2
With sleeper	1.4	V	V	S	1.4	5.4
Without sleeper	13.5	2.4	2.6	2.1	6.4	1.4
Not reported	V	V	V	V	V	41.1
Cab over engine	2.0	.2	.6	S	.4	23.7
With sleeper .....	.1	V	V	V	.1	21.4
Without sleeper	1.9	.2	.6	S	.3	25.3
Not reported	V	V	V	V	V	N
Cab forward of engine	V	S	V	V	V	47.4
Cab beside engine	S	V	V	V	S	S
Not reported	S	V	V	V	S	S
Not applicable ¹⁰	227.0	224.7	2.4	V	V	.9

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

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

²Vehicles not in use.

³Truck-tractors not in use.

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

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

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

⁷Distributed miles data are available in Table 8.

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

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

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

¹¹Data were derived from administrative records.

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

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

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

Table 5. Trucks by Truck Type: 2002

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
Total	244.1	237.8	6.3	3.5	2.8	S	V	X
Coefficient of variation (percent) .....	.8	.9	18.3	32.9	3.5	S	N	X
BUSINESS¹								
For-hire transportation or warehousing	4.8	3.2	1.5	S	1.5	V	V	19.7
Vehicle leasing or rental	1.5	S	.2	V	.2	V	V	45.2
Agriculture, forestry, fishing, or hunting	7.5	6.5	1.0	S	.3	V	V	19.7
Mining	S	S	.1	V	.1	V	V	S
Utilities	1.1	1.0	S	S	S	V	V	45.8
Construction	17.3	16.8	.5	.3	.2	S	V	14.1
Manufacturing	S	S	.1	V	.1	V	V	S
Wholesale trade	2.4	2.3	.1	S	.1	V	V	33.7
Retail trade	6.0	5.9	.1	S	.1	V	V	24.5
Information services	1.7	1.7	V	V	V	V	V	47.7
Waste management, landscaping, or administrative/support services	4.2	3.6	S	S	.1	V	V	27.6
Arts, entertainment, or recreation services .....	.2	.1	S	S	.1	V	V	31.2
Accommodation or food services	2.6	2.5	V	V	V	V	V	40.4
Other services	4.5	4.5	S	V	V	V	V	30.8
Personal transportation	182.0	180.1	1.9	1.9	V	V	V	2.4
Not reported	1.4	1.4	.1	S	.1	V	V	46.8
Not applicable ²	5.6	5.6	V	V	V	V	V	27.5
BODY TYPE								
Single-unit trucks	241.3	237.8	3.5	3.5	N	N	N	.8
Pickup	114.8	113.0	1.9	1.9	N	N	N	1.3
Minivan	36.1	35.7	S	S	N	N	N	9.4
Other light vans	8.3	7.9	S	S	N	N	N	22.7
Sport utility	67.7	67.7	V	V	N	N	N	5.4
Armored	S	S	V	V	N	N	N	S
Beverage .....	.3	.3	V	V	N	N	N	24.8
Concrete mixer .....	.1	.1	V	V	N	N	N	27.8
Concrete pumper	V	V	V	V	N	N	N	41.5
Crane .....	.2	.2	S	S	N	N	N	25.6
Curtainside	S	S	S	S	N	N	N	S
Dump	4.4	4.1	.3	.3	N	N	N	4.8
Flatbed, stake, or platform	2.3	2.0	.2	.2	N	N	N	7.8
Low boy	V	V	V	V	N	N	N	N
Pole, logging, pulpwood, or pipe .....	.2	.2	V	V	N	N	N	22.1
Service, utility .....	.8	.7	.1	.1	N	N	N	14.8
Service, other .....	.4	.4	V	V	N	N	N	19.7
Street sweeper	V	V	V	V	N	N	N	N
Tank, dry bulk	S	S	V	V	N	N	N	S
Tank, liquids or gases .....	.8	.8	S	S	N	N	N	13.2
Tow/Wrecker .....	.5	.5	V	V	N	N	N	17.5
Trash, garbage, or recycling .....	.5	.5	V	V	N	N	N	15.9
Vacuum .....	.1	.1	V	V	N	N	N	35.4
Van, basic enclosed	1.2	1.2	V	V	N	N	N	11.0
Van, insulated nonrefrigerated	S	S	V	V	N	N	N	S
Van, insulated refrigerated .....	.4	.4	S	S	N	N	N	20.0
Van, open top .....	.1	.1	V	V	N	N	N	35.5
Van, step, walk-in, or multistop	1.7	1.7	V	V	N	N	N	29.2
Van, other .....	.2	.2	V	V	N	N	N	31.7
Other	S	S	V	V	N	N	N	S
Truck-tractors	2.9	.1	2.8	N	2.8	S	V	3.4
Automobile carrier	V	N	V	N	V	V	V	46.3
Beverage	S	N	S	N	S	V	V	S
Curtainside	V	N	V	N	V	V	V	N
Dump .....	.1	N	.1	N	.1	V	V	22.2
Flatbed, stake, or platform .....	.6	N	.6	N	.6	V	V	9.8
Livestock	V	N	V	N	V	V	V	N
Low boy .....	.2	N	.2	N	.2	S	V	18.7
Mobile home toter	S	N	S	N	S	V	V	S
Open top .....	.2	N	.2	N	.2	V	V	19.4
Pole, logging, pulpwood, or pipe .....	.1	N	.1	N	.1	V	V	27.9
Tank, dry bulk .....	.1	N	.1	N	.1	V	V	35.0
Tank, liquids or gases .....	.3	N	.3	N	.3	V	V	13.8
Van, basic enclosed	1.0	N	1.0	N	1.0	V	V	7.4
Van, drop-frame	V	N	V	N	V	V	V	37.8
Van, insulated nonrefrigerated	S	N	S	N	S	V	V	S
Van, insulated refrigerated .....	.2	N	.2	N	.2	V	V	19.3
Other	S	N	S	N	S	V	V	S
Not applicable ³ .....	.1	.1	V	N	V	V	V	30.8
ANNUAL MILES								
Less than 5,000	40.7	38.3	2.4	2.2	.2	V	V	9.2
5,000 to 9,999	43.8	43.1	S	S	.2	V	V	9.1
10,000 to 19,999	111.9	111.1	S	S	.2	S	V	4.7
20,000 to 29,999	28.9	28.7	.2	S	.2	V	V	11.6
30,000 to 49,999	8.4	8.0	.4	S	.4	V	V	21.3
50,000 to 74,999	2.7	2.2	.5	S	.5	V	V	34.5
75,000 or more	2.2	S	1.3	S	1.3	V	V	30.0
Not applicable ²	5.6	5.6	V	V	V	V	V	27.5

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination			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	1.0	1.0	S	S	S	V	V	46.7
50 miles or less	181.2	178.7	2.5	1.9	.6	S	V	2.6
51 to 100 miles	15.0	13.9	1.1	S	.5	V	V	15.8
101 to 200 miles	5.7	4.9	.8	V	.7	V	V	25.7
201 to 500 miles	3.3	2.9	.4	S	.4	V	V	34.0
501 miles or more	3.7	2.8	S	S	.4	V	V	33.5
Not reported	28.6	27.9	S	S	.2	V	V	11.8
Not applicable ²	5.6	5.6	V	V	V	V	V	27.5
PRIMARY JURISDICTION								
Operated in Canada	V	V	V	S	V	V	V	41.6
Operated in Mexico	V	V	V	V	V	V	V	N
Operated within the home base state	210.3	206.3	4.0	2.5	1.5	S	V	1.9
Operated in states other than the home base state	12.8	10.6	2.1	S	1.1	V	V	17.5
Not reported	15.4	15.3	.2	S	.2	V	V	16.3
Not applicable ²	5.6	5.6	V	V	V	V	V	27.5
MONTHS OPERATED								
12	160.5	157.9	2.7	S	2.0	V	V	3.1
7 to 11	38.6	36.9	1.7	S	.5	V	V	9.7
2 to 6	34.6	32.8	1.9	S	.3	S	V	10.3
1 or less	4.8	4.8	.1	S	.1	V	V	28.9
Vehicle not used	5.6	5.6	V	V	V	V	V	27.5
VEHICLE SIZE								
Light	227.3	225.3	2.0	2.0	V	V	V	1.0
Medium	5.6	4.5	S	S	V	V	V	19.0
Light-heavy	2.9	2.8	.1	.1	S	V	V	17.1
Heavy-heavy	8.4	5.3	3.1	.3	2.8	S	V	2.5
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	181.0	180.1	S	S	V	V	V	2.5
6,001 to 8,500	37.4	36.4	S	S	V	V	V	10.2
8,501 to 10,000	8.9	8.8	.1	.1	V	V	V	20.8
10,001 to 14,000	3.4	2.8	S	S	V	V	V	28.1
14,001 to 16,000 .....	.7	.6	.1	.1	V	V	V	15.1
16,001 to 19,500	1.5	1.0	S	S	V	V	V	32.3
19,501 to 26,000	2.9	2.8	.1	.1	S	V	V	17.1
26,001 to 33,000	1.8	1.7	.1	.1	S	V	V	9.1
33,001 to 40,000	1.0	.8	.2	S	.1	V	V	11.3
40,001 to 50,000 .....	.7	.6	.1	V	.1	V	V	11.7
50,001 to 60,000	1.8	1.6	.2	.1	.1	V	V	5.9
60,001 to 80,000	2.6	.5	2.1	V	2.0	S	V	3.7
80,001 to 100,000 .....	.4	S	.4	.1	.3	V	V	12.7
100,001 to 130,000 .....	.1	.1	S	V	S	V	V	35.8
130,001 or more	V	V	V	V	V	V	V	N
TOTAL LENGTH (FEET)								
Less than 20.0	209.9	209.9	V	V	V	V	V	1.7
20.0 to 27.9	21.7	20.3	S	S	V	V	V	12.4
28.0 to 35.9	7.4	6.3	S	S	S	V	V	20.7
36.0 to 40.9	1.0	.9	S	.1	.1	V	V	11.6
41.0 to 44.9	S	.3	S	S	.1	V	V	S
45.0 to 49.9 .....	.3	.1	.2	.1	.1	V	V	19.8
50.0 to 54.9 .....	.3	.1	.2	.1	.1	V	V	17.7
55.0 to 59.9 .....	.6	V	.6	S	.6	V	V	10.9
60.0 to 64.9 .....	.9	V	.9	S	.8	V	V	7.8
65.0 to 69.9 .....	.7	V	.7	V	.7	V	V	8.8
70.0 to 74.9 .....	.3	V	.3	S	.3	V	V	13.5
75.0 to 79.9	S	V	S	V	S	V	V	S
80.0 or more	V	V	V	V	V	V	V	N
MILES PER GALLON								
Less than 5	2.3	1.6	.8	.1	.6	S	V	5.8
5 to 6.9	4.8	2.8	1.9	.1	1.8	V	V	4.1
7 to 8.9	2.5	2.3	.2	.1	.1	V	V	7.4
9 to 10.9	11.3	10.7	S	S	V	V	V	17.8
11 to 12.9	17.7	17.2	S	S	V	V	V	15.0
13 to 14.9	21.1	21.0	S	S	V	V	V	14.1
15 or more	155.9	154.5	S	S	V	V	V	3.2
15 to 20.9	108.8	107.4	S	S	V	V	V	4.8
21 to 24.9	28.4	28.4	V	V	V	V	V	11.9
25 or more	18.7	18.7	V	V	V	V	V	15.2
Not reported	22.9	22.2	S	S	.3	V	V	13.1
Not applicable ²	5.6	5.6	V	V	V	V	V	27.5

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)
		Single-unit trucks and truck-tractors without trailer	Combination			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	V	V	V	V	31.4
2002	17.9	17.7	.2	.1	.1	V	15.3
2001	21.0	20.1	S	S	.3	V	14.0
2000	23.4	22.8	.5	.1	.5	V	13.1
1999	22.8	22.2	.5	S	.5	V	13.2
1998	22.3	22.1	.2	S	.2	V	13.5
1997	16.5	16.3	.2	S	.2	V	15.8
1996	15.0	14.9	.1	S	.1	V	16.9
1995	11.7	11.5	.2	S	.2	V	18.8
1994	14.2	14.1	.1	V	.1	V	17.2
1993	13.1	13.1	.1	V	.1	V	18.1
Pre-1993	66.2	62.9	3.2	2.7	.5	S	6.8
VEHICLE ACQUISITION							
New	107.4	105.3	2.1	.3	1.8	V	4.8
Used	122.5	119.4	3.1	2.2	.9	S	4.3
Not reported	14.2	13.2	S	S	.1	V	17.2
LEASE CHARACTERISTICS							
Leased	14.5	13.8	.7	S	.7	V	16.3
Lessee	11.8	11.4	.4	S	.3	V	18.6
Vehicle only	1.0	.6	.4	S	.3	V	10.8
Vehicle with driver	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	N
Not applicable ⁴	10.7	10.7	V	V	V	V	20.3
Lessor	1.3	1.0	.3	V	.3	V	36.7
Vehicle only	.8	.5	.3	V	.3	V	12.2
Vehicle with driver	V	V	V	V	V	V	46.3
Not reported	V	V	V	V	V	V	N
Not applicable ⁴	S	S	V	V	V	V	S
Not reported	S	S	S	V	S	V	S
Not leased	124.8	121.6	3.3	1.7	1.5	V	4.2
Not reported	104.8	102.5	2.3	1.7	.6	S	5.0
Length of leasing agreement:							
Leased	14.5	13.8	.7	S	.7	V	16.3
1 to 11 months	S	S	S	V	S	V	S
12 months or more	1.8	1.1	.7	S	.6	V	7.9
Not reported	S	V	S	V	S	V	S
Not applicable ⁴	12.6	12.6	V	V	V	V	18.7
Provisions of lease ⁵ :							
Financing only	1.0	.7	.3	S	.2	V	11.6
Full maintenance	1.0	.5	.5	V	.5	V	10.5
Payment of taxes	.7	.4	.3	S	.3	V	13.2
Obtaining licenses and permits	.7	.4	.3	S	.2	V	13.5
Recordkeeping	.1	S	.1	V	.1	V	27.1
Fuel contract	.1	S	.1	V	.1	V	26.5
PRIMARY OPERATOR CLASSIFICATION							
Private	48.5	46.1	2.4	1.6	.8	S	7.8
Motor carrier	4.3	2.8	1.4	S	1.4	V	19.3
Owner operator	2.3	1.9	.4	V	.4	V	29.4
Rental	1.5	S	.2	V	.2	V	44.5
Personal transportation	182.0	180.1	1.9	1.9	V	V	2.4
Not applicable ²	5.6	5.6	V	V	V	V	27.5
For-hire characteristics:							
Type of carrier:							
Contract	2.1	1.1	1.0	V	1.0	V	22.9
Common	2.1	1.4	.7	V	.7	V	7.1
Not reported	.5	.3	.1	S	.1	V	16.1
Not applicable ⁶	239.5	235.0	4.4	3.4	1.0	S	.8
Type of service:							
Truckload	2.7	1.2	1.4	V	1.4	V	5.5
Less-than truckload	1.6	1.2	.3	V	.3	V	30.7
Not reported	.5	.3	.1	S	.1	V	16.7
Not applicable ⁶	239.5	235.0	4.4	3.4	1.0	S	.8
Source of hauls:							
Shippers or receivers	3.3	2.0	1.3	S	1.3	V	15.1
Brokers	.2	.1	.2	S	.2	V	18.8
Centralized markets or exchanges	.1	S	V	S	V	V	34.6
Other	V	V	V	V	V	V	N
Not reported	1.1	.7	.3	S	.3	V	10.2
Not applicable ⁶	239.5	235.0	4.4	3.4	1.0	S	.8
HAZARDOUS MATERIALS CARRIED⁷							
Carrying hazardous materials	1.0	.7	.3	V	.3	V	11.8
Not carrying hazardous materials	13.4	10.7	2.7	.6	2.1	S	3.8
Not reported	1.7	1.4	.3	S	.2	V	8.6
Not applicable ⁸	228.0	225.0	3.0	2.8	.2	V	.9
EQUIPMENT TYPE^{5 9}							
Aerial work platform/bucket	.7	.6	S	S	V	V	15.9
Air bag(s) (safety device only)	142.2	140.9	S	S	.3	V	3.6
Air compressor (except air brakes)	.6	.4	.2	S	.2	V	13.1
Air-conditioning	167.6	163.2	4.4	2.0	2.4	V	2.8
Air springs	1.6	.3	1.3	S	1.3	V	6.1

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	146.5	143.8	2.7	S	1.6	V	V	3.5
Collision warning system	.1	.1	S	V	S	V	V	35.0
Computerized drive train control unit	25.1	24.5	S	S	.1	V	V	12.7
Crane	.5	.4	V	S	S	V	V	16.0
Electronic vehicle identification device	S	S	S	V	S	V	V	S
Engine retarder/brake	4.7	2.4	2.3	.1	2.2	V	V	2.9
Front-wheel drive	165.9	164.5	S	S	V	V	V	2.9
Hoist	2.6	2.4	.2	.2	V	V	V	6.7
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	1.0	S	.3	V	.3	V	V	48.1
Internet access	S	S	V	V	V	V	V	S
Lift gate	.7	.7	S	S	V	V	V	14.0
Mounting bar for snowplow	17.7	17.1	S	S	V	V	V	14.9
Navigational system	S	S	V	V	V	V	V	S
Power take-off	5.9	4.9	1.0	.3	4.9	V	V	3.8
Radial tires	170.8	165.7	5.1	2.7	2.4	S	V	2.9
Reflective material in addition to those required by law	2.8	2.1	.7	.1	.6	S	V	6.2
Road speed governor	4.3	2.8	1.5	.1	1.4	V	V	11.7
Toolbox	19.5	18.7	.9	.2	1.7	S	V	13.2
Trip recorder or on-board computer with communication capabilities	8.8	8.8	S	S	S	V	V	22.1
Trip recorder or on-board computer without communication capabilities	36.9	36.2	S	S	.2	V	V	10.3
Vehicle control aids for handicapped drivers	S	S	V	V	V	V	V	S
Wheelchair lift	S	S	V	V	V	V	V	S
Winch	2.8	2.8	S	S	S	S	V	33.8
Transmission type:								
Automatic	161.8	158.8	3.0	2.9	S	S	V	2.9
Manual	79.4	76.2	3.1	.5	2.6	V	V	5.7
Semiautomated manual	S	S	S	V	S	V	V	S
Automated manual	V	V	V	V	V	V	V	N
Not reported	3.0	2.8	.2	.1	.1	V	V	35.3
Braking system:								
Hydraulic (standard)	4.2	4.0	.2	.2	S	V	V	5.2
Hydraulic with power assist	3.7	3.5	.1	.1	S	V	V	13.8
Air	8.4	5.5	3.0	.3	2.7	S	V	2.5
Other	V	V	V	V	V	V	V	N
Not reported	.8	.6	.2	S	.1	V	V	13.5
Not applicable ¹⁰	227.0	224.2	2.8	2.8	V	V	V	.9
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	220.3	217.6	2.6	2.6	V	V	V	1.3
Diesel	18.2	14.5	3.7	S	2.8	S	V	9.6
Natural gas	S	S	V	V	V	V	V	S
Propane	.1	.1	V	V	V	V	V	43.4
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	V	V	V	V	V	V	V	N
Other	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	5.6	5.6	V	V	V	V	V	27.5
Cylinders¹¹:								
4 cylinders	42.9	42.9	V	V	V	V	V	9.4
6 cylinders	123.0	118.7	4.3	S	2.7	S	V	4.1
8 cylinders	74.3	72.5	1.8	1.8	S	V	V	6.1
Other	3.9	3.7	.2	.1	.1	V	V	24.2
Cubic inch displacement¹¹:								
Gasoline fuel								
Less than 200	220.3	217.6	2.6	2.6	V	V	V	1.3
200 to 299	63.6	63.6	V	V	V	V	V	7.3
300 to 349	94.7	93.7	S	S	V	V	V	5.3
350 to 399	32.6	32.1	S	S	V	V	V	11.0
400 or more	23.0	22.9	.1	.1	V	V	V	12.9
Not available	4.6	3.6	S	S	V	V	V	26.8
Diesel fuel	1.7	1.7	S	S	V	V	V	38.9
Diesel fuel								
Less than 400	18.2	14.5	3.7	S	2.8	S	V	9.6
400 to 599	3.6	3.6	V	V	V	V	V	29.2
600 to 799	8.7	8.0	S	S	V	V	V	16.2
800 or more	2.5	1.3	1.2	.1	1.1	V	V	4.7
Not available	2.1	.6	1.5	.1	1.4	S	V	4.8
Other fuel	1.3	1.0	.3	V	.3	V	V	7.9
Less than 400	.1	.1	V	V	V	V	V	40.8
400 or more	V	V	V	V	V	V	V	N
Not available	.1	.1	V	V	V	V	V	40.8
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	5.6	5.6	V	V	V	V	V	27.5
REFUELING LOCATION								
Gas station	215.1	211.9	3.2	2.8	.5	V	V	1.6
Truck stop	4.7	3.7	1.0	.1	.9	V	V	24.6
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	11.8	9.9	1.9	S	1.2	S	V	14.2
Other company's/contractor's facility not open to the public	1.5	S	.2	V	.2	V	V	45.1
Other	V	V	V	V	V	V	V	N
Not reported	5.5	5.4	.1	S	V	V	V	28.0
Not applicable ²	5.6	5.6	V	V	V	V	V	27.5

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)
		Single-unit trucks and truck-tractors without trailer	Combination			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	4.9	4.9	S	V	S	V	30.0
Company-owned maintenance facility	22.9	20.6	2.4	S	1.7	S	11.4
General repair business or private mechanic	107.9	107.1	.8	S	.6	V	4.8
Dealership service department	67.8	65.9	1.9	S	.4	V	6.9
Leasing company	.4	.1	.2	S	.2	V	16.6
Individual not employed/paid by any maintenance type facility	82.7	80.6	2.2	S	.5	V	5.9
Other	V	V	V	V	V	V	N
Not reported	6.8	6.8	.1	S	V	V	25.2
Not applicable ²	5.6	5.6	V	V	V	V	27.5
Extensive repairs performed by:							
None performed	196.0	191.6	4.3	2.4	1.9	S	2.2
Company-owned maintenance facility	1.8	1.4	.4	S	.3	V	37.4
General repair business or private mechanic	16.7	16.1	.5	S	.1	V	15.6
Dealership service department	11.2	10.9	.3	S	.3	V	19.1
Leasing company	S	V	S	V	S	V	S
Component distributorship (engine, transmission, body, etc.)	2.0	2.0	.1	V	.1	V	46.2
Individual not employed/paid by any repair type facility	5.6	5.1	.5	S	.1	V	27.5
Other	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	S
Not applicable ²	5.6	5.6	V	V	V	V	27.5
AXLE ARRANGEMENT							
Driving axles:							
1	71.2	69.1	2.0	1.7	.3	S	6.4
2	172.9	168.7	4.2	1.8	2.5	V	2.7
3 or more	S	S	V	V	V	V	S
Not reported	V	S	S	V	S	V	37.9
Total liftable axles and locations ¹² :							
None	16.4	13.1	3.4	.6	2.7	S	3.0
1	.6	.5	.1	S	V	V	11.3
Forward of the drive axle	.3	.3	V	S	S	V	15.1
Below the chassis	.2	.2	S	S	S	V	23.5
Beyond the chassis	S	S	V	V	V	V	S
Not reported	.1	.1	S	S	S	V	29.3
2 or more	V	V	V	V	V	V	N
Forward of the drive axle	V	V	V	V	V	V	N
Below the chassis	V	V	V	V	V	V	N
Beyond the chassis	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	N
Not reported	.1	.1	S	V	S	V	29.3
Not applicable ¹⁰	227.0	224.2	2.8	2.8	V	V	.9
Total liftable axles and number of braking axles:							
None	16.4	13.1	3.4	.6	2.7	S	3.0
1	.6	.5	.1	S	V	V	11.3
0 braking	.1	.1	S	V	S	V	36.7
1 braking	.5	.5	.1	S	V	V	12.0
Not reported	S	S	V	V	V	V	S
2 or more	V	V	V	V	V	V	N
0 braking	V	V	V	V	V	V	N
1 braking	V	V	V	V	V	V	N
2 or more braking	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	N
Not reported	.1	.1	S	V	S	V	29.3
Not applicable ¹⁰	227.0	224.2	2.8	2.8	V	V	.9
CAB TYPE							
Conventional cab	15.0	11.7	3.3	.7	2.6	S	1.2
With sleeper	1.4	V	1.4	V	1.4	V	5.4
Without sleeper	13.5	11.7	1.9	.7	1.2	S	1.4
Not reported	V	V	V	V	V	V	41.1
Cab over engine	2.0	1.8	.2	S	.2	V	23.7
With sleeper	.1	V	.1	V	.1	V	21.4
Without sleeper	1.9	1.8	.1	S	.1	V	25.3
Not reported	V	V	V	V	V	V	N
Cab forward of engine	V	V	V	V	V	V	47.4
Cab beside engine	S	S	V	V	V	V	S
Not reported	S	S	V	V	V	V	S
Not applicable ¹⁰	227.0	224.2	2.8	2.8	V	V	.9

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

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

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

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

Table 6. Truck Miles by Vehicle Size: 2002

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
Total	3 270.4	2 890.2	78.5	42.2	259.6	X
Coefficient of variation (percent)	3.6	4.1	24.6	24.7	3.4	X
BUSINESS¹						
For-hire transportation or warehousing	170.4	S	15.1	S	127.8	8.7
Vehicle leasing or rental	44.0	S	1.7	5.4	18.5	31.7
Agriculture, forestry, fishing, or hunting	69.3	40.7	2.7	1.2	24.7	22.6
Mining	5.3	S	V	S	4.1	26.9
Utilities	S	S	V	S	4.9	S
Construction	267.5	235.3	5.9	2.6	23.8	17.1
Manufacturing	11.0	S	S	S	6.2	32.0
Wholesale trade	54.0	S	5.4	4.8	12.3	39.2
Retail trade	116.0	82.4	S	4.4	10.0	28.2
Information services	S	S	2.4	V	1.2	S
Waste management, landscaping, or administrative/support services	47.9	25.8	1.2	3.5	17.3	26.5
Arts, entertainment, or recreation services .....	.8	S	S	S	S	45.6
Accommodation or food services	35.3	27.8	S	S	3.8	38.1
Other services	55.6	S	S	S	S	43.5
Personal transportation	2 331.2	2 311.1	S	V	S	5.1
Not reported	18.1	S	.7	S	4.6	43.7
Not applicable ²	S	S	S	V	S	S
BODY TYPE						
Single-unit trucks	3 081.8	2 890.2	78.5	42.1	71.1	3.8
Pickup	1 418.1	1 390.3	S	V	V	6.7
Minivan	427.7	427.7	V	V	V	11.1
Other light vans	90.3	89.9	S	V	V	28.2
Sport utility	968.2	962.1	S	V	V	8.1
Armored	S	V	V	V	S	S
Beverage	4.3	V	S	2.5	1.8	28.5
Concrete mixer	1.2	V	V	V	1.2	30.5
Concrete pumper .....	.4	V	V	V	.4	41.9
Crane .....	.6	V	V	S	.6	43.9
Curtainside	S	V	V	V	S	S
Dump	33.8	3.1	4.0	2.6	24.1	6.7
Flatbed, stake, or platform	16.9	3.8	6.0	2.8	4.3	11.9
Low boy	V	V	V	V	V	N
Pole, logging, pulpwood, or pipe	2.8	V	V	V	2.8	31.2
Service, utility	7.2	.7	2.3	S	3.9	17.8
Service, other	5.4	1.6	2.7	S	S	26.6
Street sweeper	V	V	V	V	V	N
Tank, dry bulk	S	V	V	V	S	S
Tank, liquids or gases	10.1	V	V	S	8.7	17.0
Tow/Wrecker	6.6	S	4.3	S	.9	22.2
Trash, garbage, or recycling	11.0	V	S	S	9.3	16.4
Vacuum	1.2	V	V	S	.5	47.6
Van, basic enclosed	27.2	4.9	9.1	10.0	3.2	13.7
Van, insulated nonrefrigerated	S	V	S	S	V	S
Van, insulated refrigerated	10.0	V	S	4.2	5.4	25.8
Van, open top	1.2	V	S	V	S	46.0
Van, step, walk-in, or multistop	30.4	4.7	11.6	V	V	33.3
Van, other	4.5	V	S	S	S	41.6
Other	S	S	V	V	V	S
Truck-tractors	188.6	V	V	S	188.4	4.6
Automobile carrier	2.4	V	V	V	2.4	48.1
Beverage	S	V	V	V	S	S
Curtainside	V	V	V	V	V	N
Dump	6.2	V	V	V	6.2	28.9
Flatbed, stake, or platform	36.5	V	V	V	36.5	12.1
Livestock	V	V	V	V	V	N
Low boy	3.4	V	V	V	3.4	28.3
Mobile home toter	S	V	V	V	S	S
Open top	10.3	V	V	V	10.3	21.3
Pole, logging, pulpwood, or pipe	4.2	V	V	V	4.2	32.3
Tank, dry bulk	3.9	V	V	V	3.9	36.6
Tank, liquids or gases	26.5	V	V	V	26.5	15.7
Van, basic enclosed	70.5	V	V	S	70.4	8.1
Van, drop-frame	3.2	V	V	V	3.2	46.7
Van, insulated nonrefrigerated	S	V	V	V	S	S
Van, insulated refrigerated	16.7	V	V	V	16.7	19.0
Other	S	V	V	V	S	S
Not applicable ³	V	V	V	V	V	N
ANNUAL MILES						
Less than 5,000	89.5	81.8	2.4	1.4	4.0	11.3
5,000 to 9,999	316.6	298.9	6.8	2.2	8.8	9.4
10,000 to 19,999	1 512.7	1 466.2	16.7	8.2	21.6	4.8
20,000 to 29,999	638.6	579.0	23.3	S	19.4	11.6
30,000 to 49,999	294.6	232.6	S	9.1	28.4	21.4
50,000 to 74,999	162.6	112.5	4.0	4.5	41.6	34.5
75,000 or more	247.6	S	S	V	135.5	32.3
Not applicable ²	S	S	S	V	S	S
PRIMARY RANGE OF OPERATION						
Off-the-road	1.6	S	S	S	1.0	29.2
50 miles or less	2 323.1	2 178.6	44.1	28.1	72.3	5.1
51 to 100 miles	255.2	194.7	15.5	7.0	38.0	16.0
101 to 200 miles	139.2	77.8	S	S	58.5	21.3
201 to 500 miles	86.8	S	S	S	37.2	30.0
501 miles or more	91.7	S	S	S	35.2	30.4
Not reported	364.7	342.8	S	2.2	17.1	15.1
Not applicable ²	S	S	S	V	S	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Vehicle size				Coefficient of variation of total (percent)	
	Total	Light	Medium	Light-heavy		Heavy-heavy
PRIMARY JURISDICTION						
Operated in Canada	2.9	V	V	V	2.9	44.4
Operated in Mexico	V	V	V	V	V	N
Operated within the home base state	2 781.1	2 541.2	57.6	38.5	143.8	4.3
Operated in states other than the home base state	276.2	158.8	S	S	97.5	15.9
Not reported	202.0	182.3	S	2.1	15.2	17.2
Not applicable ²	S	S	S	V	S	S
MONTHS OPERATED						
12	2 407.8	2 119.9	63.0	35.8	189.2	4.6
7 to 11	519.6	452.5	10.2	4.2	52.7	15.9
2 to 6	318.1	294.5	5.0	2.2	16.4	14.3
1 or less	16.7	S	.1	.1	1.1	48.4
Vehicle not used	S	S	S	V	S	S
AVERAGE WEIGHT (POUNDS)						
Less than 6,001	2 191.1	2 191.1	N	N	N	4.6
6,001 to 8,500	579.3	579.3	N	N	N	16.2
8,501 to 10,000	119.7	119.7	N	N	N	24.2
10,001 to 14,000	55.8	N	55.8	N	N	34.0
14,001 to 16,000	6.3	N	6.3	N	N	21.5
16,001 to 19,500	16.4	N	16.4	N	N	21.8
19,501 to 26,000	42.2	N	N	42.2	N	24.7
26,001 to 33,000	19.9	N	N	N	19.9	14.5
33,001 to 40,000	16.2	N	N	N	16.2	16.3
40,001 to 50,000	11.3	N	N	N	11.3	20.1
50,001 to 60,000	26.1	N	N	N	26.1	8.5
60,001 to 80,000	162.2	N	N	N	162.2	5.0
80,001 to 100,000	23.5	N	N	N	23.5	14.5
100,001 to 130,000	.5	N	N	N	.5	48.5
130,001 or more	V	N	N	N	V	N
TOTAL LENGTH (FEET)						
Less than 20.0	2 677.6	2 607.6	44.3	S	9.7	4.5
20.0 to 27.9	295.7	228.8	25.9	16.1	24.9	14.2
28.0 to 35.9	86.2	52.2	6.6	7.7	19.7	20.0
36.0 to 40.9	18.5	S	S	S	16.1	21.4
41.0 to 44.9	9.5	S	S	S	7.3	20.0
45.0 to 49.9	3.6	V	S	S	3.1	21.6
50.0 to 54.9	8.0	V	S	S	7.6	25.3
55.0 to 59.9	32.9	V	V	S	32.7	13.3
60.0 to 64.9	58.4	V	V	V	58.4	8.9
65.0 to 69.9	54.0	V	V	V	54.0	10.1
70.0 to 74.9	25.3	V	V	V	25.3	14.8
75.0 to 79.9	S	V	V	V	S	S
80.0 or more	V	V	V	V	V	N
MILES PER GALLON						
Less than 5	58.0	S	S	1.6	55.4	7.8
5 to 6.9	171.3	2.1	3.5	5.0	160.7	5.0
7 to 8.9	30.1	1.7	7.0	9.4	12.0	11.9
9 to 10.9	111.4	88.4	12.3	7.7	3.1	22.9
11 to 12.9	200.7	180.3	9.0	S	1.2	21.4
13 to 14.9	219.6	205.2	S	S	6	16.9
15 or more	2 103.7	2 079.7	S	S	S	5.1
15 to 20.9	1 440.6	1 416.6	S	S	S	7.0
21 to 24.9	400.0	400.0	V	V	V	14.7
25 or more	263.2	263.2	V	V	V	17.2
Not reported	367.4	325.0	9.1	7.3	26.0	21.0
Not applicable ²	S	S	S	V	S	S
MODEL YEAR						
2003	2.8	V	S	V	2.3	35.9
2002	255.9	243.6	3.1	S	7.1	16.7
2001	321.7	264.9	S	2.4	31.7	14.0
2000	391.5	325.2	S	5.1	48.9	13.9
1999	389.2	321.7	S	3.2	50.5	13.3
1998	351.8	326.6	2.6	3.8	18.8	14.3
1997	262.7	221.8	4.8	S	21.4	16.6
1996	265.2	252.8	1.8	S	10.2	20.0
1995	211.8	192.0	3.1	2.7	14.0	28.9
1994	171.8	162.2	.6	S	8.0	18.6
1993	126.0	120.1	.8	S	4.9	25.5
Pre-1993	520.0	459.3	12.1	6.8	41.8	15.5
VEHICLE ACQUISITION						
New	1 644.2	1 384.2	50.0	33.8	176.2	6.1
Used	1 440.6	1 341.2	22.4	6.8	70.2	7.6
Not reported	185.7	164.7	6.1	1.7	13.2	18.3
LEASE CHARACTERISTICS						
Leased	254.0	178.6	5.0	6.3	64.0	14.2
Lessee	182.2	151.7	3.9	1.3	25.4	18.1
Vehicle only	30.7	S	3.9	1.3	25.4	11.6
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	151.5	151.5	1.1	5.1	38.3	18.2
Vehicle only	53.1	S	1.1	5.1	35.8	13.7
Vehicle with driver	43.1	V	V	V	2.4	49.3
Not reported	2.4	V	V	V	V	N
Not applicable ⁴	S	S	V	V	V	S
Not reported	S	S	V	V	S	S
Not leased	1 691.7	1 483.5	39.9	31.1	137.3	6.8
Not reported	1 324.7	1 228.1	33.6	4.8	58.3	7.1

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	254.0	178.6	5.0	6.3	64.0	14.2
1 to 11 months	S	V	V	S	S	S
12 months or more	75.5	S	5.0	6.3	63.0	9.0
Not reported	S	V	V	V	S	S
Not applicable ⁴	177.5	177.5	V	V	V	19.9
Provisions of lease ⁵ :						
Financing only	28.2	S	4.0	1.8	22.3	12.8
Full maintenance	51.9	S	1.4	5.1	44.4	11.6
Payment of taxes	38.1	S	S	5.5	31.4	14.8
Obtaining licenses and permits	35.7	S	S	4.6	29.8	15.4
Recordkeeping	6.4	V	V	S	5.9	26.8
Fuel contract	5.4	V	V	V	5.4	29.2
PRIMARY OPERATOR CLASSIFICATION						
Private	649.9	520.1	25.3	20.0	84.5	9.8
Motor carrier	176.7	S	12.0	S	120.6	13.6
Owner operator	59.7	S	S	S	35.1	25.6
Rental	44.7	S	1.7	5.4	19.1	31.2
Personal transportation	2 331.2	2 311.1	S	V	S	5.1
Not applicable ²	S	S	S	V	S	S
For-hire characteristics:						
Type of carrier:						
Contract	105.0	S	6.2	S	84.4	11.5
Common	75.3	2.0	9.3	3.4	60.6	7.9
Not reported	12.9	S	S	S	10.7	20.5
Not applicable ⁶	3 077.2	2 886.5	61.4	25.5	103.8	3.8
Type of service:						
Truckload	130.2	1.7	7.1	3.9	117.5	5.6
Less-than truckload	51.5	S	9.2	S	28.1	21.7
Not reported	11.5	S	.7	S	10.1	21.6
Not applicable ⁶	3 077.2	2 886.5	61.4	25.5	103.8	3.8
Source of hauls:						
Shippers or receivers	142.4	2.4	14.1	S	111.1	9.0
Brokers	15.3	V	S	V	14.3	18.0
Centralized markets or exchanges	3.1	S	V	V	2.9	43.7
Other	V	V	V	V	V	N
Not reported	32.4	1.0	2.0	S	27.5	11.8
Not applicable ⁶	3 077.2	2 886.5	61.4	25.5	103.8	3.8
HAZARDOUS MATERIALS CARRIED⁷						
Carrying hazardous materials	29.9	S	S	2.6	24.9	13.4
Not carrying hazardous materials	282.1	15.8	37.2	32.7	196.4	4.8
Not reported	27.5	3.6	3.5	1.5	19.0	12.6
Not applicable ⁸	2 931.0	2 870.0	S	5.4	19.3	4.0
EQUIPMENT TYPE^{5 9}						
Aerial work platform/bucket	6.8	S	2.4	S	3.5	19.0
Air bag(s) (safety device only)	2 131.9	2 058.2	31.0	5.8	37.0	5.1
Air compressor (except air brakes)	21.8	S	S	S	19.2	15.2
Air-conditioning	2 422.9	2 136.5	53.2	17.8	215.4	3.9
Air springs	113.0	V	S	S	109.6	6.6
Antilock brake system	2 233.8	2 019.8	53.5	16.1	144.4	4.9
Collision warning system	S	S	S	S	S	S
Computerized drive train control unit	383.0	366.7	S	S	11.9	14.9
Crane	6.4	S	1.3	S	4.1	19.2
Electronic vehicle identification device	S	S	V	V	S	S
Engine retarder/brake	197.0	1.0	3.4	3.7	188.8	4.1
Front-wheel drive	2 242.9	2 209.1	S	V	V	5.6
Hoist	26.0	1.4	5.3	1.7	17.7	9.4
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	35.5	S	S	S	23.0	30.2
Internet access	S	V	V	V	S	S
Lift gate	11.8	.5	4.0	5.0	2.2	19.8
Mounting bar for snowplow	235.4	214.5	S	S	2.0	30.1
Navigational system	S	S	V	V	V	S
Power take-off	103.6	2.6	8.4	5.7	86.9	5.4
Radial tires	2 399.7	2 087.3	67.5	32.8	212.1	5.0
Reflective material in addition to those required by law	80.4	.7	10.3	3.1	66.3	7.3
Road speed governor	161.0	2.5	12.8	22.1	123.7	8.0
Toolbox	292.3	219.0	10.5	4.3	58.4	14.3
Trip recorder or on-board computer with communication capabilities	168.8	142.2	13.3	S	2.2	25.7
Trip recorder or on-board computer without communication capabilities	483.6	460.9	S	S	21.0	11.2
Vehicle control aids for handicapped drivers	S	S	V	V	V	S
Wheelchair lift	S	S	V	V	V	S
Winch	40.0	S	S	S	6.8	42.7
Transmission type:						
Automatic	2 154.3	2 100.6	42.4	5.2	6.2	5.7
Manual	1 075.9	766.7	34.3	34.2	240.8	6.6
Semiautomated manual	S	V	V	S	S	S
Automated manual	V	V	V	V	V	N
Not reported	38.0	S	S	S	11.9	31.1
Braking system:						
Hydraulic (standard)	49.8	9.6	21.9	13.0	5.3	8.6
Hydraulic with power assist	42.4	8.3	14.9	S	2.5	23.9
Air	257.1	S	3.3	10.7	242.1	3.6
Other	V	V	V	V	V	N
Not reported	16.8	1.3	4.1	1.8	9.6	16.2
Not applicable ¹⁰	2 904.2	2 870.0	S	V	V	4.0

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	2 825.6	2 797.0	23.7	3.0	2.0	4.2
Diesel	434.4	85.4	54.2	38.0	256.8	8.4
Natural gas	S	V	S	V	V	S
Propane	1.6	V	V	S	S	48.0
Alcohol fuels	V	V	V	V	V	N
Electricity	V	V	V	V	V	N
Combination	V	V	V	V	V	N
Other	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ²	S	S	S	V	S	S
Cylinders ¹¹ :						
4 cylinders	573.7	571.4	2.3	V	S	13.1
6 cylinders	1 741.1	1 447.9	24.8	24.7	243.7	5.4
8 cylinders	930.6	859.2	49.6	S	4.9	10.2
Other	25.0	S	1.9	.6	10.9	31.8
Cubic inch displacement ¹¹ :						
Gasoline fuel	2 825.6	2 797.0	23.7	3.0	2.0	4.2
Less than 200	841.4	841.3	S	V	V	10.3
200 to 299	1 247.8	1 233.4	13.1	1.4	V	7.1
300 to 349	373.6	372.0	S	S	S	13.3
350 to 399	268.0	262.7	4.4	S	.6	16.9
400 or more	S	S	3.9	1.0	S	S
Not available	S	S	.6	2	4	S
Diesel fuel	434.4	85.4	54.2	38.0	256.8	8.4
Less than 400	62.6	49.2	6.6	4.4	2.5	38.0
400 to 599	141.5	36.0	47.2	33.1	25.3	18.8
600 to 799	96.4	V	S	S	96.3	6.9
800 or more	108.9	S	S	S	108.4	6.5
Not available	24.9	S	S	S	24.4	12.3
Other fuel	2.0	V	S	S	S	42.7
Less than 400	V	V	V	V	V	N
400 or more	2.0	V	S	S	S	42.7
Not available	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ²	S	S	S	V	S	S
REFUELING LOCATION						
Gas station	2 816.3	2 703.2	45.4	14.6	53.1	4.3
Truck stop	141.4	32.8	S	2.4	87.5	15.5
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	211.9	74.5	13.4	24.3	99.6	12.4
Other company's/contractor's facility not open to the public	25.5	S	S	S	15.4	28.9
Other	V	V	V	V	V	N
Not reported	67.1	62.7	S	S	3.7	30.1
Not applicable ²	S	S	S	V	S	S
MAINTENANCE⁵						
General maintenance performed by:						
None performed	29.0	28.3	S	S	S	42.0
Company-owned maintenance facility	440.9	225.5	23.9	27.8	163.7	11.2
General repair business or private mechanic	1 522.1	1 446.7	11.3	9.3	54.8	7.1
Dealership service department	991.6	908.9	42.6	2.7	37.4	8.0
Leasing company	17.3	S	S	S	15.2	16.9
Individual not employed/paid by any maintenance type facility	1 094.6	1 043.6	4.2	2.6	44.2	10.2
Other	V	V	V	V	V	N
Not reported	78.1	74.2	S	S	3.2	27.4
Not applicable ²	S	S	S	V	S	S
Extensive repairs performed by:						
None performed	2 611.4	2 337.7	60.4	35.4	177.9	4.1
Company-owned maintenance facility	43.0	S	S	S	30.5	19.9
General repair business or private mechanic	201.6	185.5	3.1	S	11.8	18.1
Dealership service department	202.2	158.2	S	2.5	28.5	19.1
Leasing company	S	V	V	V	S	S
Component distributorship (engine, transmission, body, etc.)	24.1	S	V	S	4.7	44.1
Individual not employed/paid by any repair type facility	S	S	S	S	5.4	S
Other	V	V	V	V	V	N
Not reported	S	S	S	S	S	S
Not applicable ²	S	S	S	V	S	S
TRUCK TYPE AND AXLE ARRANGEMENT						
Single-unit trucks and truck-tractors without trailer	3 060.4	2 878.9	74.0	41.4	66.2	3.9
2 axles	3 020.1	2 878.9	73.7	41.4	26.2	3.9
3 axles	29.5	V	S	S	29.2	7.8
4 axles	10.2	V	V	V	10.2	15.1
5 axles or more	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Combinations	210.0	S	S	S	193.4	5.5
Single-unit trucks with trailer	21.4	S	S	S	4.9	36.2
3 axles	S	S	S	S	S	S
4 axles	6.5	S	S	S	S	46.4
5 axles or more	3.5	V	V	S	3.5	31.6
Not reported	S	V	S	V	S	S
Truck-tractors with single trailer	188.5	V	V	S	188.3	4.6
3 axles	S	V	V	V	S	S
4 axles	12.2	V	V	V	12.1	31.4
5 axles or more	161.7	V	V	V	161.7	4.8
Not reported	14.1	V	V	V	14.1	21.8
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	V	V	V	V	V	N
Not reported	V	V	V	V	V	N

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Vehicle size				Coefficient of variation of total (percent)
		Light	Medium	Light-heavy	Heavy-heavy	
TRUCK TYPE AND AXLE ARRANGEMENT—Con.						
Combinations—Con.						
Truck-tractors with triple trailers	V	V	V	V	V	N
7 axles	V	V	V	V	V	N
8 axles	V	V	V	V	V	N
9 axles	V	V	V	V	V	N
10 axles or more	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Driving axles:						
1	797.0	674.8	37.8	41.3	43.1	7.9
2	2 471.1	2 215.4	40.7	.9	214.1	5.1
3 or more	S	V	V	V	S	S
Not reported	2.2	V	V	V	2.2	44.1
Total liftable axles and locations ¹² :						
None	348.8	20.2	44.2	42.2	242.2	4.0
1	14.5	V	V	V	14.5	14.6
Forward of the drive axle	8.5	V	V	V	8.5	18.3
Below the chassis	3.7	V	V	V	3.7	33.3
Beyond the chassis	S	V	V	V	S	S
Not reported	2.0	V	V	V	2.0	39.0
2 or more	V	V	V	V	V	N
Forward of the drive axle	V	V	V	V	V	N
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	2.8	V	V	V	2.8	36.6
Not applicable ¹⁰	2 904.2	2 870.0	S	V	V	4.0
Total liftable axles and number of braking axles:						
None	348.8	20.2	44.2	42.2	242.2	4.0
1	14.5	V	V	V	14.5	14.6
0 braking	1.4	V	V	V	1.4	43.8
1 braking	13.1	V	V	V	13.1	15.6
Not reported	S	V	V	V	S	S
2 or more	V	V	V	V	V	N
0 braking	V	V	V	V	V	N
1 braking	V	V	V	V	V	N
2 or more braking	V	V	V	V	V	N
Not reported	V	V	V	V	V	N
Not reported	2.8	V	V	V	2.8	36.6
Not applicable ¹⁰	2 904.2	2 870.0	S	V	V	4.0
CAB TYPE						
Conventional cab	318.4	17.7	29.1	27.2	244.4	3.1
With sleeper	123.0	V	V	V	123.0	6.2
Without sleeper	192.6	17.7	29.1	27.2	118.5	4.0
Not reported	2.8	V	V	V	2.8	41.6
Cab over engine	47.3	2.5	15.1	S	14.7	22.0
With sleeper	5.5	V	V	V	5.5	26.4
Without sleeper	41.8	2.5	15.1	S	9.2	24.7
Not reported	V	V	V	V	V	N
Cab forward of engine	S	S	V	V	S	S
Cab beside engine	V	V	V	V	V	N
Not reported	S	V	V	V	S	S
Not applicable ¹⁰	2 904.2	2 870.0	S	V	V	4.0

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 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	3 270.4	3 060.4	210.0	21.4	188.5	S	V	X
Coefficient of variation (percent)	3.6	3.9	5.5	36.2	4.6	S	N	X
BUSINESS¹								
For-hire transportation or warehousing	170.4	48.1	122.3	S	121.9	V	V	8.7
Vehicle leasing or rental	44.0	27.9	16.1	V	16.1	V	V	31.7
Agriculture, forestry, fishing, or hunting	54.0	51.3	18.0	2.4	15.6	V	V	22.6
Mining	5.3	3.1	2.2	V	2.2	V	V	26.9
Utilities	S	S	S	S	S	V	V	S
Construction	267.5	258.6	8.9	3.2	5.6	S	V	17.1
Manufacturing	11.0	S	5.4	V	5.4	V	V	32.0
Wholesale trade	54.0	46.3	7.8	S	7.0	V	V	39.2
Retail trade	116.0	112.9	3.1	S	S	V	V	28.2
Information services	S	S	V	V	V	V	V	S
Waste management, landscaping, or administrative/support services ..	47.9	40.8	7.0	S	5.4	V	V	26.5
Arts, entertainment, or recreation services .....	.8	S	S	S	S	V	V	45.6
Accommodation or food services	35.3	32.4	2.9	V	2.9	V	V	38.1
Other services	55.6	55.6	S	V	S	V	V	43.5
Personal transportation	2 331.2	2 319.2	S	S	S	V	V	5.1
Not reported	18.1	S	3.5	S	3.5	V	V	43.7
Not applicable ²	S	S	V	V	V	V	V	S
BODY TYPE								
Single-unit trucks	3 081.8	3 060.4	21.4	21.4	N	N	N	3.8
Pickup	1 418.1	1 411.2	S	S	N	N	N	6.7
Minivan	427.7	421.1	S	S	N	N	N	11.1
Other light vans	90.3	89.9	S	S	N	N	N	28.2
Sport utility	968.2	968.2	V	V	N	N	N	8.1
Armored	S	S	V	V	N	N	N	S
Beverage	4.3	4.3	V	V	N	N	N	28.5
Concrete mixer	1.2	1.2	V	V	N	N	N	30.5
Concrete pumper .....	.4	.4	V	V	N	N	N	41.9
Crane .....	.6	.6	V	S	N	N	N	43.9
Curtainside	S	S	S	S	N	N	N	S
Dump	33.8	31.5	2.3	2.3	N	N	N	6.7
Flatbed, stake, or platform	16.9	14.7	2.2	2.2	N	N	N	11.9
Low boy	V	V	V	V	N	N	N	N
Pole, logging, pulpwood, or pipe	2.8	1.6	1.2	1.2	N	N	N	31.2
Service, utility	7.2	6.7	S	S	N	N	N	17.8
Service, other	5.4	5.4	V	V	N	N	N	26.6
Street sweeper	V	V	V	V	N	N	N	N
Tank, dry bulk	S	S	V	V	N	N	N	S
Tank, liquids or gases	10.1	9.9	S	S	N	N	N	17.0
Tow/Wrecker	6.6	6.6	V	V	N	N	N	22.2
Trash, garbage, or recycling	11.0	11.0	V	V	N	N	N	16.4
Vacuum	1.2	1.2	V	V	N	N	N	47.6
Van, basic enclosed	27.2	27.2	V	V	N	N	N	13.7
Van, insulated nonrefrigerated	S	S	V	V	N	N	N	S
Van, insulated refrigerated	10.0	9.6	S	S	N	N	N	25.8
Van, open top	1.2	1.2	V	V	N	N	N	46.0
Van, step, walk-in, or multistop	30.4	30.4	V	V	N	N	N	33.3
Van, other	4.5	4.5	V	V	N	N	N	41.6
Other	S	S	V	V	N	N	N	S
Truck-tractors	188.6	V	188.6	N	188.5	S	V	4.6
Automobile carrier	2.4	N	2.4	N	2.4	V	V	48.1
Beverage	S	N	S	N	S	V	V	S
Curtainside	V	N	V	N	V	V	V	N
Dump	6.2	N	6.2	N	6.2	V	V	28.9
Flatbed, stake, or platform	36.5	N	36.5	N	36.5	V	V	12.1
Livestock	V	N	V	N	V	V	V	N
Low boy	3.4	N	3.4	N	3.3	S	V	28.3
Mobile home toter	S	N	S	N	S	V	V	S
Open top	10.3	N	10.3	N	10.3	V	V	21.3
Pole, logging, pulpwood, or pipe	4.2	N	4.2	N	4.2	V	V	32.3
Tank, dry bulk	3.9	N	3.9	N	3.9	V	V	36.6
Tank, liquids or gases	26.5	N	26.5	N	26.5	V	V	15.7
Van, basic enclosed	70.5	N	70.5	N	70.5	V	V	8.1
Van, drop-frame	3.2	N	3.2	N	3.2	V	V	46.7
Van, insulated nonrefrigerated	S	N	S	N	S	V	V	S
Van, insulated refrigerated	16.7	N	16.7	N	16.7	V	V	19.0
Other	S	N	S	N	S	V	V	S
Not applicable ³	V	V	V	N	V	V	V	N
ANNUAL MILES								
Less than 5,000	89.5	84.0	5.6	S	.4	V	V	11.3
5,000 to 9,999	316.6	311.9	S	S	1.3	V	V	9.4
10,000 to 19,999	1 512.7	1 501.5	S	S	2.4	S	V	4.8
20,000 to 29,999	638.6	633.0	5.6	S	4.1	V	V	11.6
30,000 to 49,999	294.6	280.1	14.5	S	14.0	V	V	21.4
50,000 to 74,999	162.6	128.4	34.2	S	32.9	V	V	34.5
75,000 or more	247.6	S	134.2	S	133.4	V	V	32.3
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Total	Truck type					Coefficient of variation of total (percent)	
		Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
PRIMARY RANGE OF OPERATION								
Off-the-road	1.6	1.6	S	S	S	V	V	29.2
50 miles or less	2 323.1	2 290.4	32.6	7.6	24.9	S	V	5.1
51 to 100 miles	255.2	220.6	34.7	S	25.5	V	V	16.0
101 to 200 miles	139.2	83.5	55.7	S	55.0	V	V	21.3
201 to 500 miles	86.8	S	35.9	S	35.1	V	V	30.0
501 miles or more	91.7	55.1	36.5	S	34.4	V	V	30.4
Not reported	364.7	350.0	14.6	S	13.6	V	V	15.1
Not applicable ²	S	S	V	V	V	V	V	S
PRIMARY JURISDICTION								
Operated in Canada	2.9	V	2.9	S	S	V	V	44.4
Operated in Mexico	V	V	V	V	V	V	V	N
Operated within the home base state	2 781.1	2 686.3	94.8	14.7	80.0	S	V	4.3
Operated in states other than the home base state	276.2	176.0	100.2	S	94.8	V	V	15.9
Not reported	202.0	189.9	12.2	S	11.6	V	V	17.2
Not applicable ²	S	S	V	V	V	V	V	S
MONTHS OPERATED								
12	2 407.8	2 257.0	150.8	3.4	147.4	V	V	4.6
7 to 11	519.6	475.2	44.3	S	30.6	V	V	15.9
2 to 6	318.1	303.9	14.2	S	9.8	S	V	14.3
1 or less	16.7	S	S	S	S	V	V	48.4
Vehicle not used	S	S	V	V	V	V	V	S
VEHICLE SIZE								
Light	2 890.2	2 878.9	S	S	V	V	V	4.1
Medium	78.5	74.0	S	S	V	V	V	24.6
Light-heavy	42.2	41.4	S	S	S	V	V	24.7
Heavy-heavy	259.6	66.2	193.4	4.9	188.3	S	V	3.4
AVERAGE WEIGHT (POUNDS)								
Less than 6,001	2 191.1	2 187.6	S	S	V	V	V	4.6
6,001 to 8,500	579.3	572.3	S	S	V	V	V	16.2
8,501 to 10,000	119.7	119.7	S	S	V	V	V	24.2
10,001 to 14,000	55.8	55.1	S	S	V	V	V	34.0
14,001 to 16,000	6.3	5.7	S	S	V	V	V	21.5
16,001 to 19,500	16.4	13.1	S	S	V	V	V	21.8
19,501 to 26,000	42.2	41.4	S	S	S	V	V	24.7
26,001 to 33,000	19.9	19.1	S	S	S	V	V	14.5
33,001 to 40,000	16.2	7.4	8.7	S	8.3	V	V	16.3
40,001 to 50,000	11.3	5.9	5.4	V	5.4	V	V	20.1
50,001 to 60,000	26.1	22.0	4.1	2.0	2.1	V	V	8.5
60,001 to 80,000	162.2	11.4	150.7	S	150.3	S	V	5.0
80,001 to 100,000	23.5	S	23.4	1.6	21.8	V	V	14.5
100,001 to 130,000 .....	.5	S	S	V	S	V	V	48.5
130,001 or more	V	V	V	V	V	V	V	N
TOTAL LENGTH (FEET)								
Less than 20.0	2 677.6	2 677.6	V	V	V	V	V	4.5
20.0 to 27.9	295.7	285.7	S	S	V	V	V	14.2
28.0 to 35.9	86.2	81.1	S	S	S	V	V	20.0
36.0 to 40.9	18.5	11.9	S	S	S	V	V	21.4
41.0 to 44.9	9.5	2.2	7.3	2.0	5.3	V	V	20.0
45.0 to 49.9	3.6	1.2	2.4	.7	1.7	V	V	21.6
50.0 to 54.9	8.0	.8	7.3	S	5.8	V	V	25.3
55.0 to 59.9	32.9	V	32.9	S	32.7	V	V	13.3
60.0 to 64.9	58.4	V	58.4	1.2	57.2	V	V	8.9
65.0 to 69.9	54.0	V	54.0	V	54.0	V	V	10.1
70.0 to 74.9	25.3	V	25.3	S	25.0	V	V	14.8
75.0 to 79.9	S	V	S	V	S	S	V	S
80.0 or more	V	V	V	V	V	V	V	N
MILES PER GALLON								
Less than 5	58.0	20.2	37.8	2.1	35.5	S	V	7.8
5 to 6.9	171.3	40.6	130.7	2.0	128.7	V	V	5.0
7 to 8.9	30.1	26.3	3.9	1.0	2.9	V	V	11.9
9 to 10.9	111.4	109.2	2.2	2.2	V	V	V	22.9
11 to 12.9	200.7	199.2	S	S	V	V	V	21.4
13 to 14.9	219.6	219.5	S	S	V	V	V	16.9
15 or more	2 103.7	2 094.4	S	S	V	V	V	5.1
15 to 20.9	1 440.6	1 431.3	S	S	V	V	V	7.0
21 to 24.9	400.0	400.0	V	V	V	V	V	14.7
25 or more	263.2	263.2	V	V	V	V	V	17.2
Not reported	367.4	342.9	24.5	S	21.3	V	V	21.0
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type						Coefficient of variation of total (percent)	
	Total	Single-unit trucks and truck-tractors without trailer	Combination					
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		Truck-tractor with triple trailers
MODEL YEAR								
2003	2.8	S	1.6	V	1.6	V	V	35.9
2002	255.9	249.1	6.8	1.6	5.2	V	V	16.7
2001	321.7	291.5	30.2	S	26.8	V	V	14.0
2000	391.5	350.3	41.2	1.9	39.3	V	V	13.9
1999	389.2	345.9	43.2	S	42.9	V	V	13.3
1998	351.8	337.4	14.4	S	14.0	V	V	14.3
1997	262.7	244.3	18.4	S	18.1	V	V	16.6
1996	265.2	257.7	7.6	S	7.4	V	V	20.0
1995	211.8	201.9	9.9	S	9.7	V	V	28.9
1994	171.8	165.8	6.0	V	6.0	V	V	18.6
1993	126.0	123.7	2.3	V	2.3	V	V	25.5
Pre-1993	520.0	491.6	28.4	S	15.1	S	V	15.5
VEHICLE ACQUISITION								
New	1 644.2	1 500.6	143.5	5.1	138.4	V	V	6.1
Used	1 440.6	1 390.2	50.4	S	39.1	S	V	7.6
Not reported	185.7	169.6	16.1	S	10.9	V	V	18.3
LEASE CHARACTERISTICS								
Leased	254.0	201.2	52.8	S	51.8	V	V	14.2
Lessee	182.2	161.4	20.8	S	19.8	V	V	18.1
Vehicle only	30.7	9.9	20.8	S	19.8	V	V	11.6
Vehicle with driver	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	151.5	151.5	V	V	V	V	V	21.7
Lessor	53.1	21.4	31.7	V	31.7	V	V	18.2
Vehicle only	43.1	13.8	29.3	V	29.3	V	V	13.7
Vehicle with driver	2.4	V	2.4	V	2.4	V	V	49.3
Not reported	V	V	V	V	V	V	V	N
Not applicable ⁴	S	S	V	V	V	V	V	S
Not reported	S	S	S	V	S	V	V	S
Not leased	1 691.7	1 576.6	115.1	S	103.1	V	V	6.8
Not reported	1 324.7	1 282.6	42.1	8.4	33.6	S	V	7.1
Length of leasing agreement:								
Leased	254.0	201.2	52.8	S	51.8	V	V	14.2
1 to 11 months	S	S	S	V	S	V	V	S
12 months or more	75.5	23.7	51.8	S	50.8	V	V	9.0
Not reported	S	V	S	V	S	V	V	S
Not applicable ⁴	177.5	177.5	V	V	V	V	V	19.9
Provisions of lease ⁵ :								
Financing only	28.2	10.6	17.6	S	16.6	V	V	12.8
Full maintenance	51.9	14.0	37.9	V	37.9	V	V	11.6
Payment of taxes	38.1	12.5	25.7	S	25.3	V	V	14.8
Obtaining licenses and permits	35.7	10.8	24.9	S	24.5	V	V	15.4
Recordkeeping	6.4	S	5.6	V	5.6	V	V	26.8
Fuel contract	5.4	S	5.1	V	5.1	V	V	29.2
PRIMARY OPERATOR CLASSIFICATION								
Private	649.9	608.3	41.6	7.2	34.2	S	V	9.8
Motor carrier	176.7	65.8	111.0	S	109.8	V	V	13.6
Owner operator	59.7	30.6	29.1	1.0	28.1	V	V	25.6
Rental	44.7	28.4	16.3	S	16.3	V	V	31.2
Personal transportation	2 331.2	2 319.2	12.0	S	V	V	V	5.1
Not applicable ²	S	S	V	V	V	V	V	S
For-hire characteristics:								
Type of carrier:								
Contract	105.0	26.7	78.2	V	78.2	V	V	11.5
Common	75.3	22.1	53.3	1.8	51.4	V	V	7.9
Not reported	12.9	4.3	8.6	S	8.2	V	V	20.5
Not applicable ⁶	3 077.2	3 007.3	69.9	19.2	50.6	S	V	3.8
Type of service:								
Truckload	130.2	23.3	106.9	1.4	105.5	V	V	5.6
Less-than truckload	51.5	26.2	25.3	V	25.3	V	V	21.7
Not reported	11.5	3.6	7.9	S	7.1	V	V	21.6
Not applicable ⁶	3 077.2	3 007.3	69.9	19.2	50.6	S	V	3.8
Source of hauls:								
Shippers or receivers	142.4	40.0	102.4	S	101.8	V	V	9.0
Brokers	15.3	S	14.2	S	13.8	V	V	18.0
Centralized markets or exchanges	3.1	S	2.7	S	S	V	V	43.7
Other	V	V	V	V	V	V	V	N
Not reported	32.4	11.6	20.9	S	20.5	V	V	11.8
Not applicable ⁶	3 077.2	3 007.3	69.9	19.2	50.6	S	V	3.8
HAZARDOUS MATERIALS CARRIED⁷								
Carrying hazardous materials	29.9	10.3	19.5	V	19.5	V	V	13.4
Not carrying hazardous materials	282.1	137.9	144.3	7.1	137.1	S	V	4.8
Not reported	27.5	11.5	16.0	S	15.6	V	V	12.6
Not applicable ⁸	2 931.0	2 900.8	30.2	S	16.3	V	V	4.0
EQUIPMENT TYPE^{5 9}								
Aerial work platform/bucket	6.8	6.5	S	S	V	V	V	19.0
Air bag(s) (safety device only)	2 131.9	2 091.7	40.2	S	29.5	V	V	5.1
Air compressor (except air brakes)	21.8	5.8	16.1	S	15.5	V	V	15.2
Air-conditioning	2 422.9	2 230.4	192.5	S	177.5	V	V	3.9
Air springs	113.0	8.5	104.4	S	103.9	V	V	6.6

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type						Coefficient of variation of total (percent)	
	Total	Single-unit trucks and truck-tractors without trailer	Combination			Truck-tractor with triple trailers		
			Total	Single-unit truck with trailer	Truck-tractor with single trailer			Truck-tractor with double trailers
EQUIPMENT TYPE^{5 9}—Con.								
Antilock brake system	2 233.8	2 096.4	137.4	S	125.2	V	V	4.9
Collision warning system	S	S	S	V	S	V	V	S
Computerized drive train control unit	383.0	367.0	16.0	S	9.2	V	V	14.9
Crane	6.4	5.0	1.4	S	S	V	V	19.2
Electronic vehicle identification device	S	S	S	V	S	V	V	S
Engine retarder/brake	197.0	41.7	155.3	3.0	152.3	V	V	4.1
Front-wheel drive	2 242.9	2 233.0	S	S	V	V	V	5.6
Hoist	26.0	24.2	1.8	1.8	V	V	V	9.4
Idle-reducing technology (portable auxiliary pack, electrification, etc.)	35.5	S	20.1	V	20.1	V	V	30.2
Internet access	S	S	V	V	V	V	V	S
Lift gate	11.8	11.3	S	S	V	V	V	19.8
Mounting bar for snowplow	235.4	231.7	S	S	V	V	V	30.1
Navigational system	S	S	V	V	V	V	V	S
Power take-off	103.6	57.3	46.3	2.9	43.4	V	V	5.4
Radial tires	2 399.7	2 220.8	178.9	16.6	162.3	S	V	5.0
Reflective material in addition to those required by law	80.4	29.5	50.9	1.9	48.8	S	V	7.3
Road speed governor	161.0	56.4	104.6	1.5	103.1	V	V	8.0
Toolbox	292.3	250.8	41.5	2.0	39.4	S	V	14.3
Trip recorder or on-board computer with communication capabilities	168.8	167.6	S	S	S	V	V	25.7
Trip recorder or on-board computer without communication capabilities	483.6	458.4	25.2	S	18.6	V	V	11.2
Vehicle control aids for handicapped drivers	S	S	V	V	V	V	V	S
Wheelchair lift	S	S	V	V	V	V	V	S
Winch	40.0	39.1	S	S	S	S	V	42.7
Transmission type:								
Automatic	2 154.3	2 139.1	S	S	S	S	V	5.7
Manual	1 075.9	892.3	183.6	5.5	178.1	V	V	6.6
Semiautomated manual	S	S	S	V	S	V	V	S
Automated manual	V	V	V	V	V	V	V	N
Not reported	38.0	27.6	10.4	1.1	9.4	V	V	31.1
Braking system:								
Hydraulic (standard)	49.8	48.4	1.4	1.3	S	V	V	8.6
Hydraulic with power assist	42.4	41.8	S	S	S	V	V	23.9
Air	257.1	71.6	185.6	4.4	181.0	S	V	3.6
Other	V	V	V	V	V	V	V	N
Not reported	16.8	8.3	8.5	S	7.4	V	V	16.2
Not applicable ¹⁰	2 904.2	2 890.3	S	S	V	V	V	4.0
FUEL TYPE AND ENGINE SIZE								
Fuel type:								
Gasoline	2 825.6	2 813.7	S	S	V	V	V	4.2
Diesel	434.4	236.3	198.1	9.5	188.5	S	V	8.4
Natural gas	S	S	V	V	V	V	V	S
Propane	1.6	1.6	V	V	V	V	V	48.0
Alcohol fuels	V	V	V	V	V	V	V	N
Electricity	V	V	V	V	V	V	V	N
Combination	V	V	V	V	V	V	V	N
Other	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
Cylinders¹¹:								
4 cylinders	573.7	573.7	V	V	V	V	V	13.1
6 cylinders	1 741.1	1 541.2	199.9	14.4	185.4	S	V	5.4
8 cylinders	930.6	924.1	6.5	6.4	S	V	V	10.2
Other	25.0	21.4	3.6	.6	3.0	V	V	31.8
Cubic inch displacement¹¹:								
Gasoline fuel								
Less than 200	2 825.6	2 813.7	S	S	V	V	V	4.2
200 to 299	841.4	841.4	V	V	V	V	V	10.3
300 to 349	1 247.8	1 239.8	S	S	V	V	V	7.1
350 to 399	373.6	371.5	S	S	V	V	V	13.3
400 or more	268.0	267.8	S	S	V	V	V	16.9
Not available	S	S	1.4	1.4	V	V	V	S
Diesel fuel								
Less than 400	434.4	236.3	198.1	9.5	188.5	S	V	8.4
400 to 599	62.6	62.6	V	V	V	V	V	38.0
600 to 799	141.5	135.9	S	S	S	V	V	18.8
800 or more	96.4	19.9	76.5	2.0	74.5	V	V	6.9
Not available	108.9	8.9	100.0	1.7	98.2	S	V	6.5
Other fuel	24.9	9.0	16.0	S	15.5	V	V	12.3
Less than 400	2.0	2.0	V	V	V	V	V	42.7
400 or more	V	V	V	V	V	V	V	N
Not available	2.0	2.0	V	V	V	V	V	42.7
Not reported	V	V	V	V	V	V	V	N
Not applicable ²	S	S	V	V	V	V	V	S
REFUELING LOCATION								
Gas station	2 816.3	2 771.1	45.2	15.0	30.1	V	V	4.3
Truck stop	141.4	62.5	78.9	1.5	77.5	V	V	15.5
Own facility (including home, farm, ranch, onsite by mobile supplier, etc.)	211.9	140.5	71.4	4.4	66.9	S	V	12.4
Other company's/contractor's facility not open to the public	25.5	S	12.1	V	12.1	V	V	28.9
Other	V	V	V	V	V	V	V	N
Not reported	67.1	64.7	2.4	S	S	V	V	30.1
Not applicable ²	S	S	V	V	V	V	V	S

See footnotes at end of table.

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

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

Vehicular and operational characteristics	Truck type							Coefficient of variation of total (percent)
	Total	Single-unit trucks and truck-tractors without trailer	Combination				Truck-tractor with triple trailers	
			Total	Single-unit truck with trailer	Truck-tractor with single trailer	Truck-tractor with double trailers		
MAINTENANCE⁵								
General maintenance performed by:								
None performed	29.0	28.9	S	V	S	V	V	42.0
Company-owned maintenance facility	440.9	314.4	126.5	3.5	123.0	S	V	11.2
General repair business or private mechanic	1 522.1	1 480.3	41.8	3.3	38.5	V	V	7.1
Dealership service department	991.6	953.8	37.8	S	30.8	V	V	8.0
Leasing company	17.3	4.4	12.9	S	12.7	V	V	16.9
Individual not employed/paid by any maintenance type facility	1 094.6	1 055.0	39.6	S	30.6	V	V	10.2
Other	V	V	V	V	V	V	V	N
Not reported	78.1	75.7	2.4	S	S	V	V	27.4
Not applicable ²	S	S	V	V	V	V	V	S
Extensive repairs performed by:								
None performed	2 611.4	2 475.1	136.3	12.9	123.3	S	V	4.1
Company-owned maintenance facility	43.0	17.1	25.9	S	25.8	V	V	19.9
General repair business or private mechanic	201.6	194.3	7.2	S	6.5	V	V	18.1
Dealership service department	202.2	177.6	24.7	S	24.0	V	V	19.1
Leasing company	S	V	S	V	S	V	V	S
Component distributorship (engine, transmission, body, etc.)	24.1	S	4.4	V	4.4	V	V	44.1
Individual not employed/paid by any repair type facility	S	S	S	S	4.5	V	V	S
Other	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ²	S	S	V	V	V	V	V	S
AXLE ARRANGEMENT								
Driving axles:								
1	797.0	776.8	20.2	5.8	14.3	S	V	7.9
2	2 471.1	2 282.9	188.2	15.6	172.5	V	V	5.1
3 or more	S	S	V	V	V	V	V	S
Not reported	2.2	S	S	V	S	V	V	44.1
Total liftable axles and locations ¹² :								
None	348.8	156.5	192.4	6.5	185.7	S	V	4.0
1	14.5	12.4	2.1	S	S	V	V	14.6
Forward of the drive axle	8.5	7.6	S	S	S	V	V	18.3
Below the chassis	3.7	3.3	S	S	S	V	V	33.3
Beyond the chassis	S	S	V	V	V	V	V	S
Not reported	2.0	1.2	S	S	S	V	V	39.0
2 or more	V	V	V	V	V	V	V	N
Forward of the drive axle	V	V	V	V	V	V	V	N
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	2.8	1.2	S	V	S	V	V	36.6
Not applicable ¹⁰	2 904.2	2 890.3	S	S	V	V	V	4.0
Total liftable axles and number of braking axles:								
None	348.8	156.5	192.4	6.5	185.7	S	V	4.0
1	14.5	12.4	2.1	S	S	V	V	14.6
0 braking	1.4	S	S	V	S	V	V	43.8
1 braking	13.1	11.2	1.8	S	S	V	V	15.6
Not reported	S	S	V	V	V	V	V	S
2 or more	V	V	V	V	V	V	V	N
0 braking	V	V	V	V	V	V	V	N
1 braking	V	V	V	V	V	V	V	N
2 or more braking	V	V	V	V	V	V	V	N
Not reported	V	V	V	V	V	V	V	N
Not reported	2.8	1.2	S	V	S	V	V	36.6
Not applicable ¹⁰	2 904.2	2 890.3	S	S	V	V	V	4.0
CAB TYPE								
Conventional cab								
With sleeper	318.4	132.0	186.4	6.7	179.6	S	V	3.1
Without sleeper	123.0	V	123.0	V	123.0	V	V	6.2
Without sleeper	192.6	132.0	60.6	6.7	53.7	S	V	4.0
Not reported	2.8	V	2.8	V	2.8	V	V	41.6
Cab over engine								
With sleeper	47.3	37.6	9.7	S	8.9	V	V	22.0
Without sleeper	5.5	V	5.5	V	5.5	V	V	26.4
Without sleeper	41.8	37.6	4.2	S	3.4	V	V	24.7
Not reported	V	V	V	V	V	V	V	N
Cab forward of engine								
Cab beside engine	S	S	V	V	V	V	V	S
Not reported	V	V	V	V	V	V	V	N
Not reported	S	S	V	V	V	V	V	S
Not applicable ¹⁰	2 904.2	2 890.3	S	S	V	V	V	4.0

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 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	3 270.4	366.2	3.6	3.8	3.6	3.8
TRAILER CONFIGURATION						
No trailer pulled	3 001.0	170.1	3.8	6.7	3.8	6.7
Single trailer pulled	261.0	195.5	5.6	4.4	5.6	4.4
Double trailers pulled	S	S	S	S	S	S
Triple trailers pulled	V	V	N	N	N	N
Not applicable ¹	S	.5	S	38.0	S	38.0
RANGE OF OPERATION						
Off-the-road	14.9	3.2	16.6	11.1	16.6	11.1
50 miles or less	2 032.8	127.3	5.1	8.7	5.1	8.7
51 to 100 miles	405.8	73.3	9.1	6.0	9.1	6.0
101 to 200 miles	200.8	62.1	10.6	7.0	10.6	7.0
201 to 500 miles	150.9	46.7	12.5	8.8	12.5	8.8
501 miles or more	92.4	30.5	25.8	12.2	25.8	12.2
Not reported	364.7	22.8	15.1	13.8	15.1	13.8
Not applicable ¹	S	.5	S	38.0	S	38.0
JURISDICTION						
Operated in Canada	20.3	4.4	17.4	17.7	17.4	17.7
Operated in Mexico	S	S	S	S	S	S
Operated within the home base state	2 615.5	235.2	4.3	5.2	4.3	5.2
Operated in states other than the home base state	424.3	105.2	8.7	5.3	8.7	5.3
Not reported	202.0	21.0	17.2	14.3	17.2	14.3
Not applicable ¹	S	.5	S	38.0	S	38.0
OPERATOR CLASSIFICATION						
Private	648.3	144.8	9.0	4.3	9.0	4.3
Motor carrier	177.1	151.4	13.5	8.5	13.5	8.5
Owner operator	57.9	42.3	22.0	10.3	22.0	10.3
Rental	45.3	26.9	30.7	14.8	30.7	14.8
Personal transportation	2 333.6	.3	5.0	38.8	5.0	38.8
Not applicable ¹	S	.5	S	38.0	S	38.0
For-hire characteristics:						
Type of carrier:						
Contract	96.2	96.2	8.7	8.7	8.7	8.7
Common	84.1	84.1	9.1	9.1	9.1	9.1
Not reported	12.9	12.9	20.5	20.5	20.5	20.5
Not applicable ^{2 3}	3 077.2	173.0	3.8	4.2	3.8	4.2
Type of service:						
Truckload	51.9	51.9	21.0	21.0	21.0	21.0
Less-than truckload	129.9	129.9	5.4	5.4	5.4	5.4
Not reported	11.5	11.5	21.6	21.6	21.6	21.6
Not applicable ^{2 3}	3 077.2	173.0	3.8	4.2	3.8	4.2
PRODUCTS CARRIED⁴						
Animals and fish, live .....	.8	.7	35.4	37.8	35.4	37.8
Animal feed and products of animal origin	5.6	2.4	30.6	29.6	30.6	29.6
Grains, cereal	2.8	1.3	38.9	38.3	38.9	38.3
All other agricultural products	S	4.4	S	23.2	S	23.2
Basic chemicals	S	S	S	S	S	S
Fertilizers and fertilizer materials .....	.5	.3	40.2	46.7	40.2	46.7
Pharmaceutical products	V	V	N	N	N	N
All other chemical products and preparations	S	S	S	S	S	S
Alcoholic beverages	4.4	4.1	27.8	29.5	27.8	29.5
Bakery and milled grain products	S	7.3	S	42.6	S	42.6
Meat, seafood, and their preparations	8.8	4.9	33.1	31.0	33.1	31.0
Tobacco products	S	S	S	S	S	S
All other prepared foodstuffs	39.7	33.5	11.6	10.4	11.6	10.4
Logs and other wood in the rough	14.7	12.7	15.9	16.5	15.9	16.5
Paper or paperboard articles	S	4.3	S	30.2	S	30.2
Printed products	S	S	S	S	S	S
Pulp, newsprint, paper, and paperboard	4.0	3.5	30.4	31.5	30.4	31.5
Wood products	27.6	14.3	19.2	14.8	19.2	14.8
Articles of base metal	65.1	12.1	32.9	15.9	32.9	15.9
Base metal in primary or semifinished forms	S	5.1	S	23.5	S	23.5
Nonmetallic mineral products	14.6	7.7	35.7	22.0	35.7	22.0
Tools, nonpowered	193.5	17.8	17.7	12.0	17.7	12.0
Tools, powered	137.7	14.2	19.9	13.8	19.9	13.8
Electronic and other electrical equipment	19.8	2.0	43.6	35.7	43.6	35.7
Furniture, mattresses, lamps, etc.	7.2	6.2	27.2	29.8	27.2	29.8
Machinery	8.7	5.5	30.6	24.6	30.6	24.6
Miscellaneous manufactured products	27.5	4.3	45.6	27.2	45.6	27.2
Precision instruments and apparatus	S	S	S	S	S	S
Textile, leather, and related articles .....	.3	.3	41.4	41.4	41.4	41.4
Vehicles, including parts	13.8	10.2	25.4	17.9	25.4	17.9
All other transportation equipment .....	.8	.6	44.0	47.9	44.0	47.9
Coal	V	V	N	N	N	N
Crude petroleum	V	V	N	N	N	N
Gravel or crushed stone	12.2	11.6	10.0	9.8	10.0	9.8
Metallic ores and concentrates	V	V	N	N	N	N
Monumental or building stone	10.5	9.8	19.7	20.4	19.7	20.4
Natural sands	2.6	2.6	20.5	20.5	20.5	20.5
All other nonmetallic minerals	1.3	1.3	32.7	32.7	32.7	32.7
Fuel oils	7.3	7.2	23.0	23.2	23.0	23.2
Gasoline and aviation turbine fuel	2.9	2.8	32.7	34.0	32.7	34.0

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	2.6	2.5	38.4	39.6
All other coal and refined petroleum products	6.4	6.3	22.3	22.5
Hazardous waste (EPA manifest)	S	S	S	S
All other waste and scrap (non-EPA manifest)	23.1	12.5	27.8	13.3
Recyclable products	5.7	3.8	26.8	20.5
Mail and courier parcels	27.7	22.2	38.5	44.6
Empty shipping containers	3.5	3.5	42.2	42.2
Passengers	S	V	S	N
Mixed freight	16.0	16.0	19.0	19.0
Products, equipment, or materials not elsewhere classified	S	S	S	S
Products not specified	29.4	14.4	34.2	16.6
Not applicable ¹	S	.5	S	38.0
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	V	V	N	N
Division 1.5, Explosives	V	V	N	N
Division 1.6, Explosives	V	V	N	N
Division 2.1, Flammable gas	4.6	4.6	24.8	24.8
Division 2.2, Nonflammable gas .....	.3	.3	41.1	41.1
Division 2.3, Poison gas	V	V	N	N
Class 3, Flammable	7.6	7.6	19.6	19.6
Combustible liquid	2.2	2.2	29.2	29.2
Oxygen 2, Oxygen	S	S	S	S
Division 4.1, Flammable solid .....	.1	.1	30.9	30.9
Division 4.2, Spontaneously combustible	S	S	S	S
Division 4.3, Dangerous when wet .....	.2	.2	32.6	32.6
Division 5.1, Oxidizer .....	.3	.3	30.9	30.9
Division 5.2, Organic peroxide .....	.1	.1	32.6	32.6
Division 6.1, Poison inhalation hazard	S	S	S	S
Division 6.1, Poison .....	.1	.1	47.5	47.5
Class 7, Radioactive	V	V	N	N
Class 8, Corrosive	1.9	1.9	36.0	36.0
Class 9	S	S	S	S
Hazardous materials not specified	S	S	S	S
Not applicable ¹	S	.5	S	38.0

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.

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

